



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

December 10, 2012

To: Hamilton County Drainage Board

Re: John Roe Drain Reconstruction & Relocation – Reynolds Farm Equipment

Attached is a petition and plans for the proposed relocation of the John Roe Drain. The relocation is being proposed by Reynolds Farm Equipment. The proposal is to reconstruct the John Roe Drain from Sta. 10+00 which is the proposed west property line for Reynolds Farm Equipment, to Sta. 18+60 of the John Roe Drain, then west along the south right of way for 276th Street ending at Little Cicero Creek.

The new drain shall consist of those lengths of pipes between the following structures as shown on the plans by Silver Creek Engineering, dated 09-17-2012, and having job number 12260. The new drain will intercept the existing John Roe Drain at station 10+00 with new structure number 122, thence to Structure 121, 120, and 119 which is the outlet at Little Cicero Creek.

This line will consist of the following lengths:

48" RCP – 579 ft 38" x 60" ERCP – 782 ft

The portion of the new drain between Structure 120 and 119 parallels 176th Street on the south side of the road. The new drain will lie approximately 45 feet south of the existing edge of pavement on the south side of 276th Street.

The total length of new tile shall be ¹³⁶¹812 feet. The 860 feet of original 10 inch drain between Sta. 10+00 and Sta. 18+60 of the original description and Arm 1, which consists of 227 feet of 8 inch drain, shall be vacated. Sta. 18+60 is the existing catch basin on the main tile of the John Roe Drain located the south side of 276th Street. The existing portion of the John Roe Drain between Sta. 18+60 and Sta. 23+10 shall remain

as active regulated drain. This proposal will reduce the overall total footage of the John Roe Drain by 27~~5~~⁴ feet.

The cost of the relocation is to be paid by Reynolds Farm Equipment. The engineers estimate for the construction is \$123,000.00. The required performance bond of 120% of the engineers estimate is \$147,600.00

The petitioner has provided the performance bond as follows:

Name of Bonding Company: Cincinnati Insurance Company

Bond Number: B0296450

Bond Date: January 7, 2013

Bond Amount: \$147,600.00

Bond Term: 2 years

The statutory 75 foot easement will be reduced by Non-Enforcement of Drainage Easement on Individual Tracts to a distance of 25 feet on both sides of the centerline of the new pipe as described in this report.

Because the proposed reconstruction will be done upon the petitioner's property at the petitioner's expense it meets the requirements of I.C. 36-9-27-52.5 for a hearing. Therefore, I recommend approval by the Board at this time.

Sincerely,



Kenton C. Ward
Hamilton County Surveyor

KCW/adc

HAMILTON COUNTY DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN RE: JOHN ROE DRAIN)
Hamilton County, Indiana)

Both signers known to me.
Mark A. Thomas
Mark A. Thomas
Notary Public
State of Indiana
County of Hamilton
Expires : Jan. 13, 2016

PETITION FOR RELOCATION AND RECONSTRUCTION

BECK FAMILY, LP (hereinafter "Petitioner"),

hereby petitions the Hamilton County Drainage Board for authority to relocate and improve a section of the JOHN ROE Drain, and in support of said petition advises the Board that:

FILED
NOV 01 2012

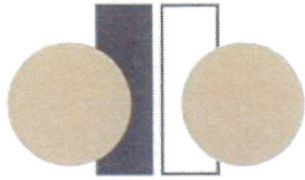
OFFICE OF HAMILTON COUNTY SURVEYOR

1. Petitioner owns real estate through which a portion of the JOHN ROE 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 JOHN ROE 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 JOHN ROE Drain, without cost to other property owners on the watershed of the JOHN ROE Drain.
5. Proposed relocation and reconstruction will not adversely affect other land owners within the drainage shed.
6. Petitioner requests approval of the proposed relocation and reconstruction under IC 36-9-27-52.5.

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

Cary Reynolds
Cary Reynolds

Beck Family LP
Lawrence C. Beck GP
Signed
Lawrence C. Beck
Printed



design & build CORPORATION

December 18, 2012

Reynolds Farm Equipment
1451 East 276th Street
Atlanta, IN 46031

Estimated cost from Structure 123 through structure 119 per drawings provided by Silver Creek Engineering:

| | |
|--------------------------------------|--------|
| Install Tide Flex valve STR 119 | 1 ea |
| Excavate & install 38"x 60" ERCP | 233 lf |
| Excavate & install STR 120 | 1 ea |
| Excavate & install 48" RCP | 289 lf |
| Excavate & install STR 121 | 1 ea |
| Excavate & install 48" RCP | 290 lf |
| Excavate & install STR 122 | 1 ea |
| Excavate & install 12" RCP | 67 lf |
| Excavate & install STR 123 | 1 ea |
| Install #8 stone bedding per plans | |
| Install granular backfill per plans | |
| Install rip rap at ditch per plans | |
| Install rip rap at outlets per plans | |

PRICE

Price for materials as above, taxes, labor and freight the total sum of One Hundred Twenty Two Thousand Eight Hundred Seventy Four Dollars (\$122,874.00)

Cordially,

Scott Eiker

Scott Eiker
President

THE CINCINNATI INSURANCE COMPANY

AIA Document A312

Performance Bond



Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):

Design and Build Corporation
10029 E 126th Street
Fishers, IN 46038

SURETY (Name and Principal Place of Business):

