



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

June 14, 2006

To: Hamilton County Drainage Board

Re: A J Myers Drain

Attached is a 52.0 petition and plans for the proposed relocation of the A J Myers Drain. The relocation is being proposed by Pulte Homes of Indiana. The proposal is to relocate the drain across Atlantic Road right-of-way and parcel 13-12-29-00-00-009.001 as part of the Britton Falls project per plans by Driesenga and Associates, Inc., Job No. 0560063.1A, revision date 4/13/2006. Per the plans, storm water will be intercepted on the east side of Atlantic Road at Str. 111 and piped to Str. 110 on the west side of Atlantic Road. This 52.0 petition is for that portion of the relocation project that crosses Atlantic Road from Str. 111 to Str. 110.

This ties into the storm line proposed under a separate A J Myers Drain relocation petition (52.5) that is designed to divert storm water north to a point upstream of the current outlet point and discharge into Thorpe creek 50 feet south of 136th and 390 feet west of Atlantic Road. Due to the relocation approved under the 52.5 hearing and this 52.0 petition we will now fully assess parcels 13-12-20-00-00-009.001 and 13-12-29-00-00-007.001.

This line will consist of the following:

94' of (2) 30" RCP

The total length of the new drain shall be 94 feet. The 73 feet of drain (temporary ditch) per my report dated June 9, 2006 between Sta. 0+00 (original drain) and Str. 110 of the new drainage system shall be reconstructed. This proposal will add 21 feet to the drain's total length.

The cost of the relocation is to be paid by Pulte Homes of Indiana. The developer has provided the Performance Bond as follows:

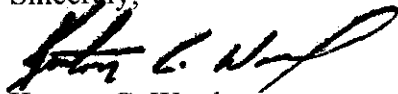
Name of Bonding Co.: Safeco Insurance Co. of Indiana
Bond #: 6414691
Bond Date: May 23, 2006
Bond Amount: \$430,242.00

Attached is a Non-enforcement and legal description. The easement for the new drain will be entirety of parcel 13-12-29-00-00-009.001 as recorded in the Hamilton County Recorder's office and includes the right-of-way of Atlantic Road.

I recommend that this drain be classified as an urban drain. This drain may be assessed to the Martha Ford Drain or Thorpe Creek Drain in the future.

The project falls under the requirements as set out in IC 36-9-27-52.0. Therefore, a hearing is required for the petition. I recommend that the Board set a hearing date for July 24, 2006.

Sincerely,



Kenton C. Ward
Hamilton County Surveyor

KCW/stc

HAMILTON COUNTY DRAINAGE BOARD
NOBLESVILLE, INDIANA

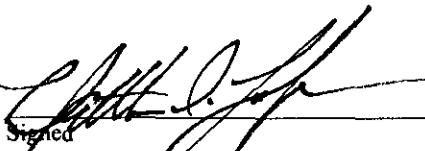
IN RE: A.J. Meyers Legal Drain)
Hamilton County, Indiana)

PETITION FOR RELOCATION AND RECONSTRUCTION

Pulte Homes of Indiana, LLC (hereinafter "Petitioner"),
hereby petitions the Hamilton County Drainage Board for authority to relocate and improve a
section of the A.J. Meyers Legal Drain, and in support of
said petition advises the Board that:

1. Petitioner owns real estate through which a portion of the A.J. Meyers Legal 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 A.J. Meyers Legal 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 A.J. Meyers Legal Drain, without cost to other property owners on the watershed of the A.J. Meyers Legal Drain.

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


Signed
MATTHEW D. LOHMEYER
Printed

**Britton Falls – AJ Meyers Relocation
GASB 34 Calculation**

The engineer's estimate total for this project is \$358,534.50. The project itself was split into two reports and subsequent hearings. The first report dated June 9, 2006 was approved on June 26, 2006. This covered 3,652 of the project. The second report was dated June 14, 2006 and was approved on July 24, 2006. This portion covered 93' of twin 30" RCP.

The dollar amount will be split as follows:

\$358,534.50
- <u>7,626.00</u> (186ft of 30 RCP)*
\$350,908.50

Therefore, part one of the project (June 9, 2006) will be priced at \$358,534.50 and part two (June 14, 2006) will be priced at \$7626.00.

*Pricing taken from the engineer's estimate provided by Driesenga & Associates Inc. dated May 23, 2006.

FINDINGS AND ORDER

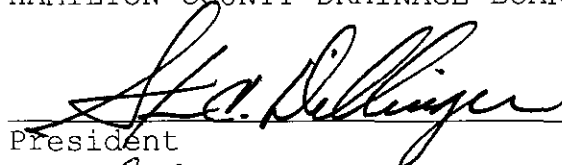
CONCERNING THE MAINTENANCE OF THE

A. J. Myers Drain, Britton Falls Relocation

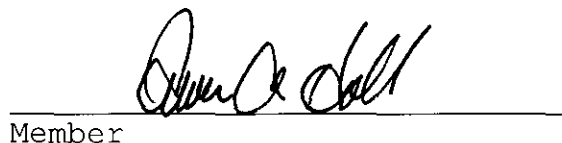
On this **24th day of July 2006**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **A. J. Myers Drain, Britton Falls Relocation**.

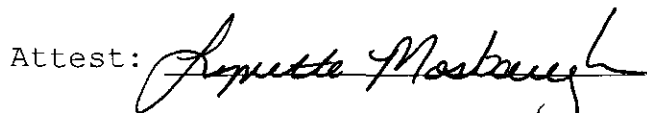
Evidence has been heard. Objections were presented and considered. The Board then adopted the original/amended Schedule of Assessments. The Board now finds that the annual maintenance assessment will be less than the benefits to the landowners and issues this order declaring that this Maintenance Fund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

HAMILTON COUNTY DRAINAGE BOARD


President


Member


Member

Attest: 

STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
A. J. Myers Drain, Britton Falls Relocation

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the **A. J. Myers Drain, Britton Falls Relocation** came before the Hamilton County Drainage Board for hearing **on July 24, 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 **A. J. Myers Drain, Britton Falls 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

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: AJ MEYER LEGAL DRAIN (BRITTON FALLS)

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.

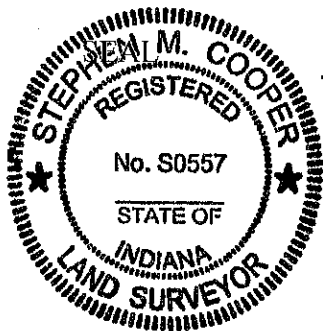
Signature:  Date: DECEMBER 1, 2009

Type or Print Name: STEPHEN M. COOPER, L.S.

Business Address: 303 WEST MAIN STREET

KNIGHTSTOWN, INDIANA 46148

Telephone Number: 765-345-5943



INDIANA REGISTRATION NUMBER

S0557

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Britton Falls - AJ Meyers Relocation along Atlantic Road

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: *Peter Siglow* Date: October 23, 2009

Type or Print Name: Peter Siglow

Business Address: 455 E. 8th Street, Suite 100
Holland, MI 49423

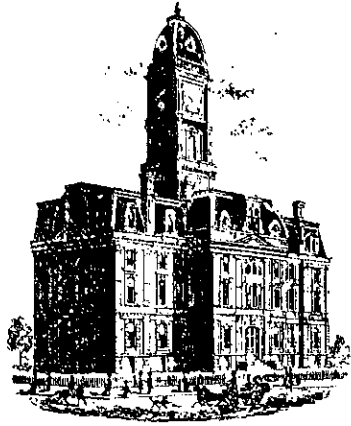
Telephone Number: 616-396-0255

SEAL



INDIANA REGISTRATION NUMBER

PE10708377



Y. G. W.

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

February 19, 2010

Re: Thorpe Creek: AJ Meyers Britton Falls Relocation

Attached are as-builts, certificate of completion & compliance, and other information for AJ Meyers Britton Falls 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 June 14, 2006. The report was approved by the Board at the hearing held July 24, 2006. (See Drainage Board Minutes Book 9, Pages 353-354)

The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert:	Grade:	Changes:
111-110	96	30	RCP	851.52	850.94	0.6	2
110-109	378	30	RCP	850.94	849.5	0.38	8
109-108	395	30	RCP	849.5	848.11	0.35	-5
108-107	402	30	RCP	848.11	845.58	0.63	2
107-106	398	30	RCP	845.58	844.08	0.38	-2
106-105	402	30	RCP	844.08	842.69	0.35	2
105-104	399	30	RCP	842.64	841.39	0.31	-1
104-103	399	30	RCP	841.44	839.9	0.39	-1
103-102	363	30	RCP	839.85	838.94	0.25	-2
102-101	49	30	RCP	838.94	838.73	0.43	3
101-100	247	30	RCP	838.63	838.02	0.25	-3

RCP Pipe Totals:

30"	3528
Total:	<u>3528</u>

Other Totals:

Open	111
Total:	<u>111</u>

The length of the drain due to the changes described above is now **3639 feet**.

