

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

April 28, 2016

To: Hamilton County Drainage Board

Re: Little Eagle Creek Drain, Tallyn's Ridge Arm

Attached is a petition filed by Tallyn's Ridge Developer, LLC, along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Tallyn's Ridge Arm, Little Eagle Creek Drain to be located in Clay 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	1,125 ft.	24" RCP	214 ft.
15" RCP	567 ft.	6" SSD	6,954 ft.
18" RCP	2,256 ft.	Open Ditch	560 ft.
21" RCP	160 ft.		

The total length of the drain will be 11,836 feet.

The open ditch listed above is from Str. 814 to Str. 809 and from Str. 811 to and through the existing 30" CMP under Shelborne Road to the west right of way line of Shelborne Road.

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:

Curbline SSD in Streets:

Tamsyn Circle
 Tamerlane Place

Rear Yard SSDs:

Rear yard lots 1 to 3 from Str. 142 to Str. 109
 Rear yard lots 4 to 5 from Str. 109 to Str. 99

Trahan Drive

Rear yard lot 6 from Str. 99 to Str. 112
Rear yard lots 8 and 9 from Str. 124 running north to riser
Rear yard lots 23 and 24 from Str. 129 running south to riser
Rear yard lots 25 to 27 from Str. 129 running north to riser
Rear yard lots 14 and 15 from Str. 120 running south to riser
Rear yard lots 16 to 19 from Str. 120 to Str. 121
Common Area #1 from Str. 143 running west to riser
Common Area #2 from Str. 145 running west to riser
Common Area #2 from Str. 145 running east to riser

The retention ponds (Lake #1 and Lake #2) located in Common Areas #2 and #4 are not to be considered part of the regulated drain. Pond maintenance assumed by the Drainage Board shall only include the inlets and outlet as part of the regulated drain. The maintenance of the retention ponds (lakes) such as sediment removal and erosion control along the banks, mowing and aquatic vegetation maintenance and 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.

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 \$2,120.90.

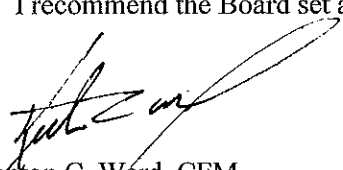
In accordance with IC 36-7-4-709, the petitioner did not submit surety for the proposed drain prior to construction commencing. If the petitioner/developer wants to submit final secondary plat for recording prior to the final inspection and approved as-built drawings, a bond will be required at that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

The off-site easement for the site outlet on parcel 17-09-20-00-00-001.000, owned by William R. and Henrietta L. Lamb, is recorded as instrument number 2014015099 in the office of the Hamilton County Recorder. The off-site easement on parcel 17-09-20-00-00-002.101, owned by Albany Place Developer, LLC, is future Albany Place. This will be covered by platted easement when Albany Place is platted. Albany Place Developer, LLC is a subsidiary of Platinum Properties Management Company. Also will be new easement across the right of way of Shelborne Road owned by the City of Carmel.

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 Tallyn's Ridge as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for July 25, 2016.



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

**Gasb 34 Asset Price &
Drain Length Log**

Drain-Improvement: Tallyn's Ridge

Drain Type:	Size:	Length	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
RCP	12	1125	1125	—	\$ 26 ²⁵ /F	29,531 ²⁵
RCP	15	567	567	—	\$ 31 ⁰⁰ /F	17,577
RCP	18	2256	2256	—	\$ 35 ⁵⁰ /F	80,088
RCP	21	160	160	—	\$ 41 ⁰⁰ /F	6,560
RCP	24	214	214	—	\$ 47 ⁰⁰ /F	10,058
SSD	6	6954	6954	—	\$ 10.50/F	73,017
Open	—	560	560	—	\$ 19.55/F	10,948
12" END SECTION		—————	—————	2@	\$ 1350 ⁰⁰	2700 ⁰⁰
15" End Section		—————	—————	1@	\$ 1450 ⁰⁰	1450 ⁰⁰
18" End Section		—————	—————	4@	\$ 1600 ⁰⁰	6400 ⁰⁰
Swale under SSD		1935	—————	—————	\$ 10.50/F	20,317 ⁵⁰

Sum: _____ \$ 258,646⁷⁵

Final Report: _____

Comments:
Numbers are based upon Construction Plans & the Engineer's
estimate Sec. 1. A development in the same area and
constructed in the same time frame.

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

Paul Rioux
Printed Name

January 15, 2016
Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Adobe PDF Filable Form

DRAINAGE EASEMENT

1500
(5)

THIS INDENTURE WITNESSETH: That THE WILLIAM R. LAMB AND HENRIETTA L. LAMB REVOCABLE LIVING TRUST

(referred to herein as the "Grantor") for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, does hereby convey to the Board of Commissioners of Hamilton County, ("Grantee") a non-exclusive perpetual easement through, upon, over, along and across the following described real property located in Hamilton County, Indiana, ("the Easement") to-wit;

See Exhibit A.

This Easement is granted for the purpose of providing overland or subsurface paths and courses for the construction, maintenance, preservation of storm drainage. The Grantor reserves for themselves and their successors and assigns the right to use the Easement for any uses which are not inconsistent with the purposes herein. However, in the event the Grantor, or their successors, elect or desire to do any construction or alterations to the Real Estate within the Easement, they shall do so only upon approval of the Grantee. The Grantor further agrees that they shall not grant any easements to any other utilities, or other persons, through the real estate described herein, without the consent of the Grantees, and if said grants are given, those easements shall be subject to the Grantee's rights to regulate and permit construction or alteration with the Easement.

In the event the Grantee, its employees, or contractors are required to come upon the real estate contained in the Easement to replace, restore, or clear any drainage structures, ditches, drains, or swales contained therein, the Grantee shall only be liable to restore the Grantor's real estate to its previous grade, and to re-seed and undertake erosion control measures as are required by 327 IAC15-5 as amended. The Grantee, its employees, or contractors shall not be liable to Grantor, or his successor in title, for any improvements to the real estate, landscaping, sod, or any other improvements within the Easement which are damaged in the course of the repair of the drainage structure, ditches, drains, or swales contained in the Easement area.

1 of 3
Form revised 01/02/02

FINDINGS AND ORDER

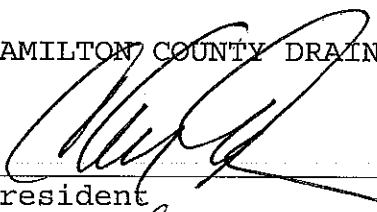
CONCERNING THE MAINTENANCE OF THE

Little Eagle Creek Drain, Tallyn's Ridge Arm

On this 25th day of July, 2016, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Little Eagle Creek Drain, Tallyn's Ridge 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

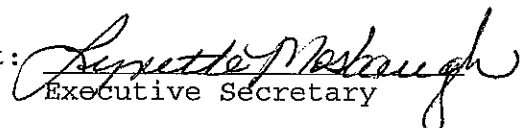


Member



Member

Attest:



Executive Secretary



STOEPPELWERTH

ALWAYS ON

ofc: 317.849.5935
fax: 317.849.5942

7965 East 106th Street
Fishers, IN 46038-2505
www.stoepelwerth.com

February 29, 2014

Hamilton County Surveyor's Office
One Hamilton County Square, Suite 188
Noblesville, Indiana 46060

Attention: Greg Hoyes

Re: Tallyn's Ridge

Dear Mr. Hoyes:

Please accept the following Engineer's Estimate on behalf of Tallyn's Ridge Developer, LLC for Tallyn's Ridge. The estimate is as follows:

Tallyn's Ridge

Item	Unit	Unit Cost	Quantities	Cost
Storm Drainage				
12" Pipe	LF	\$ 25.00	948	\$ 23,700
12" End Section	EA	\$ 1,365.00	2	\$ 2,730
12" Trash Guard	EA	\$ 600.00	2	\$ 1,200
15" Pipe	LF	\$ 29.35	418	\$ 12,268
15" End Section	EA	\$ 1,380.00	1	\$ 1,380
15" Trash Guard	EA	\$ 625.00	1	\$ 625
18" Pipe	LF	\$ 34.40	2183	\$ 75,095
18" End Section	EA	\$ 1,440.00	3	\$ 4,320
18" Trash Guard	EA	\$ 660.00	3	\$ 1,980
21" Pipe	LF	\$ 40.00	160	\$ 6,400
24" Pipe	LF	\$ 45.50	214	\$ 9,737
Standard Storm Manholes	EA	\$ 2,270.00	5	\$ 11,350
Large Storm Manholes & Double Inlets	EA	\$ 3,320.00	5	\$ 16,600
Storm Inlets	EA	\$ 2,100.00	16	\$ 33,600
Sand Backfill and Bedding	TON	\$ 14.25	160.00	\$ 2,280
	Sub-total			\$ 203,266
Sub-surface Drains - under curb	LF	\$ 10.35	4,180	\$ 43,263
Sub-surface Drains - swales	LF	\$ 10.35	2,230	\$ 23,081
Sub-surface Drains - sump laterals	EA	\$ 227.00	27	\$ 6,129
	Sub-total			\$ 72,473
	Total			\$ 275,738

FILED
MAR - 2 2016
OFFICE OF HAMILTON COUNTY SURVEYOR

LAND DEVELOPMENT SUPPORT SOLUTIONS


ENGINEERING | SURVEYING

Monuments & Markers				
Lot Corner Monuments	LOT	\$ 100.00	27	\$ 2,700
Street Centerline Monumentation	EA	\$ 170.00	8	\$ 1,360
Total				\$ 4,060
Erosion Control				
--> Not Applicable - Property annexed by City of Carmel and governed by Carmel MS4 permit.			NA	NA
Total				\$ -
Grand Total				\$ 279,798

If you have any questions regarding these estimates, please contact Brett A. Huff at (317) 570-4841.

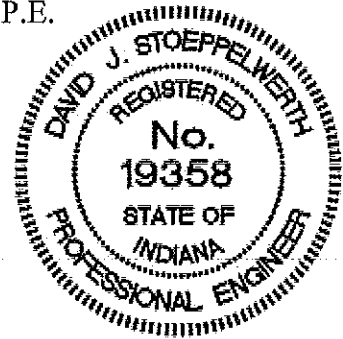
Very truly yours,

STOEPPELWERTH & ASSOCIATES, INC.



 David J. Stoepfelwerth, P.E.
 Professional Engineer
 No. 19358

Cc: Tim Walter
 BAH/meb
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BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Little Eagle Creek Drain, Tallyn's Ridge 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, Tallyn's Ridge Arm** on **July 25, 2016** 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

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF THE

Little Eagle Creek Drain, Tallyn's Ridge Arm

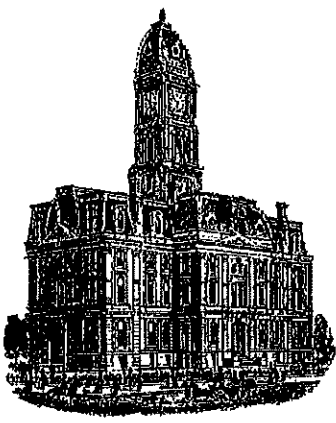
NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **July 25, 2016** 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



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

May 24, 2017

Re: Little Eagle Creek Drain: Tallyn's Ridge

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

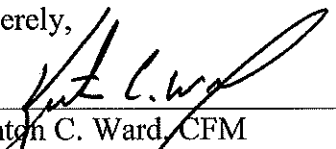
During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated April 28, 2016. The report was approved by the Board at the hearing held July 25, 2016. (See Drainage Board Minutes Book 17, Pages 38-40)

The changes are as follows:

The 12" RCP was shortened from 1125 feet to 1122 feet. The 15" RCP was shortened from 567 feet to 563 feet. The 18" RCP was shortened from 2256 feet to 2246 feet. The 21" RCP was shortened from 160 feet to 159 feet. The 24" RCP was lengthened from 214 feet to 216 feet. The 6" SSD was shortened from 6,954 feet to 6,766 feet. The open ditch was lengthened from 560 feet to 573 feet. The length of the drain due to the changes described above is now **11,644 feet**.

The non-enforcement was approved by the Board at its meeting on July 25, 2016 and recorded under instrument #2016054069. Sureties were not provided by the developer in accordance with IC 36-9-27-67 to 69.

I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely,


Kenton C. Ward, CFM
Hamilton County Surveyor


CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Tallyn's Ridge

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: September 29, 2016

Type or Print Name: Dennis D. Olmstead

Business Address: Stoepelwerth & Associates, Inc.

