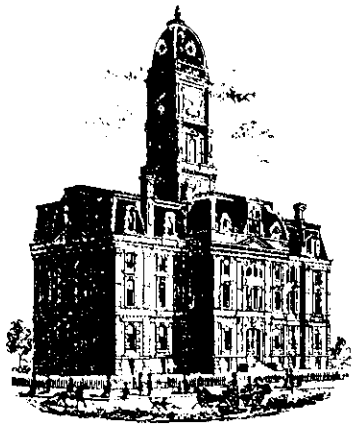

SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor
Phone (317) 776-8495
Fax (317) 776-9628

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

May 28, 2004

To: Hamilton County Drainage Board

Re: The Intracoastal at Geist Drain, Section 4A Arm

Attached is a petition filed by Centex Homes along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Section 4A Arm, The Intracoastal at Geist Drain to be located in Fall Creek Township. I have reviewed the submittals and petition and have found each to be in property 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 cost, 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:

6" SSD	1,519 ft	15" RCP	176 ft
12" RCP	348 ft	18" RCP	174 ft

The total length of the drain will be 2,217 feet.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs. Only the main SSD lines which are located within the right-of-way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain.

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 $5.00 per acre for common areas (and platted lots), $65.00 for platted lots, $10.00 per acre for roadways, with a $65.00 minimum per tract. With this assessment the total annual assessment for this drain/this section will be $1,333.60.

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The petition has submitted surety for the proposed drain at this time. Surety shall be submitted prior to the approval of the Hamilton County Board of Commissioners/commencement of construction. The sureties which are in the form of a Performance Bond/Letter of Credit are as follows:

Agent: Arch Insurance Company
Date: February 4, 2004
Number: SU5005342
For: Storm Sewers
Amount: $50,932.00

Agent: Arch Insurance Company
Date: February 4, 2004
Number: SU5005343
For: Erosion Control
Amount: $4,747.00

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 that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. This request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for The Intracoastal at Geist Section 4A as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for June 28, 2004.

Kenton C. Ward
Hamilton County Surveyor

KCW/llm

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CENTEX HOMES

Corporate Office

8440 Allison Pointe
Suite 200
Indianapolis, IN 46250

Phone: 317-915-2200

February 5, 2004

Steve Cash
Hamilton County Surveyor
One Hamilton County Square
Noblesville, IN 46060

RE: The Intracoastal at Geist; Section 4A
Engineer's Estimate and Performance Bonds

Dear Mr. Cash:

Enclosed are the engineer's estimate and performance bonds no. SU 5005342, SU 5005343, & SU 5005344 in the amounts of $50,932.00, $4,747.00, & $780.00 for storm sewer, erosion control, and monuments & markers for the above referenced project, which matches the amount shown on the engineer's estimate and are in the name of the Hamilton County Board of Commissioners.

Please contact me with any questions or concerns.

Sincerely,
CENTEX HOMES

Gregg Lecher
Land Development Estimator

GRL/grl

FILED
FEB 05 2004
HAMILTON COUNTY SURVEYOR

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CONSULTING ENGINEERS • LAND SURVEYORS

David J. Stoeppelwerth, P.E., P.L.S.
President, C.E.O.

Curtis C. Huff, P.L.S.
Vice-President, C.O.O.

R.M. Stoeppelwerth, P.E., P.L.S.
President Emeritus

January 29, 2004

Hamilton County Surveyor
One Hamilton County Square
Suite 188
Noblesville, Indiana 46060

Attention: Jerry Liston

Re: The Intracoastal at Geist, Section 4A

Dear Mr. Liston:

Please accept the following Engineer's Estimate for The Intracoastal at Geist, Section 4A. The amounts are as follows:

