

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

October 4, 2013

To: Hamilton County Drainage Board

Re: Village of West Clay Drain, Village Center Townhomes Phase 1 Arm.

Attached is a petition filed by Brenwick TND Communities, LLC, along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Village Center Townhomes Phase 1 Arm, Village of West Clay Drain to be located in Clay 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:

12" RCP 139 ft. 18" RCP 145 ft.

This proposal will add an additional 284 feet to the drains total length.

Structure 600, which is a Stormtrap water quality unit, shall be part of the regulated drain, but the primary maintenance responsibility will be that of the Village of West Clay HOA.

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, \$5.00 per acre for roadways, with a \$120.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$3,000.00.

Parcels assessed for this drain will also be assessed for the Williams Creek Drain.

The petitioner has submitted surety for the proposed drain at this time. The sureties which are in the form of a Performance Bond from contractor and cash bond from developer are as follows:

Agent: Bond Safeguard Insurance Company
Date: July 24, 2013
Number: 5040931
For: Storm Sewers
Amount: \$28,488.00

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC36-9-27-67 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 Replat of Part of Block D -Village of West Clay Section 3004 – Village Center Part 1 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 25, 2013.



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

(Revised 06/08/04)

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

FILED
MAY 23 2003
OFFICE OF HAMILTON COUNTY SURVEYOR

TO: HAMILTON COUNTY DRAINAGE BOARD
% Hamilton County Surveyor
One Hamilton County Square, Suite 188
Noblesville, IN. 46060-2230

In the matter of Replat of Pt of Block D, Village of WestClay Sec 3004 Subdivision, Section
Village of WestClay Drain Petition.

Petitioner is the owner of all lots in the land affected by the proposed new regulated drain. The drainage will affect various lots in Replat of Pt of Block D, Village of WestClay Sec 3004, a subdivision in Hamilton County, Indiana. The general route of such drainage shall be in existing easements and along public roads as shown in the plans on file in the Surveyor's Office.

Petitioner believes that the cost, damages and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land likely to be benefited thereby. Petitioner believes the proposed improvements will:

- (a) improve public health
- (b) benefit a public street
- (c) be of public utility

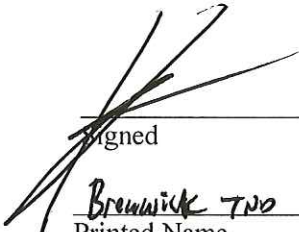
Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

The Petitioner also agrees to the following:

1. To provide the Drainage Board a Performance Bond or Non-Revocable Letter of Credit for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 120% of the Engineer's estimate. The bond will be in effect until construction of 100% of the system is completed and so certified by the Engineer.
2. The Petitioner shall retain an Engineer throughout the construction phase. At completion of the project the Petitioner's Engineer shall certify that the drainage system which is to be maintained as a regulated drain has been constructed as per construction plans.
3. The Petitioner agrees to request in writing to the County Surveyor any changes from the approved plan and must receive written authorization from the County Surveyor prior to implementation of the change. All changes shall be documented and given to the Surveyor to be placed in the Drain file.
4. The Petitioner shall instruct his Engineer to provide a reproducible print on a 24" x 36" Mylar of the final design of the Drainage System. This shall be submitted to the County Surveyor prior to the release of the Performance Bond.
5. The Petitioner shall comply with the Erosion Control Plan as specified on the construction plans. Failure to comply with the Erosion Control Plan shall be determined by the Board as being an obstruction to the drainage system. The County Surveyor shall immediately install or repair the needed measures at Petitioners cost as per IC 36-9-27-46.

The Petitioner further requests that the Drain be classified as an Urban Drain as per IC 36-9-27-69(d).

RECORDED OWNER(S) OF LAND INVOLVED



Signed
Brewing TND Communities, LLC

Printed Name
5/21/13

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date



TERRA Site Development, Inc
 1301 W. 161st Street
 Westfield, IN 46074
 317-399-1216

PRELIMINARY CONSTRUCTION COST ESTIMATE

PROJECT: VILLAGE CENTER TOWNHOMES PHASE I		DATE: JULY 10, 2013
LOCATION: CARMEL	ITEM: SUMMARY	PROJECT #: 130313-1.001

DESCRIPTION

MONUMENTATION	\$3,750
WATER QUALITY	\$14,500
STORM SEWER	\$23,740
PAVEMENT IN R/W	\$1,840
CURB IN R/W	\$2,304
EROSION CONTROL	\$7,480
SIDEWALKS	\$12,605
TOTAL	\$66,218

Note:

This cost opinion was generated from TERRA Village Center Townhomes Phase I Construction Plans Dated 4/22/13, Revised 7/23/13



David K. Sexton

July 11, 2013

PRELIMINARY CONSTRUCTION COST ESTIMATE

PROJECT: VILLAGE CENTER TOWNHOMES PHASE I	DATE: JULY 10, 2013
LOCATION: CARMEL	ITEM: MONUMENTATION PROJECT #: 130313-1.001

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
STREET MARKERS & LOT CORNERS	50	EA	\$75.00	\$3,750.00
TOTAL MONUMENTATION				\$3,750.00