The non-enforcement was approved by the Board at its meeting on July 24, 2006 and recorded under instrument #'s 200600046804. The non-enforcement established the drainage easement at 30 feet per the approved drainage plans

The following sureties were guaranteed by Safeco Insurance Co. of Indiana and released by the Board on its February 8, 2010 meeting.

Bond-LC No: 6414691

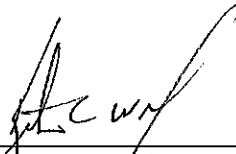
Insured For: Storm Sewers

Amount: \$430,242.00

Issue Date: May 23, 2006

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

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

~~PLANS FOR THE PROPOSED~~
RECORD DRAWINGS

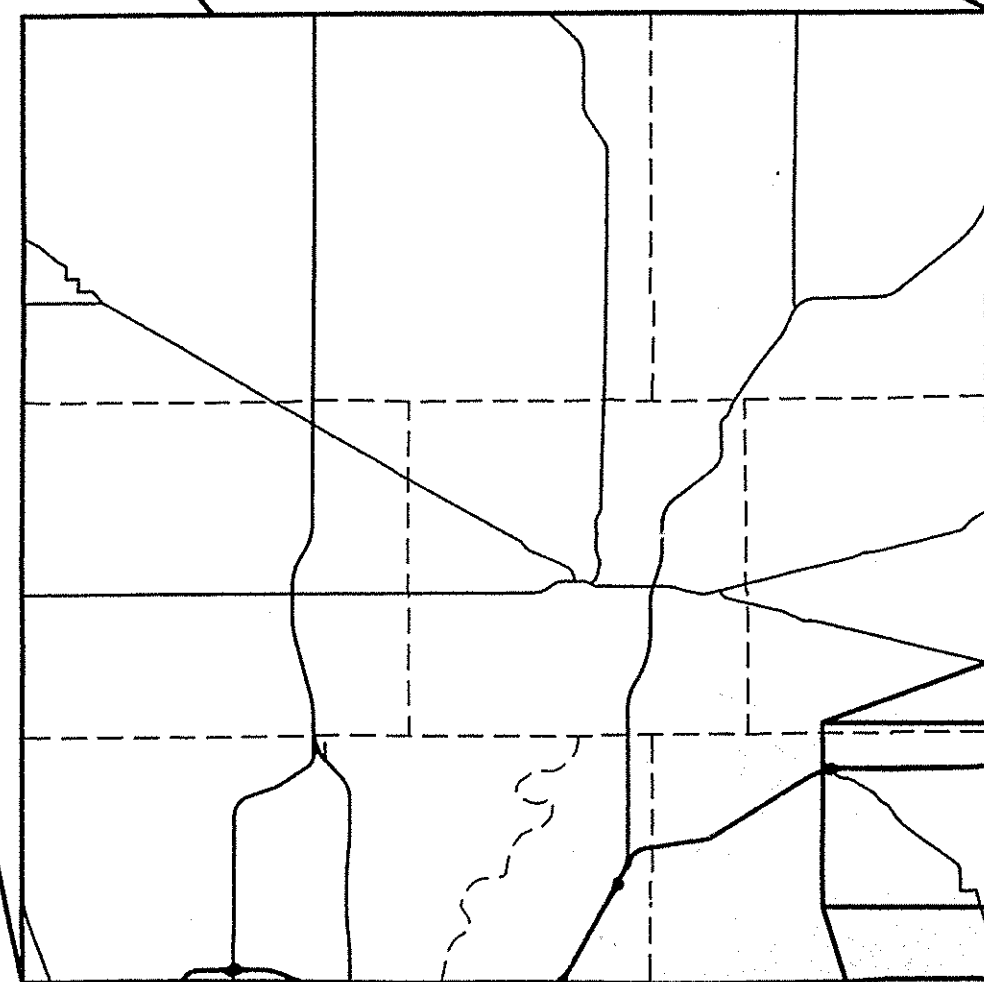
BRITTON FALLS

A.J. MEYERS LEGAL DRAIN RELOCATION

LOCATED IN SECTION 29,
T. 18 N., R. 6 E., FALL CREEK TOWNSHIP,
HAMILTON COUNTY, INDIANA



1"=50 MILES
STATE MAP



1"=4 MILES
COUNTY MAP



1"=2000'
LOCATION MAP

A.J. MEYERS
LEGAL DRAIN
RELOCATION

CERTIFICATE OF COMPLETION AND COMPLIANCE

I HEREBY CERTIFY THAT:

1. I AM FAMILIAR WITH DRAINAGE REQUIREMENTS APPLICABLE TO SUCH LAND ALTERATION (AS SET FORTH IN THE STORMWATER MANAGEMENT ORDINANCE OF HAMILTON COUNTY); AND
2. I (OR A PERSON UNDER MY DIRECT SUPERVISION) HAVE PERSONALLY INSPECTED THE COMPLETED WORK AND EXAMINED THE DRAINAGE PERMIT AND ITS CONDITIONS, AS-BUILT PLANS, AND FINAL DRAINAGE CALCULATIONS CONSISTENT WITH AS-BUILT CONDITIONS PERFORMED PURSUANT TO THE ABOVE REFERENCED DRAINAGE PERMIT; AND
3. TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, SUCH LAND ALTERATION HAS BEEN PERFORMED AND COMPLETED IN CONFORMITY WITH ALL SUCH DRAINAGE REQUIREMENTS.

DATE: October 13, 2009

Peter Siglow, P.E.
(616) 396-0255



Pet sig

SHEET INDEX

G-001	COVER SHEET
G-002	KEY MAP
CR-101 - CR-103	LEGAL DRAIN PLAN AND PROFILES
CR-501 - CR-502	LEGAL DRAIN DETAILS

Engineering
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DRIESENKA & ASSOCIATES, INC.

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Chicago, IL - 616-396-0255
Crown Point, IN - 815-249-3800
Columbus, IN - 615-341-1655
Columbia, IL - 201-775-3789
Champaign, IL - 317-571-3460

REVISIONS

1	SUBMITTED FOR AGENCY REVIEW (02/21/09)
2	REVISED FOR HCO COMMENT LETTER (04/13/09)
3	REVISED FINAL OUTFALL LOCATION (07/23/09)
4	REVISED OVERFLOW DITCH GRADE AND LOCATION (11/20/09)
5	AS-BUILT 03-18-2009
6	AS-BUILT REVISED 10-13-2009

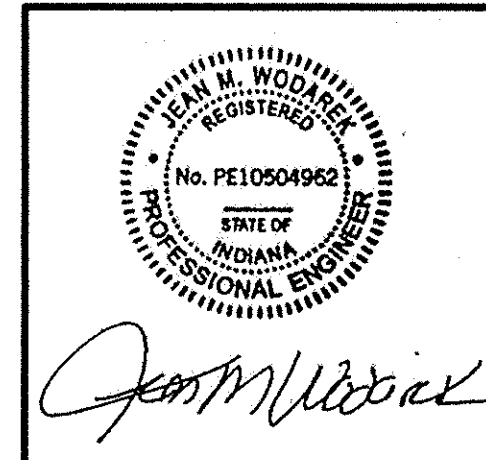
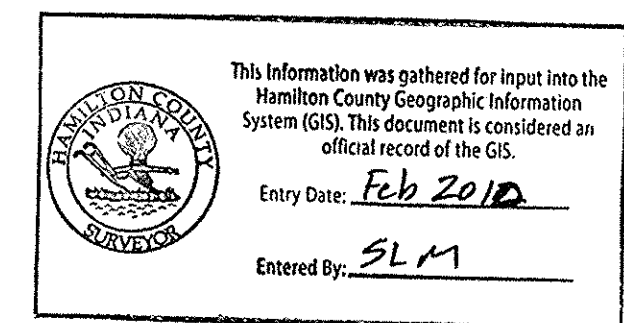
AJ MEYERS LEGAL DRAIN RELOCATION CO.
SEC. 29, T18N, R6E, FISHERS TWP., HAMILTON CO.
PULTE HOMES OF INDIANA
11590 N. MERIDIAN STREET
INDIANAPOLIS, IN 46250

TITLE SHEET

Designed By: JMR
Drawn By: JLO
Checked By: Date:
Entered By: SLM

Plot:
V: 1"=5'
H: 1"=50'
Scale:
02-01-2006
Date:
0560063.1A
Job No.:

Sheet No:
G-001



Sean M. Wodarski

HOLEY MOLEY SAYS
"DIG SAFELY"

"IT'S THE LAW"
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-382-5544
CALL TOLL FREE

PER INDIANA STATE LAW 12B-1-26,
IT IS AGAINST THE LAW TO EXCAVATE WITHOUT
NOTIFYING THE UNDERGROUND LOCATION
SERVICE TWO (2) WORKING DAYS BEFORE
COMMENCING WORK.