Engineer's Estimate: The Intracoastal at Geist Section 4A

Description	Quantity	Unit	Unit Price	Total
Storm Sewer				
Curb Inlet	4	EA	$2,095.55	$8,382.20
Storm Manhole	2	EA	$1,906.63	$3,813.26
Yard Inlet	2	EA	$926.30	$1,852.60
4" x 6" Subsurface Drain Wyes	20	LF	$46.95	$939.00
4" Subsurface Lateral Drain w/ Bedding & Backfill	200	LF	$4.95	$990.00
6" Subsurface Curb Drain w/ Bedding & Backfill	1,670	LF	$5.25	$8,767.50
12" RCP Pipe, CL. III w/ Bedding & Backfill	348	LF	$22.83	$7,944.84
15" RCP Pipe, CL. III w/ Bedding & Backfill	176	LF	$24.94	$4,389.44
18" RCP Pipe, CL. III w/ Bedding & Backfill	174	EA	$27.79	$4,835.46
Rip Rap, Shoreline	4,080	TON	$2.21	$9,016.80
Total				**$50,931.10**
Erosion Control				
Temporary Seeding	25,050	SF	$0.04	$1,002.00
Silt Fence	1,660	LF	$1.25	$2,075.00
Inlet Protection	1	LSUM	$170.00	$170.00
Construction Entrance	1	LSUM	$1,500.00	$1,500.00
Total				**$4,747.00**

FILED
FEB 05 2004
OFFICE OF HAMILTON COUNTY SURVEYOR

9940 Allisonville Road • Fishers, Indiana 46038-2005 • (317) 849-5935 • 1-800-728-6876 FAX: (317) 849-5942

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Streets					
Curb		1,670	LF	$5.90	$9,853.00
1" HAC Surface		2,787	SY	$2.15	$5,992.05
Tack Coat		2,787	SY	$0.10	$278.70
3" HAC Binder		2,787	SY	$4.82	$13,433.34
2.5" #53 Stone Base		3,158	SY	$1.41	$4,452.78
2.5" #53 Stone Base		2,787	SY	$1.42	$3,957.54
4" #2 Stone Base		3,158	SY	$2.27	$7,168.66
Stop Sign		1	EA	$295.00	$295.00
Street Name Sign		1	EA	$495.00	$495.00
Speed Limit Sign		2	EA	$295.00	$590.00
	Total				**$46,516.07**
Monuments/Markers					
Copperwelds		6	EA	$130.00	$780.00
	Total				**$780.00**
	Grand Total				**$102,974.17**

Witness my signature this 29th day of JANUARY, 2004.

David J. Stoeppelwerth
Professional Engineer
No. 19358

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

S/34090S4A/Agency/EngEst

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SUBDIVISION BOND

HCDB-2004-00010

Bond No. SU 5005342

KNOW ALL MEN BY THESE PRESENTS, that we CENTEX HOMES, a Nevada General Partnership

as Principal, and ARCH INSURANCE COMPANY

authorized to do business in the State of INDIANA, as Surety, are held and firmly bound unto HAMILTON COUNTY BOARD OF COMMISSIONERS

as Obligee, in the penal sum of Fifty Thousand Nine Hundred Thirty Two and 00/100 -- ($ 50,932.00) DOLLARS, lawful money of the United States of America, for the payment of which well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, CENTEX HOMES, a Nevada General Partnership

has agreed to construct in The Intracoastal at Geist, Section 4A

the following improvements: Storm Sewer

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall construct, or have constructed, the improvements herein described and shall save the Obligee harmless from any loss, cost or damage by reason of its failure to complete said work, then this obligation shall be null and void; otherwise to remain in full force and effect.

Signed, sealed and dated this 4th day of February, 2004.

CENTEX HOMES, a Nevada General Partnership

Principal

By: [signature]

ARCH INSURANCE COMPANY

By: [signature]

Allyson Dean — Attorney-in-Fact

S-3689/GEEF 2/98 This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, IN 46060

POWER OF ATTORNEY

Know All Men By These Presents:

That the Arch Insurance Company, a corporation organized and existing under the laws of the State of Missouri, having its principal office in Kansas City, Missouri (hereinafter referred to as the "Company") does hereby appoint

Brian M. Lebow, Deborah Griffith, Carmen Mims and Allyson Dean of Dallas, TX (EACH)

its true and lawful Attorney(s)-in-Fact, to make, execute, seal, and deliver from the date of issuance of this power for and on its behalf as surety, and as its act and deed:

Any and all bonds and undertakings

EXCEPTION: NO AUTHORITY is granted to make, execute, seal and deliver bonds or undertakings that guarantee the payment or collection of any promissory note, check, draft or letter of credit.