THE CINCINNATI INSURANCE COMPANY
6200 S. GILMORE ROAD
FAIRFIELD, OHIO 45014-5141

OWNER (Name and Address):

Hamilton County Board of Commissioners
One Hamilton County Square
Noblesville, IN 46060

CONSTRUCTION CONTRACT

Date: January 7, 2013

Amount: \$147,600

Description (Name and Location):

BOND Installation of storm piping in the legal drain and road right of way

Date (Not earlier than Construction Contract Date):

January 7, 2013

Amount:

\$147,600

Modifications to this Bond:

None

See Page 3

CONTRACTOR AS PRINCIPAL

Company: _____ (Corporate Seal)

SURETY

Company: _____ (Corporate Seal)

THE CINCINNATI INSURANCE COMPANY

Signature: J Scott Eiker

Name and Title: J Scott Eiker

Signature: John D Null

Name and Title: John D Null, Attorney-in-fact

(Any additional signatures appear on page 3)

(FOR INFORMATION ONLY – Name, Address and Telephone)

AGENT or BROKER:

H J Spier Co Inc
8250 Woodfield Crossing Blvd #330
Indianapolis, IN 46240

OWNER'S REPRESENTATIVE (Architect, Engineer or other party):

S-2100-AIA-A312 (6/08) PERFORMANCE BOND

1 The Contractor and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.

2 If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except to participate in conferences as provided in Subparagraph 3.1.

3 If there is no Owner Default, the Surety's obligation under this Bond shall arise after:

3.1 The Owner has notified the Contractor and the Surety at its address described in Paragraph 10 below that the Owner is considering declaring a Contractor Default and has requested and attempted to arrange a conference with the Contractor and the Surety to be held not later than fifteen days after receipt of such notice to discuss methods of performing the Construction Contract. If the Owner, the Contractor and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default; and

3.2 The Owner has declared a Contractor Default and formally terminated the Contractor's right to complete the contract. Such Contractor Default shall not be declared earlier than twenty days after the Contractor and the Surety have received notice as provided in Subparagraph 3.1; and

3.3 The Owner has agreed to pay the Balance of the Contract Price to the Surety in accordance with the terms of the Construction Contract or to a contractor selected to perform the Construction Contract in accordance with the terms of the contract with the Owner.

4 When the Owner has satisfied the conditions of Paragraph 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

4.1 Arrange for the Contractor, with consent of the Owner, to perform and complete the Construction Contract; or

4.2 Undertake to perform and complete the Construction Contract itself, through its agents or through independent contractors; or

4.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and the contractor selected

with the Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Paragraph 6 in excess of the Balance of the Contract Price incurred by the Owner resulting from the Contractor's default; or

4.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances:

.1 After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, tender payment therefor to the Owner; or

.2 Deny liability in whole or in part and notify the Owner citing reasons therefor.

5 If the Surety does not proceed as provided in Paragraph 4 with reasonable promptness, the Surety shall be deemed to be in default on this Bond fifteen days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner. If the surety proceeds as provided in Subparagraph 4.4, and the Owner refuses the payment tendered or the Surety has denied liability, in whole or in part, without further notice the Owner shall be entitled to enforce any remedy available to the Owner.

6 After the Owner has terminated the Contractor's right to complete the Construction Contract, and if the Surety elects to act under Subparagraph 4.1, 4.2, or 4.3 above, then the responsibilities of the Surety to the Owner shall not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Construction Contract. To the limit of the amount of this Bond, but subject to commitment by the Owner of the Balance of the Contract Price to mitigation of costs and damages on the Construction Contract, the Surety is obligated without duplication for:

6.1 The responsibilities of the Contractor for correction of defective work and completion of the Construction Contract;

6.2 Additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Paragraph 4; and

6.3 Liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the Contractor.

7 The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators or successors.

8 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

9 Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after Contractor Default or within two years after the Contractor ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

10 Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the signature page.

11 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. The intent is that

this Bond shall be construed as a statutory bond and not as a common law bond.

12 DEFINITIONS

12.1 Balance of the Contract Price: The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts received or to be received by the Owner in settlement of insurance or other claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.

12.2 Construction Contract: The agreement between the Owner and the Contractor identified on the signature page, including all Contract Documents and changes thereto.

12.3 Contractor Default: Failure of the Contractor, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Construction Contract.

12.4 Owner Default: Failure of the Owner, which has neither been remedied nor waived, to pay the Contractor as required by the Construction Contract or to perform and complete or comply with the other terms thereof.

MODIFICATIONS TO THIS BOND ARE AS FOLLOWS:

This Bond will remain in full force and effect until all outstanding requirements of the Owner are resolved and the Owner releases the Bond. The requirement for release includes storm sewer inspections and engineer's Certificate of Completion and Compliance being filed as-built or record drawings being submitted and accepted and any other requirements of Surety release as outlined in the Hamilton County Stormwater Management Technical Standards Manual.

(Space is provided below for additional signatures of added parties, other than those appearing on the cover page.)