STRUCTURE DATA TABLE									
STR. NO.	RIM ELEV.	INV. IN.	INV. OUT.	DEPTH	STR. SIZE	STR. TYPE	CASTING TYPE	PIPE SIZE	DIRECTION OF PIPE IN/OUT
101	845.4	838.78	838.78	6.62'	10' X 4'	MH	R-1642	(2) 30"	SE / W
102	845.6	838.94	838.94	6.66'	10' X 4'	MH	R-1642	(2) 30"	S / NW
103	848.3	840.14	840.14	8.16'	9' X 4'	MH	R-1642	(2) 30"	S / N
104	848.2	841.46	841.46	6.74'	9' X 4'	MH	R-1642	(2) 30"	S / N

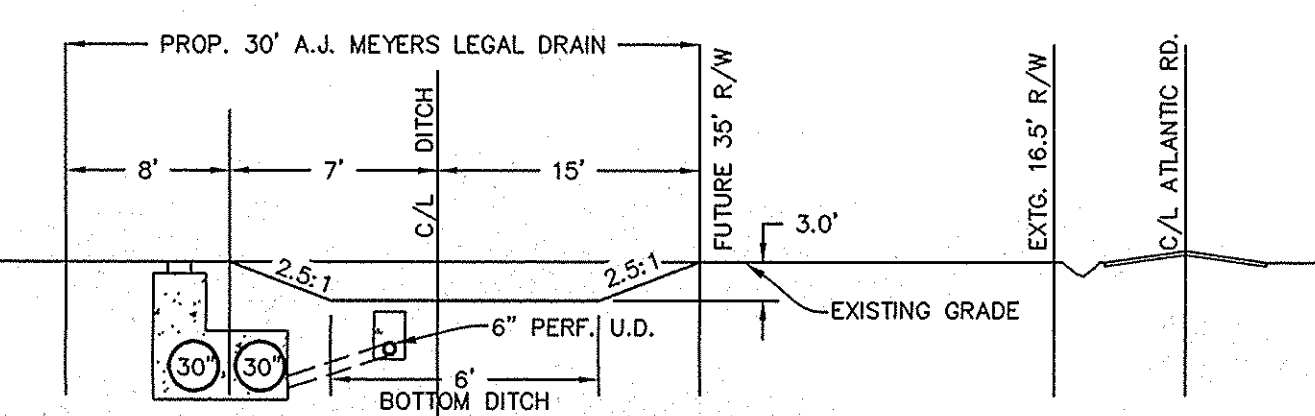
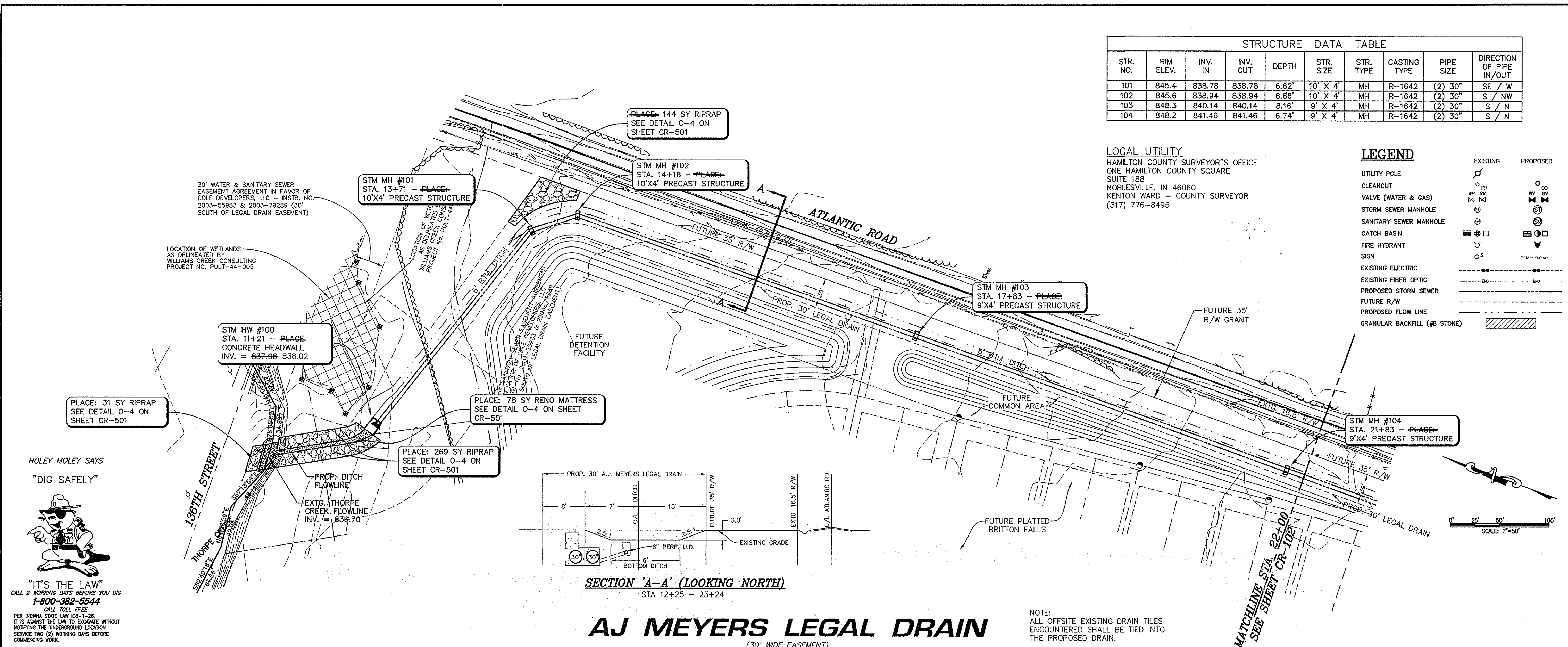
LOCAL UTILITY
 HAMILTON COUNTY SURVEYOR'S OFFICE
 ONE HAMILTON COUNTY SQUARE
 SUITE 188
 NOBLESVILLE, IN 46060
 KENTON WARD - COUNTY SURVEYOR
 (317) 776-8495

LEGEND

- UTILITY POLE
- CLEANOUT
- VALVE (WATER & GAS)
- STORM SEWER MANHOLE
- SANITARY SEWER MANHOLE
- CATCH BASIN
- FIRE HYDRANT
- SIGN
- EXISTING ELECTRIC
- EXISTING FIBER OPTIC
- PROPOSED STORM SEWER
- FUTURE R/W LINE
- PROPOSED FLOW LINE
- GRANULAR BACKFILL (#8 STONE)

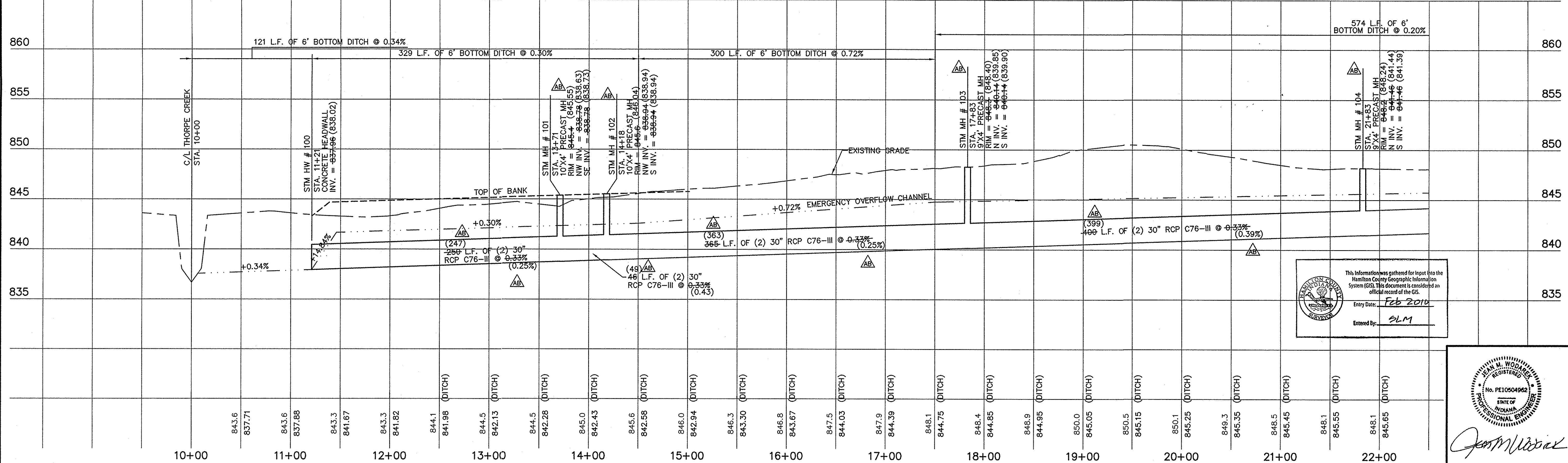
REVISIONS

NO.	DESCRIPTION
1	SUBMITTED FOR AGENCY REVIEW (02/19/09)
2	REVISED FOR NCSO COMMENT LETTER (04/13/09)
3	REVISED FINAL OUTFALL LOCATION (07/29/09)
4	REVISED OVERFLOW DITCH GRADE AND LOCATION (11/20/09)
5	AS-BUILT (03-16-2009)
6	REVISIONS (10-15-2009)

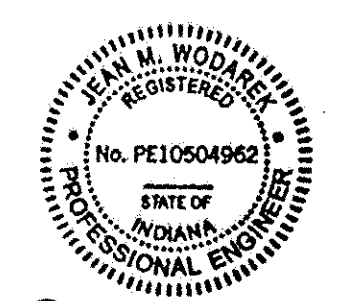


AJ MEYERS LEGAL DRAIN
 (30' WIDE EASEMENT)

NOTE:
 ALL OFFSITE EXISTING DRAIN TILES
 ENCOUNTERED SHALL BE TIED INTO
 THE PROPOSED DRAIN.