This authority does not permit the same obligation to be split into two or more bonds in order to bring each such bond within the dollar limit of authority as set forth herein.

The Company may revoke this appointment at any time.

The execution of such bonds and undertakings in pursuance of these presents shall be as binding upon the said Company as fully and amply to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal office in Kansas City, Missouri.

This Power of Attorney is executed by authority of resolutions adopted by unanimous consent of the Board of Directors of the Company on March 3, 2003, true and accurate copies of which are hereinafter set forth and are hereby certified to by the undersigned Secretary as being in full force and effect:

"VOTED, That the Chairman of the Board, the President, or any Vice President, or their appointees designated in writing and filed with the Secretary, or the Secretary shall have the power and authority to appoint agents and attorneys-in-fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings, obligatory in the nature thereof, and any such officers of the Company may appoint agents for acceptance of process."

This Power of Attorney is signed, sealed and certified by facsimile under and by authority of the following resolution adopted by the unanimous consent of the Board of Directors of the Company on March 3, 2003:

VOTED, That the signature of the Chairman of the Board, the President, or any Vice President, or their appointees designated in writing and filed with the Secretary, and the signature of the Secretary, the seal of the Company, and certifications by the Secretary, may be affixed by facsimile on any power of attorney or bond executed pursuant to the resolution adopted by the Board of Directors on March 3, 2003, and any such power so executed, sealed and certified with respect to any bond or undertaking to which it is attached, shall continue to be valid and binding upon the Company.

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SUBDIVISION BOND

HCDB-2004-00011

Bond No. **SU 5005343**

KNOW ALL MEN BY THESE PRESENTS, that we CENTEX HOMES, a Nevada General Partnership

as Principal, and ARCH INSURANCE COMPANY

authorized to do business in the State of INDIANA , as Surety, are held and firmly bound unto

HAMILTON COUNTY BOARD OF COMMISSIONERS

as Obligee, in the penal sum of Four Thousand Seven Hundred Forty Seven and 00/100 ---------- ($ 4,747.00) DOLLARS, lawful money of the United States of America, for the payment of which well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, CENTEX HOMES, a Nevada General Partnership has agreed to construct in The Intracoastal at Geist, Section 4A the following improvements: Erosion Control

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall construct, or have constructed, the improvements herein described and shall save the Obligee harmless from any loss, cost or damage by reason of its failure to complete said work, then this obligation shall be null and void; otherwise to remain in full force and effect.

Signed, sealed and dated this 4th day of February, 2004.

CENTEX HOMES, a Nevada General Partnership
Principal

By: _____

ARCH INSURANCE COMPANY

By: _____
Allyson Dean
Attorney-in-Fact

 This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

POWER OF ATTORNEY

Know All Men By These Presents:

That the Arch Insurance Company, a corporation organized and existing under the laws of the State of Missouri, having its principal office in Kansas City, Missouri (hereinafter referred to as the "Company") does hereby appoint

Brian M. Lebow, Deborah Griffith, Carmen Mims and Allyson Dean of Dallas, TX (EACH)

its true and lawful Attorney(s)-in-Fact, to make, execute, seal, and deliver from the date of issuance of this power for and on its behalf as surety, and as its act and deed:

Any and all bonds and undertakings

EXCEPTION: NO AUTHORITY is granted to make, execute, seal and deliver bonds or undertakings that guarantee the payment or collection of any promissory note, check, draft or letter of credit.

This authority does not permit the same obligation to be split into two or more bonds in order to bring each such bond within the dollar limit of authority as set forth herein.

The Company may revoke this appointment at any time.