CONTRACTOR AS PRINCIPAL

Company: _____ (Corporate Seal)

Signature: J. Scott Eiken

Name and Title: J. SCOTT EIKEN

Address: Fishers IN

SURETY

Company: _____ (Corporate Seal)
THE CINCINNATI INSURANCE COMPANY

Signature: John D. Null

Name and Title: John D. Null VP

Address: Indianapolis IN

The Company executing this bond vouches that this document conforms to American Institute of Architects Document A312, December 1984 Edition.

THE CINCINNATI INSURANCE COMPANY

Fairfield, Ohio

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That THE CINCINNATI INSURANCE COMPANY, a corporation organized under the laws of the State of Ohio, and having its principal office in the City of Fairfield, Ohio, does hereby constitute and appoint Herbert J. Spier; John S. Null; Donald R. Brown; Michael J. Glaser; John D. Null Judy A. Lamm; Cynthia St. John; Tracie M. Fornuto; James G. Null and/or Karen Kay Banter

of Indianapolis, Indiana

its true and lawful Attorney(s)-in-Fact to sign, execute, seal and deliver on its behalf as Surety, and as its act and deed, any and all bonds, policies, undertakings, or other like instruments, as follows:

Any such obligations in the United States, up to One Million and No/100 Dollars (\$1,000,000.00).

This appointment is made under and by authority of the following resolution passed by the Board of Directors of said Company at a meeting held in the principal office of the Company, a quorum being present and voting, on the 6th day of December, 1958, which resolution is still in effect:

"RESOLVED, that the President or any Vice President be hereby authorized, and empowered to appoint Attorneys-in-Fact of the Company to execute any and all bonds, policies, undertakings, or other like instruments on behalf of the Corporation, and may authorize any officer or any such Attorney-in-Fact to affix the corporate seal; and may, with or without cause modify or revoke any such appointment or authority. Any such writings so executed by such Attorneys-in-Fact shall be binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company."

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company at a meeting duly called and held on the 7th day of December, 1973.

"RESOLVED, that the signature of the President or a Vice President and the seal of the Company may be affixed by facsimile on any power of attorney granted, and the signature of the Secretary or Assistant Secretary and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power of certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certified by certificate so executed and sealed shall, with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Company."

IN WITNESS WHEREOF, THE CINCINNATI INSURANCE COMPANY has caused these presents to be sealed with its corporate seal, duly attested by its Senior Vice President this 1st day of March, 2002.



STATE OF OHIO) ss:
COUNTY OF BUTLER)

THE CINCINNATI INSURANCE COMPANY

Handwritten signature of Donald T. McMurphy, Senior Vice President.

On this 1st day of March, 2002, before me came the above-named Senior Vice President of THE CINCINNATI INSURANCE COMPANY, to me personally known to be the officer described herein, and acknowledged that the seal affixed to the preceding instrument is the corporate seal of said Company and the corporate seal and the signature of the officer were duly affixed and subscribed to said instrument by the authority and direction of said corporation.



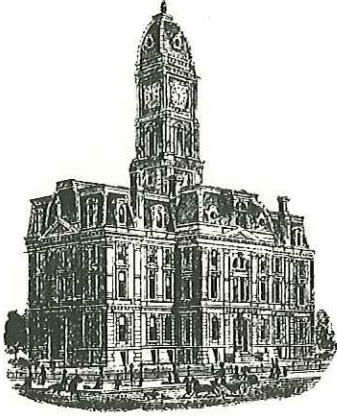
Handwritten signature of Mark J. Huller, Attorney at Law, Notary Public - State of Ohio. My commission has no expiration date. Section 147.03 O.R.C.

I, the undersigned Secretary or Assistant Secretary of THE CINCINNATI INSURANCE COMPANY, hereby certify that the above is a true and correct copy of the Original Power of Attorney issued by said Company, and do hereby further certify that the said Power of Attorney is still in full force and effect.

GIVEN under my hand and seal of said Company at Fairfield, Ohio, this day of



Handwritten signature of Carl O. Beck, Secretary.



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

January 29, 2015

Re: John Roe Drain – Reynolds Farm Equipment Relocation

Attached are as-builts, certificate of completion & compliance, and other information for Reynolds Farm Equipment Relocation. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated December 10, 2012. The report was approved by the Board at the hearing held December 10, 2012. (See Drainage Board Minutes Book 14, Pages 445-446) The changes are as follows: the 48" RCP was lengthened from 579 feet to 582 feet. The 38" x 60" ERCP was shortened from 782 feet to 649 feet.

The length of the drain due to the changes described above is now **1231 feet**. It should be noted that this project removed 1087 feet of the original 8" and 10" tile. Therefore, the project added 144 feet to the drains overall length.


The non-enforcement was approved by the Board at its meeting on January 26, 2015 and recorded under instrument #2015003582.

The following sureties were guaranteed by Cincinnati Insurance Co. and released by the Board on its January 12, 2015 meeting.

Bond-LC No: B0296450
Insured For: Storm Sewers
Amount: \$147,600.00
Issue Date: January 7, 2013

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

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

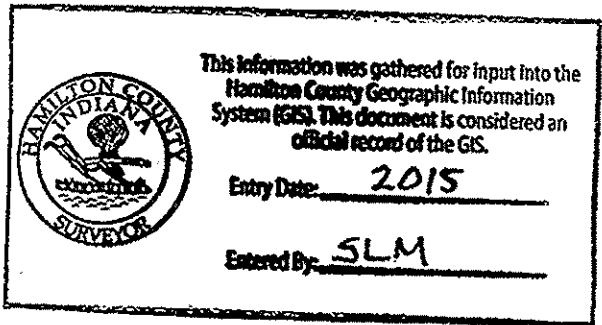
NOTE:
THE LOCATIONS OF EXISTING
UNDERGROUND UTILITIES SHOWN ON THIS
PLAN ARE BASED ON ABOVE GROUND
EVIDENCE. VERIFY ALL EXISTING
INFORMATION IN THE FIELD PRIOR TO
CONSTRUCTION.