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: Feb 2010
 Entered By: SLM



AJ MEYERS LEGAL DRAIN RELOCATION
 SEC. 29, T18N, R6E, FISHERS TWP., HAMILTON CO.
 PULITE HOMES OF INDIANA
 11590 N. MERIDIAN STREET
 INDIANAPOLIS, IN 46250

Designed By: JMR
 Drawn By: JLO
 Checked By: Date:
 Plot:
 V: 1"=5'
 H: 1"=50'
 Scale:
 02-01-2006
 Date:
 0560063.1A
 No. No:
 Sheet No.: **CR-101**

HOLEY MOLEY SAYS
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 COMMENCING WORK.

DRIESENKA & ASSOCIATES, INC.
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 Surveying
 Testing

www.driesenka.com
 10000 N. Meridian Street, Suite 100
 Indianapolis, IN 46250
 Phone: 317-571-3420
 Fax: 317-571-7169
 10000 N. Meridian Street, Suite 100
 Indianapolis, IN 46250
 Phone: 317-571-3420
 Fax: 317-571-7169

REVISIONS

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5	AS-BUILT (03-16-2009)
6	REVISED (05-13-2009)

AJ MEYERS LEGAL DRAIN RELOCATION CO.
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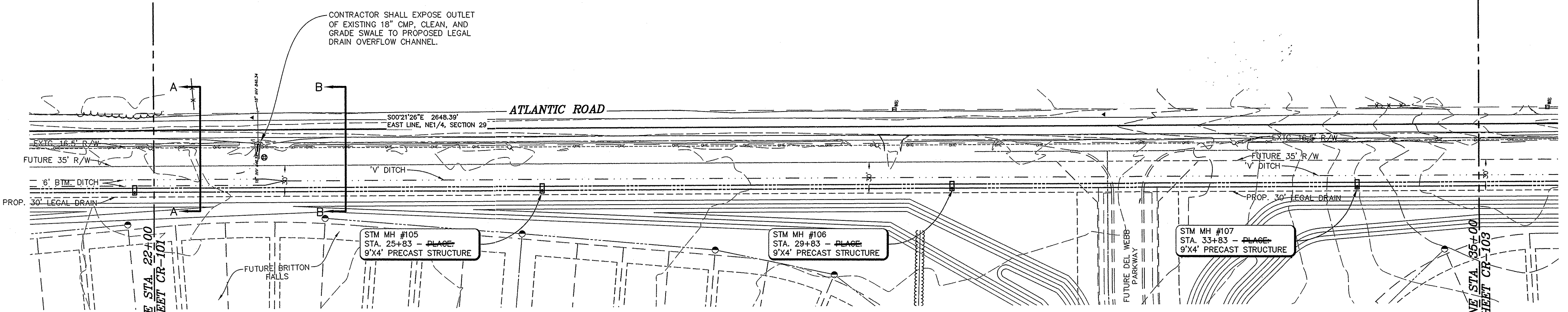
LEGAL DRAIN PLAN & PROFILE

Designed By: JMR
 Drawn By: JLO
 Checked By: JLO
 Date: 02-01-2006
 Plot: V: 1"=5'
 H: 1"=50'
 Scale:
 Date: 02-01-2006
 Date: 0560063.1A
 Job No.:
 Sheet No.: **CR-102**

STRUCTURE DATA TABLE

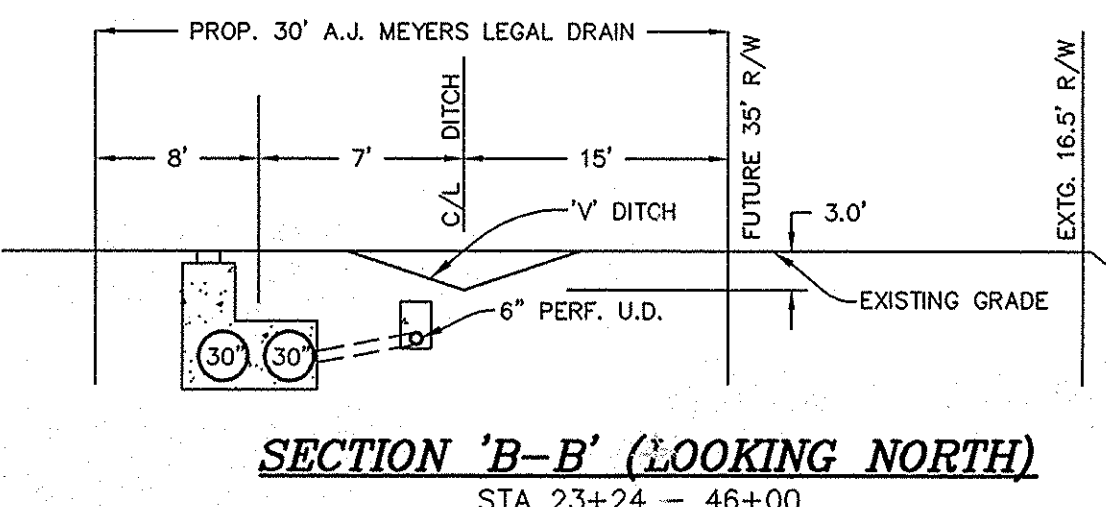
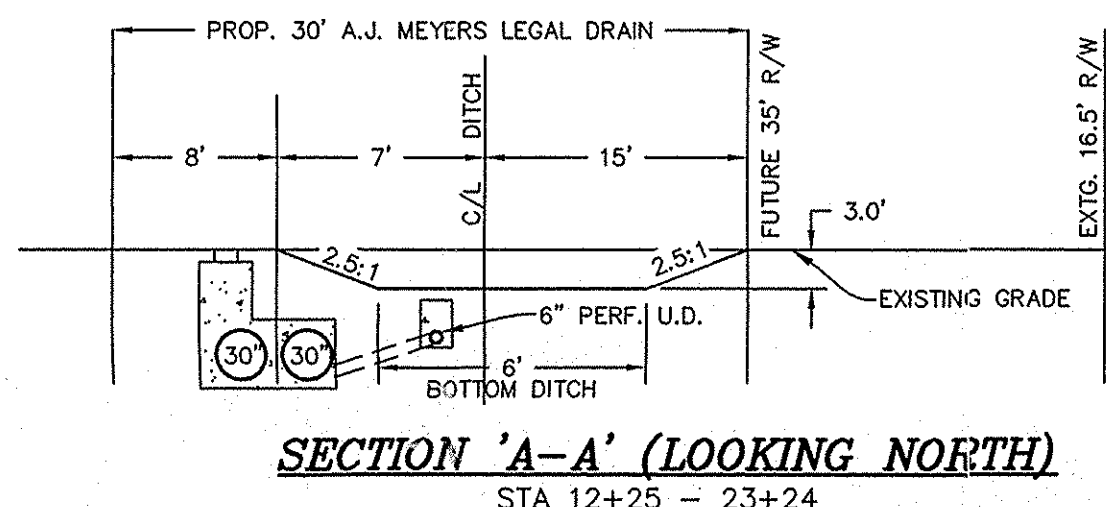
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106	850.4	844.18	844.18	6.22'	9' X 4'	MH	R-1642	(2) 30"	S / N
107	854.1	845.78	845.78	8.32'	9' X 4'	MH	R-1642	(2) 30"	S / N

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 HAMILTON COUNTY SURVEYOR'S OFFICE
 ONE HAMILTON COUNTY SQUARE
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 NOBLESVILLE, IN 46060
 KENTON WARD - COUNTY SURVEYOR
 (317) 776-8495



HOLEY MOLEY SAYS
 "DIG SAFELY"

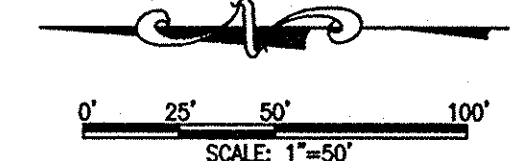
"IT'S THE LAW"
 CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-382-5544
 CALL TOLL FREE
 PER INDIANA STATE LAW 109-1-26.
 IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