The execution of such bonds and undertakings in pursuance of these presents shall be as binding upon the said Company as fully and amply to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal office in Kansas City, Missouri.

This Power of Attorney is executed by authority of resolutions adopted by unanimous consent of the Board of Directors of the Company on March 3, 2003, true and accurate copies of which are hereinafter set forth and are hereby certified to by the undersigned Secretary as being in full force and effect:

"VOTED, That the Chairman of the Board, the President, or any Vice President, or their appointees designated in writing and filed with the Secretary, or the Secretary shall have the power and authority to appoint agents and attorneys-in-fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings, obligatory in the nature thereof, and any such officers of the Company may appoint agents for acceptance of process."

This Power of Attorney is signed, sealed and certified by facsimile under and by authority of the following resolution adopted by the unanimous consent of the Board of Directors of the Company on March 3, 2003:

VOTED, That the signature of the Chairman of the Board, the President, or any Vice President, or their appointees designated in writing and filed with the Secretary, and the signature of the Secretary, the seal of the Company, and certifications by the Secretary, may be affixed by facsimile on any power of attorney or bond executed pursuant to the resolution adopted by the Board of Directors on March 3, 2003, and any such power so executed, sealed and certified with respect to any bond or undertaking to which it is attached, shall continue to be valid and binding upon the Company.

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SUBDIVISION BOND

HCDB-2004-00012

Bond No. **SU 5005344**

KNOW ALL MEN BY THESE PRESENTS, that we CENTEX HOMES, a Nevada General Partnership

as Principal, and ARCH INSURANCE COMPANY

authorized to do business in the State of INDIANA , as Surety, are held and firmly bound unto

HAMILTON COUNTY BOARD OF COMMISSIONERS

as Obligee, in the penal sum of Seven Hundred Eighty and 00/100 ---------- ($ 780.00) DOLLARS, lawful money of the United States of America, for the payment of which well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, CENTEX HOMES, a Nevada General Partnership has agreed to construct in The Intracoastal at Geist, Section 4A

the following improvements: Monuments & Markers

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall construct, or have constructed, the improvements herein described and shall save the Obligee harmless from any loss, cost or damage by reason of its failure to complete said work, then this obligation shall be null and void; otherwise to remain in full force and effect.

Signed, sealed and dated this 4th day of February , 2004 .

CENTEX HOMES, a Nevada General Partnership
Principal

By: _____

ARCH INSURANCE COMPANY

By: _____
Allyson Dean
Attorney-in-Fact

S-3689/GEEF 2/98

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

POWER OF ATTORNEY

Know All Men By These Presents:

That the Arch Insurance Company, a corporation organized and existing under the laws of the State of Missouri, having its principal office in Kansas City, Missouri (hereinafter referred to as the "Company") does hereby appoint

Brian M. Lebow, Deborah Griffith, Carmen Mims and Allyson Dean of Dallas, TX (EACH)

its true and lawful Attorney(s)-in-Fact, to make, execute, seal, and deliver from the date of issuance of this power for and on its behalf as surety, and as its act and deed:

Any and all bonds and undertakings

EXCEPTION: NO AUTHORITY is granted to make, execute, seal and deliver bonds or undertakings that guarantee the payment or collection of any promissory note, check, draft or letter of credit.

This authority does not permit the same obligation to be split into two or more bonds in order to bring each such bond within the dollar limit of authority as set forth herein.

The Company may revoke this appointment at any time.

The execution of such bonds and undertakings in pursuance of these presents shall be as binding upon the said Company as fully and amply to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal office in Kansas City, Missouri.

This Power of Attorney is executed by authority of resolutions adopted by unanimous consent of the Board of Directors of the Company on March 3, 2003, true and accurate copies of which are hereinafter set forth and are hereby certified to by the undersigned Secretary as being in full force and effect:

"VOTED, That the Chairman of the Board, the President, or any Vice President, or their appointees designated in writing and filed with the Secretary, or the Secretary shall have the power and authority to appoint agents and attorneys-in-fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings, obligatory in the nature thereof, and any such officers of the Company may appoint agents for acceptance of process."