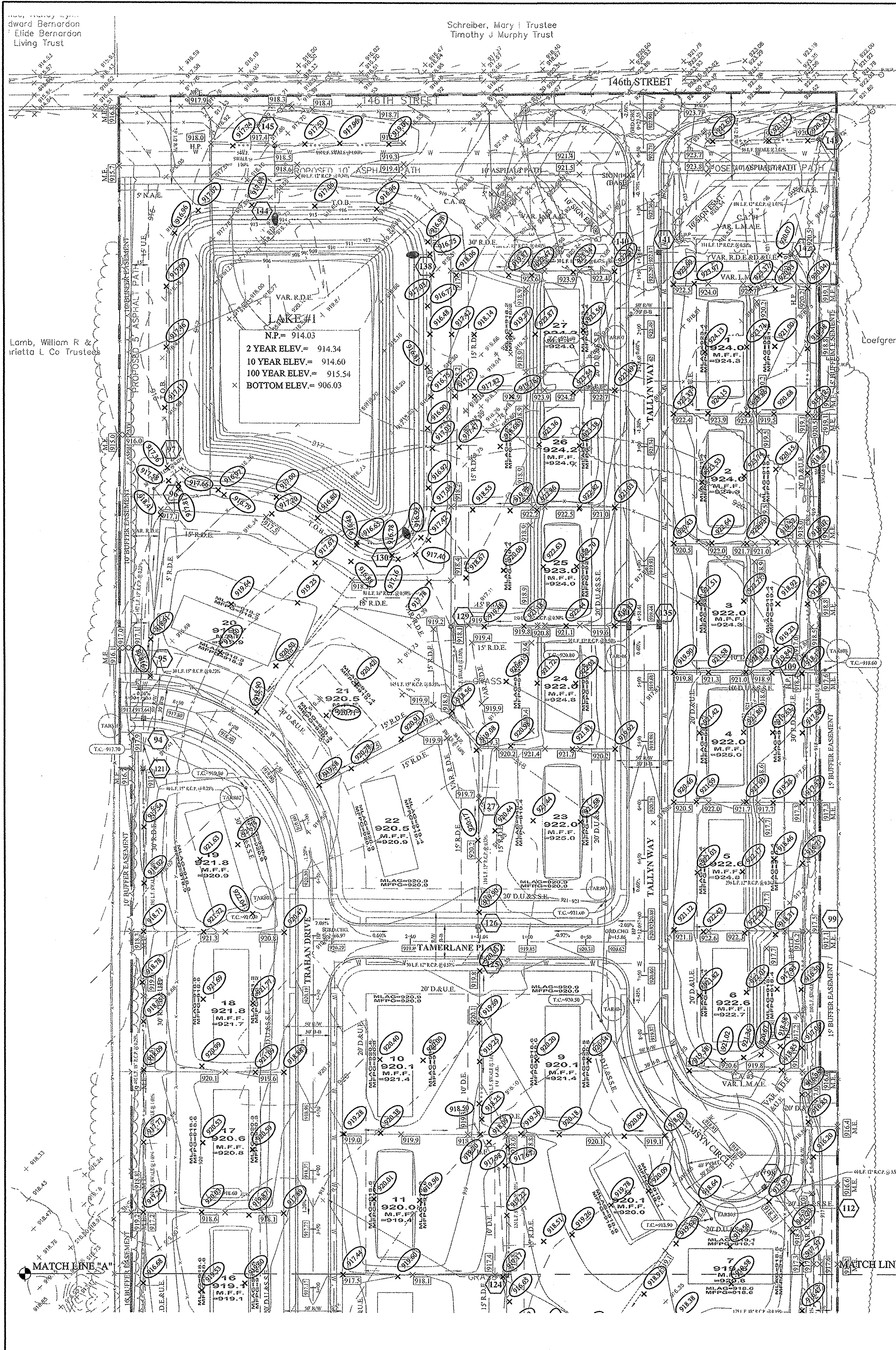
7965 East 106th Street, Fishers, Indiana 46038

Telephone Number: (317) 570-4700



INDIANA REGISTRATION NUMBER

900012



Edward Bernardon
Elide Bernardon
Living Trust

Schreiber, Mary | Trustee
Timothy J. Murphy Trust

Lamb, William R &
Trietia L Co Trustees

APPROVAL PENDING
NOT FOR CONSTRUCTION

NO.	DATE	BY	REVISIONS
1	08/20/16	ADG	ASBUILT
2	07/21/16	ADG	REVISED PER CROSSROADS COMMENTS
3	02/21/15	ADG	REVISED PER CLIENT COMMENTS
4	02/21/15	ADG	REVISED PLANS PER NEW DEVELOPER
5	02/21/15	ADG	PLANS PREVIOUSLY APPROVED FOR LAMBA BROS HOMES (10/15)

CONTACT:
CARMEL UTILITIES (317) 571-2648 FOR WATER LOCATES

FOR SANITARY SEWER LOCATES
CONTACT: CLAY TOWNSHIP REGIONAL WASTE DISTRICT
(317) 844-9200

STORM SEWER FOR THIS PROJECT WILL BE PUBLIC.

ALL STORM SEWERS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE RCP CLASS III.

NOTE:
FOR STORM AND PIPE CHARTS SEE SHEET C202

NOTES TO CONTRACTOR:

ALL PADS SHOULD BE TESTED TO ASSURE A COMPACTION OF AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY USING THE STANDARD PROCTOR TEST METHOD.

ANY PRIVATE TILES LOCATED ON THIS SITE WILL NEED TO BE LOCATED, BREATHERS SET AT THE DOWNSTREAM PROPERTY LINE AND CRUSHED OR REMOVED ACROSS THE SITE. IF ANY OF THESE TILES EXTEND BEYOND THE LIMITS OF THIS PROJECT, THEY WILL NEED TO BE PROVIDED A POSITIVE OUTLET AND ALLOWED TO CONTINUE TO FUNCTION, AS IT IS ILLEGAL TO BLOCK OFF A PRIVATE "MUTUAL" TILE.

CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ON-SITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE IS NOT ANY CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

ALL PAVING WITHIN THE EXISTING AND PROPOSED RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF ENGINEERING. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT'S CONSTRUCTION REQUIREMENTS, STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF WORK TO REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO WORK WITHIN THE EXISTING AND PROPOSED CITY RW.

EXISTING PAVEMENT TO BE SAW CUT TO A CLEAN EDGE ADJACENT TO ANY WIDENING, AUXILIARY LANES, ETC.

NO EARTH DISTURBING ACTIVITY MAY TAKE PLACE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.

THERE IS TO BE NO DRIVEWAY ENCROACHMENTS INTO EASEMENTS BETWEEN LOTS.

UTILITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. UTILITY LINE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH PROPOSED FLOODPLAIN SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO RESOLVE WITH THE UTILITY. EXISTING POLE LINES REQUIRED TO BE RELOCATED TO WITHIN ONE FOOT OF PROPOSED RIGHT-OF-WAY LINE.

DAMAGE TO THE EXISTING RIGHT-OF-WAY SHALL BE RESTORED/REPAIRED TO THE SATISFACTION OF THE CITY AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR IS ENCOURAGED TO INSPECT THE RIGHT-OF-WAY WITH THE CITY PRIOR TO THE START OF CONSTRUCTION TO DOCUMENT THE EXISTING CONDITION OF THE RIGHT-OF-WAY.

FLOOD STATEMENT
THIS SITE DOES NOT LIE WITHIN A FLOODWAY OR FLOOD PLAIN PER FIRM 18057C0205F DATED FEB. 19, 2003

VEGETATIVE COVER
EXISTING SITE CONSIST MOSTLY OF GRASS AND WEEDS WITH WOODS ON THE SITE.

ADJACENT PROPERTIES
NORTH: AGRICULTURE
EAST: AGRICULTURE
SOUTH: RESIDENTIAL
WEST: AGRICULTURE

BENCHMARK INFO

VERTICAL DATUM IS BASED ON NORTH AMERICAN VERTICAL DATUM, NAVD 88.
HORIZONTAL DATUM IS BASED ON INDIANA STATE PLANE COORDINATES, NAD83.
HORIZONTAL CONTROL/CORRDINATE:

BM DNR
DNR HAM 40 1989 NAVD 88
ELEV.=906.076

TBM #3
R.R. SPIKE SET 1' UP ON THE NORTH SIDE OF POWER POLE 074697. SAID POLE IS THE 4TH POLE EAST OF THE INTERSECTION OF 146TH & SHELBORNE ON THE SOUTHSIDE OF 146TH STREET. 1ST POLE WEST OF BUCKEYE GAS CROSSING.
ELEV.=914.51

Minimum Flood Protection Grade:
From Sections 104.02, 302.06 and 303.07 of the City of Carmel Storm Water Technical Standards Manual

1. Definitions

a. Flood or open ditch shall be no less than 2 feet above any adjacent 100-year local or regional flood elevation, whichever is greater, for all windows, doors, pipe entrances, window wells, and any other structure member where floodwaters can enter a building.

b. Lowest Adjacent Grade is the elevation of the lowest grade adjacent to a structure, where the soil meets the foundation around the outside of the structure (including structural members such as basement wallout, patio, deck, porch, support post or pier, and rim of the window well).

2. Standard: Lowest Adjacent Grade

a. General
The Lowest Adjacent Grade for residential, commercial, or industrial buildings shall have two feet of freeboard above the flooding source's 100-year flood elevation under proposed conditions.

b. For areas outside a Special Flood Hazards Area (SFHA) or FEMA or IDNR designated floodplain
i. The Lowest Adjacent Grade for all residential, commercial, or industrial buildings adjacent to ponds shall be set a minimum of 2 feet above the 100-year pond elevation or 2 feet above the emergency overflow weir elevation, whichever is higher.
ii. The Lowest Adjacent Grade for all residential, commercial, or industrial buildings shall be set a minimum of 2 feet above the highest noted overflow path/ponding elevation across the property frontage.
iii. In addition to the Lowest Adjacent Grade requirements, any basement floor must be at least a foot above the normal water level of any wet-bottom pond.

3. Design Notes:

a. Each lot that is adjacent to a pond, open ditch or flooding source has a flood protection grade. There are instances where there are multiple different flooding sources for 1 structure. In this case, there should be a flood protection grade listed for each side of the structure in the event that piping from the structure discharge to either flood source.
b. Finished floor elevation or the lowest building entry elevation shall be no less than 6 inches above finished grade around the building. Also, the building's lowest entry elevation that is adjacent to and facing a road shall be a minimum of 15 inches above the road elevation.

DRAINAGE SUMMARY
(ALBANY PLACE & TALLYS RIDGE)
OVERALL SITE ACREAGE=53.35 AC.±
ALLOWABLE RATE CALCULATION:
0.1 cfs/acre = 10-yr 0.30 cfs/acre = 100-yr

ALLOWABLE (Based off 53.35 Ac.±)	10 YR.	100 YR.
POST DEVELOPED	3.132cfs	6.498cfs
DIRECT DISCHARGE	1.736cfs	3.371cfs
TOTAL	4.868cfs	9.869cfs

TALLYS RIDGE SITE SPECIFIC RELEASE RATES

ALLOWABLE 10 YR. - 1.85cfs	ALLOWABLE 100 YR. - 5.55cfs
PROPOSED 10 YR. - 1.438cfs	PROPOSED 100 YR. - 3.663cfs

VOLUME DETENTION REQUIRED

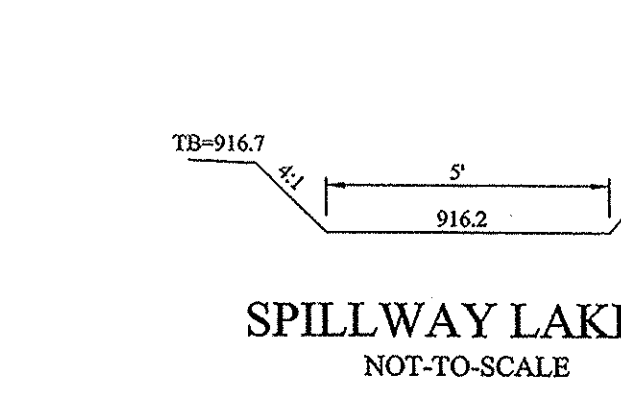
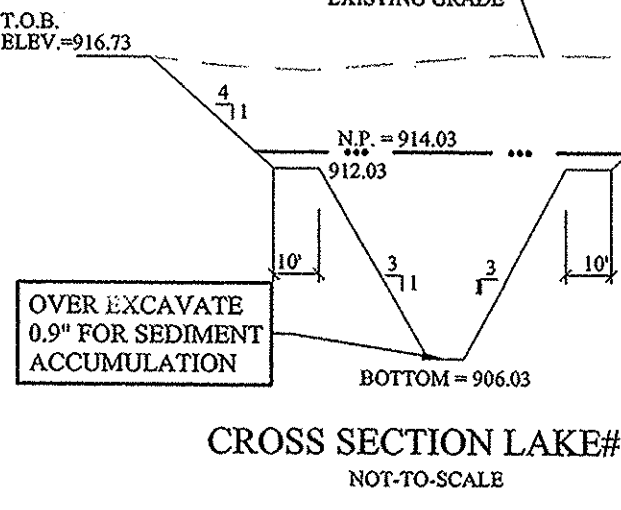
LAKE #1 =	95,895 ft³
LAKE #2 =	79,527 ft³

VOLUME DETENTION PROVIDED

LAKE #1 =	177,384 ft³
LAKE #2 =	205,672 ft³

LAKE #1 OFFSITE DRAINAGE:
THERE IS NO OFFSITE TO LAKE #1

LAKE #2 OFFSITE DRAINAGE:
THERE IS NO OFFSITE TO LAKE #2



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)

REAR R.P.
MFPG=XXX.X DENOTES REAR PROTECTION GRADES
XX XXX.X LOT NUMBER PAD ELEVATION
MFPG=XXX.X DENOTES FRONT PROTECTION GRADES

FRONT R.W.

PROPOSED 6" DUAL WALL HANCOR HI-Q TYPE 4 UNDERDRAINS UNDER CURB.

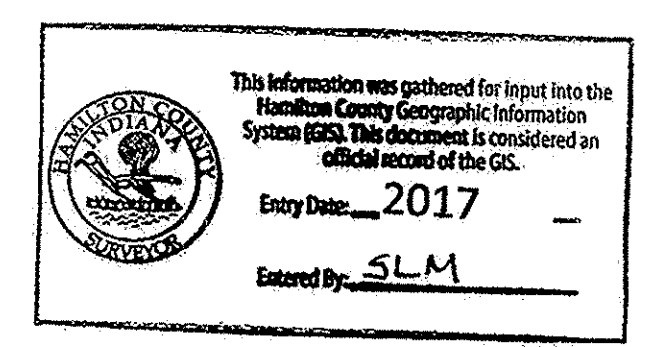
MIN. FINISH FLOOR ELEV. IS BASED OFF OF THE BELOW CRITERIA, WHICHEVER IS HIGHER:

- (1) FOOT ABOVE THE NEAREST UPSTREAM OR DOWNSTREAM SANITARY MANHOLE WHICH EVER IS LOWEST.
- 15" (1.25') ABOVE THE ROAD ELEVATION
- 6" (0.5') ABOVE THE M.L.A.G

MFPG=XXX.X MINIMUM FLOOD PROTECTION GRADE
MLAG=XXX.X MINIMUM LOWEST ADJACENT GRADE

4" SSD TO LOT
RISER TC
DUAL WALL, HANCOR HI-Q TYPE 4 SSD (SIZE NOTED ON PLANS)
CONSTRUCTION LIMITS

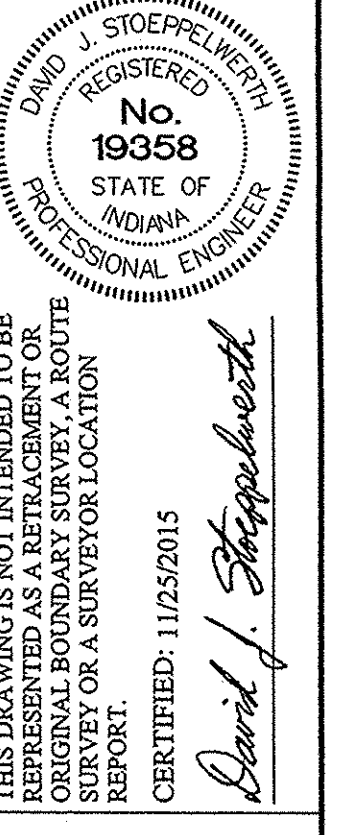
- EARTHWORK:**
- EXCAVATION**
 - Excavated material that is suitable may be used for fills. All unsuitable material and all surplus excavated material not required shall be removed from the site.
 - Provide and place any additional fill material from offsite as may be necessary to produce the grades 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.
 - REMOVAL OF TREES**
 - 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.
 - PROTECTION OF TREES**
 - 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.
 - 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.
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 - 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 geotechnical 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.
 - UTILITIES**
 - Rules and regulation governing the respective utility shall be observed in executing all work under this section.
 - 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.