HOLEY MOLEY SAYS
"DIG SAFELY"



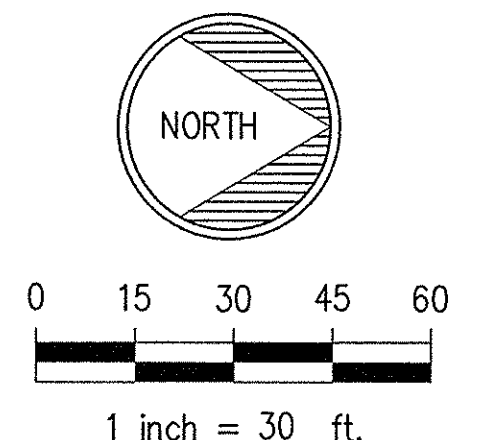
"IT'S THE LAW"
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-382-5544
CALL TOLL FREE

PER INDIANA STATE LAW IC8-1-26,
IT IS AGAINST THE LAW TO EXCAVATE WITHOUT
NOTIFYING THE UNDERGROUND LOCATION SERVICE
TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



CERTIFICATION BY SURVEYOR
The attached ASBUILT DRAWINGS, page C300 through C304 are, to the best of my knowledge and belief a true and correct representation of the STORM SEWER SYSTEM installation.
K. Nathan Althouse
Nathan Althouse #LS20400007
Miller Surveying, Inc.
948 Conner Street
Noblesville, IN 46060
(317) 773-2644
000.00 = DESIGN VALUE
(000.00) = AS-BUILT VALUE
10/30/2014
Date

GRADING & DRAINAGE PLAN
1" = 30'-0"



- LEGEND
- - GUY WIRE
 - - WELL
 - ⊙ - GAS METER
 - - UTILITY POLE
 - ⊕ - INLET
 - ⊙ - MANHOLE
 - 4 - SIGN
 - ⊙ - LIGHT POLE
 - ⊙ - TELEPHONE PEDESTAL
 - - STORM SEWER
 - - PROPOSED SWALE
 - - EXISTING SWALE
 - SS --- - SANITARY SEWER MAIN
 - W --- - UNDERGROUND WATER
 - G --- - UNDERGROUND GAS LINE
 - T --- - UNDERGROUND TELEPHONE LINE
 - E --- - UNDERGROUND ELECTRIC LINE
 - FM --- - FENCE MAIN
 - - EXISTING CONTOUR
 - 802 --- - EXISTING SPOT ELEVATION
 - - SOIL BORING
 - - PROPOSED STORM SEWER
 - F.F.E. - FINISH FLOOR ELEVATION
 - C/O - CLEAN OUT
 - STR. - STRUCTURE
 - INV. - INVERT
 - PVC - POLY VINYL CHLORIDE
 - R.C.P. - REINFORCED CONCRETE PIPE
 - E.R.C.P. - ELLIPTICAL REINFORCED CONCRETE PIPE
 - C.M.P. - CORRUGATED METAL PIPE
 - HDPE - HIGH DENSITY POLYETHYLENE PIPE
 - D.I. - DUCTILE IRON
 - T.C. - TOP OF CASTING
 - EX - EXISTING
 - CONC. - CONCRETE
 - M.E. - MATCH EXISTING
 - S.S.D. - P.V.C PERFORATED SUB SURFACE DRAIN
 - TYP. - TYPICAL
 - L.F. - LINEAR FEET
 - O.C. - ON CENTER
 - - PROPOSED SPOT GRADE
 - - PROPOSED TOP OF CURB GRADE
 - - PROPOSED PAVEMENT GRADE
 - 1.0% - PROPOSED FLOW & SLOPE

GRADING AND DRAINAGE SCHEDULE

- PAVEMENT INLET = NEENAH R-3405 OR APPROVED EQUAL
SUB-SURFACE DRAIN CONNECTION SHALL HAVE ALL PORTS CORE
DRILLED. T OR Y BLIND CONNECTIONS ARE NOT ALLOWED
- 1 MANHOLE STRUCTURE - SEE TYP. DTL. ON C601
 - 2 APPROXIMATE LOCATION OF PROPOSED DOWNSPOUT CONNECTION BOOT
TO 12" PVC, SEE ARCH. PLANS FOR EXACT LOCATION & BOOT TYPE
 - 3 OUTLET CONTROL STRUCTURE - SEE TYP. DTL. ON SHT. C601
 - 4 REMOTE DOCK. SEE ARCH. PLANS FOR ADDITIONAL INFORMATION

GENERAL GRADING NOTES

1. SEE SHEET C300 FOR FULL GENERAL GRADING NOTES.
- STORM SEWER SYSTEM NOTE
SUB-SURFACE DRAIN CONNECTION SHALL
HAVE ALL PORTS CORE DRILLED. T OR Y
BLIND CONNECTIONS ARE NOT ALLOWED.
- STORM SEWER INLET NOTE
ALL STORM WATER DRAINAGE CASTINGS
SHALL BE LABELED WITH ENVIRONMENTAL
MESSAGING THAT MEETS HAMILTON CO.
- CONTRACTOR NOTES
ALL CONCRETE PIPE JOINTS SHALL BE
CONTINUOUS O-RING RUBBER GASKET
CONFORMING TO ASTM C 443
- PIPE LENGTHS SHOWN HAVE BEEN
MEASURED FROM CENTER TO CENTER OF
STRUCTURE. CONSTRUCTED PIPE LENGTHS
MAY VARY FROM PROFILE LENGTHS.