PRELIMINARY CONSTRUCTION COST ESTIMATE

PROJECT: VILLAGE CENTER TOWNHOMES PHASE I		DATE: JULY 10, 2013	
LOCATION: CARMEL	ITEM: EROSION	PROJECT #: 130313-1.001	

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
SEEDING	5925	SYDS	\$0.35	\$2,073.75
SILT FENCE	1460	LF	\$1.35	\$1,971.00
CONSTRUCTION ENTRANCE	1	EA	\$1,900.00	\$1,900.00
CURB INLET PROTECTION	9	EA	\$115.00	\$1,035.00
HC RAMP PROTECTION	4	EA	\$125.00	\$500.00
TOTAL EROSION				\$7,479.75



HCDB-2013-00043

**BOND SAFEGUARD INSURANCE COMPANY
Mount Juliet, TN 37122**

SUBDIVISION PERFORMANCE BOND

BOND #5040931

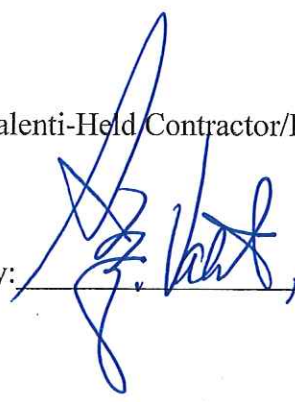
KNOW ALL MEN BY THESE PRESENTS, That we, **Valenti-Held Contractor/Developer, Inc.**, 755 W. Carmel Drive, Suite 207, Carmel, IN 46032, as Principal, and Bond Safeguard Insurance Company, 12890 Lebanon Road, Mount Juliet 37122, as Surety, are held and firmly bound unto the **Board of Commissioners of Hamilton County**, One Hamilton County Square, Suite 157, Noblesville, IN 46060 as Owner, in the sum of ****Twenty Eight Thousand Four Hundred Eighty-Eight and 00/100 **Dollars (\$28,488.00)** for payment of which we firmly bind ourselves, our heirs, executors, administrators, and assigns.

THE CONDITION OF THIS BOND is such that if the said Principal shall complete the construction of **Village of WestClay, Village Center Townhomes, Phase 1 – Storm Sewers** according to the approved plans and specifications on file with the **Board of Commissioners of Hamilton County**, then this obligation is null and void, otherwise to remain in full force and effect.

IN WITNESS WHEREOF, we have hereunto set our hands and seal this 24th Day of July, 2013.

Valenti-Held Contractor/Developer, Inc.

Bond Safeguard Insurance Company

By:  G. Valenti, C.E.O.

By: 
Deborah M. Roth, Attorney-in-Fact

American Contracting Services, Inc.
340 E. Thompson Road
Indianapolis, IN 46227
(317) 780-1919

POWER OF ATTORNEY
Bond Safeguard INSURANCE COMPANY

AO 79440



KNOW ALL MEN BY THESE PRESENTS, that **BOND SAFEGUARD INSURANCE COMPANY**, an Illinois Corporation with its principal office in Woodridge, Illinois, does hereby constitute and appoint: Anthony George Balzano, Deborah Mary Roth, *****
Jacqueline Demeter, Cheryl L. Beaird *****

its true and lawful Attorney(s)-In-Fact to make, execute, seal and deliver for, and on its behalf as surety, any and all bonds, undertakings or other writings obligatory in nature of a bond.

This authority is made under and by the authority of a resolution which was passed by the Board of Directors of **BOND SAFEGUARD INSURANCE COMPANY** on the 7th day of November, 2001 as follows:


Resolved, that the President of the Company is hereby authorized to appoint and empower any representative of the Company or other person or persons as Attorney-In-Fact to execute on behalf of the Company any bonds, undertakings, policies, contracts of indemnity or other writings obligatory in nature of a bond not to exceed \$1,000,000.00, One Million Dollars, which the Company might execute through its duly elected officers, and affix the seal of the Company thereto. Any said execution of such documents by an Attorney-In-Fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company. Any Attorney-In-Fact, so appointed, may be removed for good cause and the authority so granted may be revoked as specified in the Power of Attorney.

Resolved, that the signature of the President and the seal of the Company may be affixed by facsimile on any power of attorney granted, and the signature of the Assistant Secretary, and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power or certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and 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 THEREOF, **BOND SAFEGUARD INSURANCE COMPANY** has caused this instrument to be signed by its President, and its Corporate seal to be affixed this 7th day of November, 2001.



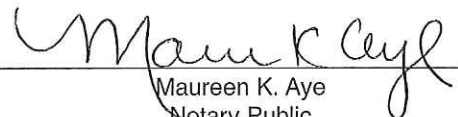
BOND SAFEGUARD INSURANCE COMPANY

BY 
David E. Campbell
President

ACKNOWLEDGEMENT

On this 7th day of November, 2001, before me, personally came David E. Campbell to me known, who being duly sworn, did depose and say that he is the President of **BOND SAFEGUARD INSURANCE COMPANY**, the corporation described in and which executed the above instrument; that he executed said instrument on behalf of the corporation by authority of his office under the By-laws of said corporation.