RECORD DRAWING

Dennis D. Olmstead
Registered Land Surveyor
No. 900012
9/27/2016

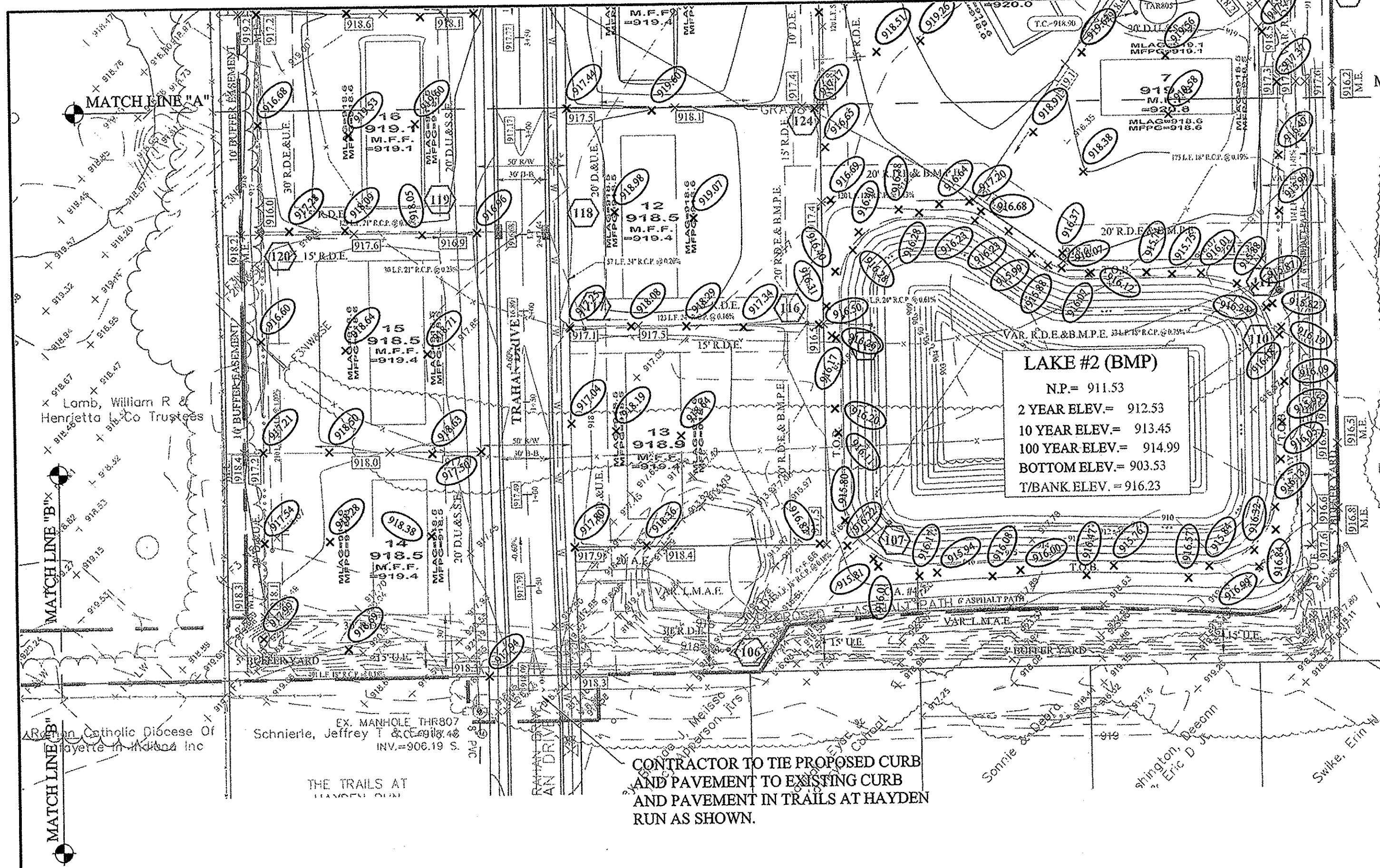
DENNIS D. OLMSTEAD
REGISTERED
No. 900012
STATE OF INDIANA
LAND SURVEYOR



STOEPPELWERTH
REGISTERED PROFESSIONAL ENGINEER
No. 19358
STATE OF INDIANA
CERTIFIED: 11/25/2015
David J. Stoepelwerth

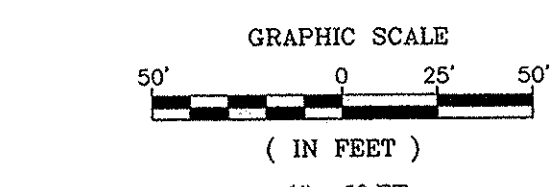
SITE DEVELOPMENT PLAN
TALLYS RIDGE
HAMILTON COUNTY, INDIANA
CLAY TOWNSHIP

DRAWN BY: JSM/ADG
CHECKED BY: BAH
SHEET NO. C200
S.A. JOB NO. 67302PLA



LAKE #2 (BMP)
N.P. = 911.53
2 YEAR ELEV. = 912.53
10 YEAR ELEV. = 913.45
100 YEAR ELEV. = 914.99
BOTTOM ELEV. = 903.53
T/BANK ELEV. = 916.23

CONTRACTOR TO TIE PROPOSED CURB AND PAVEMENT TO EXISTING CURB AND PAVEMENT IN TRAILS AT HAYDEN RUN AS SHOWN.



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)

MFPG=XXX.X
XX
XXX.X
MFPG=XXX.X
FRONT R/W

DENOTES REAR PROTECTION GRADES

LOT NUMBER
PAD ELEVATION

DENOTES FRONT PROTECTION GRADES

PROPOSED 6" DUAL WALL HANCOR HI-Q TYPE 4 UNDERDRAINS UNDER CURB.

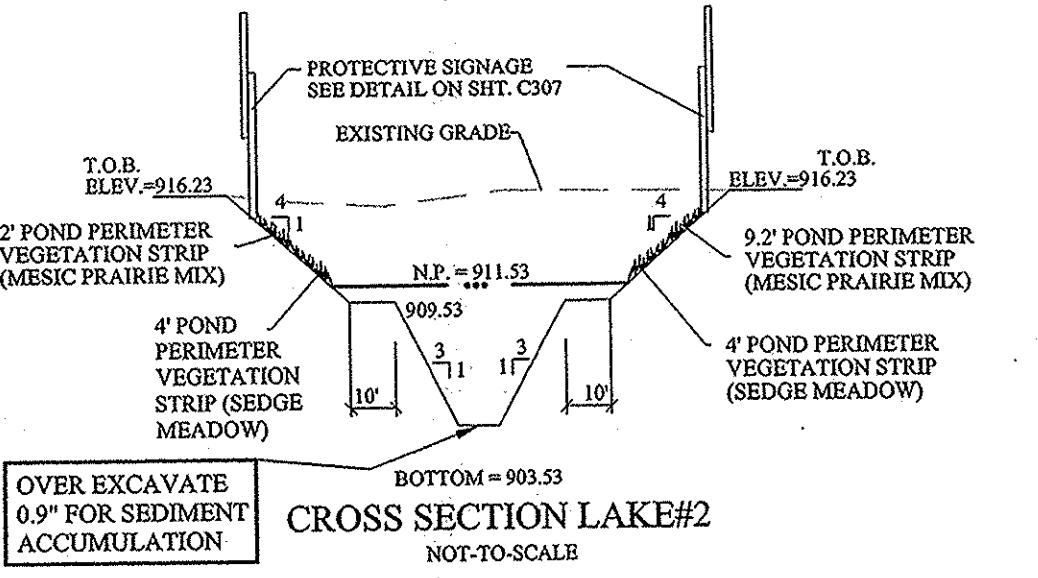
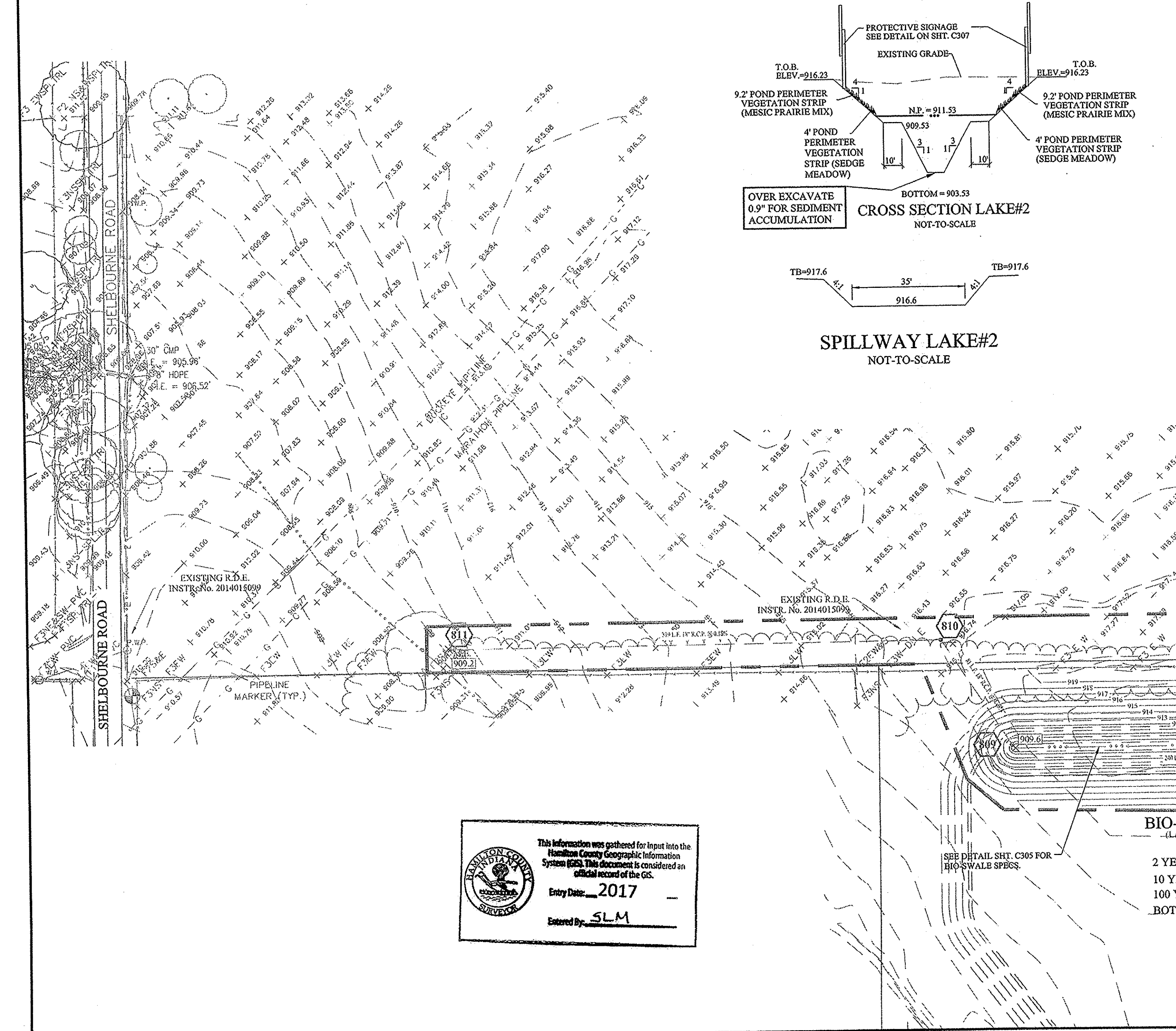
MIN. FINISH FLOOR ELEV. IS BASED OFF OF THE BELOW CRITERIA, WHICHEVER IS HIGHER:

1. (1) FOOT ABOVE THE NEAREST UPSTREAM OR DOWNSTREAM SANITARY MANHOLE WHICH EVER IS LOWEST.
2. 15" (1.25') ABOVE THE ROAD ELEVATION
3. 6" (0.5') ABOVE THE M.L.A.G

MFPG=XXX.X MINIMUM FLOOD PROTECTION GRADE
MLAG=XXX.X MINIMUM LOWEST ADJACENT GRADE

4" SSD TO LOT
RISER TC
DUAL WALL, HANCOR HI-Q TYPE 4 SSD (SIZE NOTED ON PLANS)

CONSTRUCTION LIMITS



SPILLWAY LAKE #2
NOT-TO-SCALE

BIO-SWALE (BMP)
(LAKE-BY OTHERS)
N.P. = 909.60
2 YEAR ELEV. = 911.19
10 YEAR ELEV. = 911.63
100 YEAR ELEV. = 912.61
BOTTOM ELEV. = 901.60

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: 2017
Entered By: SLM

Minimum Flood Protection Grades
From Sections 104.02, 302.06 and 303.07 of the City of Carmel Storm Water Technical Standards Manual

1. Definitions
 - a. Minimum Flood Protection Grade of all structures fronting a pond or open ditch shall be no less than 2 feet above any adjacent 100-year local or regional flood elevations.
 - b. whichever is greater, for all windows, doors, pipe entrances, window wells, and any other structure member where floodwaters can enter a building.
 - c. Lowest Adjacent Grade is the elevation of the lowest grade adjacent to a structure, where the soil meets the foundation around the outside of the structure (including structural members such as basements, walkouts, patios, decks, porches, support posts or piers, and rim of the window well).
2. Standards: Lowest Adjacent Grade
 - a. General
 - i. The Lowest Adjacent Grade for residential, commercial, or industrial buildings shall have two feet of floodboard above the flooding source's 100-year flood elevation under proposed conditions.
 - ii. For areas outside a Special Flood Hazard Area (SFHA) or FEMA or IDNR designated floodplain
 - i. The Lowest Adjacent Grade for all residential, commercial, or industrial buildings adjacent to ponds shall be set a minimum of 2 feet above the 100-year pond elevation or 2 feet above the emergency overflow weir elevation, whichever is higher.
 - ii. The Lowest Adjacent Grade for all residential, commercial, or industrial buildings shall be set a minimum of 2 feet above the highest noted overflow path/ponding elevation across the property frontage.
 - iii. In addition to the Lowest Adjacent Grade requirements, any basement floor must be at least a foot above the normal water level of any wet-bottom pond.
 - b. Design Notes:
 - i. Each lot that is adjacent to a pond, open ditch or flooding source has a flood protection grade. There are instances where there are multiple different flooding sources for 1 structure. In this case, there should be a flood protection grade listed for each side of the structure in the event that piping from the structure discharges to other flood source.
 - ii. Finished floor elevation or the lowest building entry elevation shall be no less than 6 inches above finished grade around the building. Also, the building's lowest entry elevation that is adjacent to and facing a road shall be a minimum of 15 inches above the road elevation.

