

SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 188

One Hamilton County Square

Noblesville, Indiana 46060-2230

December 7, 2005

To: Hamilton County Drainage Board

Re: Stultz & Almond Drain – Heather Knoll Relocation

Attached is a petition and plans for the proposed relocation of the Stultz & Almond Drain. The relocation is being proposed by Platinum Properties, LLC. The proposal is to reconstruct the Stultz & Almond Drain from Sta. 13+40 of the Thomas Stultz Drain, through Heather Knoll Subdivision and along the south right of way for 141st Street ending at the detention pond in Common Area “A” of Westwood Estates.

The new drain shall consist of those lengths of pipes between the following structures as shown on the plans by Stoeppelwerth Engineering, dated June 22, 2004, and having job number 47175S1: 100, which is the outlet into the existing detention pond in Block A of Westwood Estates Subdivision, thence to Structure 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111,124,123,122,121,120,119,125A and intercepting the original tile at the west property line of Common Area #1 of Heather Knoll, which is approximately station 13+40 of the Thomas Stultz Drain. With this reconstruction the pipe run from Structure 119 to 118 in Heather Knoll will need to be removed from the Stultz and Almond – Heather Knoll Arm and be made part of the main Stultz and Almond Drain. This pipe run is 130 feet of 12” RCP and is not included in the numbers below.

This line will consist of the following lengths:

10” PVC – 100 ft	18” RCP – 782 ft	27” RCP – 364 ft
12” RCP – 332 ft	21” RCP – 845 ft	36” RCP – 253 ft
15” RCP – 613 ft	24” RCP – 869 ft	Open Ditch – 335 ft

The portion of the new drain between Structure 101 and 109 parallels the original drain. The new drain will lie approximately 15 feet south of the original drain which lies at the edge of pavement on the south side of 141st Street.

The open ditch listed above is that section through the Detention Pond #1 of Heather Knoll by straight lines between Structures 111 and 124.

The total length of new tile shall be 4,493 feet. The 3,779 feet of original drain between Sta. 13+40 and Sta. 51+19, of the original 1884 description shall be vacated. This proposal will add an additional 714 feet to the drains total length.

The cost of the relocation is to be paid by Platinum Properties with a reimbursement agreement between Platinum Properties and Ray Roehling, as discussed in the October 13, 2003 Drainage Board Meeting (Drainage Board Minute Book 7, Page 203).

The easement will be a statutory 75 foot easement on both sides of the centerline pipe, and will be reduced by subdivision non-enforcement agreement as development occurs. Tracts 17-09-21-00-01-001.001, owned by John P. Spangler, 17-09-21-00-01-001.003, owned by PSI Energy Inc., 17-09-20-00-00-012.001, owned by Wilbur E. Tyner, and 17-09-20-00-00-012.000, owned by Tyner Family Partnership LP, that will have a 40 foot easement on the south side from the centerline of the pipe. Easements for the portion of the drain to be relocated through Heather Knoll will be as shown on the secondary plat for Section 1, as recorded in the office of the Hamilton County Recorder as instrument number 200500003045 (PC 3 Slide 560).

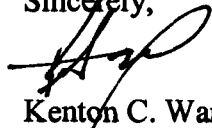
The petitioner has provided the Performance Bond as follows:

Name of Bonding Company: Lexon Insurance Company
Bond Number: 1007675
Bond Date: April 28, 2004
Bond Amount: \$136,858.00

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 the Board set a hearing for this matter on January 23, 2006.

Sincerely,



Kenton C. Ward
Hamilton County Surveyor

KCW/grh

HAMILTON COUNTY DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN RE: _____)
Hamilton County, Indiana)

PETITION FOR RELOCATION AND RECONSTRUCTION

FPV, LLC MANAGED BY PLATINUM PROPERTIES (hereinafter "Petitioner"),
hereby petitions the Hamilton County Drainage Board for authority to relocate and improve a
section of the STUTZ & ALMOND Drain, and in support of
said petition advises the Board that:

1. Petitioner owns real estate through which a portion of the STUTZ & ALMOND
Drain runs.
2. Petitioner plans to develop its real estate with roads, buildings, utilities, storm drains,
sanitary sewers and other structures.
3. Petitioner's proposed development of its real estate will require relocation and
reconstruction of a portion of the STUTZ & ALMOND Drain, as
specifically shown on engineering plans and specifications filed with the Hamilton
County Surveyor.
4. The work necessary for the proposed relocation and reconstruction will be undertaken at
the sole expense of the Petitioner and such work will result in substantial improvement to
the STUTZ & ALMOND Drain, without cost to other property owners
on the watershed of the STUTZ & ALMOND Drain.

WHEREFORE, Petitioner requests that an Order issued from the Hamilton County
Drainage Board authorizing relocation and reconstruction of the STUTZ & ALMOND
Drain, in conformance with applicable law and plans and specifications on file with the Hamilton
County Surveyor.

Paul Rioux
Signed

Paul Rioux
Printed

**Heather Knoll Sec. 1
GASB 34 Calculation**

Stultz & Almond Drain – Heather Knoll Arm: 9265 ft

Stultz & Almond Drain – Heather Knoll Relocation: 4493 ft

Total Footage = 13,758 ft

Bond Amount = \$188,600.00

Stultz & Almond Drain – Heather Knoll Arm: $.67(\$188,600.00) = \$126,362.00$

Stultz & Almond Drain – Heather Knoll Relocation: $.33(\$188,600.00) = \$62,238$

FINDINGS AND ORDER

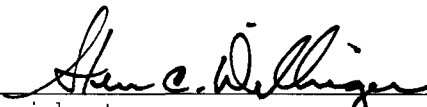
CONCERNING THE PARTIAL VACATION OF THE

Stultz & Almond Drain, Sta. 13+40 to Sta. 51+19

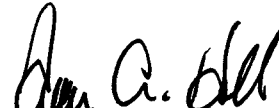
On this **23rd day of January 2006**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Stultz & Almond Drain, Sta. 13+40 to Sta. 51+19**.

Evidence has been heard. Objections were presented and considered. The Board then adopted an order of action. The Board now finds that the costs of continued maintenance to the portion of the above drain exceed the benefits to the real estate benefited by the portion of the drain to be abandoned and issues this order vacating the above section of the **Stultz & Almond Drain**.

HAMILTON COUNTY DRAINAGE BOARD




President



Member



Member

Attest: 

STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
Stultz & Almond Drain, Heather Knoll Relocation

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the **Stultz & Almond Drain, Heather Knoll Relocation** came before the Hamilton County Drainage Board for hearing **on January 23, 2006**, on the Reconstruction Report consisting of the report and the Schedule of Damages and Assessments. The Board also received and considered the written objection of an owner of certain lands affected by the proposed Reconstruction, said owner being:

Evidence was heard on the Reconstruction Report and on the aforementioned objections.

The Board, having considered the evidence and objections, and, upon motion duly made, seconded and unanimously carried, did find and determine that the costs, damages and expenses of the proposed Reconstruction will be less than the benefits accruing to the owners of all land benefited by the Reconstruction.

The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included or omitted from the Schedule of Assessments.

The Board further finds that it has jurisdiction of these proceedings and that all required notices have been duly given or published as required by law.

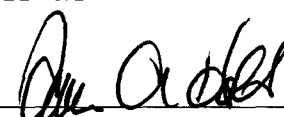
Wherefore, it is ORDERED, that the proposed Reconstruction of the **Stultz & Almond Drain, Heather Knoll Relocation** be and is hereby declared established.

Thereafter, the Board made inspection for the purpose of determining whether or not the lands of any owners had been erroneously included or excluded from the Schedule of Assessments. The Board finds on the basis of the reports and findings at this hearing as follows:

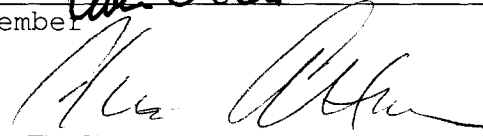
HAMILTON COUNTY DRAINAGE BOARD



PRESIDENT

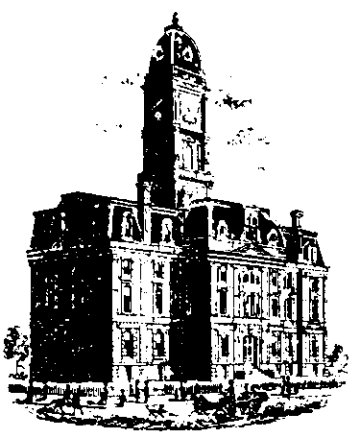


Member



Member

ATTEST: 
Executive Secretary



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

March 25, 2009

Re: Stultz & Almond Drain: Heather Knoll Relocation

Attached are as-builts, certificate of completion & compliance, and other information for Heather Knoll Relocation. 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 December 7, 2005. The report was approved by the Board at the hearing held January 23, 2006. (See Drainage Board Minutes Book 9, Pages 30-31)

The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:	Changes:
118-119	131	12	RCP	912.19	910.63	1.19	1
125a-119	164	12	RCP	911.07	910.63	0.27	-1
119-120	165	15	RCP	910.63	910.1	0.32	
120-121	30	18	RCP	910.1	910	0.33	
121-122	45	21	RCP	910	909.82	0.4	
122-123	30	36	RCP	909.82	909.71	0.37	-1
123-124	222	36	RCP	909.71	908.94	0.34	
111-110	169	12	RCP	908.95	908.54	0.24	2
110-109	444	15	RCP	908.54	907.29	0.28	-4
109-108	327	18	RCP	907.29	906.3	0.3	-25
108-107	423	18	RCP	906.3	905.25	0.25	23
107-106	400	21	RCP	905.25	904.16	0.27	
106-105	400	21	RCP	904.16	903	0.29	
105-105A	205	24	RCP	903	902.47	0.24	
105A-104	240	24	RCP	902.47	901.93	0.23	45
104-103	340	24	RCP	901.93	900.91	0.3	-46
103-102	79	24	RCP	900.91	900.68	0.29	-4
102-101	300	27	RCP	900.68	899.85	0.28	5
101-100	59	27	RCP	899.85	899.61	0.4	-10

RCP Pipe Totals:

12	464
15	609
18	780
21	845
24	864
27	359
36	252

Total: 4173

**OTHER
DRAIN**

Open Ditch	335
Total:	<u>335</u>

The length of the drain due to the changes described above is now **4,508 feet**.