"OFFICIAL SEAL"
MAUREEN K. AYE
Notary Public, State of Illinois
My Commission Expires 09/21/13


Maureen K. Aye
Notary Public

CERTIFICATE

I, the undersigned, Assistant Secretary of **BOND SAFEGUARD INSURANCE COMPANY**, An Illinois Insurance Company, DO HEREBY CERTIFY that the original Power of Attorney of which the foregoing is a true and correct copy, is in full force and effect and has not been revoked and the resolutions as set forth are now in force.

Signed and Sealed at Woodridge, Illinois this 24th Day of July, 2013




Philip G. Lauer
Assistant Secretary

FINDINGS AND ORDER

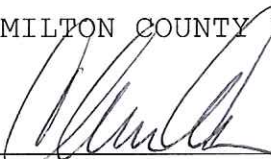
CONCERNING THE MAINTENANCE OF THE

Village of West Clay Drain, Village Center Townhomes Phase 1 Arm


On this 25th day of November, 2013, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Village of West Clay Drain, Village Center Townhomes Phase 1 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:  _____

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

*Village of West Clay Drain,
Village Center Townhomes Phase 1 Arm*

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Village of West Clay Drain, Village Center Townhomes Phase 1 Arm** on **November 25, 2013** at **9:15 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana, and which construction and maintenance reports of the Surveyor and the Schedule of Assessments made by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF THE

Village of West Clay Drain, Village Center Townhomes Phase 1 Arm

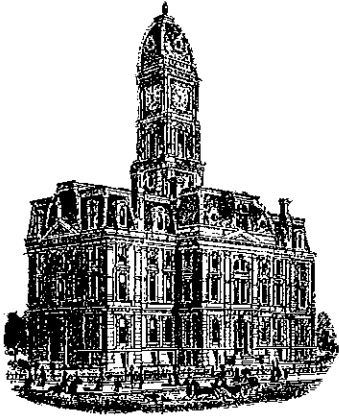
NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **November 25, 2013** has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY



Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

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

To: **Hamilton County Drainage Board**

March 13, 2014

Re: Village of West Clay – Village Center Townhomes Phase 1

Attached are as-builts, certificate of completion & compliance, and other information for Village Center Townhomes Phase 1. 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 October 4, 2013. The report was approved by the Board at the hearing held November 25, 2013. (See Drainage Board Minutes Book 15, Pages 269-271)
The changes are as follows:


The 18" RCP was lengthened from 145 feet to 150 feet. The 12" RCP was shortened from 139 feet to 137 feet. The length of the drain due to the changes described above is now **287 feet**.

The non-enforcement was approved by the Board at its meeting on November 25, 2013 and recorded under instrument #2013070709. The following sureties were guaranteed by Bond Safeguard Insurance Company and released by the Board on its November 25, 2013 meeting.

Bond-LC No: 5040931
Insured For: Storm Sewers
Amount: \$28,488.00
Issue Date: July 24, 2013

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

Sincerely,


Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Village Center Townhomes Phase 1 - Village of WestClay

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: David K. Sexton Date: November 5, 2013

Type or Print Name: David K. Sexton

Business Address: Terra Site Development, Inc.

1307 W. 161st Street, Westfield, IN 46074

Telephone Number: 317-690-1538



INDIANA REGISTRATION NUMBER

9500028

FILED

NOV 12 2013

OFFICE OF HAMILTON COUNTY SURVEYOR

Village Center Townhomes Phase 1 Village of West Clay Site Construction Plans

Part of the Sec 28, T18N, R3E, Clay Township, Hamilton County, Carmel, Indiana

DEVELOPER:

Brenwick Development Co., Inc.
12775 Horseferry Road S230
Carmel, IN 46032

Contact: Keith Lash
317-574-3400
Email: keithl@brenwick.com

SITE DATA:

EXISTING ZONING: Westclay Village Planned Unit Development District Ordinance Z-465-04

UTILITIES:

Water:
Carmel Water
760 3rd Avenue SW, Ste 110
Carmel, IN 46032
317-571-2443

Sanitary Sewer:
Clay Township Regional Waste
10701 North College Avenue
Indianapolis, IN 46280
317-844-9200

Telephone:
SBC
5858 N. College Avenue
Indianapolis, IN 46220
317-252-5143

Cable:
Bright House Networks
3030 Roosevelt Avenue
Indianapolis, IN 46218
317-972-9700