DRAINAGE SUMMARY
(ALBANY PLACE & TALLYS RIDGE
OVERALL SITE AREA=53.35 AC±
ALLOWABLE RATE CALCULATION:
0.1 cfs/acre = 10-yr 0.30 cfs/acre = 100-yr

ALLOWABLE (Based off 53.35 Ac.±)	10 YR.	100 YR.
	5.335cfs	16.005cfs
POST DEVELOPED	3.132cfs	6.498cfs
DIRECT DISCHARGE	1.736cfs	3.371cfs
TOTAL	4.868CFS	9.869CFS

TALLYS RIDGE SITE SPECIFIC RELEASE RATES

ALLOWABLE 10 YR.	- 1.85cfs
ALLOWABLE 100 YR.	- 5.55cfs
PROPOSED 10 YR.	- 1.438cfs
PROPOSED 100 YR.	- 3.663cfs

VOLUME DETENTION REQUIRED
LAKE #1 = 95,895 ft³
LAKE #2 = 79,527 ft³

VOLUME DETENTION PROVIDED
LAKE #1 = 177,384 ft³
LAKE #2 = 205,672 ft³

LAKE #1 OFFSITE DRAINAGE:
THERE IS NO OFFSITE TO LAKE #1

LAKE #2 OFFSITE DRAINAGE:
THERE IS NO OFFSITE TO LAKE #2

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 geotechnical 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.

CONTACT:
CARMEL UTILITIES (317) 571-2648 FOR WATER LOCATES

FOR SANITARY SEWER LOCATES
CONTACT: CLAY TOWNSHIP REGIONAL WASTE DISTRICT (317) 844-9200

STORM SEWER FOR THIS PROJECT WILL BE PUBLIC.

ALL STORM SEWERS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE RCP CLASS III.

NOTE:
FOR STORM AND PIPE CHARTS SEE SHEET C202

NOTES TO CONTRACTOR:

ALL PADS SHOULD BE TESTED TO ASSURE A COMPACTION OF AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY USING THE STANDARD PROCTOR TEST METHOD.

ANY PRIVATE TILES LOCATED ON THIS SITE WILL NEED TO BE LOCATED; BREATHERS SET AT THE DOWNSTREAM PROPERTY LINE AND CRUSHED OR REMOVED ACROSS THIS SITE. IF ANY OF THESE TILES EXTEND BEYOND THE LIMITS OF THIS PROJECT, THEY WILL NEED TO BE PROVIDED A POSITIVE OUTLET AND ALLOWED TO CONTINUE TO FUNCTION, AS IT IS ILLEGAL TO BLOCK OFF A PRIVATE "MUTUAL" TILE.

CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ONSITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE IS NOT ANY CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

ALL PAVING WITHIN THE EXISTING AND PROPOSED RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF ENGINEERING. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT'S CONSTRUCTION REQUIREMENTS. STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF WORK TO REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO WORK WITHIN THE EXISTING AND PROPOSED CITY R/W.

EXISTING PAVEMENT TO BE SAW CUT TO A CLEAN EDGE ADJACENT TO ANY WIDENING, AUXILIARY LANES, ETC.

NO EARTH DISTURBING ACTIVITY MAY TAKE PLACE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.

THERE IS TO BE NO DRIVEWAY ENCROACHMENTS INTO EASEMENTS BETWEEN LOTS.

UTILITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. UTILITY LINE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH PROPOSED DEVELOPMENT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO RESOLVE WITH THE UTILITY. EXISTING POLE LINES REQUIRED TO BE RELOCATED TO WITHIN ONE FOOT OF PROPOSED RIGHT-OF-WAY LINE.

DAMAGE TO THE EXISTING RIGHT-OF-WAY SHALL BE RESTORED/REPAIRED TO THE SATISFACTION OF THE CITY AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR IS ENCOURAGED TO INSPECT THE RIGHT-OF-WAY WITH THE CITY PRIOR TO THE START OF CONSTRUCTION TO DOCUMENT THE EXISTING CONDITION OF THE RIGHT-OF-WAY.

FLOOD STATEMENT
THIS SITE DOES NOT LIE WITHIN A FLOODWAY OR FLOOD PLAIN PER FIRM 18057C0205F DATED FEB. 19, 2003

VEGETATIVE COVER
EXISTING SITE CONSIST MOSTLY OF GRASS AND WEEDS WITH WOODS ON THE SITE.

ADJACENT PROPERTIES
NORTH: AGRICULTURE
EAST: AGRICULTURE
SOUTH: RESIDENTIAL
WEST: AGRICULTURE

BENCHMARK INFO

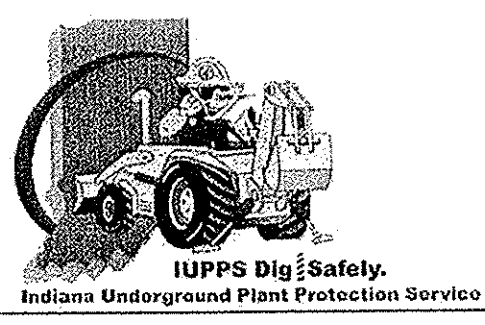
VERTICAL DATUM IS BASED ON NORTH AMERICAN VERTICAL DATUM, NAVD 88.
HORIZONTAL DATUM IS BASED ON INDIANA STATE PLANE COORDINATES, NAD83.
HORIZONTAL CONTROL/CORRRDINATE:

BM DNR
DNR HAM 40 1989 NAVD 88
ELEV.=906.076

TBM #3
R.R. SPIKE SET 1' UP ON THE NORTH SIDE OF POWER POLE 074697. SAID POLE IS THE 4TH POLE EAST OF THE INTERSECTION OF 146TH & SHELBORNE ON THE SOUTHSIDE OF 146TH STREET. 1ST POLE WEST OF BUCKEYE GAS CROSSING.
ELEV.=914.51

RECORD DRAWING

Dennis D. Olmstead
Registered Land Surveyor
No. 900012



811
Know what's below.
Call before you dig.

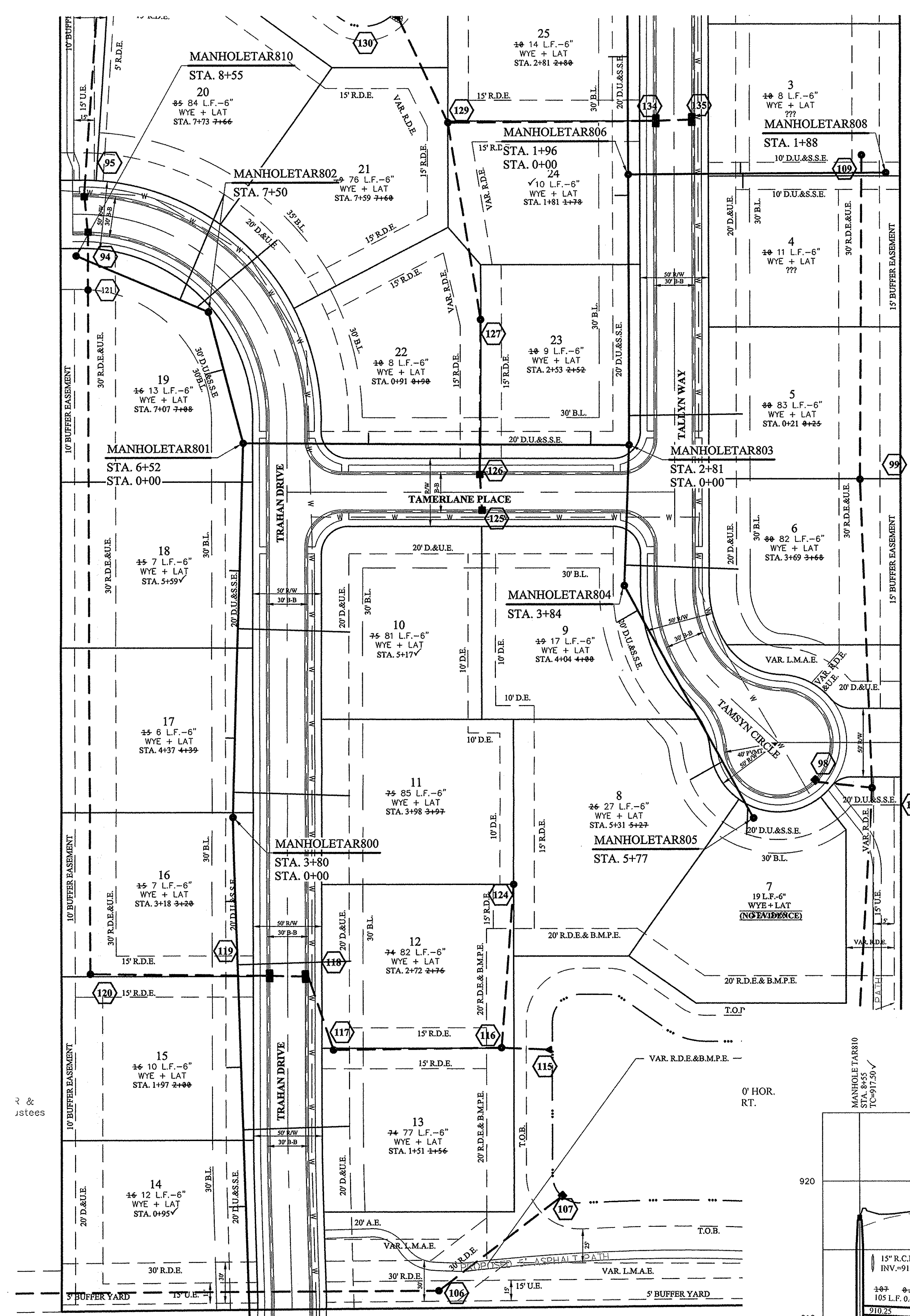
STOEPPELWERTH
ALWAYS ON
7165 East 116th Street, Fishers, IN 46038-2905
Phone: 317.849.5395 Fax: 317.849.5394

SITE DEVELOPMENT PLAN
TALLYS RIDGE

DRAWN BY: JSM/ADG
CHECKED BY: BAH

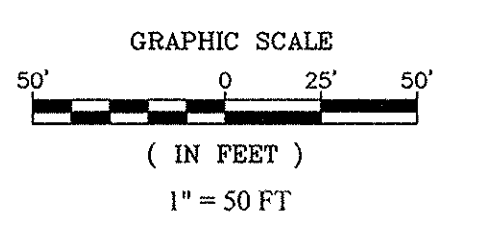
SHEET NO. **C201**
S & A JOB NO. 67302PLA

HAMILTON COUNTY, INDIANA
CLAY TOWNSHIP



RECORD DRAWING

Dennis D. Olmstead
Registered Land Surveyor
No. 900012



CONSTRUCTION LIMITS

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

SANITARY SEWERS SHALL BE BACKFILLED WITH NO. 8 LIMESTONE ONLY IN 1 FOOT LAYERS AND MECHANICALLY TAMPED. REMAINDER OF TRENCH SHALL BE FILLED IN 6" LAYERS AND SOLIDLY TAMPED TO SUBGRADE OF BASE OF PAVEMENT.

NO EARTH DISTURBING ACTIVITIES MAY TAKE PLACE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.

MIN. SLOPES PER THE TEN STATE STANDARDS SHALL PREVAIL IN ALL CASES.

THE EXTERIORS OF ALL MANHOLES NEED TO BE COATED PER CLAY TOWNSHIP REGIONAL WASTE STANDARDS.

