Drain: INTRACOASTAL AT GEIST **Drain #:** 334
Improvement/Arm: SECTIONS 2A, 2C & 3A
Operator: JH, JWL **Date:** 3-30-04
Drain Classification: Urban/Rural **Year Installed:** 2003

GIS Drain Input Checklist

- Pull Source Documents for Scanning — JH
- Digitize & Attribute Tile Drains
- Digitize & Attribute Storm Drains
- Digitize & Attribute SSD
- Digitize & Attribute Open Ditch
- Stamp Plans
- Sum drain lengths & Validate
- Enter Improvements into Posse — LLM
- Enter Drain Age into Posse — JWL 3-30
- Sum drain length for Watershed in Posse — JWL 3-30
- Check Database entries for errors

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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

December 18, 2003

To: Hamilton County Drainage Board

Re: The Intracoastal at Geist Drain, Section 3A 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 3A 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 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:

6" SSD	684 ft.	42" RCP	35 ft.	Open Ditch	10 ft.
12" RCP	24 ft.	48" RCP	310 ft.		

The total length of the drain will be 1,063 feet.

The portion of open ditch listed above is that section between Structure 156 and the 12" RCP in the 113th Street right-of-way under the walking path.

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, $65.00 for platted lots, $ 10.00 per acre for roadways, with a $65.00 minimum. With this assessment the total annual assessment for this drain/this section will be $ 795.30.

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The petitioner 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 are as follows:

Agent: Safeco Insurance Co. of America
Date: September 12, 2003
Number: 6236224
For: Erosion Control
Amount: $4,325.56

Agent: Safeco Insurance Co. of America
Date: September 12, 2003
Number: 6236223
For: Storm Sewer
Amount: $40,233.00

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. The 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 3A as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for January 26, 2004.

Kenton C. Ward
Hamilton County Surveyor

KCW/pll

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HCDB-2003-00077

SUBDIVISION BOND

FILE COPY

Bond No. 6236224

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

as Principal, and SAFECO INSURANCE COMPANY OF AMERICA

authorized to do business in the State of Indiana, as Surety, are held and firmly bound unto Hamilton County Board of Commissioners, IN

as Obligee, in the penal sum of Four Thousand Three Hundred Twenty Five and 56/100 ---------- ($ 4,325.56) 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 3A

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 12th day of September, 2003.

CENTEX HOMES, a Nevada General Partnership
Principal

By: [signature]

SAFECO INSURANCE COMPANY OF AMERICA

By: [signature]
ALLYSON DEAN
Attorney-in-Fact

S-3689/GEEF 2/98

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SUBDIVISION BOND

FILE COPY

HCDB-2003-00074

Bond No. 6236223

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

as Principal, and SAFECO INSURANCE COMPANY OF AMERICA

authorized to do business in the State of Indiana, as Surety, are held and firmly bound unto Hamilton County Board of Commissioners, IN

as Obligee, in the penal sum of Forty Thousand Two Hundred Thirty Three and 00/100 ($ 40,233.00) 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 3A

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 12th day of September, 2003.

CENTEX HOMES, a Nevada General Partnership
Principal

By: [signature]

SAFECO INSURANCE COMPANY OF AMERICA

By: [signature]
ALLYSON DEAN
~~Attorney-in~~-Fact

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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

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

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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 3A Arm

Attached are as-builts, certificate of completion & compliance, and other information for Intracoastal at Geist Section 3A. 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 18, 2003. The report was approved by the Board at the hearing held January 26, 2004. (See Drainage Board Minutes Book 7, Pages 327-329)
The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn_Invert	Grade:	Changes:
156A-156	34	42	RCP	805.62	804.7	2.71	-1
156-155	135	48	RCP	803.8	801.96	1.36	
155-154	29	48	RCP	801.96	801.7	0.9	
154-EX	147	48	RCP	801.7	795.48	4.23	1
100-101	24	12	RCP	809.24	809.24		

6" SSD Streets:	
Starboard Rd	409
TotalX2:	818

RCP Pipe Totals:	
12	24
42	34
48	311
Total:	369

Other Drain:	
OPEN	10
Total:	10

The length of the drain due to the changes described above is now **1197 feet**.