Gas:
Vectren Energy Delivery
P.O. Box 1700
Noblesville, IN 46060
317-776-5534

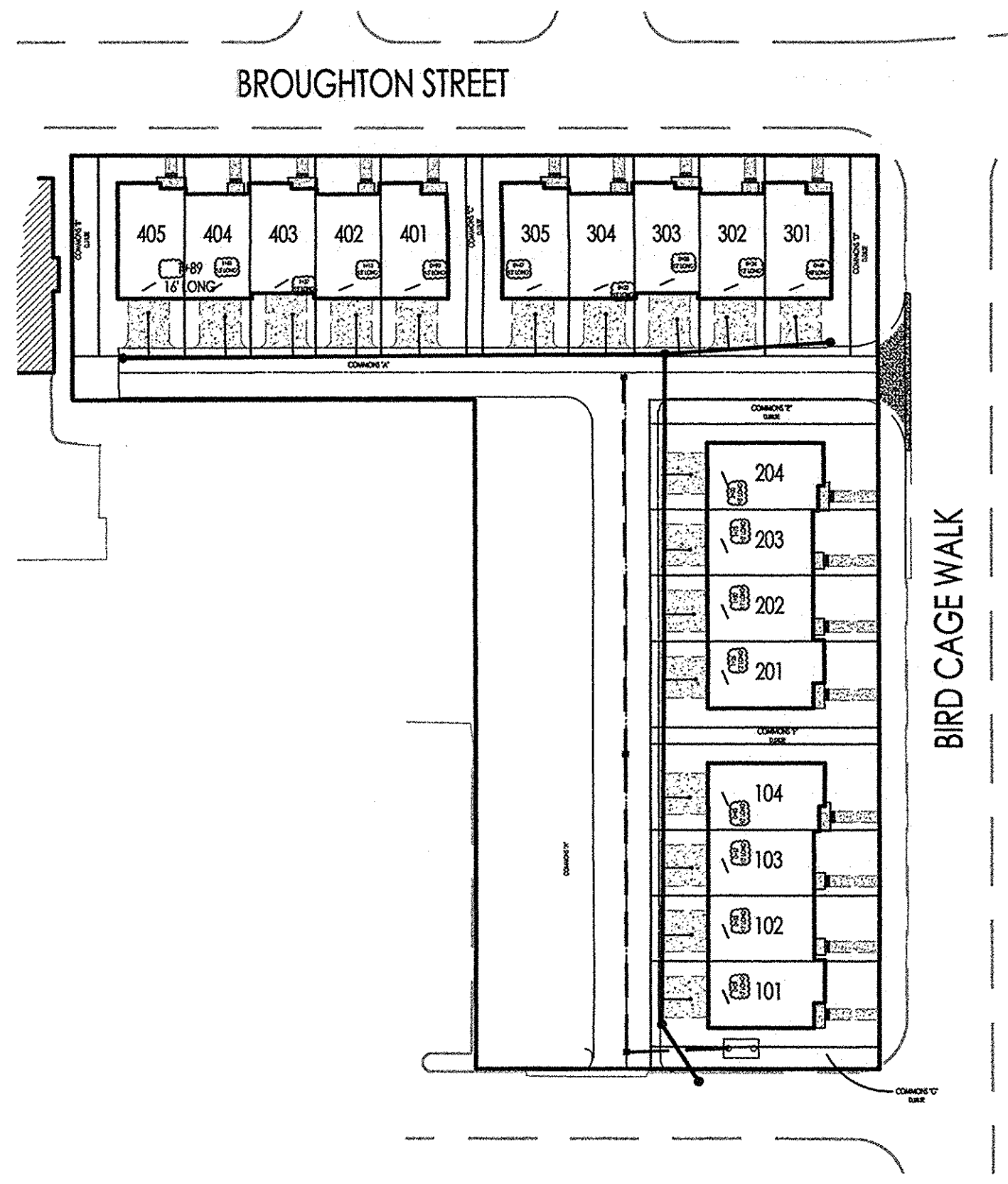
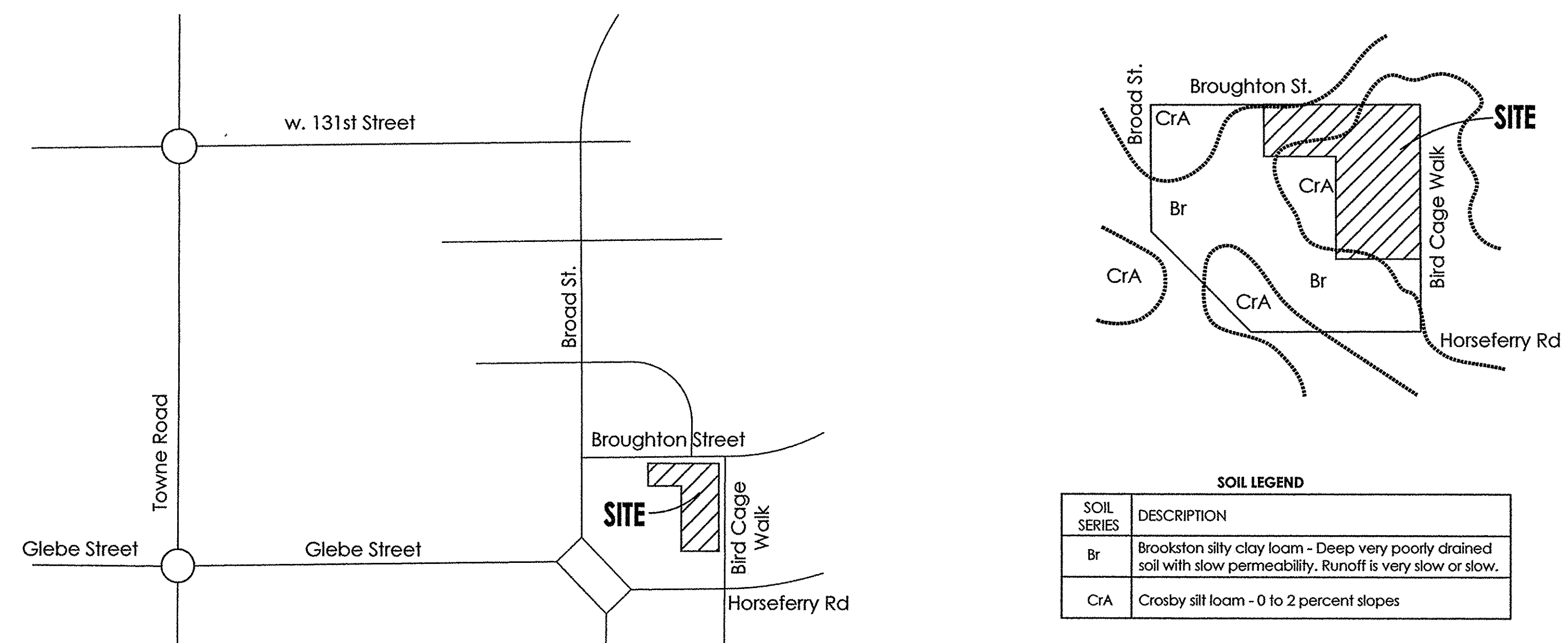
Electric:
Duke Energy
16475 Southpark Drive
Westfield, IN 46074
317-896-6711