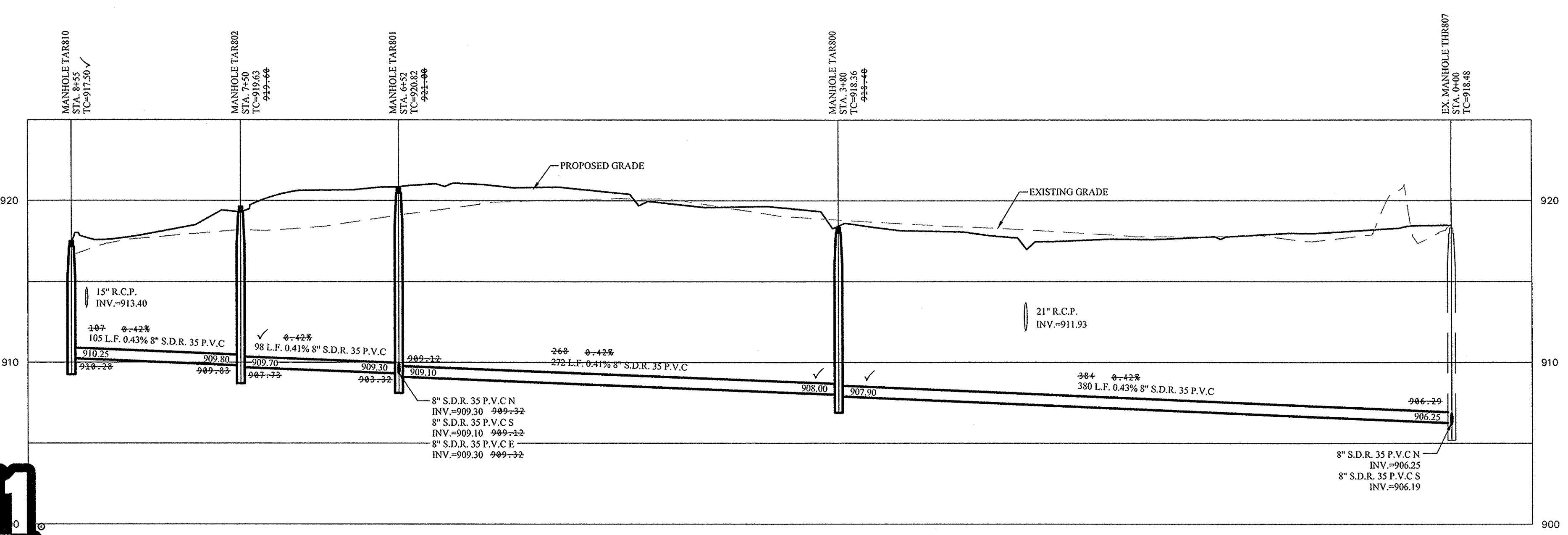
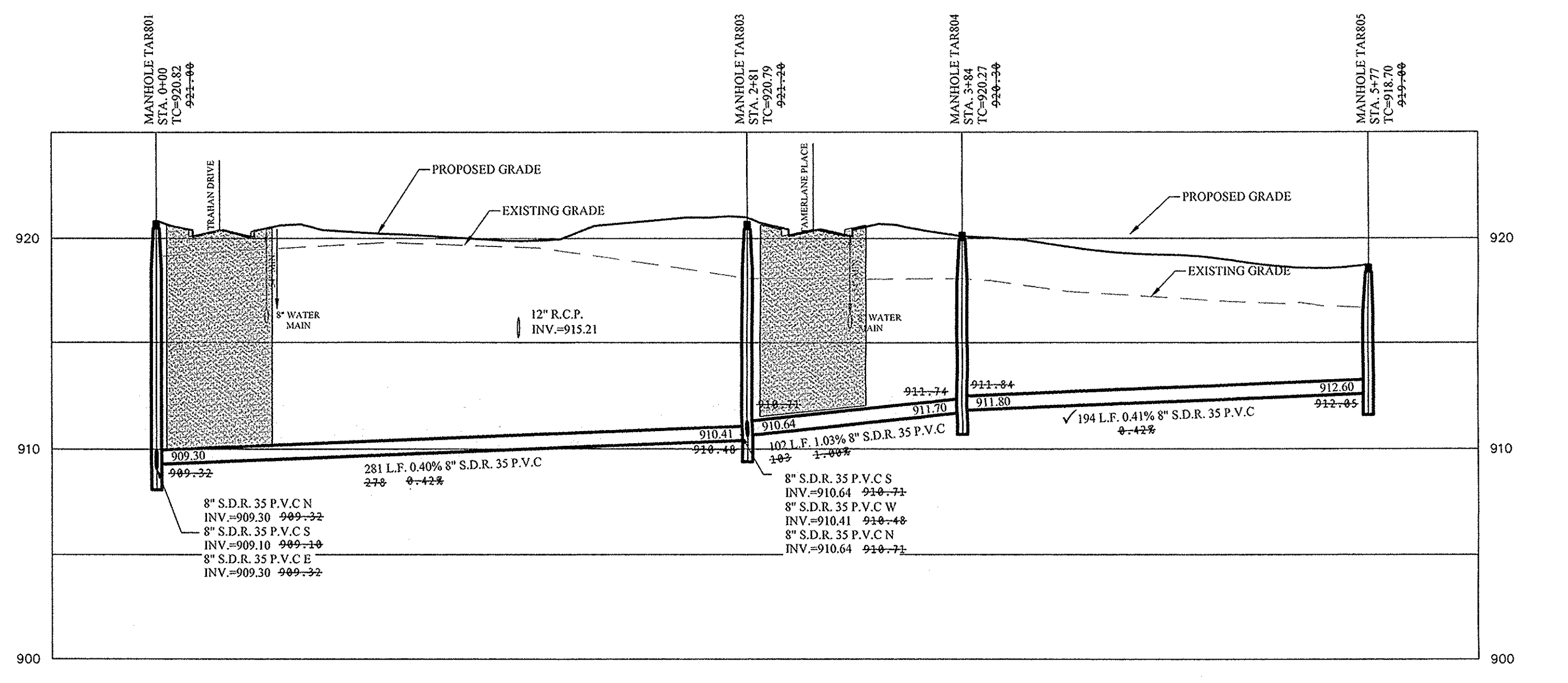
THERE ARE TO BE NO WATER VALVES OR MANHOLES WITHIN THE PAVEMENT, CURB, OR SIDEWALK WITH THE EXCEPTION OF CURB INLETS.

INSTALL A TRACER WIRE WITH ALL MAINS AND SERVICE CONNECTIONS.

THE MINIMUM COVER FROM THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVEMENT SECTION THICKNESS (ALL BITUMINOUS AND AGGREGATE MATERIAL ABOVE THE SUBGRADE) PLUS 1'-0", BUT UNDER NO CIRCUMSTANCES SHALL THE COVER ALONG ANY PART OF THE PIPE FROM THE FINAL PAVEMENT ELEVATION TO THE TOP OF THE PIPE BE LESS THAN 2.5 FEET.

NOTE:
ALL FINAL STRUCTURE GRADES ARE TO BE WITHIN PLUS OR MINUS ONE TENTH (0.1) OF A FOOT OF DESIGN GRADE, AND ARE TO BE ESTABLISHED UTILIZING 1-4" RISER RING, NO MORE NO LESS, ON EACH STRUCTURE.

NOTE:
REFERENCE CITY OF CARMEL STANDARD DETAIL 10-29 ON SHEET C800 FOR TRENCHING SPECS AND DETAILS INSIDE THE RIGHT OF WAY..



EX. MANHOLE THR807 STA. 0+00
Schnierle, Jeffrey T & Company, Inc.
INV.=906.19

THE TRAILS AT HAYDEN RUN
INST.#200500069468
PLAT CABINET #3, SLIDE #748



IUPPS Dig Safely
Indiana Underground Plant Protection Service



Know what's below.
Call before you dig.

NO.	DATE	MARK	REVISIONS
ASBULLITS	09/06/16		
REVISED PER CLIENT COMMENTS	03/11/15		
REVISED PER CLIENT COMMENTS	12/21/15		
REVISED PLANS PER NEW DEVELOPER	11/25/15		
PLANS PREPARED APPROVED PER (OWNER) (OWNER) (OWNER)	08/21/15		

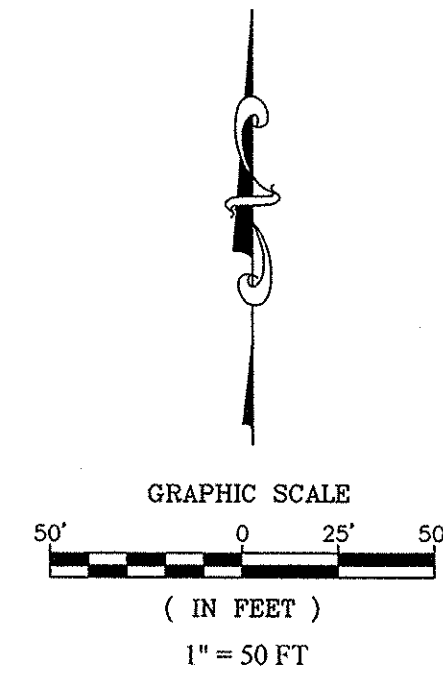
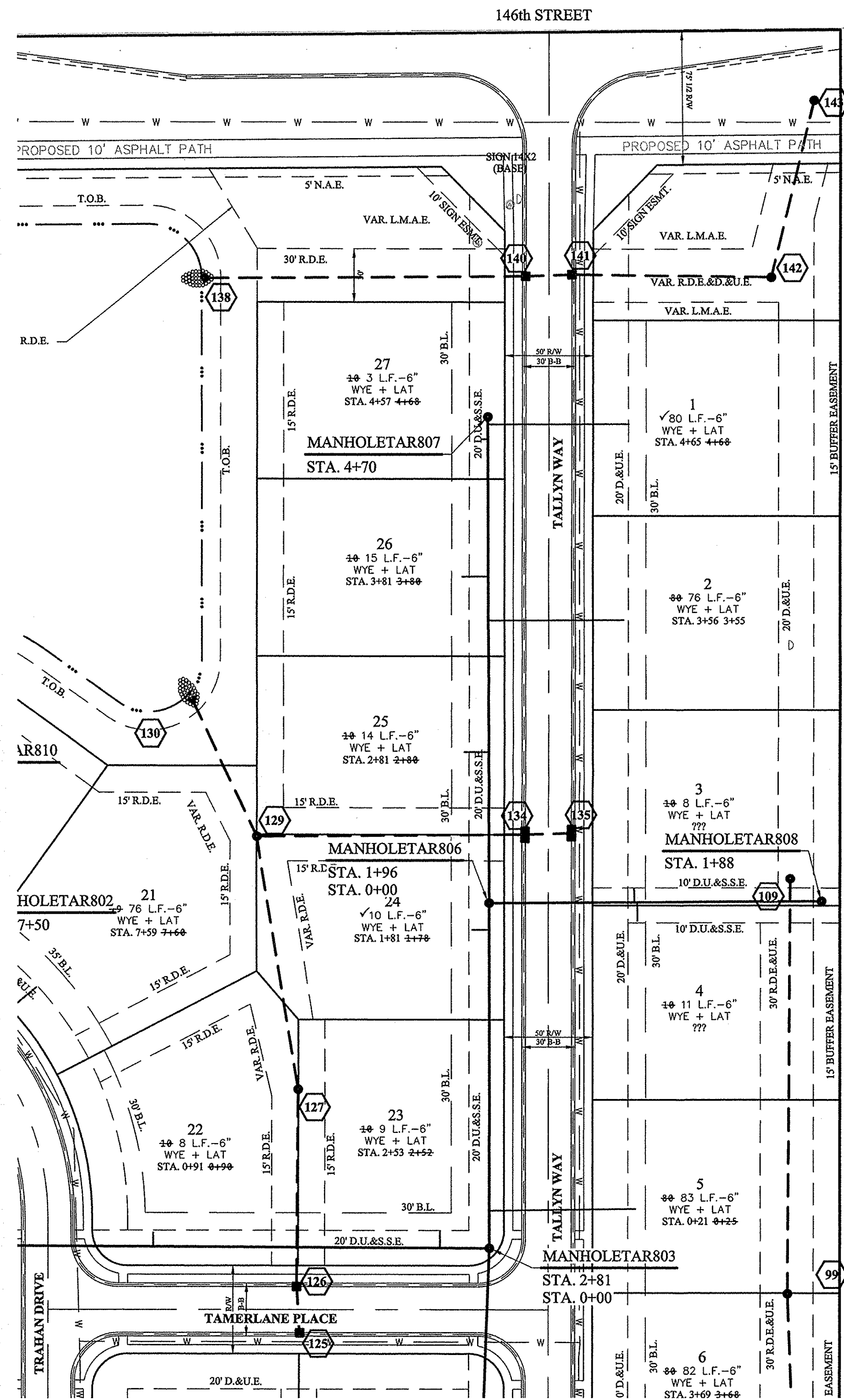
THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY. A SOUTH REPORT.

CERTIFIED: 11/25/2015
David J. Stappeler
REGISTERED PROFESSIONAL ENGINEER
No. 19358
STATE OF INDIANA

STOEPPELWERTH
ALWAYS ON
7915 East 106th Street, Fishers, IN 46038-2505
phone: 317.495.5925 fax: 317.495.5942

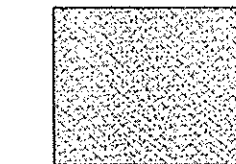
SANITARY PLAN & PROFILE
TALLYN'S RIDGE
HAMILTON COUNTY, INDIANA
CLAY TOWNSHIP

DRAWN BY: JSM/ADG CHECKED BY: BAH
SHEET NO. **C500**
S & A JOB NO. 67302PLA



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

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SANITARY SEWERS SHALL BE BACKFILLED WITH NO. 8 LIMESTONE ONLY IN 1 FOOT LAYERS AND MECHANICALLY TAMPED. REMAINDER OF TRENCH SHALL BE FILLED IN 6" LAYERS AND SOLIDLY TAMPED TO SUBGRADE OF BASE OF PAVEMENT.