This Power of Attorney is signed, sealed and certified by facsimile under and by authority of the following resolution adopted by the unanimous consent of the Board of Directors of the Company on March 3, 2003:

VOTED, That the signature of the Chairman of the Board, the President, or any Vice President, or their appointees designated in writing and filed with the Secretary, and the signature of the Secretary, the seal of the Company, and certifications by the Secretary, may be affixed by facsimile on any power of attorney or bond executed pursuant to the resolution adopted by the Board of Directors on March 3, 2003, and any such power so executed, sealed and certified with respect to any bond or undertaking to which it is attached, shall continue to be valid and binding upon the Company.

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In Testimony Whereof, the Company has caused this instrument to be signed and its corporate seal to be affixed by their authorized officers, this 24th day of November, 20 03.

Attested and Certified

Arch Insurance Company

Joseph S. Labell, Corporate Secretary

Thomas P. Luckstone, Vice President

STATE OF CONNECTICUT SS

COUNTY OF FAIRFIELD SS

I Melissa B. Gilligan, a Notary Public, do hereby certify that Thomas P. Luckstone and Joseph S. Labell personally known to me to be the same persons whose names are respectively as Vice President and Corporate Secretary of the Arch Insurance Company, a Corporation organized and existing under the laws of the State of Missouri, subscribed to the foregoing instrument, appeared before me this day in person and severally acknowledged that they being thereunto duly authorized signed, sealed with the corporate seal and delivered the said instrument as the free and voluntary act of said corporation and as their own free and voluntary acts for the uses and purposes therein set forth.

OFFICIAL SEAL
MELISSA B. GILLIGAN, Notary Public
State of Connecticut
My Commission Expires February 28, 2005

Melissa B. Gilligan, Notary Public
My commission expires 2-28-05

CERTIFICATION

I, Joseph S. Labell, Corporate Secretary of the Arch Insurance Company, do hereby certify that the attached Power of Attorney dated November 24, 2003 on behalf of the person(s) as listed above is a true and correct copy and that the same has been in full force and effect since the date thereof and is in full force and effect on the date of this certificate; and I do further certify that the said Thomas P. Luckstone, who executed the Power of Attorney as Vice President, was on the date of execution of the attached Power of Attorney the duly elected Vice President of the Arch Insurance Company.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the Arch Insurance Company on this 4TH day of FEBRUARY, 20 04.

Joseph S. Labell, Corporate Secretary

This Power of Attorney limits the acts of those named therein to the bonds and undertakings specifically named therein and they have no authority to bind the Company except in the manner and to the extent herein stated.

Home Office: Kansas City, MO

00ML0013 00 03 03

Printed in U.S.A.

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FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

The Intracoastal at Geist Drain, Section 4A Arm

On this ***28th day of June, 2004***, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the ***Intracoastal at Geist Drain, Section 4A 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:

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: The Intracoastal at Geist, Sections 2C, 3A, 3B & 4A

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.

Signature: Jeffory W Darling Date: January 21, 2005

Type or Print Name: Jeffory W. Darling

Business Address: Stoeppelwerth & Associates, Inc.

9940 Allisonville Road, Fishers, Indiana 46038

Telephone Number: (317) 849-5935

SEAL

INDIANA REGISTRATION NUMBER

900017

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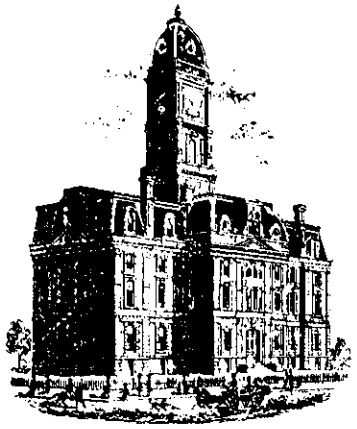

SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor
Phone (317) 776-8495
Fax (317) 776-9628