Silver Creek Engineering, Inc.
7225 WOODLAND DRIVE, SUITE 200
INDIANAPOLIS, INDIANA 46278
(317) 297-5610
FAX: (317) 297-2942
www.sceing.com

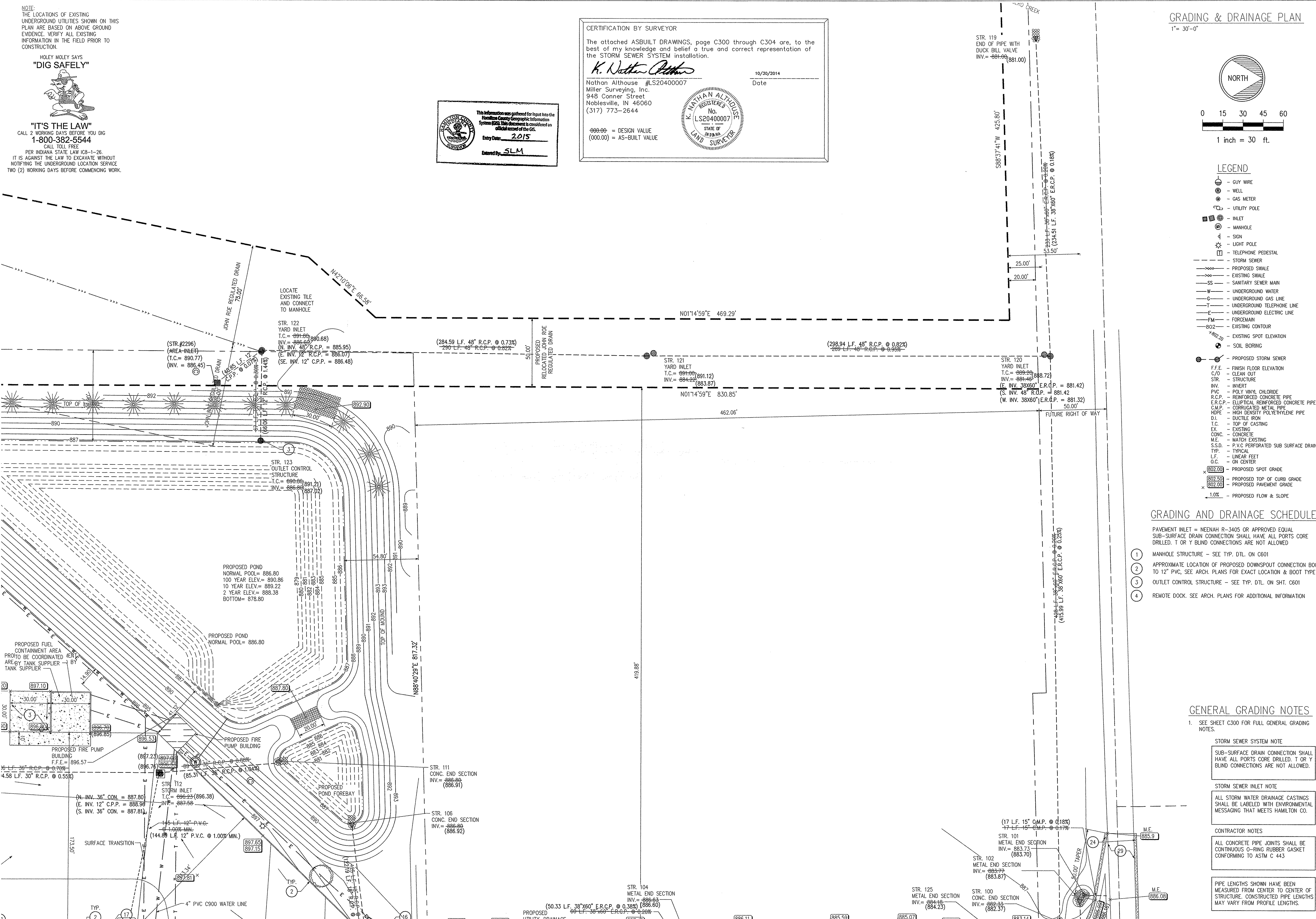
CERTIFIED BY :

PROJECT FOR
DESIGN AND BUILD CORP.
10029 E. 126th ST.
FISHERS, INDIANA 46038

DRAWN BY : KCS
DESIGNED BY : KCS
CHECKED BY : SJS
DATE : 09-17-2012
SCE JOB NO. 12260
SCALE 1" = 30'