The non-enforcement was approved by the Board at its meeting on July 11, 2005 and recorded under instrument #200500044100.

The following sureties were guaranteed by Lexon Insurance Company and released by the Board on its November 27, 2006 meeting.

Bond-LC No: 1007675

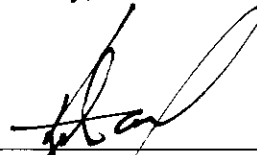
Insured For: Storm Sewers

Amount: \$136,858

Issue Date: April 28, 2004

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

Sincerely,

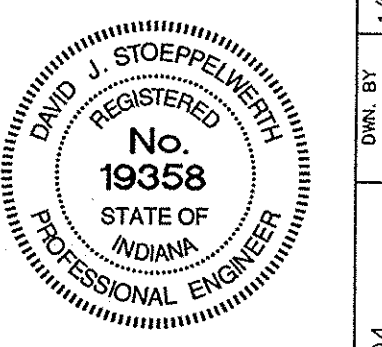
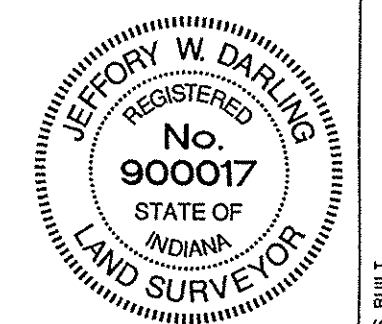


Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

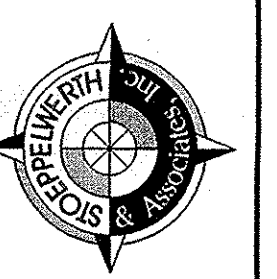
RECORD DRAWING

Jeffrey W. Darling
 Registered Land Surveyor
 No. 900017
 DATE 1/20/05



REV.	DATE	BY	REVISIONS
AS BUILT			
1	1/20/05	DMK	REUSE PER SURVEYOR COMMENTS
2	6/24/04	DMK	REUSE PER SURVEYOR COMMENTS
3	5/2/04	DMK	REUSE PER SURVEYOR COMMENTS
4	9/19/04	DMK	REUSE PER SURVEYOR COMMENTS
5	4/19/04	DMK	REUSE PER SURVEYOR COMMENTS
6	4/19/04	DMK	REUSE PER SURVEYOR COMMENTS

CERTIFIED: 3/5/04
 David J. Stappert
 CONSULTING ENGINEERS - LAND SURVEYORS
 (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942
 FISHERS INDIANA



INDIANA
 SITE DEVELOPMENT PLAN
 HEATHER KNOLL
 SECTION 1
 CARMEL

SHEET NO.
C200
 JOB NO. 4717551

LEGEND

- EXISTING EDGE OF WOODS
- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE
- MATCH EXISTING
- PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED 5' SIDEWALK (BY HOME BUILDER)
(DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS)
- LOT NUMBER
- PAD ELEVATION
PAD SIZE: 60'x60'
(UNLESS OTHERWISE NOTED)
-

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

ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SEWER SYSTEM WITH A POSITIVE OUTFLOW

- D.U.&S.E. DRAINAGE, UTILITY & SANITARY SEWER EASEMENT
- D.U.&S.E. DRAINAGE UTILITY & SEWER EASEMENT
- D.U.E. DRAINAGE & UTILITY EASEMENT
- L.M.A.E. LANDSCAPE, MAINTENANCE ACCESS EASEMENT
- S.L.E. SIGN LANDSCAPE EASEMENT
- D.E. DRAINAGE EASEMENT
- B.S.L. BUILDING SETBACK LINE
- N.R. NON RADIAL
- N.A.E. NON ACCESS EASEMENT
- P.A.E. PUBLIC ACCESS EASEMENT
- T.P.E. TREE PRESERVATION EASEMENT
- R/W RIGHT OF WAY
- C.A. COMMON AREA

BENCHMARKS

S&A TBM #1
 1.0'± UP FROM GROUND ON EAST SIDE ELECTRIC POLE. PWP #74-693
 10TH POLE FROM TOWNE ROAD ON S. SIDE OF 146TH STREET.
 ELEV.=919.28

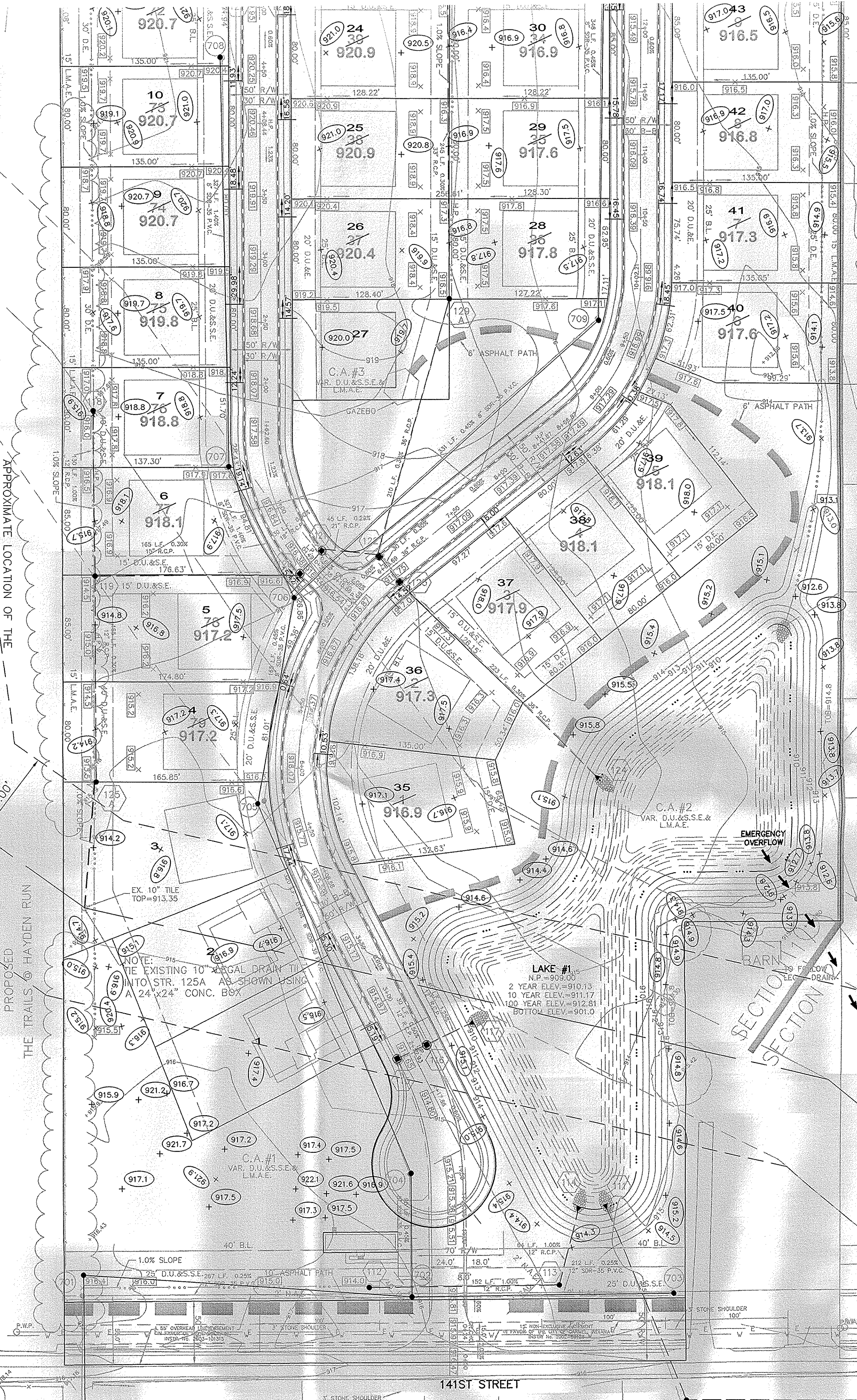
NOTE TO CONTRACTOR:
 CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ONSITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE IS NOT ANY CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

EARTHWORK:

1. EXCAVATION
 - A. Excavated material that is suitable (topsoil and/or clay) 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.
 - C. Contact Carmel Utilities at 571-2648 for location of all water mains.
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

APPROXIMATE LOCATION OF THE STULTZ & ALMOND LEGAL DRAIN EASEMENT (75' ON BOTH SIDES OF THE FIELD TILE) AS SCALED FROM COUNTY SURVEYOR'S LEGAL DRAIN MAPS (WILL BE CRUSHED OR ABANDONED ACROSS HEATHER KNOLL SITE PER APPROVED METHODS BY THE HAMILTON COUNTY SURVEYOR'S OFFICE AND THE CITY OF CARMEL-ENGINEER)