The non-enforcement was approved by the Board at its meeting on January 26, 2004 and recorded under instrument #200500005637.

The following sureties were guaranteed by Mutual Federal Savings Bank and released by the Board on its August 22, 2005 meeting.

Bond-LC No: 6236223 **Bond-LC No:** 6236224

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Insured For: Storm Sewers
Amount: $40,223
Issue Date: September 12, 2003

Insured For: Erosion Control
Amount: $4325.56
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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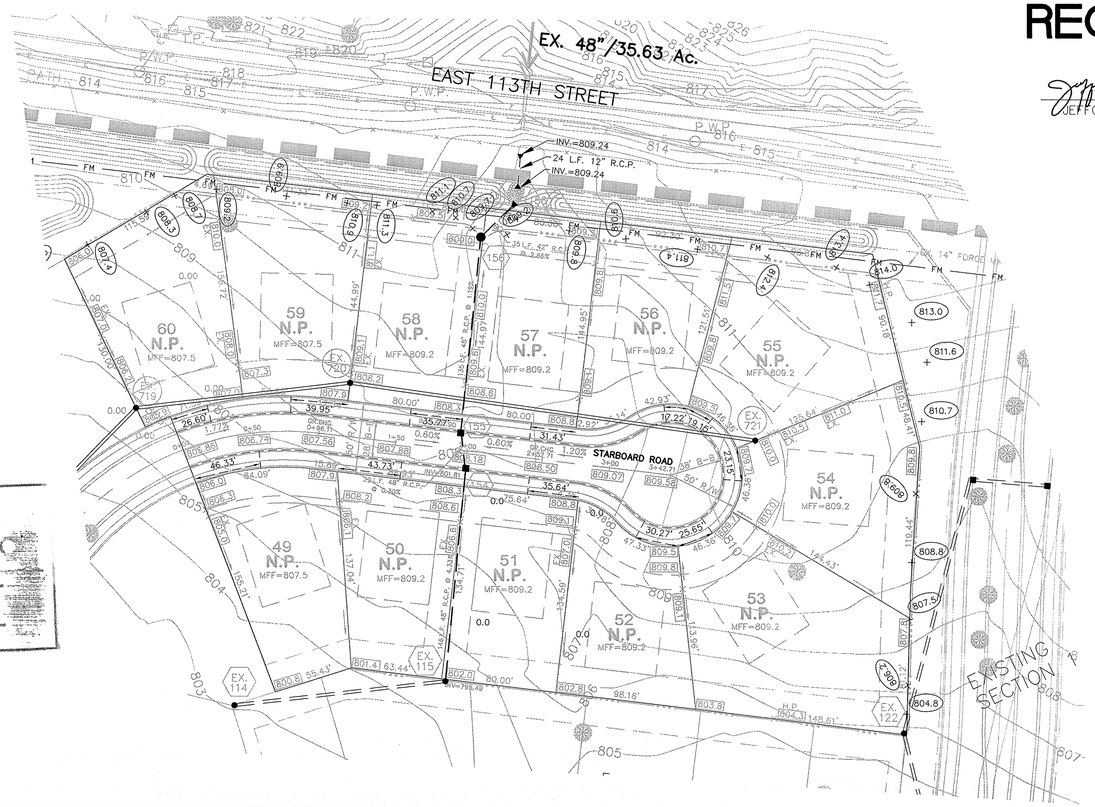
RECORD DRAWING

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

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



LEGEND

- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE
- PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED 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"= 50'

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

CERTIFIED: 8/4/03

- DENOTES 4" SUBSURFACE DRAIN TO LOT
- DENOTES 6" SUBSURFACE DRAIN
- ROLL CURB

(PER HAMILTON COUNTY SURVEYOR'S OFFICE STANDARDS)

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.