DRAWING TITLE
REYNOLDS FARM EQUIPMENT
1451 E. 276TH STREET
ATLANTA, INDIANA 46031
GRADING & DRAINAGE PLAN

SHEET NUMBER
C303



GENERAL GRADING NOTES

- REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, 1995 EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTION BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
- FILL MATERIAL SHALL CONSIST OF EARTH OBTAINED FROM CUT AREAS, BORROW PITS OR OTHER APPROVED SOURCES. EARTH SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES AND LARGE ROCKS. THE FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX INCHES FOLLOWING COMPACTION. PROPER MOISTURE CONTENT OF FILL MATERIAL WILL BE SUCH TO ACHIEVE SPECIFIED COMPACTION DENSITY. ALL FILL BENEATH PAVED AREAS, FLOOR SLABS AND FUTURE BUILDINGS SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D-1557. FIELD COMPACTING TEST SHALL BE RUN ON EACH LIFT, IN FILL SECTIONS, AND THE REQUIRED COMPACTION ON EACH LIFT SHALL BE IN ACCORDANCE WITH INDOT SECTION 211.
- MAXIMUM LAWN SLOPE IS 3:1.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. IN THE AFFECTED CONSTRUCTION AREA. EXISTING UTILITY STRUCTURES ARE SHOWN HERE IN ACCORDANCE WITH AVAILABLE INFORMATION. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL SPOT ELEVATIONS ARE TO FINISHED GRADE.
- COMPACT "B" BORROW BACK FILL REQUIRED. OVER ALL UTILITIES IN PAVED AREAS.
- ALL ROADS MUST BE BROUGHT BACK TO ORIGINAL OR BETTER CONDITION, INCLUDING BUT NOT LIMITED TO STRIPING, STONE SHOULDERS AND SIGNAGE.
- EXISTING GRADE ELEVATIONS ALONG EXISTING PROPERTY LINES SHALL NOT BE CHANGED. FIELD VERIFY ALL ELEVATIONS BEFORE PROCEEDING WITH FINAL GRADING. NOTIFY ENGINEER IF ANY DISCREPANCIES ARISE.
- FIELD VERIFY ALL ELEVATIONS BEFORE PROCEEDING WITH INSTALLATION OF NEW STORM SEWER LINES AND INLETS. NOTIFY THE ENGINEER IF ANY DISCREPANCIES ARISE.
- SEE ENTIRE SET OF PLANS, INCLUDING THE HAMILTON COUNTY DETAILS FOR ADDITIONAL INFORMATION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WITH ANY WORK. IF A UTILITY IS LOCATED WHERE NEW STORM SEWER LINES ARE PROPOSED THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH ANY WORK IN THE AREA UNDER QUESTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACQUAINT HIMSELF WITH SUBSOIL CONDITIONS.
- ALL STORM DRAINAGE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL STORM SEWER SPECIFICATIONS AND REQUIREMENTS.
- FIELD TILE ENCOUNTERED SHALL BE REPLACED AND/OR CONNECTED TO THE STORM SEWER SYSTEM.
- ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- A SOILS INVESTIGATION SHALL BE PERFORMED BY A QUALIFIED SOILS OR GEOTECHNICAL ENGINEER FOR THE PROPOSED POND TO DETERMINE IF THE POND WILL FUNCTION AS A SEALED SYSTEM. IF PERMEABLE SOIL IS FOUND, A LINER COVERING THE BOTTOM AND SIDESLOPES WILL LIKELY BE NECESSARY FOR THE POND TO RETAIN WATER. THE QUALIFIED ENGINEER SHALL MAKE RECOMMENDATIONS FOR THE POND LINER (I.E. CLAY-BENTONITE SEALER, NATURAL CLAY LINER, OR A TYPE OF SYNTHETIC LINER) AND METHODS OF CONSTRUCTION.

BENCHMARK INFORMATION

HORIZONTAL AND VERTICAL CONTROL:
 COORDINATE SYSTEM:
 US STATE PLANE 1983 (AT GROUND)
 PROJECT DATUM:
 WORLD GEODETIC SYSTEM (WGS 1984)
 VERTICAL DATUM:
 NAVD 88
 ZONE:
 INDIANA EAST 1301
 GEIOD MODEL:
 GEODS (CONUS)
 COORDINATE UNITS US SURVEY FEET
 DISTANCE UNITS US SURVEY FEET
 HEIGHT UNITS US SURVEY FEET