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

To: Hamilton County Drainage Board

August 31, 2005

Re: Intracoastal at Geist Drain – Section 4A Arm

Attached are as-builts, certificate of completion & compliance, and other information for Intracoastal at Geist Section 4A. 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 May 28, 2004. The report was approved by the Board at the hearing held June 28, 2004. (See Drainage Board Minutes Book 7, Pages 483-484)
The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn_Invert	Grade:	Changes:
151-150	131	12	RCP	798.13	797.6	0.4	-9
150-149	28	15	RCP	797.6	797.5	0.39	
149-148	45	18	RCP	797.5	797.43	0.16	
148-146	130	18	RCP	797.43	796.93	0.38	-1
143B-143A	127	12	RCP	797.83	796.27	0.44	-11
143A-143	45	12	RCP	796.27	796.15	0.27	3
143-142	29	12	RCP	796.15	795.91	0.83	1
142-107	148	15	RCP	795.91	795.31	0.41	

6" SSD Streets:

Manteo Ct	337
Latitude Way	100.5
Odessa Cir	315
Totalx2:	1505

RCP Pipe Totals:

12	332
15	175
18	176
Total:	683

The length of the drain due to the changes described above is now **2188 feet.**

The non-enforcement was approved by the Board at its meeting on June 28, 2004 and recorded under instrument #200400058876.

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The following sureties were guaranteed by Arch Insurance Company and released by the Board on its August 22, 2005 meeting.

Bond-LC No: SU5005342
Insured For: Storm Sewers
Amount: $50,932
Issue Date: February 4, 2004

Bond-LC No: SU5005343
Insured For: Erosion Control
Amount: $4,747
Issue Date: February 4, 2004

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

Sincerely,

Kenton C. Ward,
Hamilton County Surveyor

KCW/slm

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AS BUILT

STORM TABLE

Str. No.	Type	Tc/Rim	Inverts	Dir.
142	CURB INLET	800.91	795.91	(NE)(SW)
143	CURB INLET	801.00	796.15	(NE)(SW)
143A	MANHOLE	801.57	796.27	(NE)(SW)
143B	YARD INLET	799.13	797.83	(NE)
148	MANHOLE	804.18	797.43	(NE)
149	CURB INLET	803.10	797.50	(E)(SW)
150	CURB INLET	803.20	797.60	(E)(W)
151	YARD INLET	800.63	798.13	(E)

NOTE: 1.THE EXISTING PAVEMENT AND CURB MUST BE SAW AND CUT TO PROVIDE A SMOOTH TRANSITION ON ALL STUB STREET CONNECTIONS TO SECTION 2A.

NOTE: 2. CONTRACTOR SHALL STAMP THE LETTERS "SS" IN THE CURB PERPINDICULAR TO THE LATERAL MARKER.

BENCHMARK:
(VERTICAL DATUM–NAVD1988)
HSE 9
HSE DISC IN CONCRETE AT WEST BOUNDARY
OF THE INTRACOASTAL. SET 70'± SOUTH
OF 113TH STREET 1/4 MILE WEST OF FLORIDA ROAD.

ELEV.=808.39

(HORIZONTAL DATUM–NAD1983)
G217
CENTER OF SECTION 06–T17N–6E
5/8" REBAR(1996).

S.&A. #1
(VERTICAL DATUM–NAVD1988)
MINI–SPIKE IN THE SOUTH FACE OF POWER
POLE 24" UP. 376'± SOUTH OF 113TH STREET
446'± WEST OF FLORIDA ROAD.