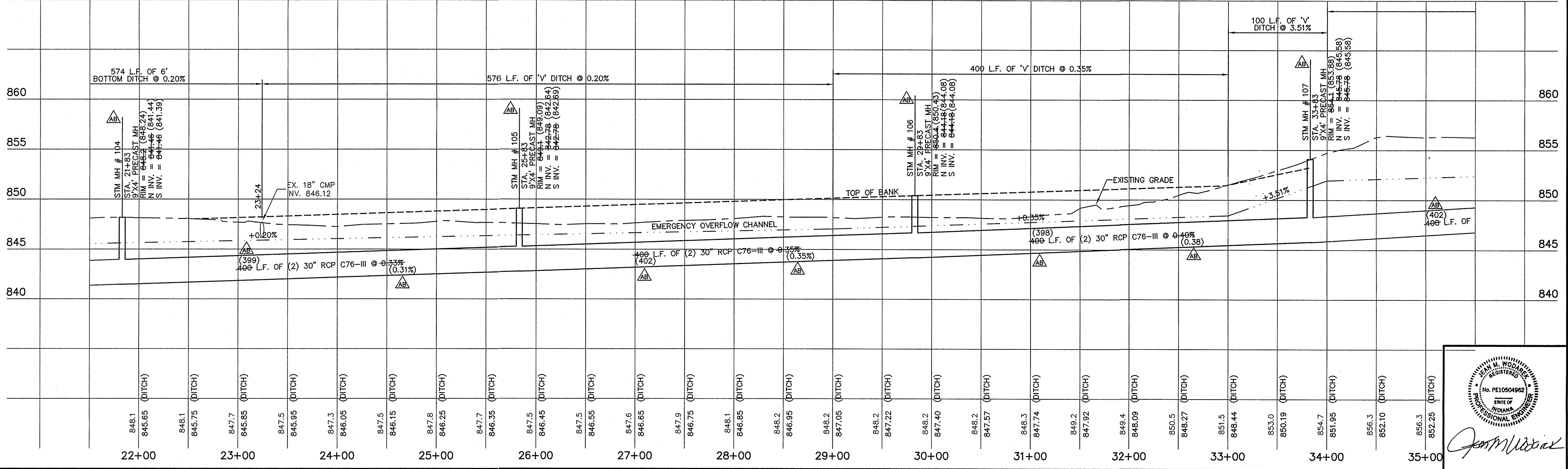
This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
 Entry Date: **Feb 2010**
 Entered By: **GLM**

LEGEND

- UTILITY POLE
- CLEANOUT
- VALVE (WATER & GAS)
- STORM SEWER MANHOLE
- SANITARY SEWER MANHOLE
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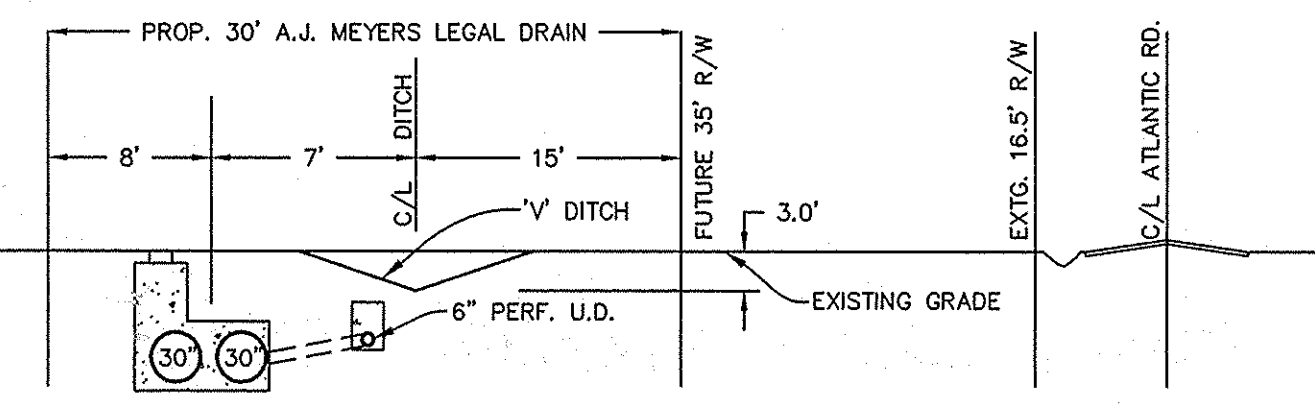
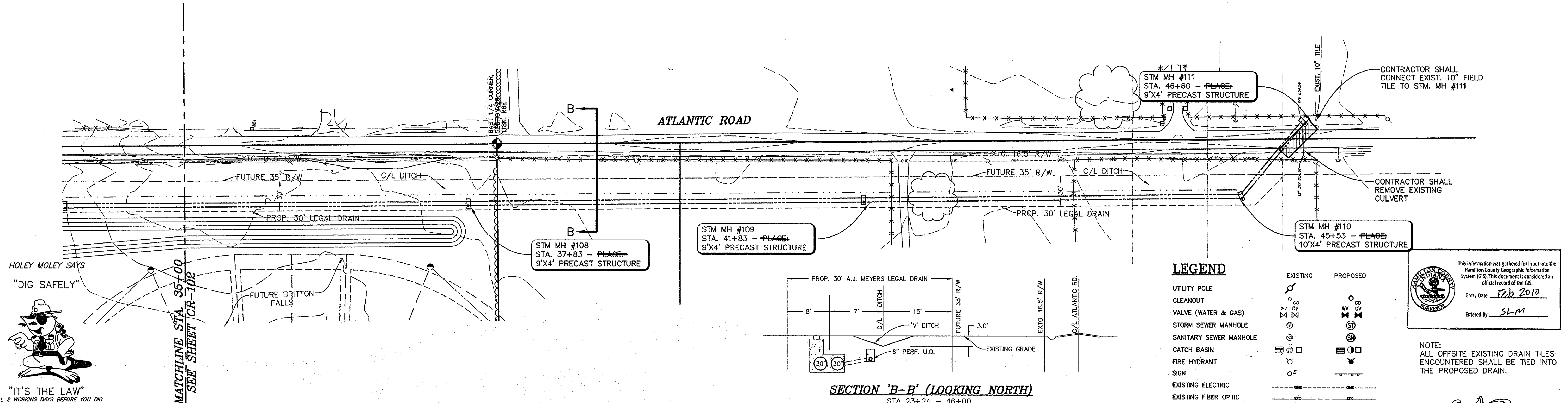
AJ MEYERS LEGAL DRAIN
 (30' WIDE EASEMENT)



Professional Engineer
 State of Indiana
 No. PE10504940
 J. M. WOODRICK

LOCAL UTILITY
 HAMILTON COUNTY SURVEYOR'S OFFICE
 ONE HAMILTON COUNTY SQUARE
 SUITE 188
 NOBLESVILLE, IN 46060
 KENTON WARD - COUNTY SURVEYOR
 (317) 776-8495

STRUCTURE DATA TABLE										
STR. NO.	RIM ELEV.	INV. IN.	INV. OUT.	DEPTH	STR. SIZE	STR. TYPE	CASTING TYPE	PIPE SIZE	DIRECTION OF PIPE IN/OUT	
108	856.8	848.18	848.18	8.62'	9' x 4'	MH	R-1642	(2) 30"	S / N	
109	857.2	849.58	849.58	7.62'	9' x 4'	MH	R-1642	(2) 30"	S / N	
110	855.5	850.88	850.88	4.62'	10' x 4'	MH	R-1642	(2) 30"	SE / N	
111	855.0	852±	851.20	3.80'	9' x 4'	MH	R-4342	(2) 30"	E / NW	



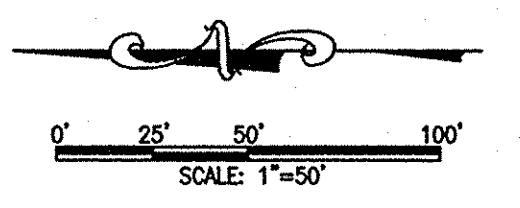
LEGEND

- UTILITY POLE
- CLEANOUT
- VALVE (WATER & GAS)
- STORM SEWER MANHOLE
- SANITARY SEWER MANHOLE
- CATCH BASIN
- FIRE HYDRANT
- SIGN
- EXISTING ELECTRIC
- EXISTING FIBER OPTIC
- PROPOSED STORM SEWER
- FUTURE R/W
- PROPOSED FLOW LINE
- GRANULAR BACKFILL (#8 STONE)

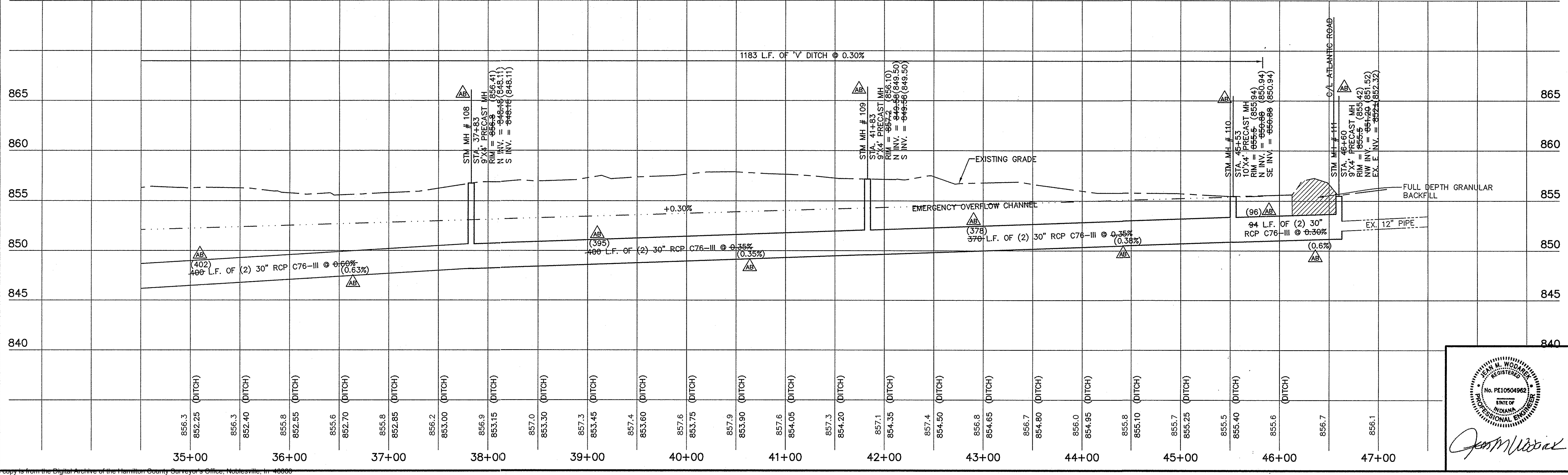
This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.