Firstmile:
750 Liberty Drive
Westfield, IN 46074
317-569-2806

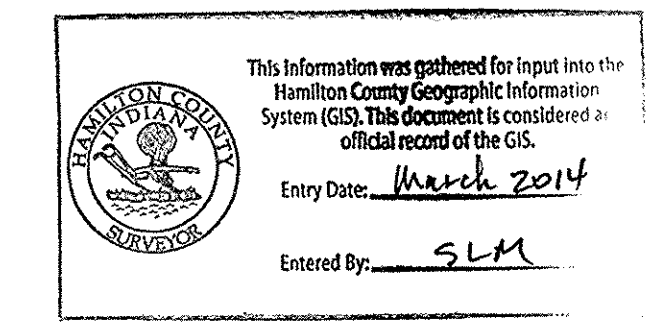
RECORD DRAWINGS Sanitary Sewers Storm Sewers

Date: October 7, 2013

INDEX	
SHEET No:	SHEET NAME
C100	COVER SHEET
C101	SITE PLAN
C102	SITE DEVELOPMENT PLAN
C103	STORM WATER POLLUTION PREVENTION PLAN
C104	STORM WATER POLLUTION PREVENTION DETAILS
C105	STORM WATER POLLUTION PREVENTION NOTES
C106	EXISTING CONDITIONS PLAN
C401	SANITARY SEWER PLAN & PROFILE
C401	STORM SEWER PLAN & PROFILE
C901-C902	CONSTRUCTION DETAILS
C901-C902	CONSTRUCTION SPECIFICATIONS



Date: April 22, 2013
Certified By: David K. Sexton, P.E.
Email Address: dsexton@TERRAsitedev.com



NORTH
1307 W. 1614 Street
Westfield, Indiana 46074

SOUTH
Purdue Technology Center of
Indianapolis
6225 Purduetown Drive, Suite 133
Indianapolis, Indiana 46241

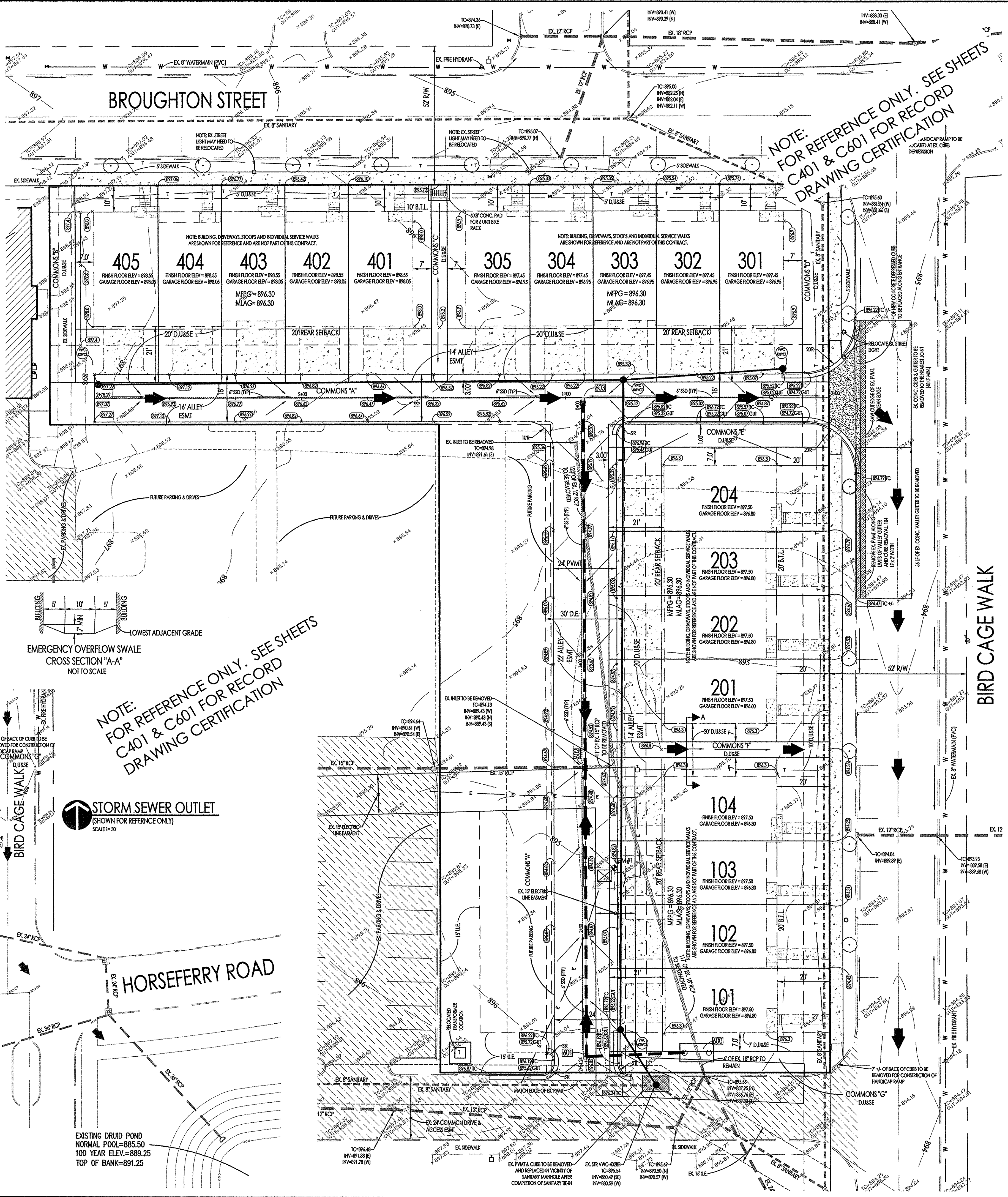
P: 317.269.1316
F: 317.663.3949
www.TERRAsitedev.com