ELEV.=795.76

RECORD DRAWING

Jeffory W Darling 1/11/05
JEFFORY W. DARLING DATE
Registered Land Surveyor
No. 900017

JEFFORY W. DARLING REGISTERED No. 900017 STATE OF INDIANA LAND SURVEYOR

HAMILTON COUNTY INDIANA 1823

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 8-9-05

Entered by: SLM

LEGEND

- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE
- PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED 4' SIDEWALK (BY HOME BUILDER)
- M.E. MATCH EXISTING
- 31 LOT NUMBER
- N.P. NO PAD
- M.F.F. = MINIMUM FINISH FIRST FLOOR ELEVATION
- M.F.G. = MINIMUM FINISH GRADE AROUND HOME (FLOOD PROTECTION GRADE = 791.4)

SCALE: 1"= 60'

DENOTES 4" SUBSURFACE DRAIN TO LOT (PER HAMILTON COUNTY SURVEYOR'S OFFICE STANDARDS)
DENOTES 6" SUBSURFACE DRAIN
ROLL CURB

NOTE: DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, LANDSCAPING MOUNDS, LIGHT POLES, OR OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT OF WAY.

NOTE: ALL OFF–SITE DRAIN TILES SHALL BE TIED INTO THE PROPOSED STORM SYSTEM OF THIS SECTION (WHERE APPLICABLE).

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.

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.

"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 EXISITING 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.

BY	REVISIONS	DATE	MARK
RKG	AS BUILT	1/11/05	
CEF	REVISED SIP–MAP FROM SHORELINE PER BETELGUPER	1/22/04	
CEF	REV. EASEMENT ON LOTS 97 & 98	1/13/04	

DRN. BY BMK
CK. BY CEF
SCALE 1"=60'
DATE 10/31/03

CERTIFIED: 10/31/03

David J. Stoeppelwerth

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

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

SITE DEVELOPMENT PLAN
THE INTRACOASTAL AT GEIST SECTION 4A

HAMILTON COUNTY INDIANA

SHEET NO. C200

JOB NO. 34090

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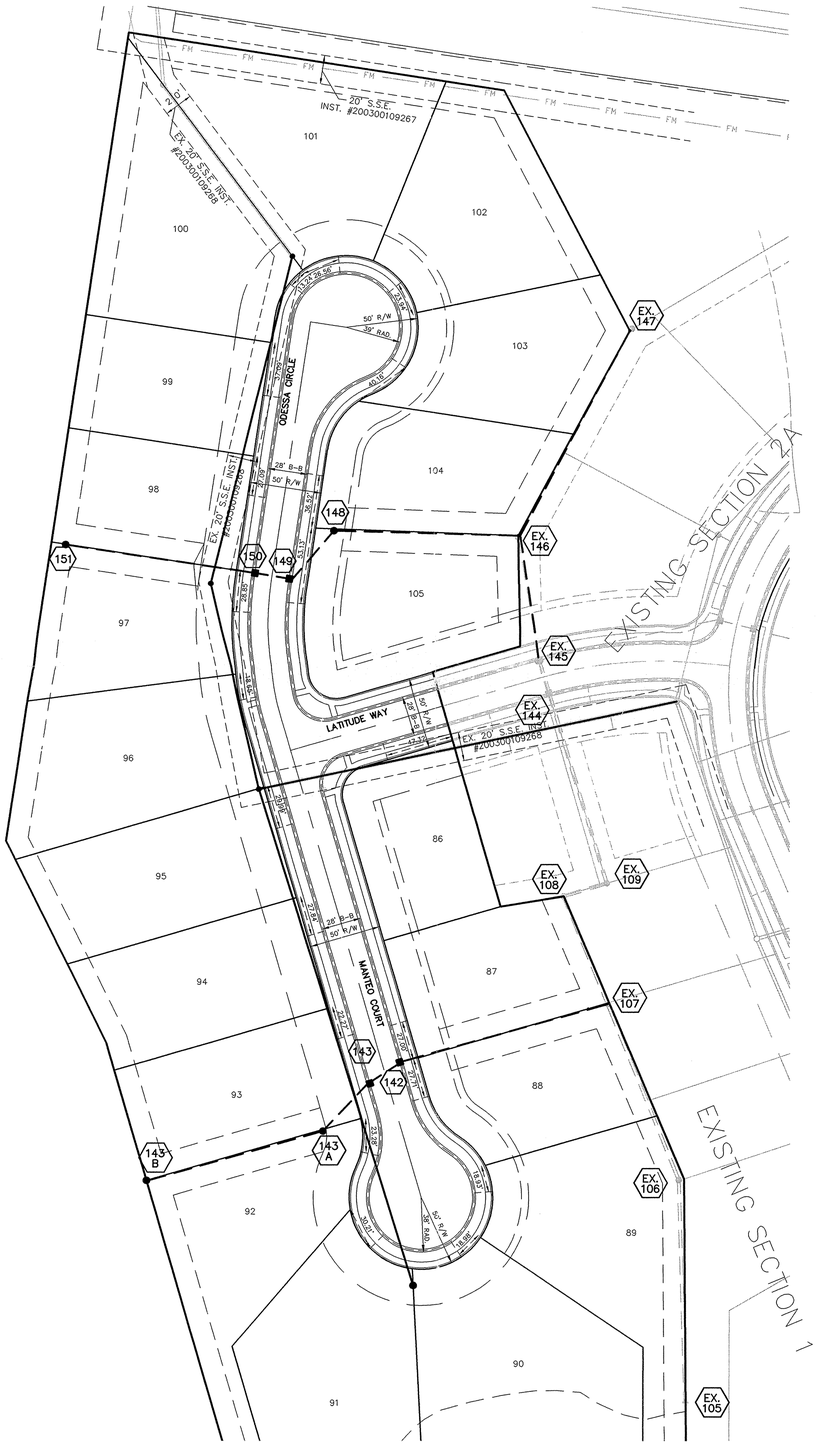
RECORD DRAWING