AS BUILT

STR. NO.	TYPE	T.C. / RIM	INVERT	DIRECTION
100	CONCRETE END SECTION		899.61	NW
101	MANHOLE		907.05	899.85 W&SE
102	MANHOLE		910.49	900.68 W&E
103	MANHOLE		910.63	900.91 W&E
104	MANHOLE		911.08	901.93 W&E
105	YARD INLET		908.09	902.47 W&E
105A	YARD INLET		909.29	903.00 W&E
106	MANHOLE		913.48	904.16 W&E
107	MANHOLE		914.74	905.25 W&E
108	MANHOLE		914.97	906.30 W&E
109	YARD INLET		913.15	909.29 W&E
110	MANHOLE		915.16	908.54 NW&E
111	CONCRETE END SECTION		908.95	SE
112	YARD INLET		913.85	911.15 E
113	MANHOLE		914.27	909.62 W&NE
114	CONCRETE END SECTION		908.98	SW
115	CURB INLET w/MH		914.45	909.98 NE
116	CURB INLET w/MH		914.44	909.54 SW&NE
117	CONCRETE END SECTION		909.03	SW
118	YARD INLET		915.88	912.19 S
119	YARD INLET		914.60	910.63 N,S&E
120	CURB INLET w/MH		916.32	910.10 NE&W
121	CURB INLET w/MH		916.28	910.00 SW&E
122	CURB INLET w/MH		916.70	909.82 SE&W
123	CURB INLET w/MH		916.68	909.71 SE&NW
124	CONCRETE END SECTION		919.08	908.94 NW
125	CURB INLET		919.50	915.50 S
125A	YARD INLET		913.37	911.07 N
126	CURB INLET		919.10	915.16 N&SE
127	CURB INLET w/MH		919.89	914.66 NW&E
128	CURB INLET w/MH		919.79	914.29 W&E
129	YARD INLET		915.90	911.20 N,S,E&W
130	DOUBLE CURB INLET		915.21	911.61 W&NE
131	DOUBLE CURB INLET		915.21	911.76 W&NE
132	YARD INLET		914.79	912.69 N&W
135	CURB INLET		919.21	916.09 S
136	CURB INLET		919.16	915.48 N&S
137	YARD INLET		917.17	914.56 W
138	CURB INLET		917.85	914.01 W&E
139	CURB INLET		917.82	913.95 W&NE
140	CURB INLET w/MH		919.26	912.47 N,S&W
141	CURB INLET w/MH		919.06	912.59 N&S
142	MANHOLE		918.83	912.98 S
143	CONCRETE END SECTION		913.15	SE

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: March 2001
 Entered by: SLN

"HOLEY MOLEY" SAYS:

 1-800-382-5544
 CALL TOLL FREE
 1-800-428-5200
 FOR CALLS OUTSIDE OF INDIANA

CAUTION
 LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, & MARKS MADE UPON THE GROUND BY OTHERS.) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

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

RECORD DRAWING

Jeffery W. Darling
 JEFFERY W. DARLING
 Registered Land Surveyor
 No. 900017
 DATE 1/20/05



LEGEND

- EXISTING EDGE OF WOODS
- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE
- MATCH EXISTING
- PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED 5' SIDEWALK (BY HOME BUILDER)
(DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS)
- 100**
874.1
LOT NUMBER
PAD ELEVATION
PAD SIZE: 60'X60'
-

-
-
-

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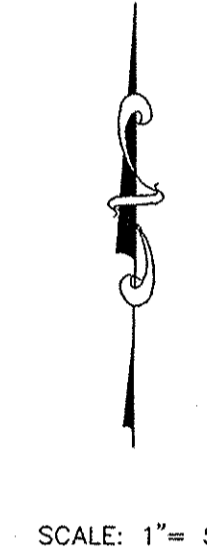
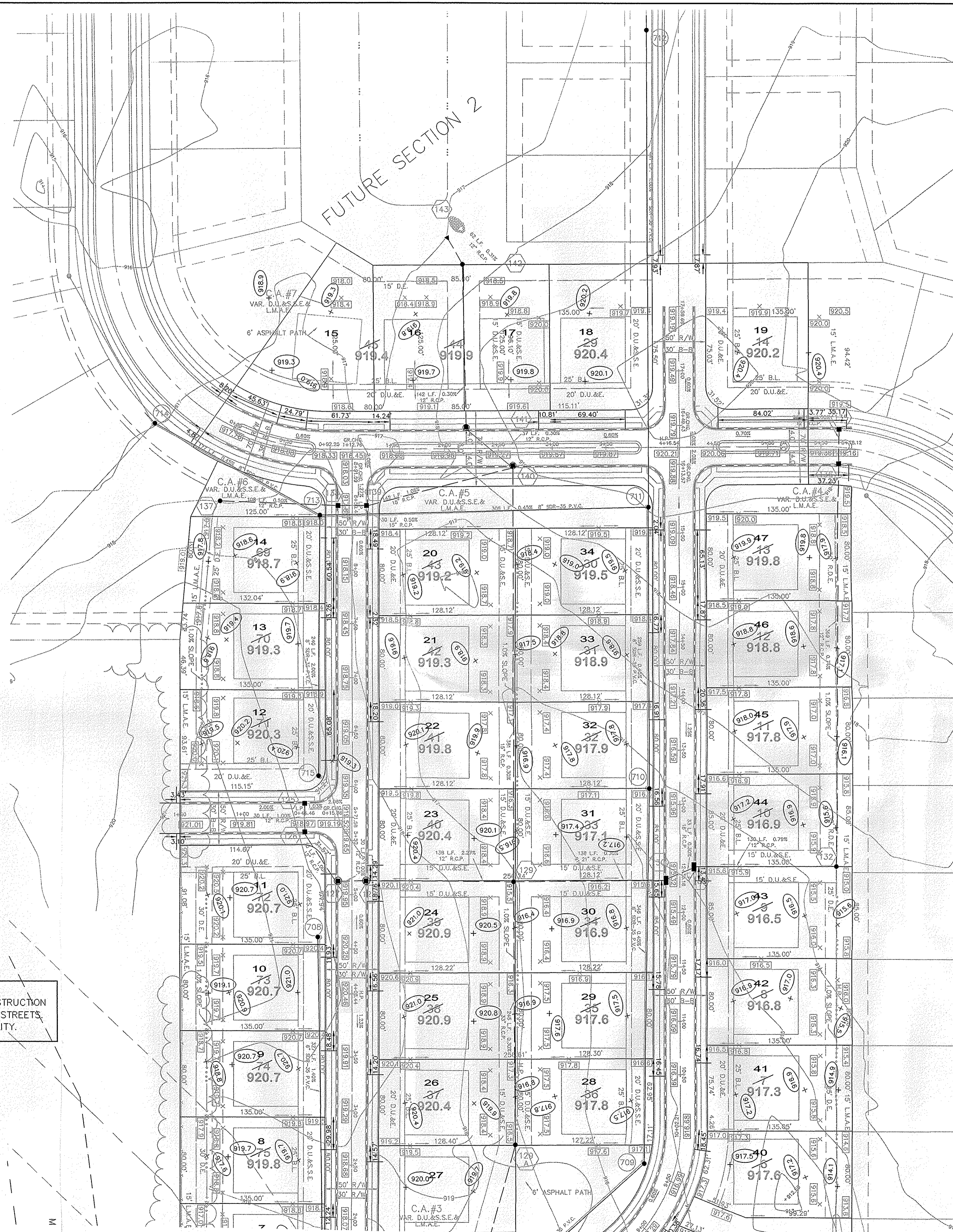
BENCHMARKS

S&A TBM #1

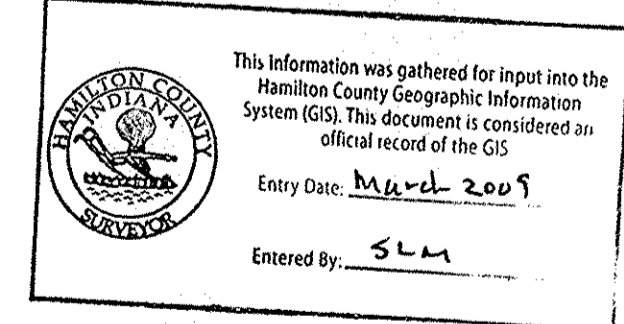
1.0'± UP FROM GROUND ON EAST SIDE ELECTRIC POLE. PWP #74-693 10TH POLE FROM TOWNE ROAD ON S. SIDE OF 146TH STREET.

ELEV.=919.28

NOTE TO CONTRACTOR:
 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.



SCALE: 1" = 50'



"HOLEY MOLEY" SAYS:

 1-800-382-5544
 CALL TOLL FREE
 1-800-428-5200
 FOR CALLS OUTSIDE OF INDIANA

CAUTION
 LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, & marks made upon the ground by others.) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

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

DATE	BY	REVISIONS
1/20/05	BNK	AS BUILT
5/24/04	EEF	REVISE PER SURVEYOR COMMENTS
4/29/04	EEF	REV. PER SURVEYOR COMMENTS
4/2/04	EEF	REV. PER TAC COMMENTS
3/5/04	EEF	DATE
3/5/04	EEF	MARK