Entry Date: 12/20/2010
 Entered By: SLM

NOTE: ALL OFFSITE EXISTING DRAIN TILES ENCOUNTERED SHALL BE TIED INTO THE PROPOSED DRAIN.



AJ MEYERS LEGAL DRAIN
 (30' WIDE EASEMENT)



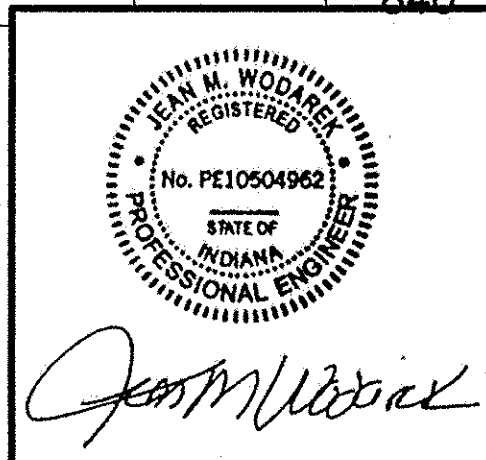
AJ MEYERS LEGAL DRAIN RELOCATION
 SEC. 29, T18N, R8E, FISHERS TWP., HAMILTON CO.
 PULTE HOMES OF INDIANA
 11590 N. MERIDIAN STREET
 INDIANAPOLIS, IN 46250

LEGAL DRAIN PLAN & PROFILE

Designed By: JMR
 Drawn By: JLO
 Checked By: JLO
 Date: 02-01-2006

Plot:
 V: 1"=5'
 H: 1"=50'
 Scale:
 02-01-2006
 Date:
 0560063.1A
 Job No.:

Sheet No:
CR-103



OFFICE OF THE HAMILTON COUNTY SURVEYOR
BANK ARMORMENT AT OUTLET PIPE
IN OPEN CHANNELS

CROSS SECTION

PLAN VIEW

HAMILTON COUNTY SURVEYOR'S OFFICE
APPROVED: *Kenton C. Ward* 4 JAN 00 DATE KENTON C. WARD, HAMILTON COUNTY SURVEYOR
REVISOR: 1 JAN 2000 STANDARD PLAN
REVISION: 0-4

OFFICE OF THE HAMILTON COUNTY SURVEYOR
PIPELINE & UTILITY INSTALLATION
CROSS SECTION: TILE DRAIN

UTILITY INSTALLATION CROSS SECTION
(DRAWING NOT TO SCALE)

PIPELINE INSTALLATION CROSS SECTION
(DRAWING NOT TO SCALE)

When installing a utility across a tile regulated drain, the utility contractor will adhere to the following procedure:
1. Utility to be installed a minimum of eighteen (18") inches below or above existing tile.
2. If utility is to be installed using directional boring methods, the utility installation shall be a minimum of five (5') feet below tile drain.
3. All petroleum pipelines and/or high pressure transmission lines are to be installed a minimum of ten (10') feet below existing invert of tile drains.
4. If sanitary sewer is installed under drain, sewer shall be encased with concrete. Minimal distance shall be measured from top of concrete encasement.
5. Utility contractor shall adhere to open drain crossing standard during construction process.
6. Notify Surveyor's Office at (317)776-8495, two working days prior to installation and backfilling.

HAMILTON COUNTY SURVEYOR'S OFFICE
APPROVED: *Kenton C. Ward* 4 JAN 00 DATE KENTON C. WARD, HAMILTON COUNTY SURVEYOR
REVISOR: 1 JAN 2000 STANDARD PLAN
REVISION: C-5

OFFICE OF THE HAMILTON COUNTY SURVEYOR

SUBSURFACE DRAIN (SSD) DETAIL
WITHOUT SWALE

NOTE: TILE SHALL BE DOUBLE WALL SMOOTH WALL PERFORATED PLASTIC PIPE.

HAMILTON COUNTY SURVEYOR'S OFFICE
APPROVED: *Kenton C. Ward* 2/1/02 DATE KENTON C. WARD, HAMILTON COUNTY SURVEYOR
REVISOR: 1 FEB 2002 STANDARD PLAN
REVISION: SSD-5

OFFICE OF THE HAMILTON COUNTY SURVEYOR

CLEARING SPECIFICATIONS

WHAT TO CLEAR

1. Clear all woody vegetation; i.e. trees, willows, brush, briars and cactails.
2. Clear both ditch banks to the top of the bank. Clear the ditch bottom and remove all debris and obstructions within the channel.
3. On the working side, clear only enough room to complete the intended operation; such as spreading spoil or installing an erosion control structure. If more than 75 feet is needed, the Hamilton County Surveyor must be contacted before additional clearing can be done.

OTHER NOTES

1. Cut trees as shown in the diagram below. Cut the stump flush with the ground, no more than 6 inches high. Cut the stump at the same angle as the ditch bank.
2. Paint stumps with an approved EPA brush killer according to the contract specifications.
3. Remove stumps if the bank is resloped or for proper channel alignment.

HAMILTON COUNTY SURVEYOR'S OFFICE
APPROVED: *Kenton C. Ward* 4 JAN 00 DATE KENTON C. WARD, HAMILTON COUNTY SURVEYOR
REVISOR: 1 JAN 2000 STANDARD PLAN
REVISION: OD-1

OFFICE OF THE HAMILTON COUNTY SURVEYOR

CROSS SECTION

SUBDIVISION CLEARING

ALL OPEN DITCHES SHALL HAVE AN ONSITE INVESTIGATION WITH THE SURVEYOR'S OFFICE PLAN REVIEWER, INSPECTOR AND DEVELOPER. TREES GREATER THAN 18" (MEASURED AT BREST HEIGHT) MAY BE SAVED IF APPROVED BY THE INSPECTOR. THE INSPECTOR SHALL BE CONTACTED FOR INVESTIGATION PRIOR TO FINAL INSPECTION FOR DETERMINATION.

NOTE: IF ON PROPERTY LINE, USE CONSERVATION ALTERNATE.

HAMILTON COUNTY SURVEYOR'S OFFICE
APPROVED: *Kenton C. Ward* 4 JAN 00 DATE KENTON C. WARD, HAMILTON COUNTY SURVEYOR
REVISOR: 1 JAN 2000 STANDARD PLAN
REVISION: OD-4

OFFICE OF THE HAMILTON COUNTY SURVEYOR

SPOIL SPREADING

CROSS SECTION

NOTE: SPOIL SPREADING MAY EXTEND BEYOND THE SEVENTY-FIVE FOOT(75') RIGHT-OF-WAY WITH THE PERMISSION OF THE COUNTY SURVEYOR.

All spoils shall be placed on the operation side of the ditch as designated by the Surveyor. The finished spoil shall be left in a smooth manner, so that maintenance equipment used to maintain the regulated drain and any average row crop farm tractor can be driven over all parts of it with a reasonable degree of safety and the finished spoil bank shall be left in a tillable manner without debris including brush, logs, excavated stumps or rocks of 1/3 of cubic foot or larger, that will interfere with farm and maintenance equipment, and filter strip placement.

HAMILTON COUNTY SURVEYOR'S OFFICE
APPROVED: *Kenton C. Ward* 4 JAN 00 DATE KENTON C. WARD, HAMILTON COUNTY SURVEYOR
REVISOR: 1 JAN 2000 STANDARD PLAN
REVISION: OD-6

OFFICE OF THE HAMILTON COUNTY SURVEYOR

CORNER PROTECTION

PLAN

CROSS SECTION

NOTE: GEOTEXTILE FABRIC MAY BE REQUIRED, DEPENDING UPON SOIL CONDITIONS.