TERRA
SITE DEVELOPMENT, INC.
DEVELOPMENT & ENGINEERING CONSULTANTS

Village Center Townhomes Phase 1
Village of West Clay
Brenwick Development, Co., Inc

REVISIONS:	DATE	BY	DESCRIPTION
	5/9/13	DKS	REV. P&I CHANGE E EMENT/FLOOR ELEV. LOTS 101-104
	5/9/13	DKS	REV. SPPFP & EMENT/FLOOR WATER QUALITY UNIT DETAILS
	6/14/13	DKS	REV. SPPFP & EMENT/FLOOR WATER QUALITY UNIT DETAILS
	6/28/13	DKS	REV. SPPFP & EMENT/FLOOR WATER QUALITY UNIT DETAILS
	7/2/13	DKS	REV. SPPFP & EMENT/FLOOR WATER QUALITY UNIT DETAILS

DATE: APRIL 22, 2013
PROJECT NUMBER: 130313-1.001
DRAWN BY: DKS
CHECKED BY: DKS
SHEET TITLE: COVER SHEET
SHEET #: C100 of 13



GENERAL NOTES

- GRADES SHOWN ARE FINISH GRADES. FOR SUBGRADE ELEVATIONS SEE PAVING SECTIONS AND DETAILS AND/OR ARCHITECTURAL PLANS.
- CONTRACTOR TO ADJUST THE ELEVATION OF ALL SURFACE INFRASTRUCTURE (IE. RIMS, LIDS, VALVES, HANDHOLES, IRRIGATION SYSTEM, ETC.) AS REQUIRED TO MEET PROPOSED GRADE.
- THE CONTRACTOR SHALL ENSURE THAT ALL NECESSARY PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM AGENCIES HAVING JURISDICTION OVER THE WORK PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL OBTAIN AND PAY THE COST OF ALL PERMITS THAT HAVE NOT BEEN SECURED BY THE OWNER.
- THE CONTRACTOR SHALL COMPLY WITH THE MOST CURRENT CONSTRUCTION SAFETY STANDARDS AS ISSUED BY THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION WHERE SUCH REGULATIONS APPLY TO THE WORK.
- LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES OR THEIR REPRESENTATIVES AND FIELD EVIDENCE OF IMPROVEMENTS VISIBLE ON THE GROUND SURFACE. EXACT LOCATIONS OF UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AND REQUEST FIELD LOCATIONS OF SUCH WITHIN THE WORK AREA PRIOR TO COMMENCING EXCAVATION ACTIVITIES. THE CONTRACTOR SHALL REPORT ANY VARIATIONS FROM THE LOCATIONS SHOWN THAT MAY PRESENT A CONFLICT WITH EXECUTION OF THE WORK TO THE ENGINEER IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES AND SHALL PAY THE COST OF PROTECTION, RELOCATION, REMOVAL, CONNECTION, AND/OR RECONNECTION OF UTILITIES AS NECESSARY FOR EXECUTION OF THE WORK.
- MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS.
- ALL BUILDING DIMENSIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF RAMPS, STOODS, DOORS, BUILDING DIMENSIONS AND UTILITY CONNECTION POINTS.
- THE BOUNDARY AND TOPOGRAPHIC INFORMATION DENOTED HEREON IS BASED UPON A SURVEY PERFORMED BY HAHN SURVEYING GROUP, INC. APRIL, 2013.
- SEE ARCHITECTURAL PLANS (BY OTHERS) FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF UTILITY SERVICE LINES.
- EASEMENTS AND SETBACKS ARE SHOWN FOR REFERENCE ONLY. SEE RECORDED SECONDARY PLAT FOR EXACT INFORMATION.
- ALL PROPOSED PAVING TO BE COMPLETED IN ONE PAVING SEASON.
- PROTECT EXISTING CURBING DURING CONSTRUCTION. ANY CURBING DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY OF CARMEL, DEPARTMENT OF ENGINEERING.