TBM# 13 REBAR ELEV=898.36
 TBM# 15 REBAR ELEV=891.16
 TBM# 14 REBAR ELEV=892.15
 TBM# 39 REBAR ELEV=901.11

LEGEND

- GUY WIRE
- WELL
- GAS METER
- UTILITY POLE
- INLET
- MANHOLE
- SIGN
- LIGHT POLE
- TELEPHONE PEDESTAL
- STORM SEWER
- PROPOSED SWALE
- EXISTING SWALE
- SS - SANITARY SEWER MAIN
- W - UNDERGROUND WATER
- G - UNDERGROUND GAS LINE
- T - UNDERGROUND TELEPHONE LINE
- E - UNDERGROUND ELECTRIC LINE
- FM - FORCEMAIN
- S02 - EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- SOIL BORING
- PROPOSED STORM SEWER
- F.F.E. - FINISH FLOOR ELEVATION
- C/O - CLEAN OUT
- STR. - STRUCTURE
- INV. - INVERT
- PVC - POLY VINYL CHLORIDE
- R.C.P. - REINFORCED CONCRETE PIPE
- E.R.C.P. - ELLIPTICAL REINFORCED CONCRETE PIPE
- C.M.P. - CORRUGATED METAL PIPE
- HDPE - HIGH DENSITY POLYETHYLENE PIPE
- D.I. - DUCTILE IRON
- TOP OF CASTING
- T.C. - TOP OF CASTING
- EX. - EXISTING
- CONC. - CONCRETE
- M.E. - MATCH EXISTING
- S.S.D. - P.V.C PERFORATED SUB SURFACE DRAIN
- TYP. - TYPICAL
- L.F. - LINEAR FEET
- O.C. - ON CENTER
- PROPOSED SPOT GRADE
- PROPOSED TOP OF CURB GRADE
- PROPOSED PAVEMENT GRADE
- 1.0% - PROPOSED FLOW & SLOPE

FLOOD ZONE DEFINITION

| ZONE | EXPLANATION |
|------|--|
| "A" | AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND HAZARD FACTORS NOT DETERMINED |
| "X" | AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN. |

THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY NATIONAL FLOOD INSURANCE PROGRAM AS PER SCALED INTERPRETATION OF FLOOD RATE MAP #18057C0025F. AREA IN ZONE "A" & "X" MAP DATED 2/19/2003.

STORM SEWER SYSTEM NOTE

SUB-SURFACE DRAIN CONNECTION SHALL HAVE ALL PORTS CORE DRILLED. T OR Y BLIND CONNECTIONS ARE NOT ALLOWED.

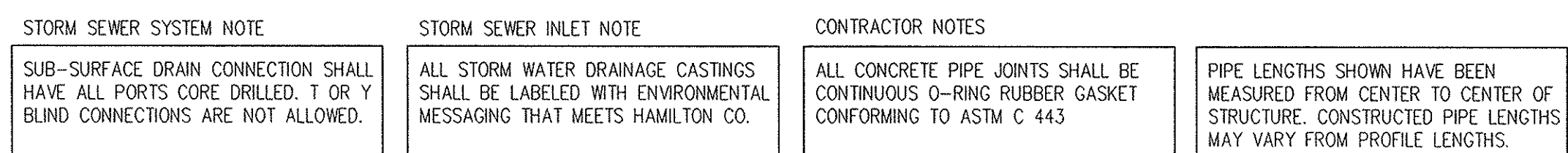
STORM SEWER INLET NOTE

ALL STORM WATER DRAINAGE CASTINGS SHALL BE LABELED WITH ENVIRONMENTAL MESSAGING THAT MEETS HAMILTON CO.

CONTRACTOR NOTES

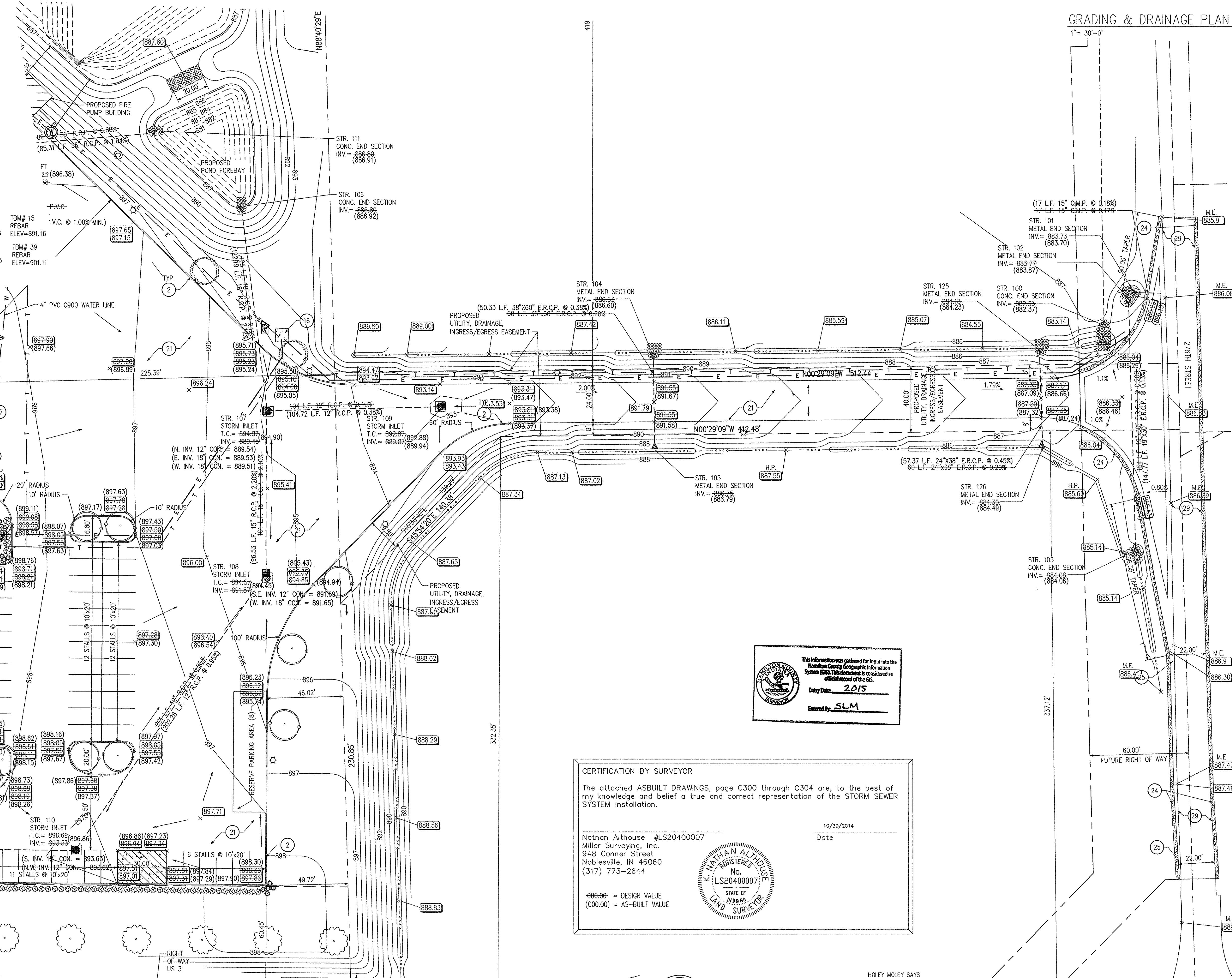
ALL CONCRETE PIPE JOINTS SHALL BE CONTINUOUS O-RING RUBBER GASKET CONFORMING TO ASTM C 443