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

AS BUILT

STORM TABLE

Str. No.	Type	Tc/Rim	Inverts	Dir.	Inverts	Dir.
154	CURB INLET W/MH	808.03	801.70	(N)(S)		
155	CURB INLET W/MH	808.11	801.96	(N)(S)		
156	YARD INLET	809.00	803.80	(S)	804.50	(NE)
156A	CONCRETE END SECTION		805.62	(SW)		

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

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.

HAMILTON COUNTY INDIANA 1823

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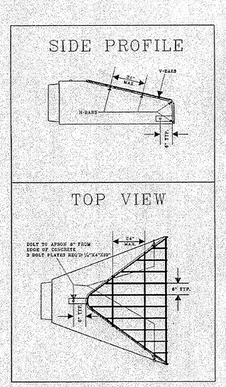
Entry Date: 8-15-2005
Entered by: SLM

OFFICE OF THE HAMILTON COUNTY SURVEYOR

DEBRIS GUARD



	Apron Size Inches	V-bar Size Inches	No. of H-bars Req'd	H-bar Size Inches	Bolt Dia. Inches	"A" Dim. Inch.
Arch pipe aprons	18	1/2	3	5/8	1/2	5
	24	5/8	4	3/4	1/2	7
	30	5/8	4	3/4	1/2	7 1/2
	36	3/4	4	1	1/2	10 1/2
	42	3/4	4	1	3/4	11
	48	3/4	4	1½pipe	3/4	12
	54	3/4	4	1½pipe	3/4	12
	60	3/4	5	1½pipe	3/4	14
	72	3/4	5	1½pipe	3/4	14
	84	3/4	6	1½pipe	3/4	15
Round pipe aprons	12	1/2	3	5/8	1/2	4
	15	1/2	3	5/8	1/2	4 1/2
	18	1/2	4	5/8	1/2	4 1/2
	21	1/2	4	5/8	1/2	5
	24	5/8	4	3/4	1/2	5
	27	5/8	4	3/4	1/2	5 1/2
	30	5/8	4	3/4	1/2	5 1/2
	36	3/4	4	1	3/4	6
	42	3/4	4	1	3/4	8
	48	3/4	5	1	3/4	8
	54	3/4	5	1½pipe	3/4	8
	60	3/4	5	1½pipe	3/4	8
	66	3/4	6	1½pipe	3/4	8
	72	3/4	6	1½pipe	3/4	9
	84	3/4	7	1½pipe	3/4	10
	90	3/4	7	1½pipe	3/4	14

NOTES:
1. BARS & PLATES ARE HOT-ROLLED STEEL.
2. BARS, PLATES, & PIPIE ARE FINISHED WITH 2 COATS OF ALUMINUM PAINT.
3. BOLTS ARE GALVINIZED
4. NO REBAR THROUGH PIPES WILL BE ALLOWED
5. DEBRIS GUARD SHALL BE REMOVABLE

(DRAWING NOT TO SCALE)

HAMILTON COUNTY SURVEYOR'S OFFICE

REVISED: 1 JAN.

APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 4 JAN 00

STANDARD PLAN D-12

MARK	DATE	REVISIONS	BY
	1/11/05	AS BUILT	RKG
	10/2/03	REV. STORM PER DEVELOPER CHANGES	EEF
	9/8/03	MOVED SWALE PER DEVELOPER	BMK
	9/4/03	REV. PER TAC COMMENTS	BMK