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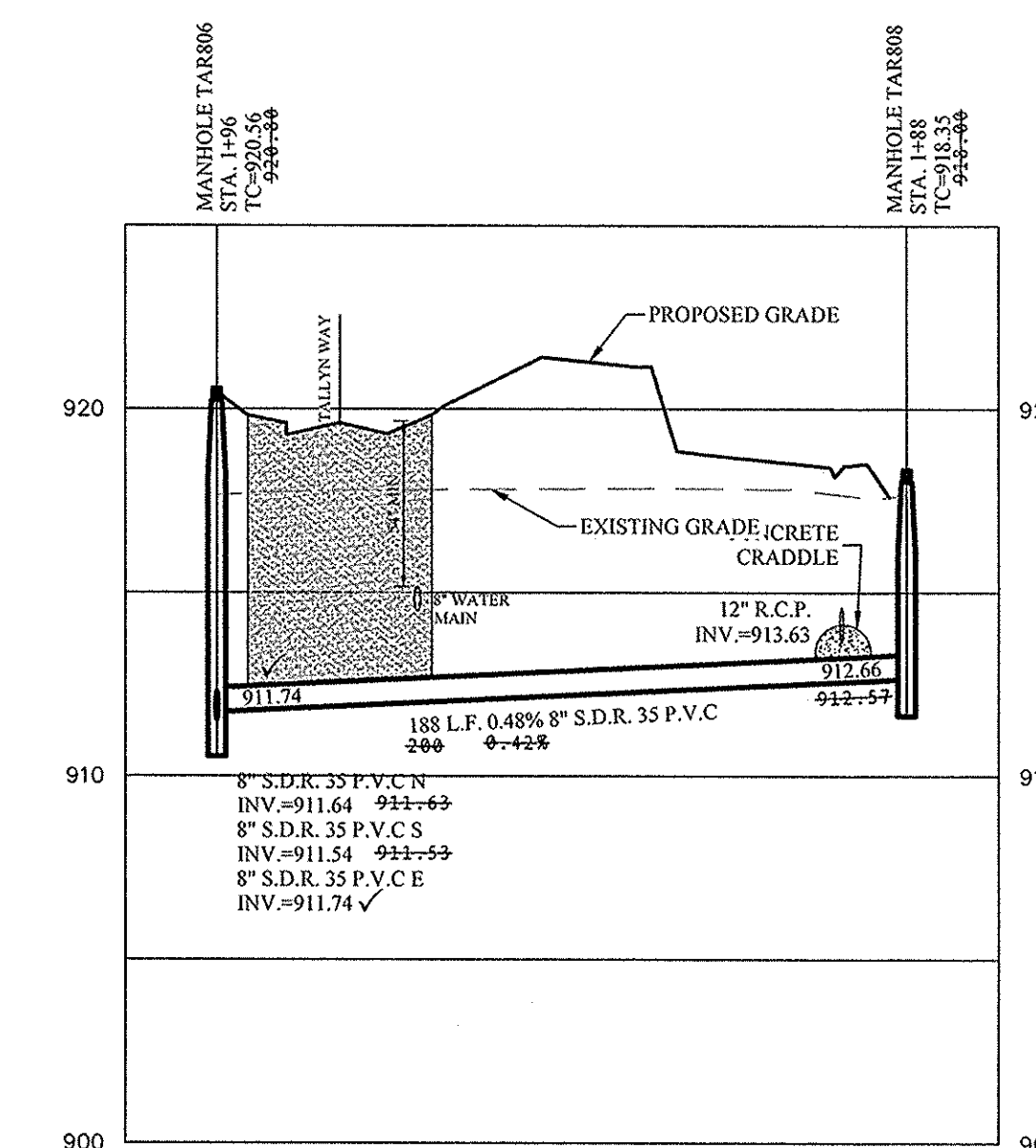
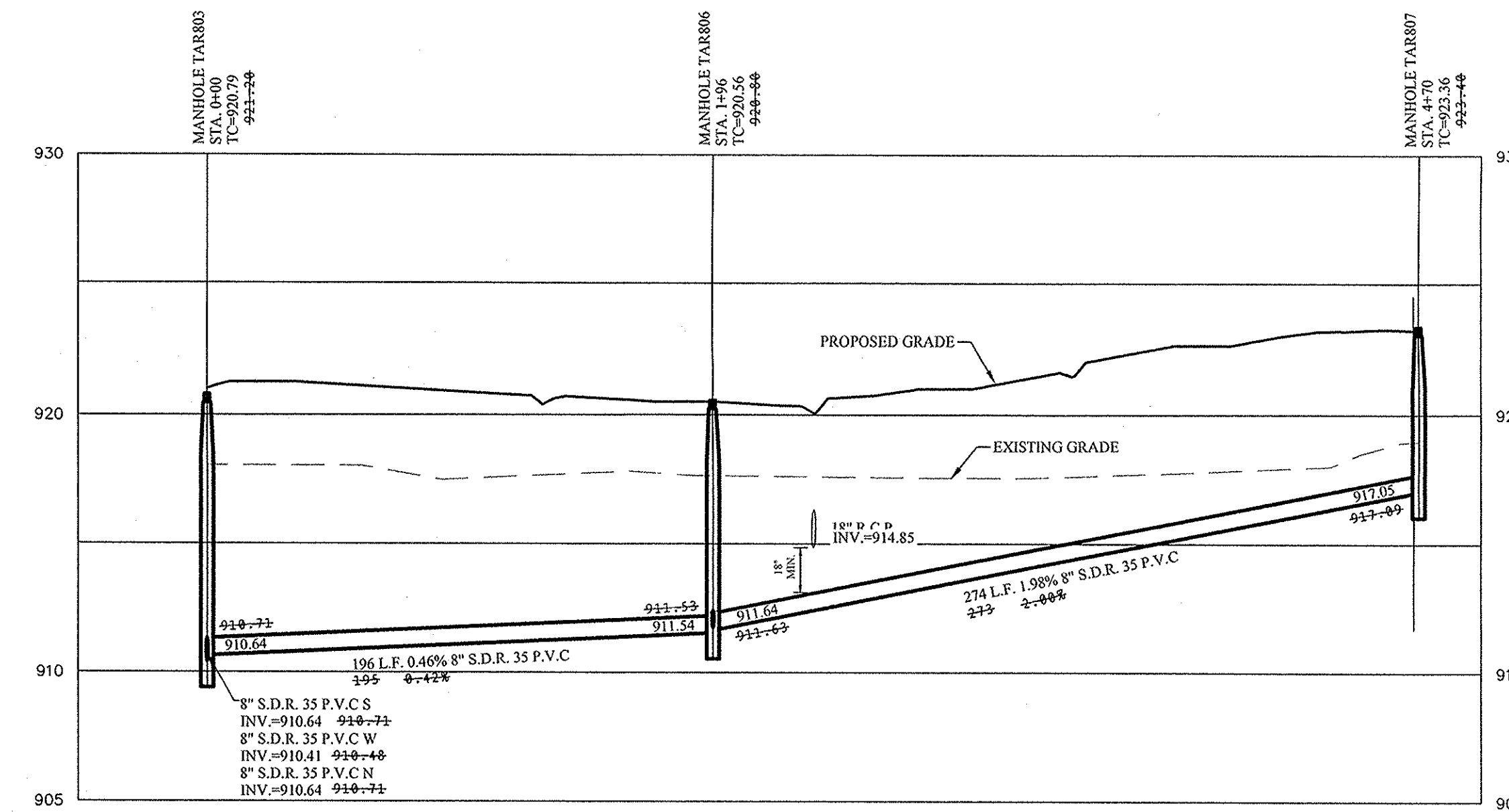
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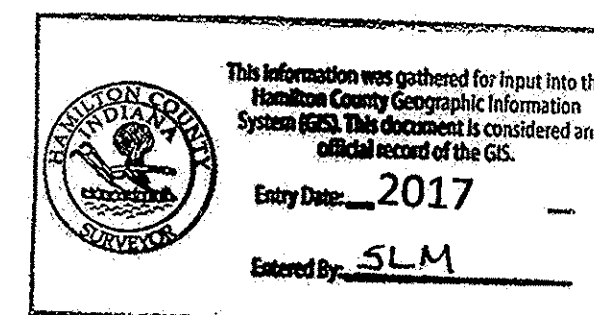
NOTE:
REFERENCE CITY OF CARMEL STANDARD DETAIL 10-29 ON SHEET C800 FOR TRENCHING SPECS AND DETAILS INSIDE THE RIGHT OF WAY..

--- CONSTRUCTION LIMITS



RECORD DRAWING

Dennis D. Olmstead
Dennis D. Olmstead
Registered Land Surveyor
No. 900012
9/26/2016



811
Know what's below.
Call before you dig.

THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY. A ROUTE SURVEY OR A SURVEYOR LOCATION REPORT.

CERTIFIED: 11/25/2015
David J. Stoepelwerth

STOEPPELWERTH
A L W A T S O N
795 East 10th Street, Fishers, IN 46038-2905
phone: 317.849.9593 fax: 317.849.9492

SANITARY PLAN & PROFILE
TALLYN'S RIDGE

HAMILTON COUNTY, INDIANA
CLAY TOWNSHIP

DATE	MARK	REVISIONS
08/17/15		PLANS PREPARED FOR LANDOWNER (8/15)
11/25/15		REVISED PLANS PER NEW DEVELOPER
02/17/16		REVISED PER CLIENT COMMENTS
02/17/16		REVISED PER CROSSCHECK COMMENTS

DRAWN BY: JSM/ADG
CHECKED BY: BAH

SHEET NO. **C501**
S.E.A. JOB NO. 67302PLA

Lomb, William R & Lenrietta L Co Trustees

Schneider, Mary J Trustee
Timothy J Murphy Trust

APPROVAL PENDING
NOT FOR CONSTRUCTION

STORM SEWER NOTE

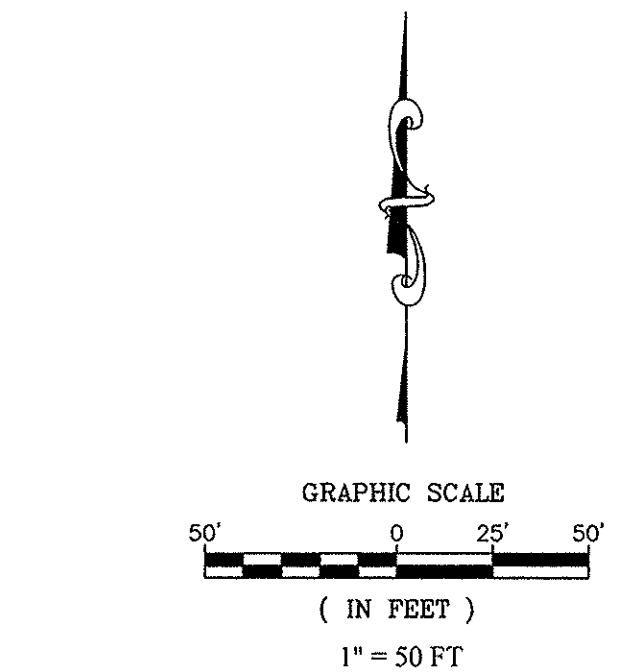
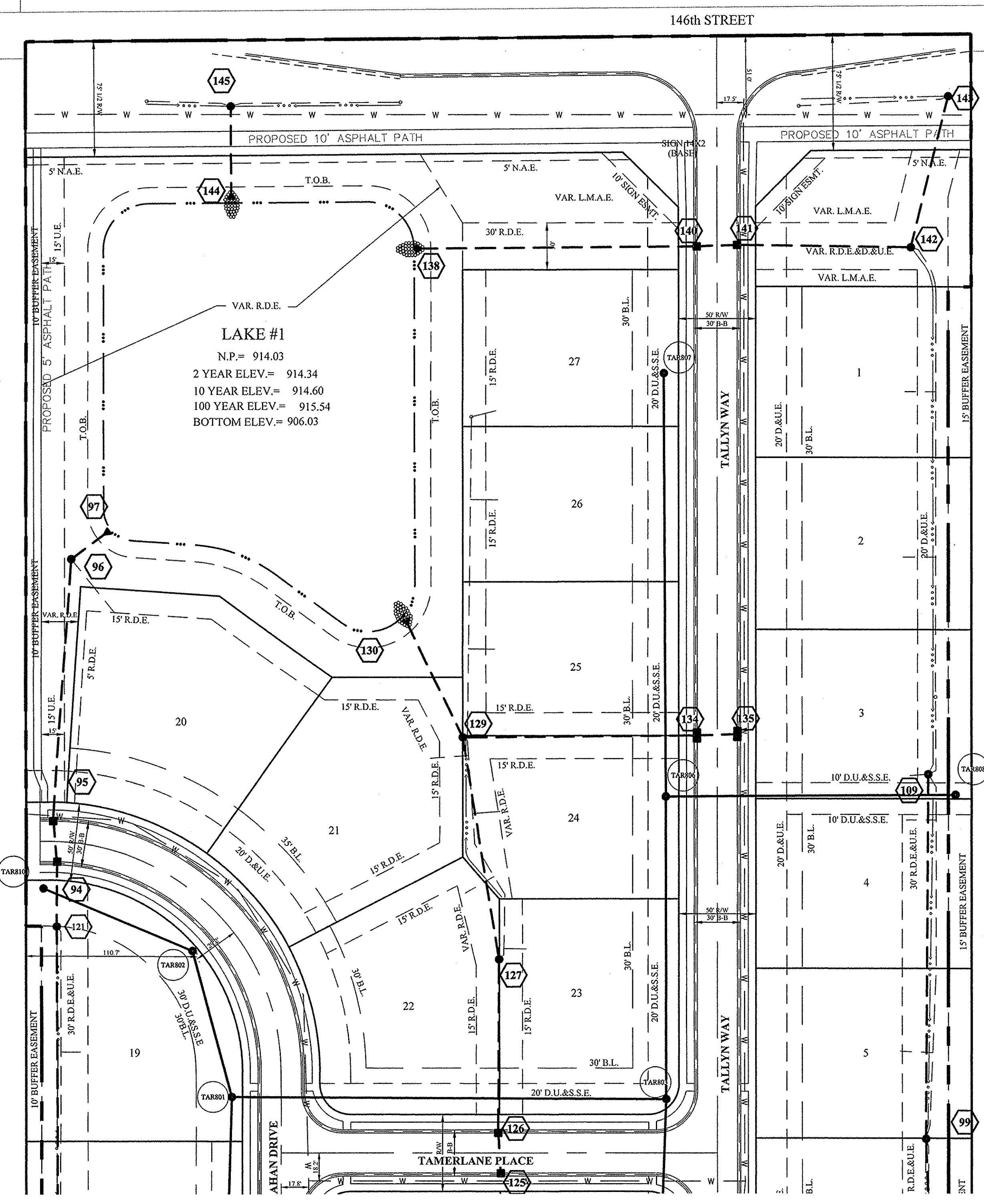
THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS. DEVIATIONS FROM THE APPROVED DESIGN SHALL ONLY BE PERMITTED DUE TO SPECIAL CIRCUMSTANCES OR DIFFICULTY DURING CONSTRUCTION AND WILL REQUIRE PRIOR FIELD APPROVAL FROM A DESIGNATED REPRESENTATIVE OF THE CITY OR CARMEL IN ADDITION TO SUPPLEMENTAL APPROVAL BY THE DESIGN ENGINEER. AN EXPLANATION OF ANY SUCH DEVIATION SHALL BE INCLUDED AS A REQUIREMENT ON AS-BUILT/RECORD DRAWINGS SUBMITTED FOR RELEASE OF PERFORMANCE GUARANTEES. APPROVED DESIGN SLOPES IDENTIFIED AS GENERATING VELOCITIES OF 2.5 FPS OR LESS AND 10 FPS OR GREATER (AT FULL FLOW CAPACITY) SHALL REQUIRE AS-BUILT CERTIFICATION AT THE TIME OF CONSTRUCTION, PRIOR TO BACKFILLING THE PIPE. THE CONTRACTOR IS INSTRUCTED TO AS-BUILT EACH SECTION OF STORM PIPE AS IT IS BEING INSTALLED TO ENSURE COMPLIANCE WITH THE DESIGN PLANS AND AS APPROVED BY THE CITY OF CARMEL.