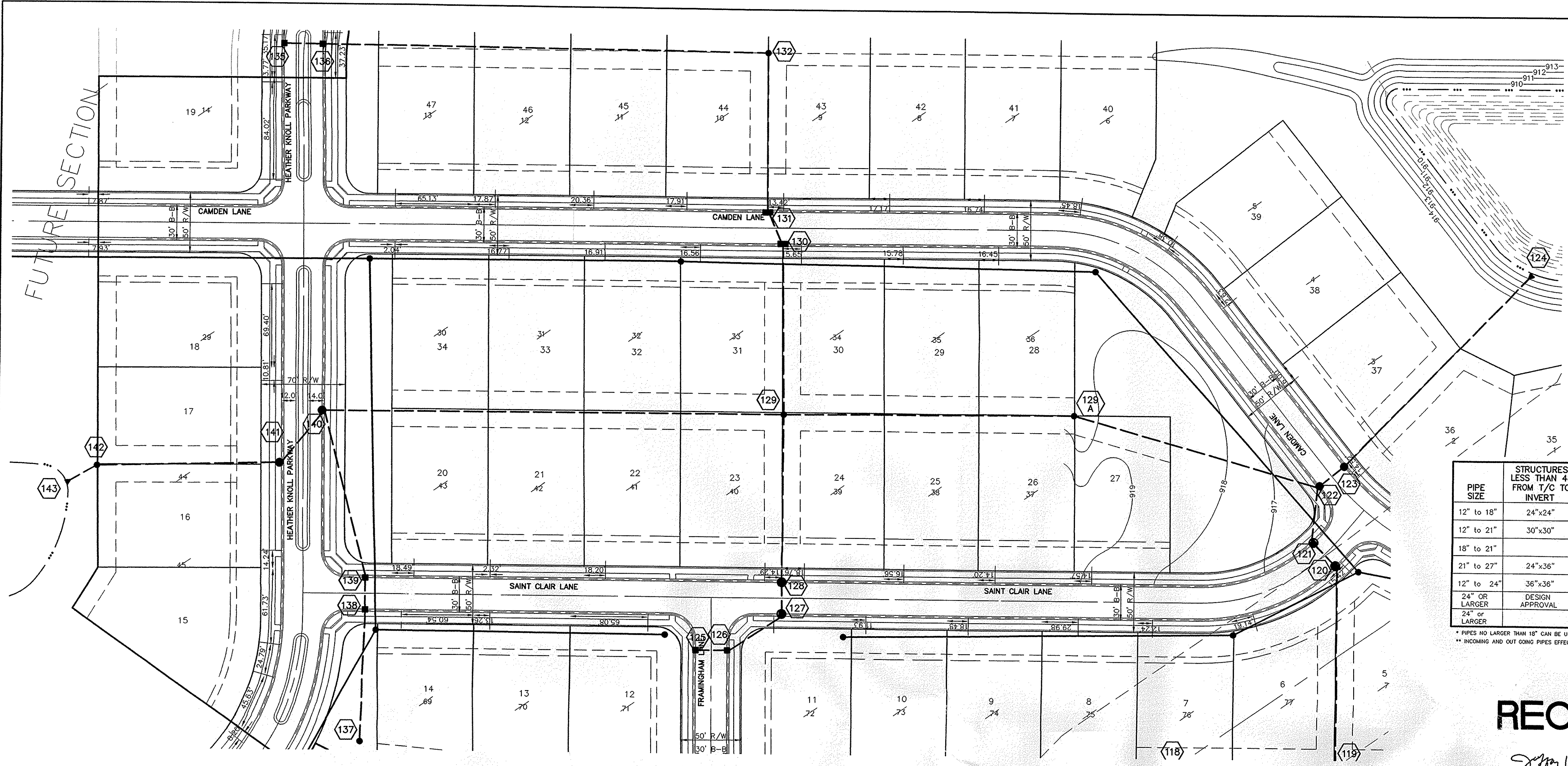
CERTIFIED: 3/5/04
David J. Stapp
 David J. Stapp
 Registered Professional Engineer
 No. 19358
 State of Indiana

CONSULTING ENGINEERS - LAND SURVEYORS
 (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942
 FISHERS INDIANA

INDIANA
 CARMEL

SITE DEVELOPMENT PLAN
 HEATHER KNOLL
 SECTION 1

SHEET NO.
C201
 JOB NO. 4717551



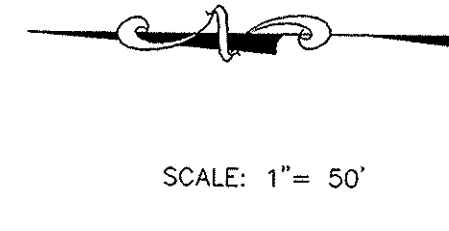
NOTE: CONSTRUCTION TOLERANCE FOR YARD INLETS WILL BE +0.0' TO -0.02'

NOTE: EXCEPT FOR FORCE MAINS, CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES AND STORM SEWERS IS 18" OR LESS.

ALL MANHOLES TO BE CONSTRUCTED WITH ONE 4" RISER RING TO ESTABLISH PLAN CASTING GRADE.

ALL CURB INLET CASTINGS TO BE NEENAH R-3501-N

ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SEWER SYSTEM WITH A POSITIVE OUTFLOW



PIPE SIZE	STRUCTURES LESS THAN 48" FROM 1/2 TO INVERT	STRUCTURES GREATER THAN 48" FROM 1/2 TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING #R-3501 N	CASTING #3501 TL & TR
12" to 18"	24"x24"		DESIGN APPROVAL	No	Yes	Yes
12" to 21"	30"x30"		DESIGN APPROVAL	No	Yes	Yes
18" to 21"		MH/BOX	DESIGN APPROVAL	Yes	Yes	Yes
21" to 27"	24"x36"		DESIGN APPROVAL	No	No	Yes
12" to 24"	36"x36"		DESIGN APPROVAL	No	Yes	Yes
24" OR LARGER	DESIGN APPROVAL		DESIGN APPROVAL	No	No	Yes
		MH/BOX	DESIGN APPROVAL	Yes**	Yes	Yes

* PIPES NO LARGER THAN 18" CAN BE USED IN THE 2' SIDE OF THIS BOX

** INCOMING AND OUT GOING PIPES EFFECT STEPS IN THIS STRUCTURE

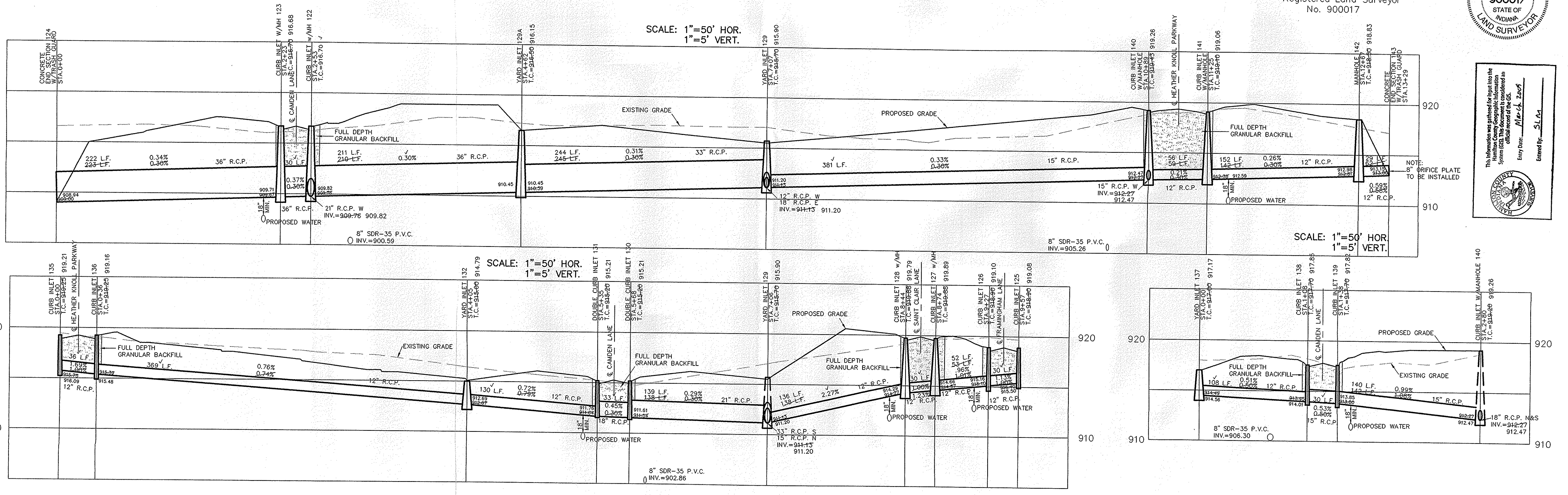
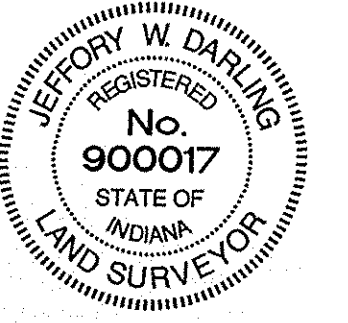
SPECIAL NOTE: STRUCTURES DEEPER THAN 48" FROM 1/2 TO INVERT WILL BE A MH OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED.

SPECIAL NOTE: STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES

SPECIAL NOTE: COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET, TO IMPROVE ACCESS.

RECORD DRAWING

Jeffrey W. Darling
 Registered Land Surveyor
 No. 900017
 DATE 11/30/04



This information was prepared for input into the System (GIS). The document is considered an official record of the GIS.

Entry Date: Mar-20-2007
 Entered By: SLA

CERTIFIED: 3/5/04

CONSULTING ENGINEERS - LAND SURVEYORS
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INDIANA

INDIANA
 FISHERS

INDIANA
 CARMEL

STORM SEWER PLAN & PROFILE
 HEATHER KNOLL SECTION 1

SHEET NO.
C600

JOB NO. 4717551

DATE: 3/5/04

BY: David J. Stappert

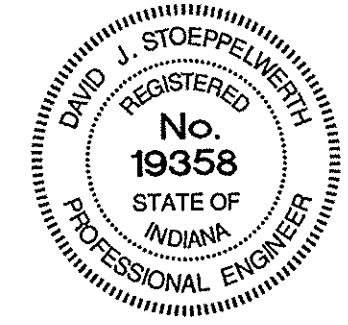
REVISIONS:

RECORD DRAWING

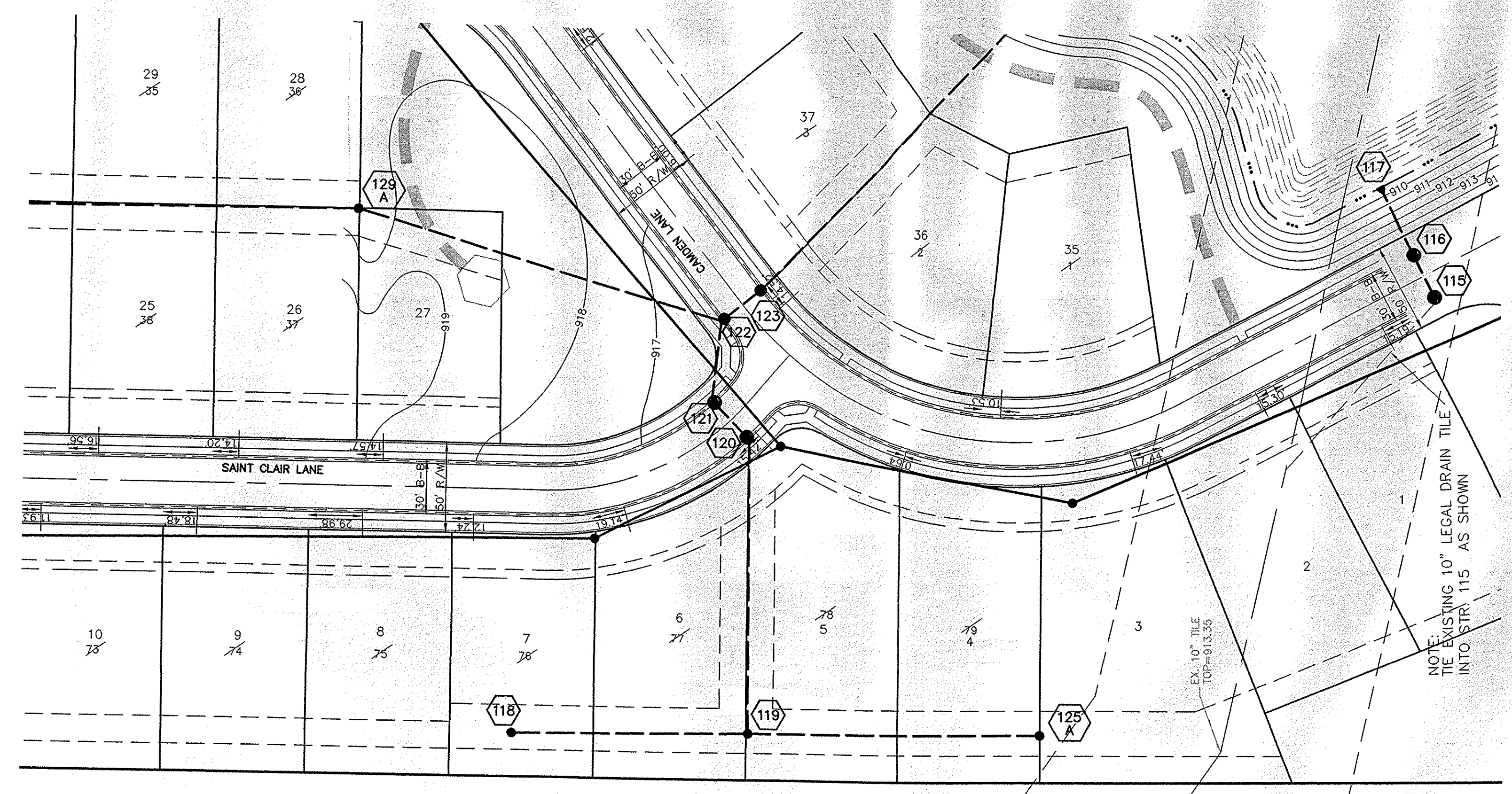
Jeffery W. Darling
 JEFFERY W. DARLING
 Registered Land Surveyor
 No. 900017



SCALE: 1" = 50'



REV	DATE	MARK	REVISIONS
1	3/15/04		
2	3/15/04		
3	3/15/04		
4	3/15/04		
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49	3/15/04		
50	3/15/04		



ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SEWER SYSTEM WITH A POSITIVE OUTFLOW

NOTE: CONSTRUCTION TOLERANCE FOR YARD INLETS WILL BE +0.0' TO -0.20'

NOTE: "EXCEPT FOR FORCE MAINS, CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES AND STORM SEWERS IS 18" OR LESS."

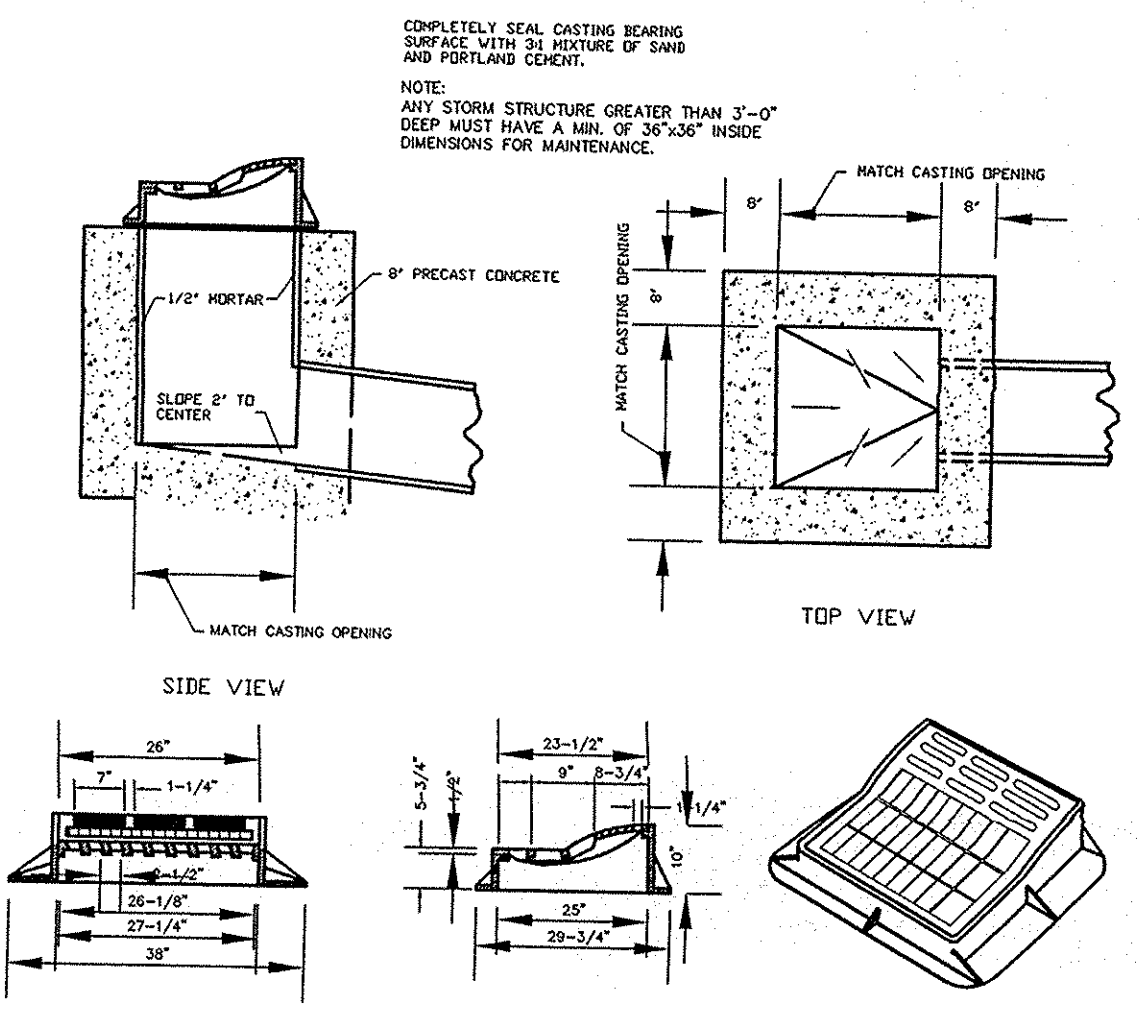
ALL MANHOLES TO BE CONSTRUCTED WITH ONE 4" RISER RING TO ESTABLISH PLAN CASTING GRADE.

ALL CURB INLET CASTINGS TO BE NEENAH R-3501-N

APPROXIMATE LOCATION OF THE STULTZ & ALMOND LEGAL DRAIN EASEMENT (75' ON BOTH SIDES OF THE FIELD TILE) AS SCALED FROM COUNTY SURVEYOR'S LEGAL DRAIN MAPS (WILL BE CRUSHED OR ABANDONED ACROSS HEATHER KNOLL SITE PER APPROVED METHODS BY THE HAMILTON COUNTY SURVEYOR'S OFFICE AND THE CITY OF CARMEL-ENGINEER)