DWN. BY: BMK
CK. BY: EEF
SCALE: 1"=50'
DATE: 8/4/03

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 3A

HAMILTON COUNTY INDIANA

SHEET NO. C200

JOB NO. 34090

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CURB INLET TABLE

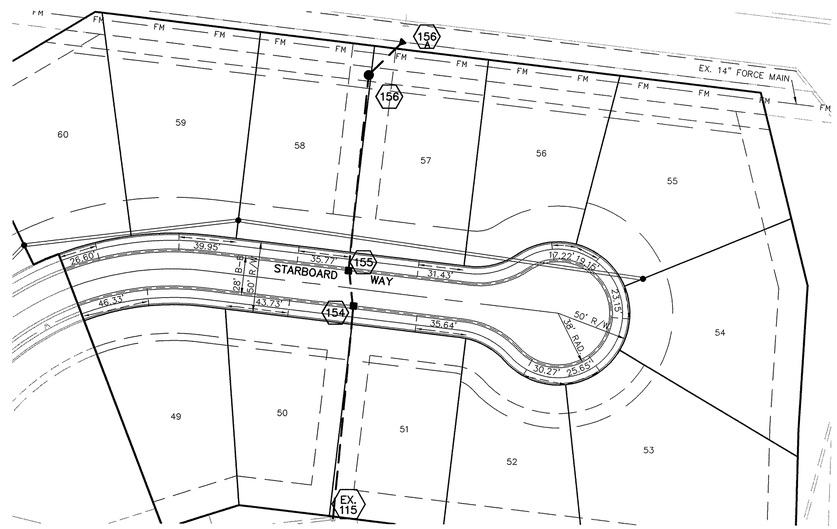
PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-3501 N	CASTING *3501 TL & TR
12" to 18"	24"x24"		DESIGN APPROVAL	No	Yes	Yes
12" to 21"	30"x30"		DESIGN APPROVAL	No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

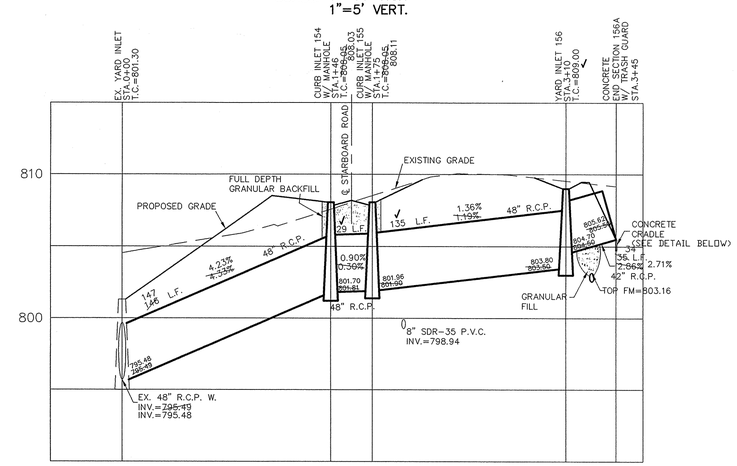


SCALE: 1"= 50'

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."

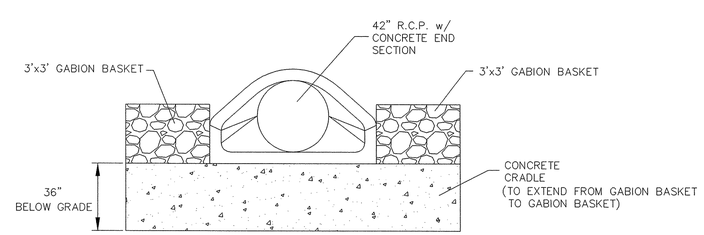
SCALE: 1"=50' HOR.
1"=5' VERT.



RECORD DRAWING

JEFFORY W. DARLING — 1/4/05
JEFFORY W. DARLING — DATE
Registered Land Surveyor
No. 900017

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



STRUCTURE 156A DETAIL
(NOT-TO-SCALE)

HAMILTON COUNTY INDIANA 1823
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Entry Date: 8-15-2005
Entered by: SLM

SCALE: 1"= 50'

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

CERTIFIED: 8/4/03

DWN. BY	BMK	1/4/05	AS BUILT	RKG
CK. BY	EEF	2/28/03	AS BUILTS	BJH
SCALE	1"=50'	10/8/03	ADD STR. 156A DETAIL	EEF
DATE	8/4/03	10/2/03	REV. STORM LAYOUT PER DEVELOPER	EEF
		9/3/03	REVISED PER T&C COMMENTS	BMK
		DATE	MARK	REVISIONS BY

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

STORM PLAN AND PROFILE
THE INTRACOASTAL AT GEIST
SECTION 3A
HAMILTON COUNTY INDIANA

SHEET NO. C600

JOB NO. 34090

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