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.
- ALL STORM SEWER CASTINGS SHALL BE LABELED "DUMP NO WASTE-DRAINS TO WATERWAY"
- ALL SSDS (SUBSURFACE DRAINS) WILL NEED TO BE DOUBLE WALL SMOOTH BORE PERFORATED (HDPE) PIPE.
- DEBRIS GUARDS ARE TO BE INSTALLED ON ALL OPEN ENDED INLETS.
- FOR STORM STRUCTURE SIZING AND CASTING TABLE SEE SHT. C203.
- ALL STORM SEWERS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE RCP CLASS III.
- FOR INSTALLATION OF STORM UNDER CITY STREETS AND COVER REQUIREMENTS, SEE SHEETS No. C802 ON THE TRENCH DETAIL.
- THERE SHOULD BE NO LESS THAN 2.5 FEET OF COVER ALONG ANY PART OF THE PIPE FROM FINAL PAVEMENT OR FINAL GROUND SURFACE ELEVATION TO THE TOP OF THE PIPE.

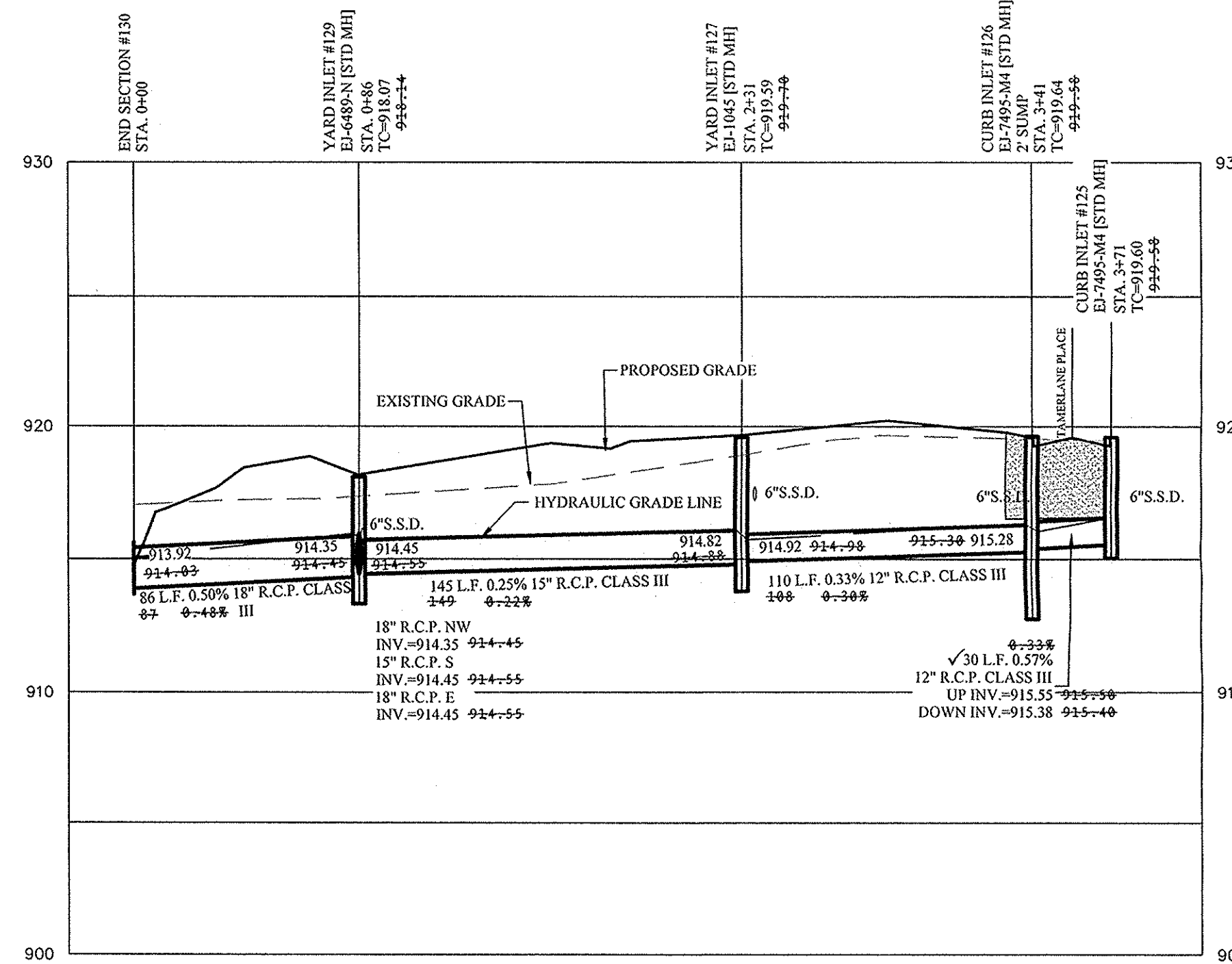
■ DENOTES FULL DEPTH GRANULAR BACKFILL (SEE RCP TRENCH DETAIL 10-28 ON SHEET C802 FOR MATERIAL AND SPECIFICATIONS.)

CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ONSITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE IS NOT ANY CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

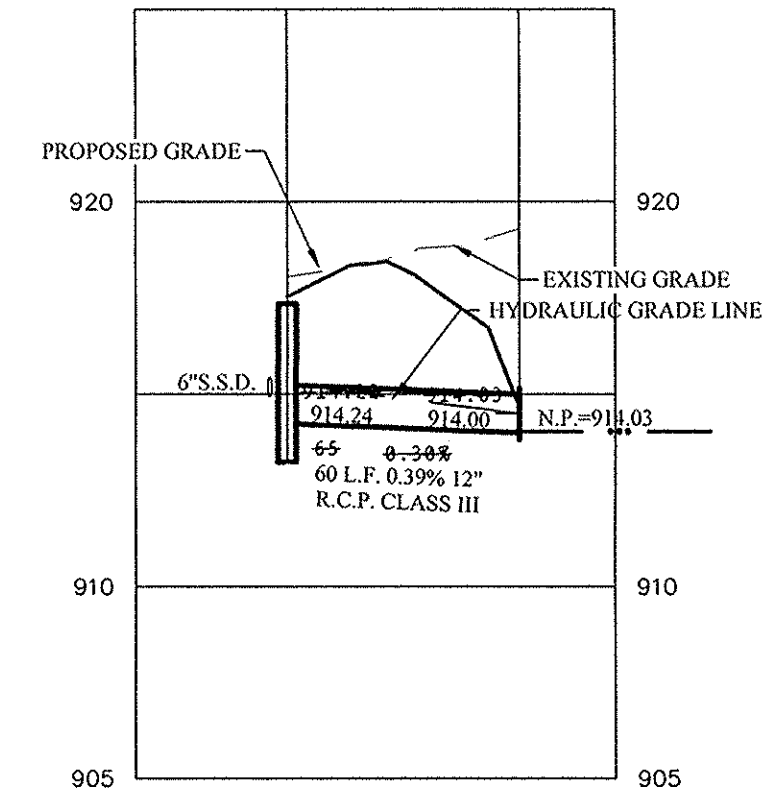


Loefgren, Robert E

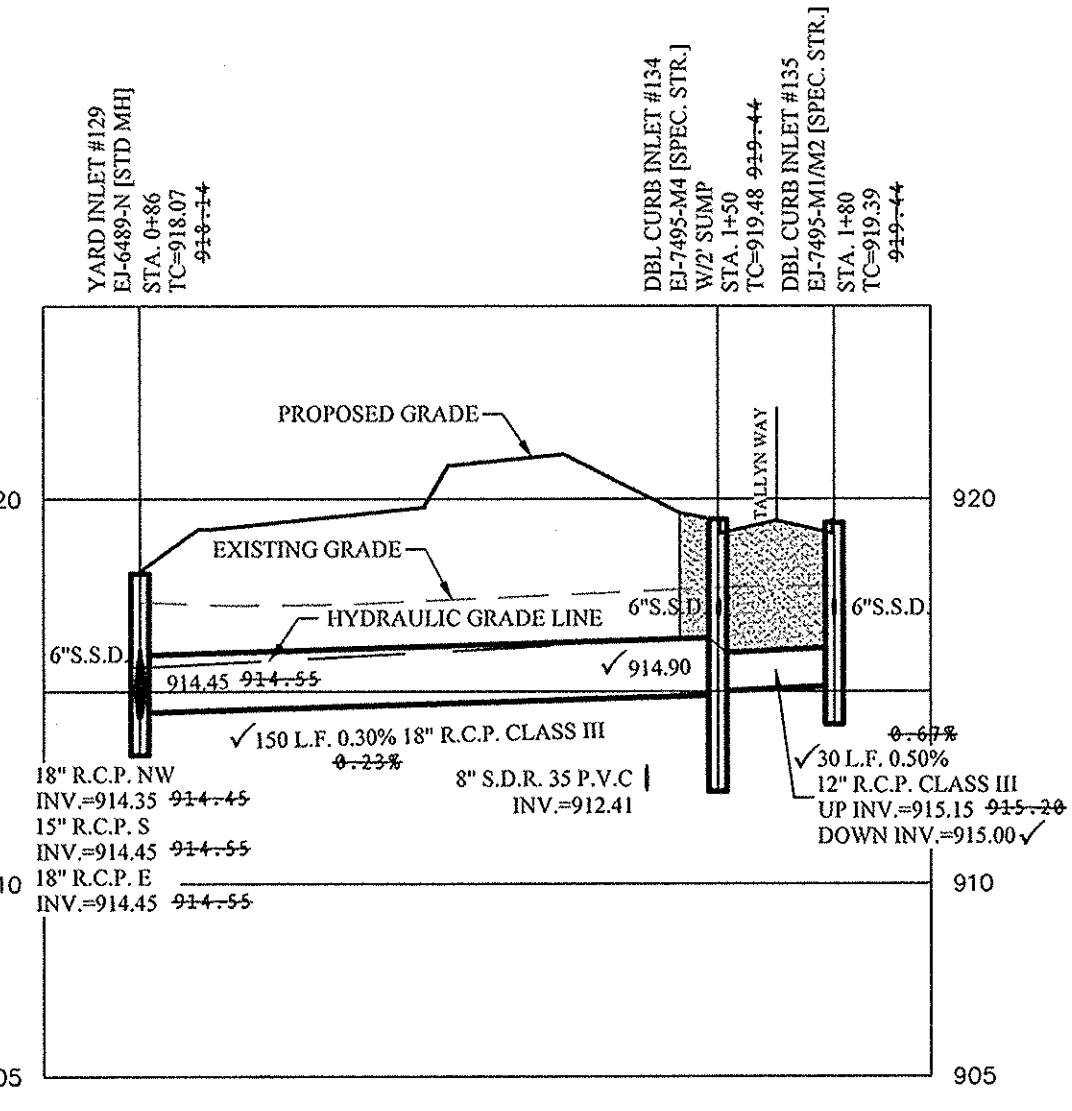
SCALE: 1"=50' HOR.
1"=5' VERT.



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: 2017
Entered By: SLM



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



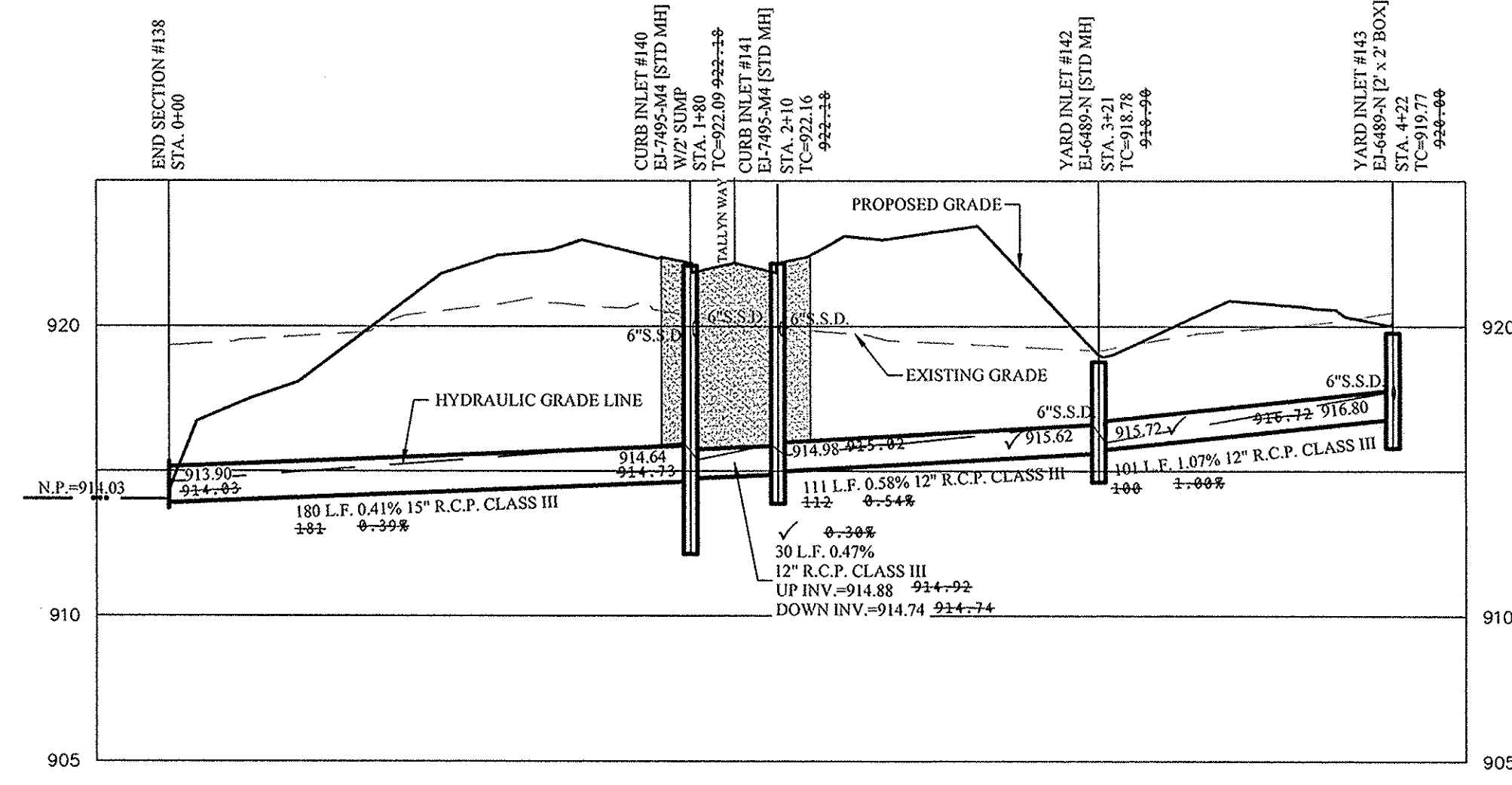
RECORD DRAWING

Dennis D. Olmstead
Registered Land Surveyor
No. 900012

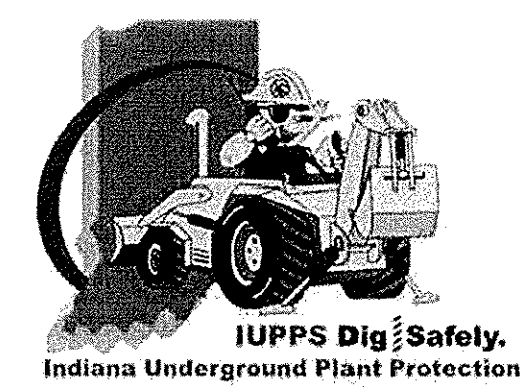
9/21/2016

REGISTERED
No. 900012
STATE OF INDIANA
LAND SURVEYOR

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



Know what's below.
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STORM PLAN & PROFILE
TALLYN'S RIDGE