PIPE LENGTHS SHOWN HAVE BEEN MEASURED FROM CENTER TO CENTER OF STRUCTURE. CONSTRUCTED PIPE LENGTHS MAY VARY FROM PROFILE LENGTHS.



GRADING & DRAINAGE PLAN

1" = 30'-0"



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: 2/015
 Entered by: SLM

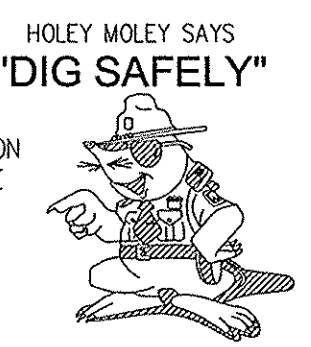
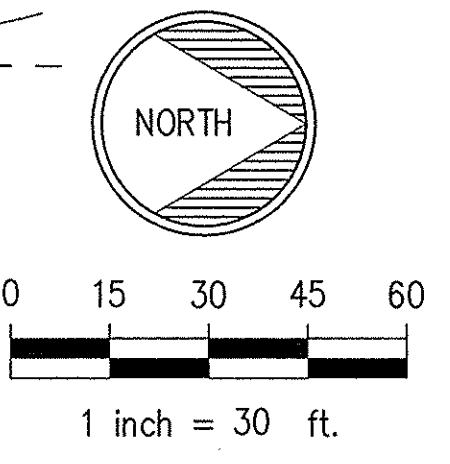
CERTIFICATION BY SURVEYOR

The attached ASBUILT DRAWINGS, page C300 through C304 are, to the best of my knowledge and belief a true and correct representation of the STORM SEWER SYSTEM installation.

10/30/2014
 Date

Nathan Althouse #LS20400007
 Miller Surveying, Inc.
 948 Conner Street
 Noblesville, IN 46060
 (317) 773-2644

000.00 = DESIGN VALUE
 (000.00) = AS-BUILT VALUE



"IT'S THE LAW"
 CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-382-5644
 CALL TOLL FREE
 PER INDIANA STATE LAW ICS-1-26.
 IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

GRADING AND DRAINAGE SCHEDULE

- PAVEMENT INLET = NEENAH R-3405 OR APPROVED EQUAL. SUB-SURFACE DRAIN CONNECTION SHALL HAVE ALL PORTS CORE DRILLED. T OR Y BLIND CONNECTIONS ARE NOT ALLOWED
- MANHOLE STRUCTURE - SEE TYP. DTL. ON C601
 - APPROXIMATE LOCATION OF PROPOSED DOWNSPOUT CONNECTION BOOT TO 12" PVC, SEE ARCH. PLANS FOR EXACT LOCATION & BOOT TYPE
 - OUTLET CONTROL STRUCTURE - SEE TYP. DTL. ON SHT. C601
 - REMOTE DOCK. SEE ARCH. PLANS FOR ADDITIONAL INFORMATION

Stewart Creek Engineering, Inc.
 7225 WOODLAND DRIVE, SUITE 200
 INDIANAPOLIS, INDIANA 46278
 (317) 773-2644
 FAX: (317) 773-2642
 WWW.STEWARTCREEK.COM

CERTIFIED BY :

PROJECT FOR
DESIGN AND BUILD CORP.
 10029 E. 126th ST.
 FISHERS, INDIANA 46038

DRAWN BY : KCS
 DESIGNED BY : KCS
 CHECKED BY : SJS
 DATE : 09-17-2012
 SCE JOB NO. 12260
 SCALE: 1" = 30'

DRAWING TITLE
REYNOLDS FARM EQUIPMENT
 1451 E. 276TH STREET
 ATLANTA, INDIANA 46031
 GRADING & DRAINAGE PLAN

SHEET NUMBER
C300