- ALL PAVING WITHIN THE EXISTING RIGHT OF WAY (BIRD CAGE WALK) SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF ENGINEERING. CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT'S CONSTRUCTION REQUIREMENTS, STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF THE WORK AND TO REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO WORK WITHIN THE EXISTING RIGHT OF WAY.
- NO EARTH DISTURBING ACTIVITIES MAY COMMENCE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.
- ANY PLANNED LANE RESTRICTIONS ON BIRD CAGE WALK REQUIRE CARMEL BOARD OF PUBLIC WORKS AND SAFETY APPROVAL.
- UTILITY RELOCATIONS REQUIRED BY THE PROPOSED PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. UTILITY LINE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH THE PROPOSED DEVELOPMENT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO RESOLVE WITH THE UTILITY. EXISTING POLE LINES REQUIRED TO BE RELOCATED SHALL BE RELOCATED TO WITHIN ONE FOOT OF PROPOSED RIGHT OF WAY LINES.
- MINIMUM FLOOD PROTECTION GRADE (MFPG) OF ALL STRUCTURES FRONTING A POND OR OPEN DITCH SHALL BE NO LESS THAN 1' ABOVE ANY ADJACENT 100-YEAR LOCAL OR REGIONAL FLOOD ELEVATIONS WHICH EVER IS GREATER. FOR ALL WINDOWS, DOORS, PIPE ENTRANCES, WINDOW WELLS AND ANY OTHER STRUCTURE MEMBER WHERE FLOODWATERS CAN ENTER A BUILDING.
- MINIMUM LOWEST ADJACENT GRADE (MLAG) IS THE ELEVATION OF THE LOWEST GRADE ADJACENT TO THE BUILDING WHERE THE SOIL MEETS THE FOUNDATION AROUND THE OUTSIDE OF THE STRUCTURE (INCLUDING STRUCTURAL MEMBERS SUCH AS BASMENT WALKOUTS, PATIOS, DECKS, PORCHES, SUPPORT POSTS OR PIERS AND RIM OF A WINDOW WELL).
- ALL SIDEWALKS SHALL HAVE A MINIMUM CROSS SLOPE OF 2.00% (1:50) AND A MAXIMUM RUNNING SLOPE OF 5.00% (1:20)
- SUBJECT PROPERTY DOES NOT LIE WITHIN THAT SPECIAL FLOOD HAZARD ZONE "A" AS DENOTED ON COMMUNITY PANEL NUMBER 18057C0205F OF THE FEMA FLOOD INSURANCE RATE MAPS, EFFECTIVE DATE FEBRUARY 19, 2003.
- PROPOSED STORM SEWER SYSTEM TO BE PART OF THE VILLAGE OF WESTCLAY LEGAL DRAIN SYSTEM.

STORM SEWER STRUCTURE DATA TABLE

STRUCTURE	FROM	TO	DIA. (IN)	PIPE	TOP OF CURB	INVERT	INVERT	DEPTH (FT)	STRUCTURE
					UP	UP	DOWN	UP	TYPE
603	602	139	12	RCP	895.02	894.42	891.62	3.1	4.0 INLET
602	601	109	18	RCP	894.42	895.42	889.61	4.6	6.5 INLET
601	600	43	18	RCP	895.42	895.72	888.53	6.6	7.3 INLET
600	EX1	7	18	RCP	895.72	895.56	888.04	6.7	7.3 MANHOLE

DRAINAGE SUMMARY

PROPOSED PROJECT AREA = 1.44 AC.
 UPSTREAM AREA = 1.75 AC. +/-
 PROPOSED 10 YR. RELEASE RATE = 7.72 CFS (AT STR. 600)

BENCHMARK

BASES OF ELEVATIONS: HC88 45. HAMILTON COUNTY CONTROL DISK SET IN 1 FT X 1 FT CONCRETE POST L BRIDGE OVER HENLEY CREEK ON SIX POINTS ROAD. ELEVATION = 873.04 (NAVD 88)

TBM #1: CUT "SQUARE" SET ON THE NORTHEAST CORNER OF A CONCRETE TRANSFORMER PAD ON SITE. ELEVATION = 895.99 (NAVD 88)