HAMILTON COUNTY, INDIANA
CLAY TOWNSHIP

STOEPPELWERTH
ALWAYS ON
796 East 10th Street, Fishers, IN 46038-2505
phone: 317.849.5925 fax: 317.849.5942

DESIGNED BY: JSM/ADG
CHECKED BY: BAH

SHEET NO. C600
S&A JOB NO. 67302PLA

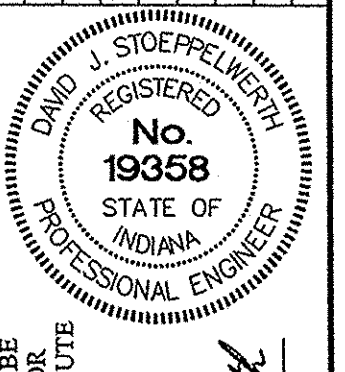
NO.	DATE	REVISIONS
02/21/16	02/21/16	AS-BUILTS
02/22/15	02/22/15	REVISED PER CLIENT COMMENTS
02/18/16	02/18/16	REVISED PER CROSSROADS COMMENTS
02/19/15	02/19/15	ADDED STORM PROFILE
02/25/15	02/25/15	REVISED PLANS PER NEW DEVELOPER
08/27/15	08/27/15	PLANS PREVIOUSLY APPROVED FOR (LONDON ROADS) (2115)

BY: [Signature]

Schreiber, Mary I Trustee
Timothy J Murphy Trust

APPROVAL PENDING
NOT FOR CONSTRUCTION

NO.	DATE	REVISIONS
ADG	08/21/16	REVISIONS
ADG	08/21/16	REVISIONS
ADG	08/21/16	REVISIONS
ADG	08/21/16	REVISIONS

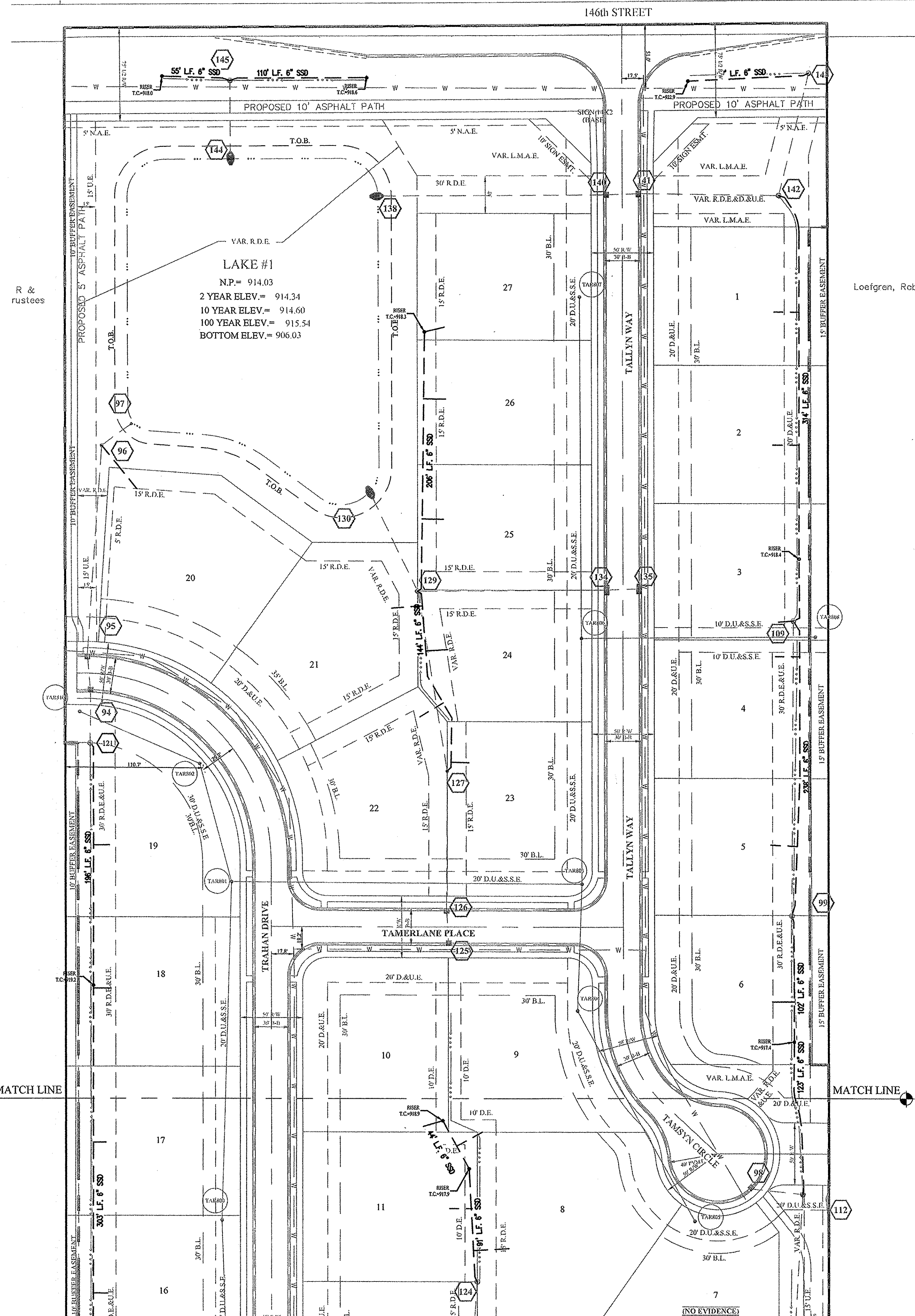


THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACTION OR ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY OR A SURVEYOR LOCATION REPORT.
CERTIFIED: 11/25/2015
Dennis D. Olmstead

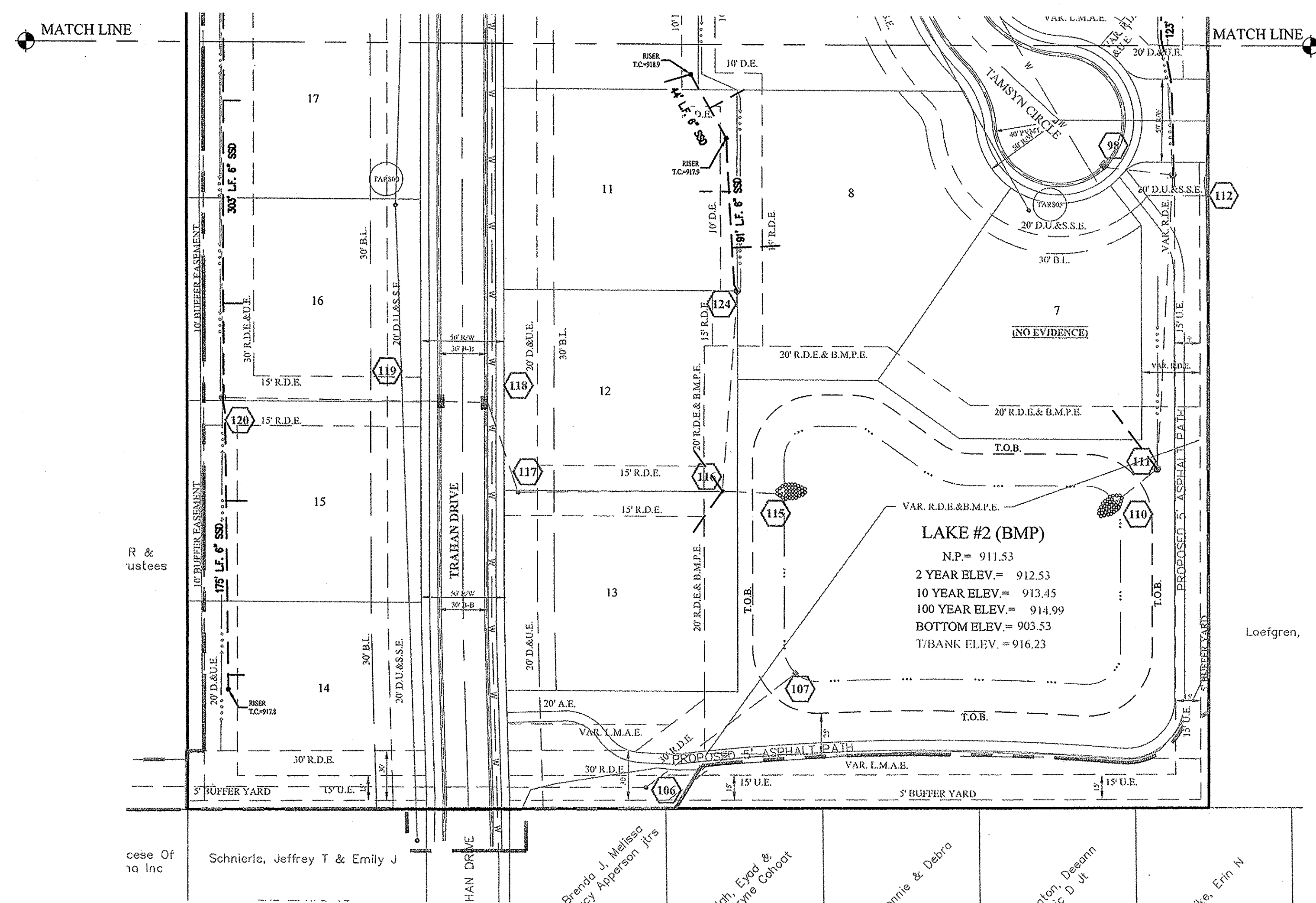
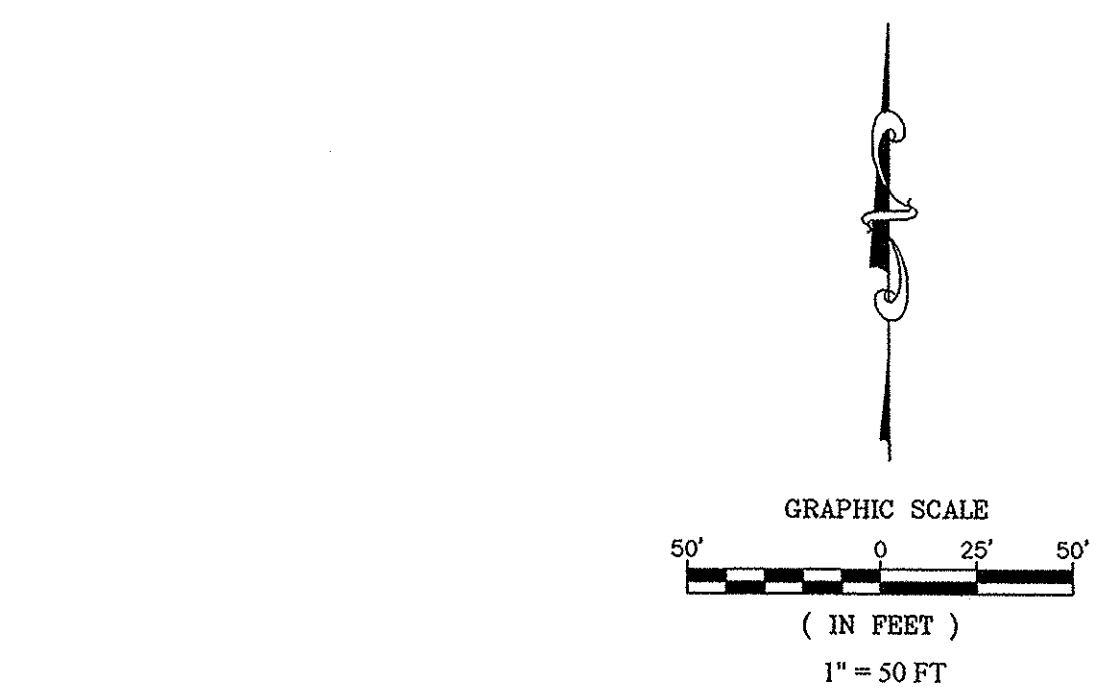
STOEPPELWERTH
ALWAYS ON
7965 East 10th Street, Fishers, IN 46038-2616
phone: 317.849.5985 fax: 317.849.5942

INDIANA
HAMILTON COUNTY, INDIANA
CLAY TOWNSHIP

DRAWN BY: JSM/ADG CHECKED BY: BAH
SHEET NO. C604
S.A. JOB NO. 67302PLA



LAKE #1
N.P. = 914.03
2 YEAR ELEV. = 914.34
10 YEAR ELEV. = 914.60
100 YEAR ELEV. = 915.54
BOTTOM ELEV. = 906.03



LAKE #2 (BMP)
N.P. = 911.53
2 YEAR ELEV. = 912.53
10 YEAR ELEV. = 913.45
100 YEAR ELEV. = 914.99
BOTTOM ELEV. = 903.53
T/BANK ELEV. = 916.23

RECORD DRAWING

Dennis D. Olmstead
Registered Land Surveyor
No. 900012



811
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