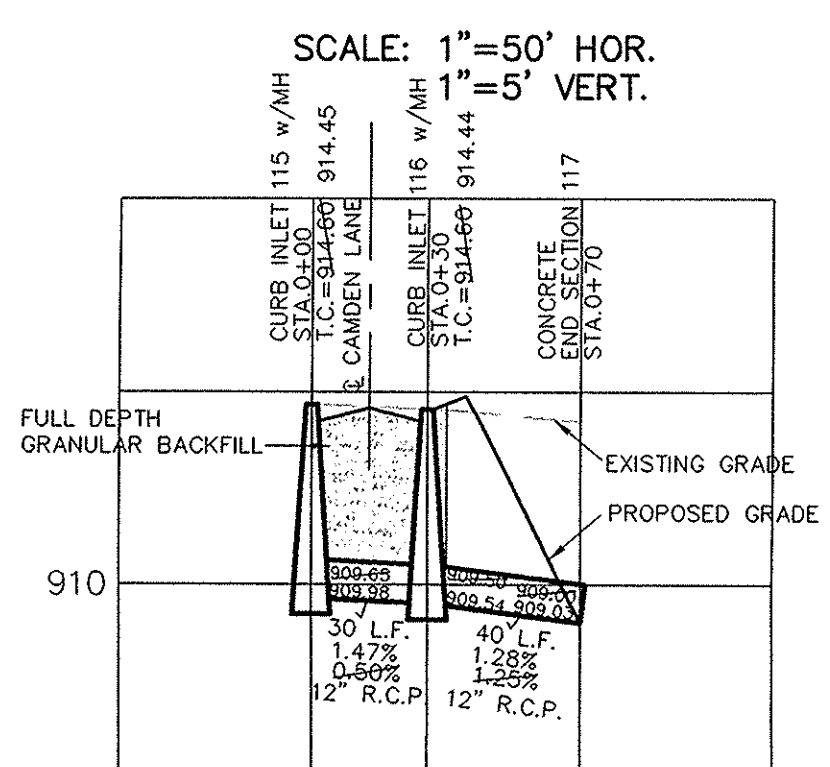
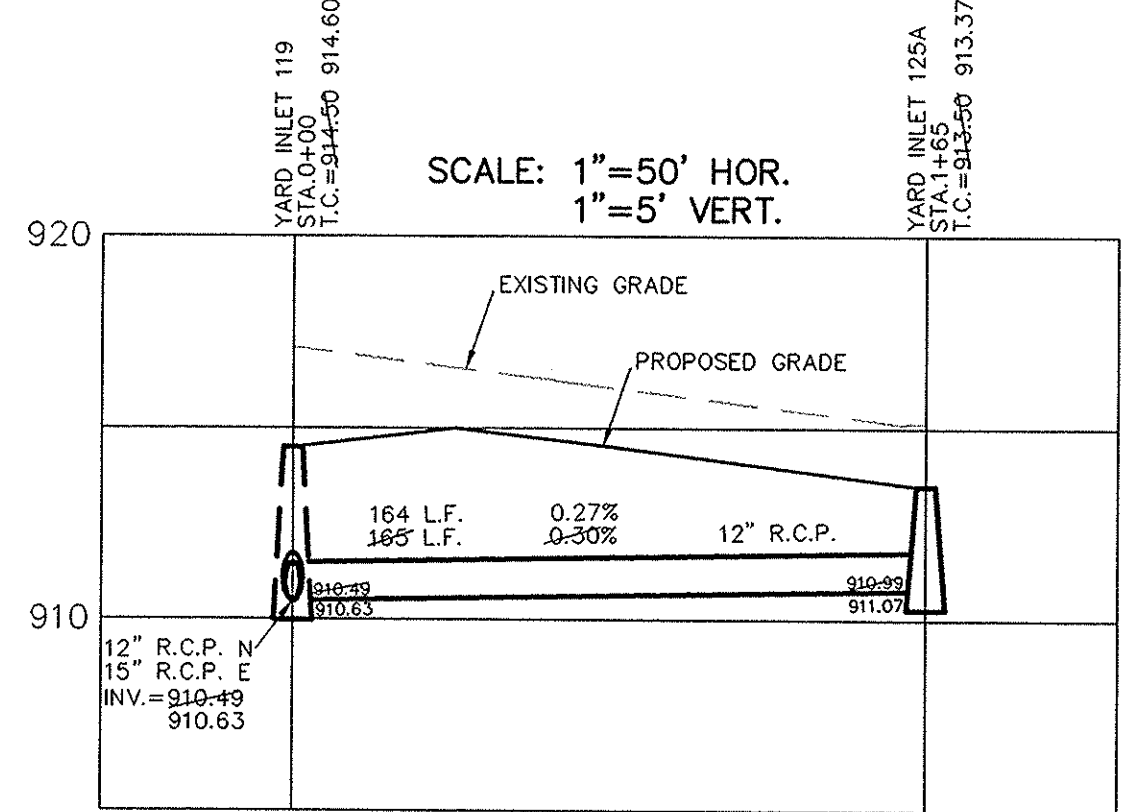
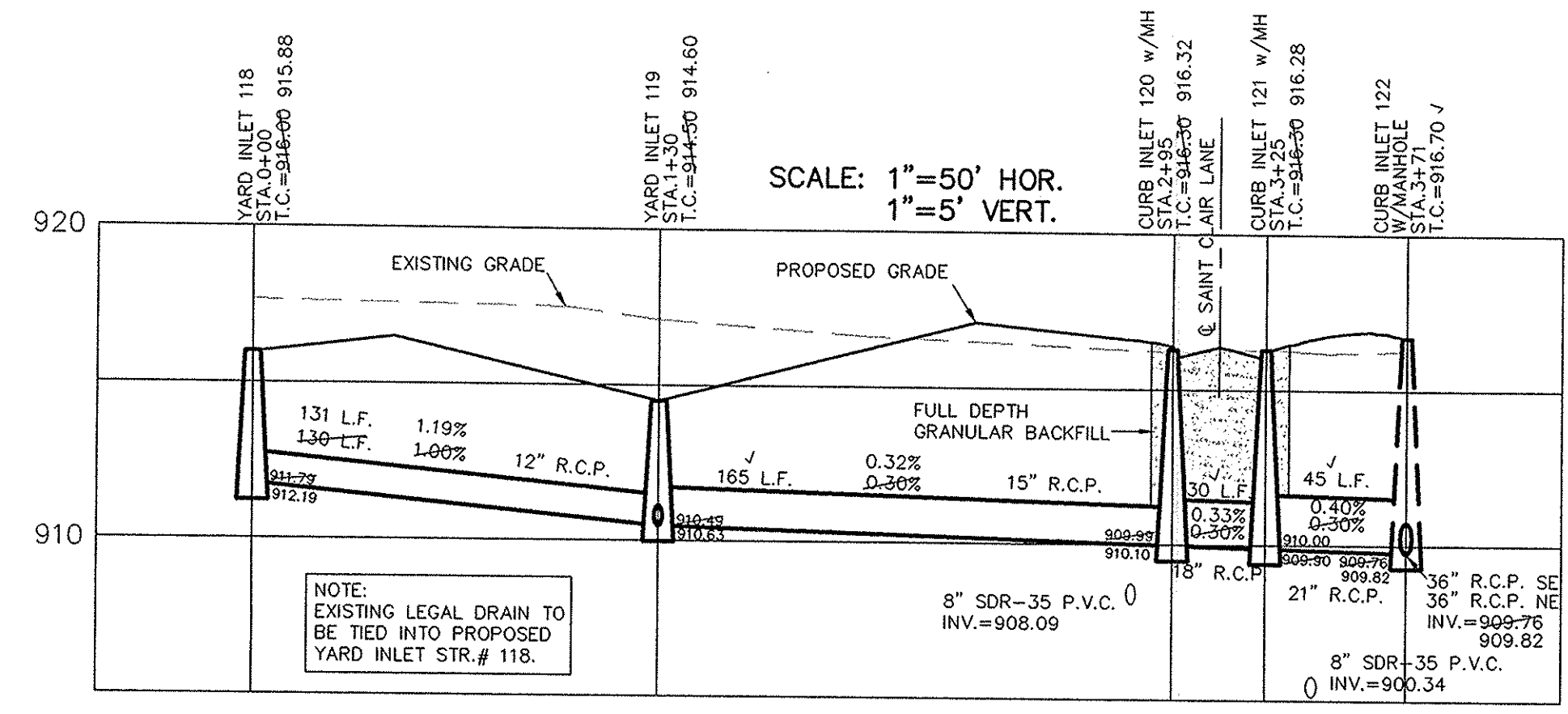
PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-3501 N	CASTING *3501 TL & TR
12" to 18"	24"x24"		DESIGN APPROVAL	No	Yes	Yes
12" to 21"	30"x30"		DESIGN APPROVAL	No	Yes	Yes
18" to 21"		MH/BOX	DESIGN APPROVAL	Yes	Yes	Yes
21" to 27"	24"x36"		DESIGN APPROVAL	No	No	Yes
12" to 24"	36"x36"		DESIGN APPROVAL	No	Yes	Yes
24" OR LARGER			DESIGN APPROVAL	No	No	Yes
24" or LARGER		MH/BOX	DESIGN APPROVAL	Yes**	Yes	Yes

* PIPES NO LARGER THAN 18" CAN BE USED IN THE 2' SIDE OF THIS BOX
 ** INCOMING AND OUT GOING PIPES EFFECT STEPS IN THIS STRUCTURE
 SPECIAL NOTE: STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A M.H. OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED.
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 SPECIAL NOTE: COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET, TO IMPROVE ACCESS.



R-3501-(L)R) NEENAH CURB INLET FRAME, GRATE & CURB BOX DETAIL
 NOT TO SCALE

NOTE: THIS STORM INLET CASTING TO BE USED FOR STR.'S 127,128,135,136,140,141 AND ONE EACH FOR DBL. STR.'S 130 AND 131.