Jeffory W. Darling 1/7/05
JEFFORY W. DARLING DATE
Registered Land Surveyor
No. 900017

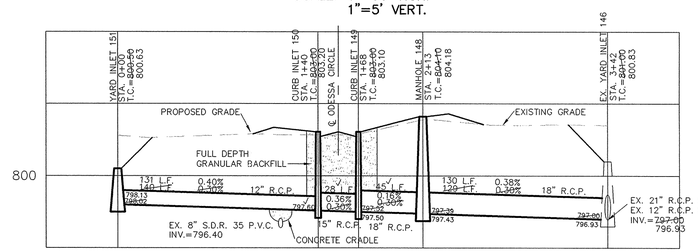
JEFFORY W. DARLING REGISTERED No. 900017 STATE OF INDIANA LAND SURVEYOR



SCALE: 1"= 50'

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

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



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."

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
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
24" or LARGER		MH/BOX	DESIGN APPROVAL	Yes**	Yes	Yes

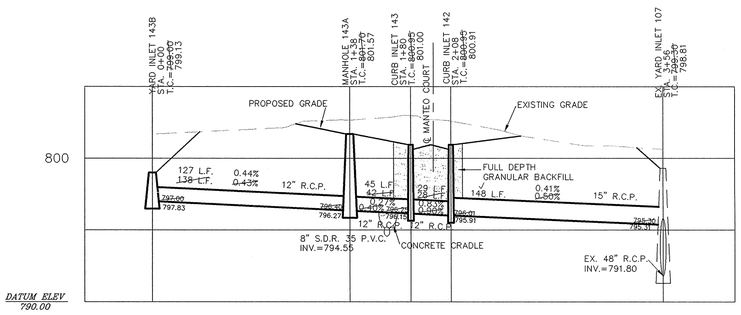
* PIPES NO LARGER THAN 18" CAN BE USED IN THE 2' SIDE OF THIS BOX
** INCOMING AND OUT GOING PIPES EFFECT STEPS IN THIS STRUCTURE

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.

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.

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



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BY	REVISIONS	DATE	MARK
RKG	AS BUILT	1/7/05	

CERTIFIED: 10/31/03
David J. Stoeppelwerth

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CONSULTING ENGINEERS – LAND SURVEYORS
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STORM PLAN AND PROFILE
THE INTRACOASTAL AT GEIST SECTION 4A
HAMILTON COUNTY INDIANA

SHEET NO. C600

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