HAMILTON COUNTY SURVEYOR'S OFFICE
APPROVED: *Kenton C. Ward* 4 JAN 00 DATE KENTON C. WARD, HAMILTON COUNTY SURVEYOR
REVISOR: 1 JAN 2000 STANDARD PLAN
REVISION: OD-7

OFFICE OF THE HAMILTON COUNTY SURVEYOR

CROSS SECTION

PLAN

FILTER STRIP

PLACE SIGNS EVERY 600 FEET. IF DISTANCE BETWEEN ROADS IS LESS THAN 600 FEET, PLACE ONE SIGN IN CENTER POINT OF THE FILTER STRIP BETWEEN ROADS.

IF THE CONSERVATION ALTERNATE IS USED FOR CLEARING, FILTER STRIP WILL BE ON OPERATION SIDE ONLY.

HAMILTON COUNTY SURVEYOR'S OFFICE
APPROVED: *Kenton C. Ward* 4 JAN 00 DATE KENTON C. WARD, HAMILTON COUNTY SURVEYOR
REVISOR: 1 JAN 2000 STANDARD PLAN
REVISION: OD-9

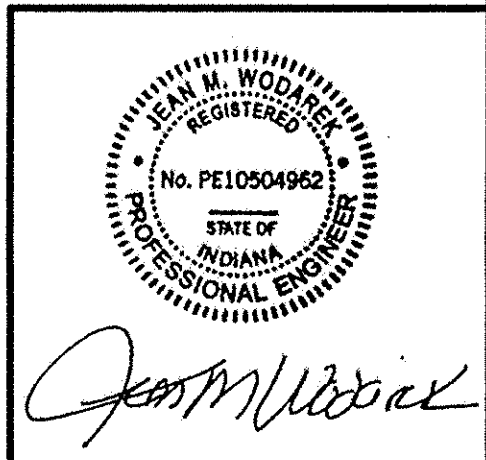
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REVISIONS

1	SUBMITTED FOR AGENCY REVIEW	10/20/00
2	REVISED PER H200 COMMENT LETTER (04/13/06)	07/23/06
3	REVISED FINAL OUTFALL LOCATION	07/23/06
4	REVISED OVERFLOW DITCH GRADE AND LOCATION (11/20/06)	
5	AS-BUILT	03-18-2009
6	DESIGN REVISIONS	10-15-2009

AJ MEYERS LEGAL DRAIN RELOCATION
SEC. 29, T16N, R8E, FISHERS TWP., HAMILTON CO.
PULTE HOMES OF INDIANA
11590 N. MERIDIAN STREET
INDIANAPOLIS, IN 46250
LEGAL DRAIN DETAILS

Designed By: JMR
Drawn By: JLO
Checked By: JLO
Plot:
Scale: NONE
Date: 02-01-2006
Job No.: 0560063.1A
Sheet No.: CR-501



OFFICE OF THE HAMILTON COUNTY SURVEYOR

PIPE DIAMETER ϕ

SEE PLAN FOR SIZE AND MATERIAL

HEADWALL INVERT

APPROXIMATE FINISHED GRADE

2" I.D. X-STRONG PIPE (SPACING 12" ON CENTER WITH ENDS CUT 45° FOR 3/4" EXPANSION BOLTS INTO CONCRETE)

RECESSED INTO FINISHED GRADE 6" THICK CONCRETE HEADWALL WITH #6 REINFORCED 6" O.C. CENTER EQUAL WIDTH

100 SQUARE FOOT RIP-RAP IN FAN PATTERN OUT FROM HEADWALL MINIMUM SIZE STONE TO BE 1/2 CUBIC FOOT

NOTE HEADWALL SIMILAR TO TYPE "I" EXCEPT FOR PIPE GUARDS

ISOMETRIC @ HEADWALL TYPE "II"

(DRAWING NOT TO SCALE)

HAMILTON COUNTY SURVEYOR'S OFFICE

REVISOR: 1 JAN 2000

APPROVED: *Kentor C. Ward* KENTON C. WARD, HAMILTON COUNTY SURVEYOR DATE: 1/14/00 STANDARD PLAN D-4

OFFICE OF THE HAMILTON COUNTY SURVEYOR

STRUCTURE SIZING TABLE

PIPE SIZE (INCHES)	STRUCTURES LESS THAN 48" FROM T/C TO INVERT (INCHES)	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-360IN	CASTING *350I TL & TL
12 TO 18	24 X 24	***	DESIGN APPROVAL	NO	YES	YES
12 TO 21	30 X 30	***	DESIGN APPROVAL	NO	YES	YES
18 TO 21	MH/BOX	***	DESIGN APPROVAL	YES	YES	YES
21 TO 27	24 X 36* OR 36 X 36	***	DESIGN APPROVAL	NO	NO	YES
12 TO 24	36 X 36	***	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 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.

HAMILTON COUNTY SURVEYOR'S OFFICE

REVISOR: 1 FEB 2002

APPROVED: *Kentor C. Ward* KENTON C. WARD, HAMILTON COUNTY SURVEYOR DATE: 2/16/02 STANDARD PLAN D-18

OFFICE OF THE HAMILTON COUNTY SURVEYOR

1" HOT ASPHALTIC CONCRETE (H.A.C.) SURFACE ON 2" H.A.C. BASE

6" COMPACTED AGGREGATE

COMPACTED GRANULAR BASE/TILL

STORM SEWER PIPE

- NEW SURFACE IS TO BE SLOPED AT THE SAME RATE AS THE EXISTING SURFACE.
- EXISTING PAVEMENT IS TO BE SAW CUT FOR A CLEAN BREAK.
- COMPACTED AGGREGATE IS TO BE LAID AT 6" LIFTS AND IS TO BE COMPACTED TO A MINIMUM OF 95%.
- TRENCH SPOIL IS TO BE REMOVED FROM THE WORK SITE.
- 1.5" H.A.C. *H SURFACE.
- BUTYMOUS TACK APPLIED.
- AS PER INDIANA DEPT. OF HIGHWAYS STANDARD SPECIFICATIONS - 1993 SECTIONS 409 & 902.