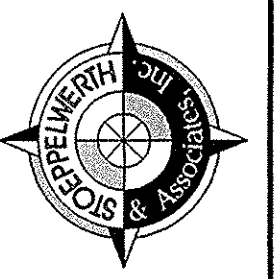


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 Entry Date: March 2009
 Entered By: SLM

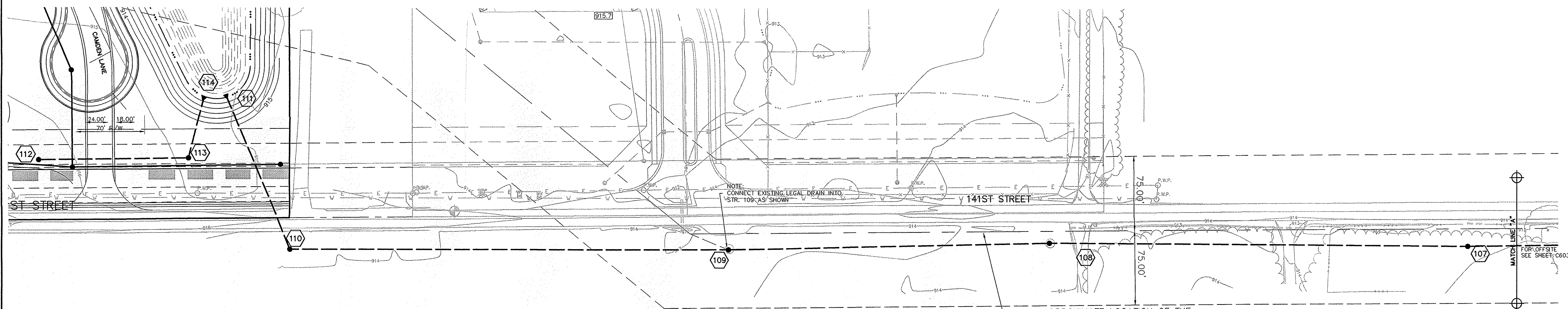
STORM SEWER PLAN & PROFILE
 HEATHER KNOLL
 SECTION 1

SHEET NO.
C601
 JOB NO. 47175S1

CONSULTING ENGINEERS - LAND SURVEYORS
 (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942
 INDIANA
 FISHERS



INDIANA
 CARMEL

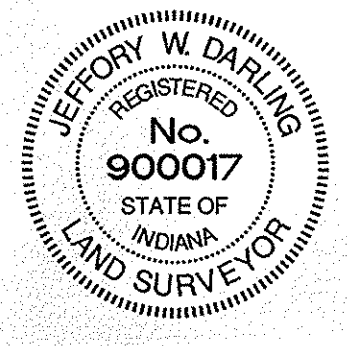


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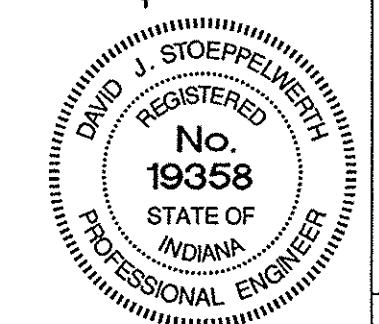
Y
ERSHIP, L.P.
34

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

Jeffery W. Darling
JEFFERY W. DARLING
Registered Land Surveyor
No. 900017
DATE 11/30/04



APPROXIMATE LOCATION OF THE STULTZ & ALMOND LEGAL DRAIN EASEMENT (75' ON BOTH SIDES OF THE FIELD TILE) AS SCALED FROM COUNTY SURVEYOR'S LEGAL DRAIN MAPS (WILL BE CRUSHED OR ABANDONED ALONG ENTIRE OFF-SITE ROUTE PER APPROVED METHODS BY THE HAMILTON COUNTY SURVEYOR'S OFFICE AND THE CITY OF CARMEL ENGINEER)

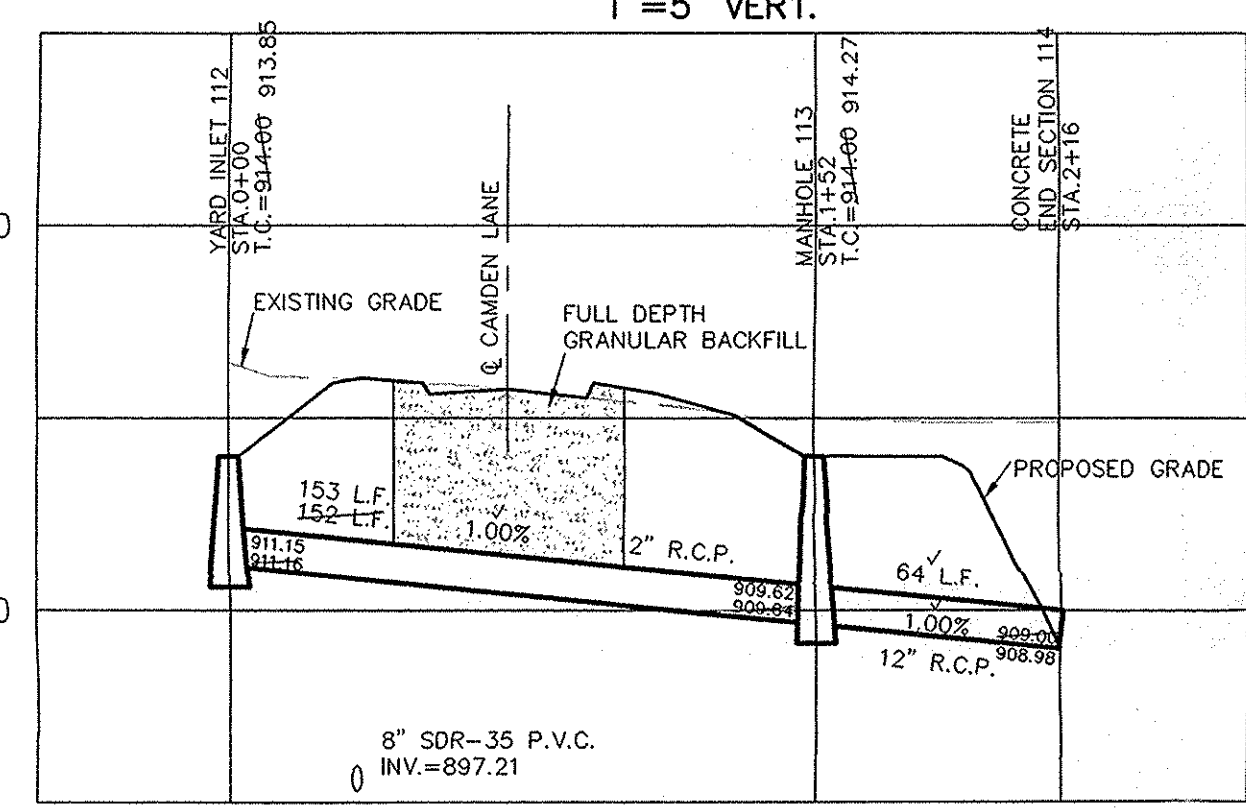


CER TIFIED: 3/5/04
David J. Stoppelmeier

CONSULTING ENGINEERS - LAND SURVEYORS
FISHERS INDIANA
(317) 849-5935 1-800-728-6917 FAX: (317) 849-5942



OFFSITE STORM SEWER PLAN & PROFILE
HEATHER KNOLL
SECTION 1
INDIANA
CARMEL



ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SEWER SYSTEM WITH A POSITIVE OUTFLOW

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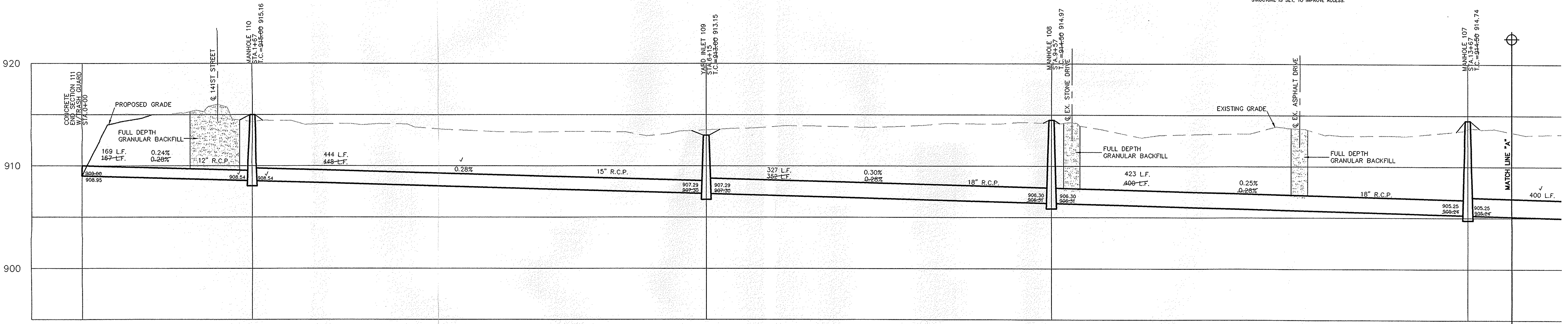
ALL MANHOLES TO BE CONSTRUCTED WITH ONE 4" RISER RING TO ESTABLISH PLAN CASTING GRADE.

CURB INLET TABLE

PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-3501 N	CASTING *3501 TL & TR
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24" OR LARGER	DESIGN APPROVAL		DESIGN APPROVAL	No	No	Yes
24" OR LARGER		MH/BOX	DESIGN APPROVAL	Yes**	Yes	Yes

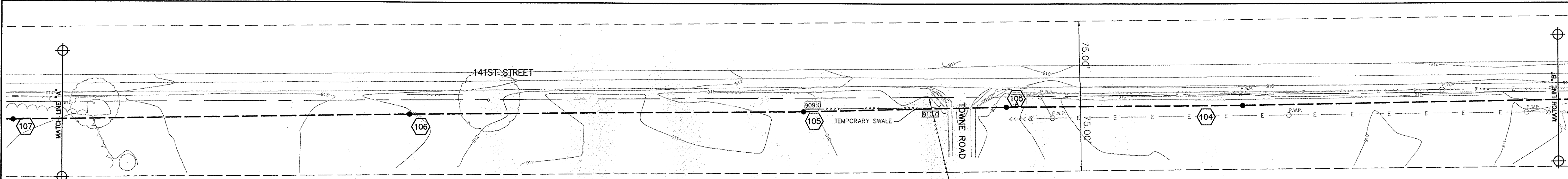
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Entry Date: March 2009
Entered By: SLM