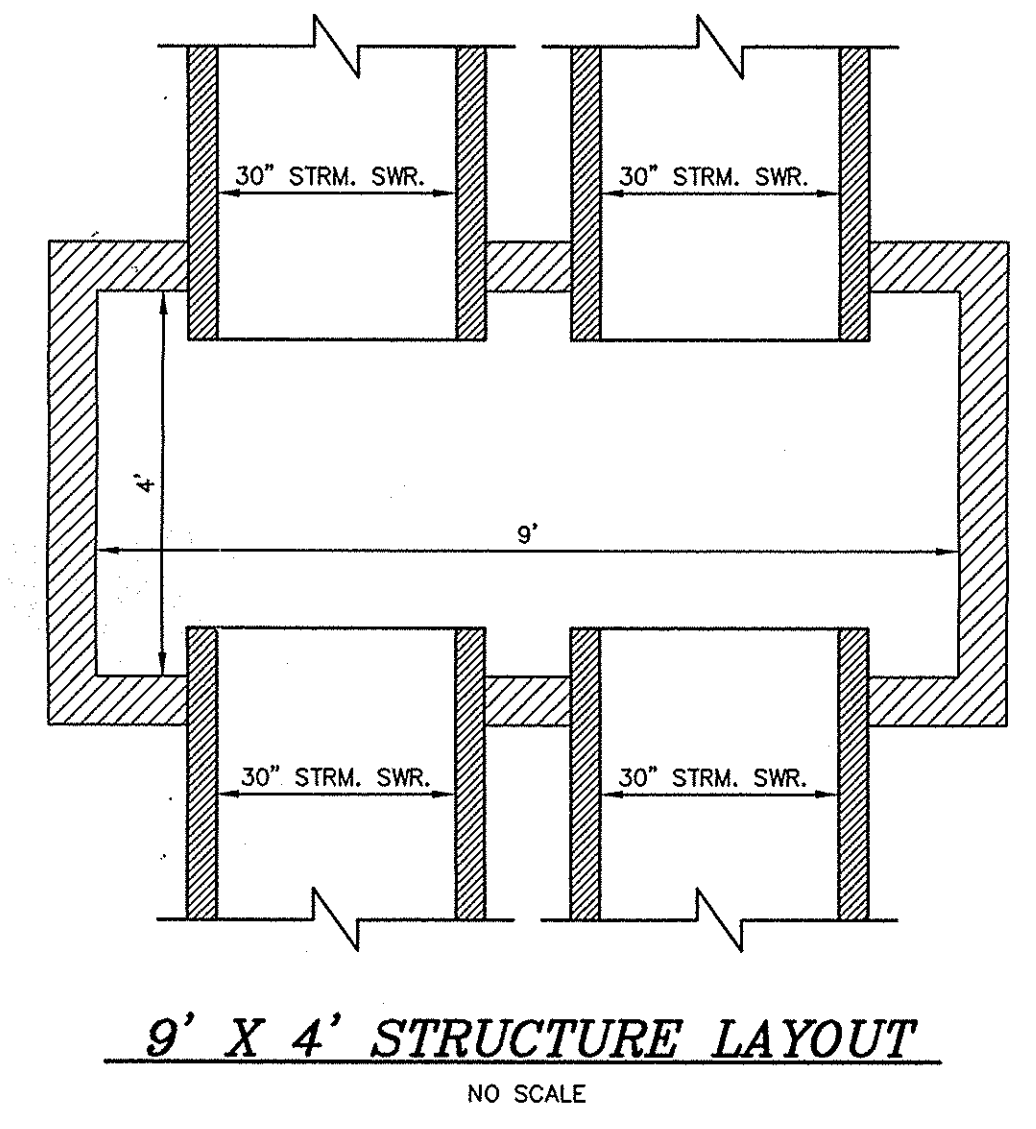
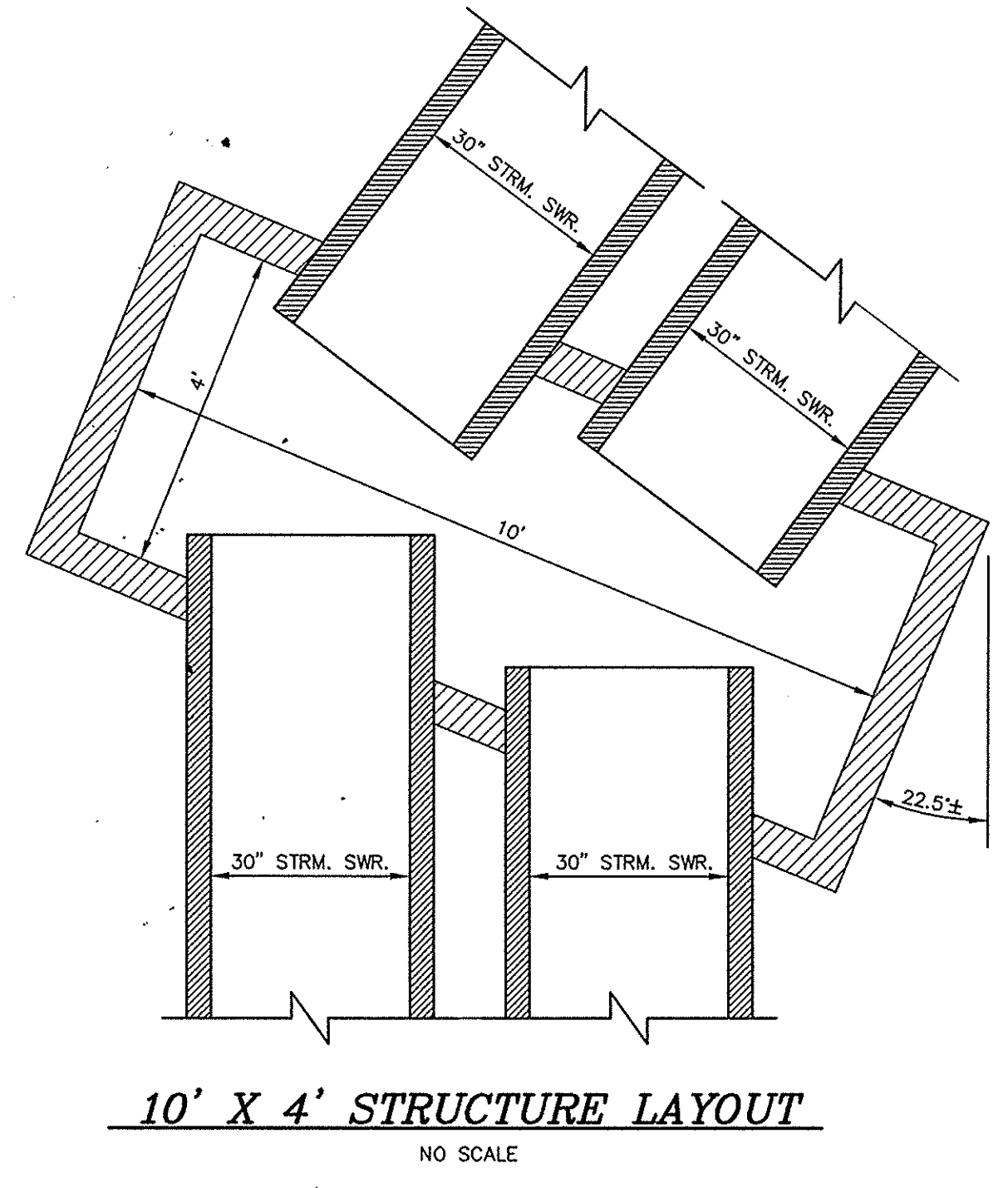
ASPHALT DRIVE REPAIR

(DRAWING NOT TO SCALE)

HAMILTON COUNTY SURVEYOR'S OFFICE

REVISOR: 1 JAN 2000

APPROVED: *Kentor C. Ward* KENTON C. WARD, HAMILTON COUNTY SURVEYOR DATE: 1/14/00 STANDARD PLAN M-1



OFFICE OF THE HAMILTON COUNTY SURVEYOR

CLASS 350

ASTM A-48

TYPE "B" RECESSED POCKETS

140 (3556mm) DIA. ANCHOR BOLT HOLES ON A 30" (762mm) DIA. B.C.

1" (25mm) DIA. RISER

30" (762mm) DIA. B.C.

MADE IN USA

2" (51mm) RAISED LETTERS FLUSH TO TOP SURFACE OF LID

ANCHOR HOLE DETAIL FULL SCALE

PICKLE DETAIL COVER SCALE

NEENAH 1642 or 1772 EAST JORDAN 1045

* Or approved by Hamilton County Surveyor's Office (DRAWING NOT TO SCALE)

HAMILTON COUNTY SURVEYOR'S OFFICE

REVISOR: 11/18/2004

APPROVED: *Kentor C. Ward* KENTON C. WARD, HAMILTON COUNTY SURVEYOR DATE: 11/18/04 STANDARD PLAN CT-1

OFFICE OF THE HAMILTON COUNTY SURVEYOR

1 1/4" (32mm) DIA. RISER

NO RUMPLES

READY TO WATERWAY

MADE IN USA

24" (610mm) DIA. B.C.

2 1/2" (64mm) DIA. RISER

2" (51mm) DIA. RISER

5 1/4" (135mm) DIA. RISER

1 1/2" (38mm) DIA. RISER

1 1/2" (38mm) DIA. RISER

2 1/4" (57mm) DIA. RISER

1" (25mm) DIA. RISER

2" (51mm) DIA. RISER

3" (76mm) DIA. RISER

NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND METRIC. FREE OPEN AREA: 278 SQUARE INCHES. MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 350. FINISH: NO FINISH. WEIGHT: 28#

NEENAH 4342 EAST JORDAN 6489N

* Or approved by Hamilton County Surveyor's Office (DRAWING NOT TO SCALE)

HAMILTON COUNTY SURVEYOR'S OFFICE

REVISOR: 11/18/2004

APPROVED: *Kentor C. Ward* KENTON C. WARD, HAMILTON COUNTY SURVEYOR DATE: 11/18/04 STANDARD PLAN CT-10

OFFICE OF THE HAMILTON COUNTY SURVEYOR

CASTING FRAME AND COVER AS SPECIFIED

STANDARD PRECAST MANHOLE CAP OR CONE

PRECAST CONCRETE ADJUSTER RINGS IF NEEDED (12" OF RINGS MAX.)

STD. PRECAST MANHOLE RISER

PRECAST CONCRETE SLAB TOP

24" DIA.

4" DIA.

WIDTH AS PER PLANS

PREFORMED HOLE TO MAXIMUM OF PIPE O.D. +6" WITH NON-SHRINK CEMENT GROUT

3" MIN.

3" MIN.

8" MIN.

BENCH WALLS AT MINIMUM 1/2" PER FOOT SLOPE. BENCH WALLS TO BE CONSTRUCTED TO SPRING LINE OF PIPE

NOTE: REINFORCEMENT PER MANUFACTURER. MANHOLE CONFORMS TO ASTM C-478. NO BRICK OR BLOCK WILL BE ALLOWED IN STRUCTURE. O-RING GASKET, NON-ASPHALTIC MASTIC OR BUTYL RUBBER SEAL BETWEEN JOINTS. SUPPLIER TO PROVIDE SHOP DRAWINGS TO ENGINEER PRIOR TO CONSTRUCTION.

PRECAST STRUCTURE DETAIL

NO SCALE

Engineering
Surveying
Testing

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Channahon, IL - 815-249-1465

REVISIONS

1	SUBMITTED FOR AGENCY REVIEW (03/27/00)
2	REVISED PER HCD COMMENT LETTER (04/13/00)
3	REVISED FINAL OUTCALL LOCATION (07/25/00)
4	REVISED OVERFLOW DETAIL GRADE AND LOCATION (11/01/00)
5	AS-BUILT 03-18-2009
6	AS-BUILT REVISED 03-18-2009

AJ MEYERS LEGAL DRAIN RELOCATION COMPANY

SEC. 29, T18N. R6E, FISHERS TWP., HAMILTON CO. PULTE HOMES OF INDIANA 11550 N. MERIDIAN STREET INDIANAPOLIS, IN 46250

LEGAL DRAIN DETAILS

Designed By: JMR

Drawn By: JLO

Checked By: JLO

Plot:

NONE

Scale:

02-01-2006

Date:

0560063.1A

Job No.:

Sheet No.:

CR-502

John M. Woodcock