SHEET NO.
C602
JOB NO. 4717551



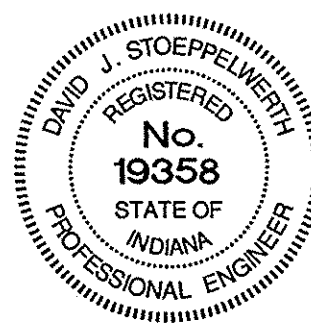
RECORD DRAWING


 JEFFORY W. DARLING
 Registered Land Surveyor
 No. 900017
 DATE 11/30/04



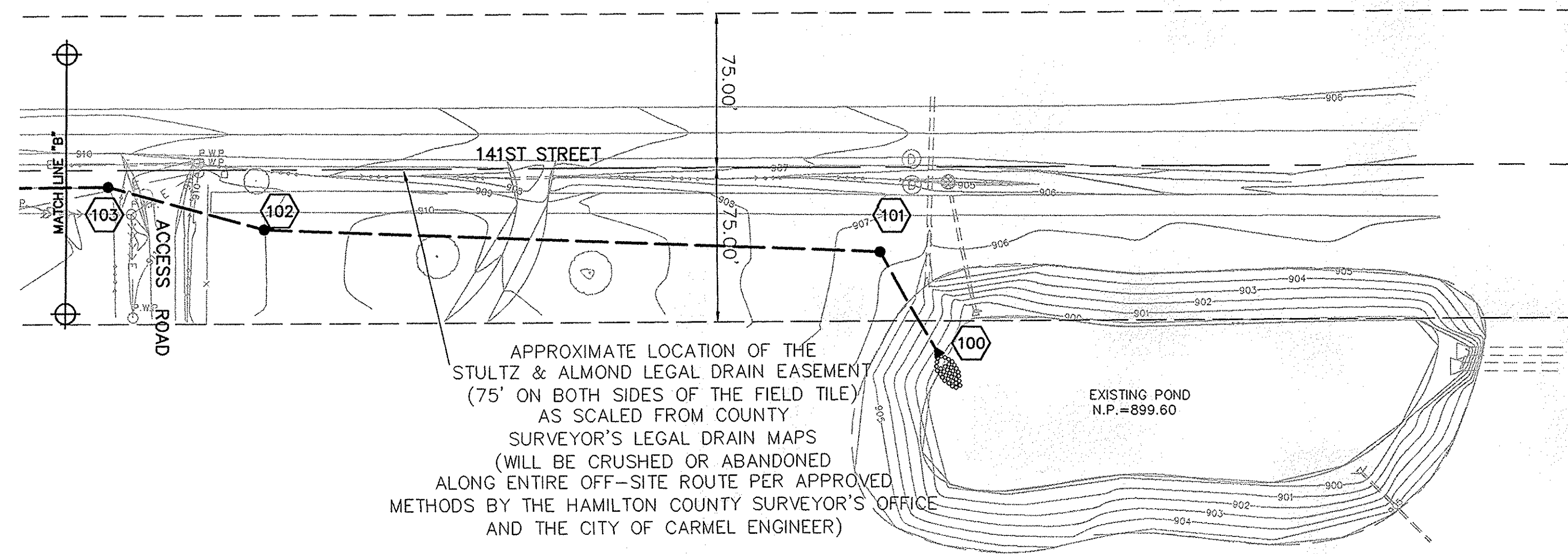
APPROXIMATE LOCATION OF THE
 STULTZ & ALMOND LEGAL DRAIN EASEMENT
 (75' ON BOTH SIDES OF THE FIELD TILE)
 AS SCALED FROM COUNTY
 SURVEYOR'S LEGAL DRAIN MAPS
 (WILL BE CRUSHED OR ABANDONED
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 METHODS BY THE HAMILTON COUNTY SURVEYOR'S OFFICE
 AND THE CITY OF CARMEL ENGINEER)

This information was gathered for input into the
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 Entry Date: March 2009
 Entered By: SLR



DATE	REVISIONS	BY
11/20/04		EEF
1/29/04		EEF
4/7/04		EEF
3/5/04		EEF

OWNED BY: SLR
 DRAWN BY: SLR
 CHECKED BY: SLR
 SCALE: 1"=50'
 DATE: 3/5/04



APPROXIMATE LOCATION OF THE
 STULTZ & ALMOND LEGAL DRAIN EASEMENT
 (75' ON BOTH SIDES OF THE FIELD TILE)
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 (WILL BE CRUSHED OR ABANDONED
 ALONG ENTIRE OFF-SITE ROUTE PER APPROVED
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CURB INLET TABLE

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24" OR LARGER	DESIGN APPROVAL		DESIGN APPROVAL	No	No	Yes
24" or LARGER		MH/BOX	DESIGN APPROVAL	Yes**	Yes	Yes

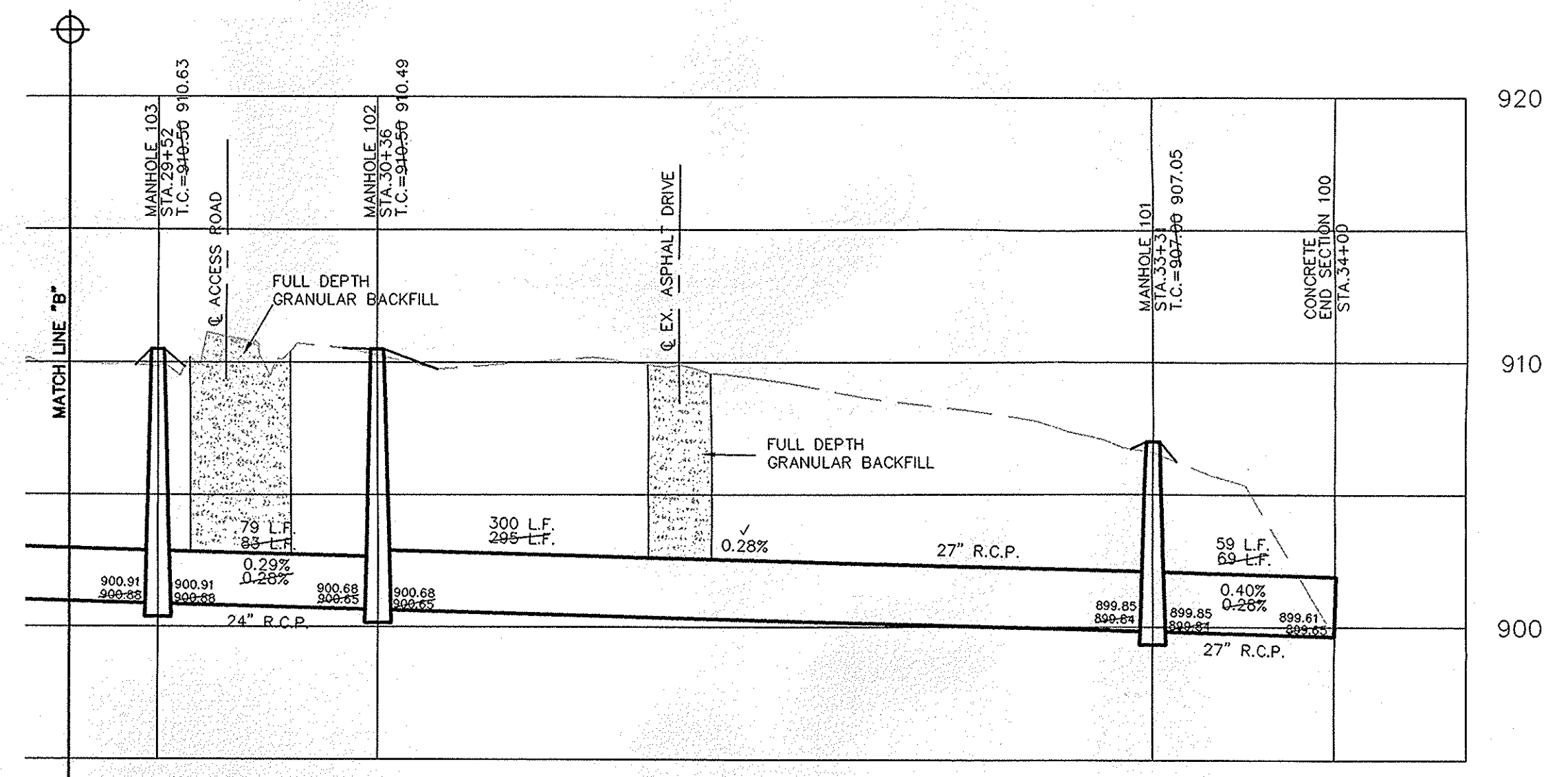
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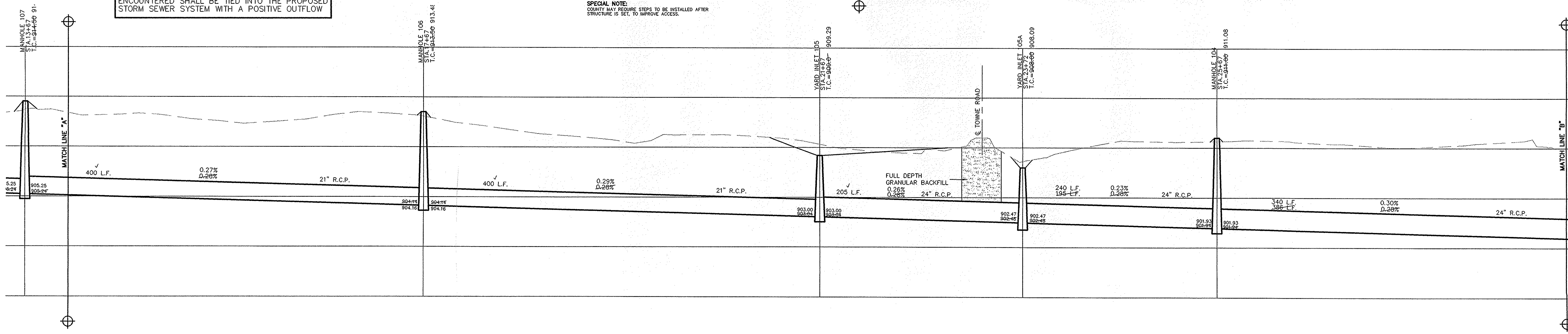
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SCALE: 1"= 50'



CONSULTING ENGINEERS - LAND SURVEYORS
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 FISHERS INDIANA



OFFSITE STORM SEWER PLAN & PROFILE
 HEATHER KNOLL
 SECTION 1
 CARMEL INDIANA

SHEET NO.
C603
 JOB NO. 47175S1