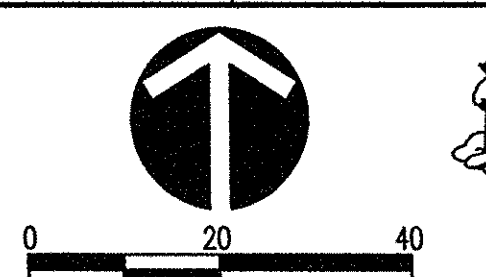
LEGEND

- EXISTING CONCRETE
- EXISTING ASPHALT PATH
- BM / TBM
- EX. BURIED ELECTRIC
- EX. BURIED TELEPHONE
- PROPOSED TOP OF CURB ELEV
- PROPOSED FINISH PVMF ELEV
- PROPOSED FLOWLINE
- EX. SIGN
- EX. ELECTRIC PEDESTAL
- EX. UTILITY POLE
- EMERGENCY FLOOD ROUTE
- EX. WATERLINE, VALVE & HYD.
- EX. IRRIGATION VALVE
- EX. LIGHT POLE
- EX. GROUND LIGHT
- EX. STORM SEWER & CURB INLET
- EX. MANHOLE
- EX. SANITARY SEWER
- PROPOSED STORM SEWER WITH INLET & SUBSURFACE DRAIN
- PROPOSED SANITARY SEWER AND MANHOLE
- MFPG MINIMUM FLOOD PROTECTION GRADE (SEE GENERAL NOTE #18)
- MLAG MINIMUM LOWEST ADJACENT GRADE (SEE GENERAL NOTE #19)
- EXISTING CONTOUR
- EX. SPOT ELEVATION
- EX. TELEPHONE PEDESTAL

NOTE: FOR REFERENCE ONLY. SEE SHEETS C401 & C601 FOR RECORD DRAWING CERTIFICATION

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DAVID K. SEXTON
 REGISTERED PROFESSIONAL ENGINEER
 No. 9500028
 STATE OF INDIANA
 DATE: APRIL 22, 2013

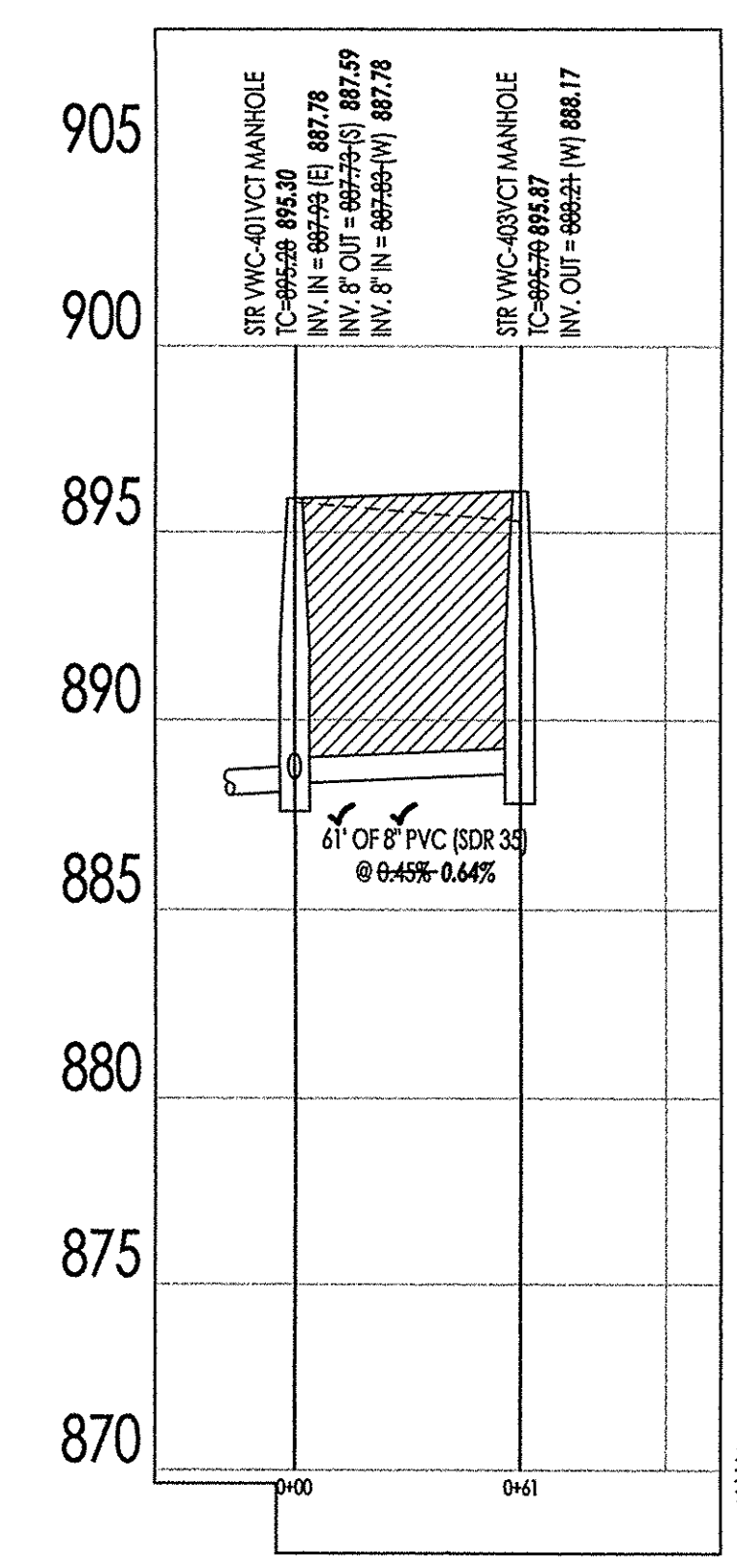
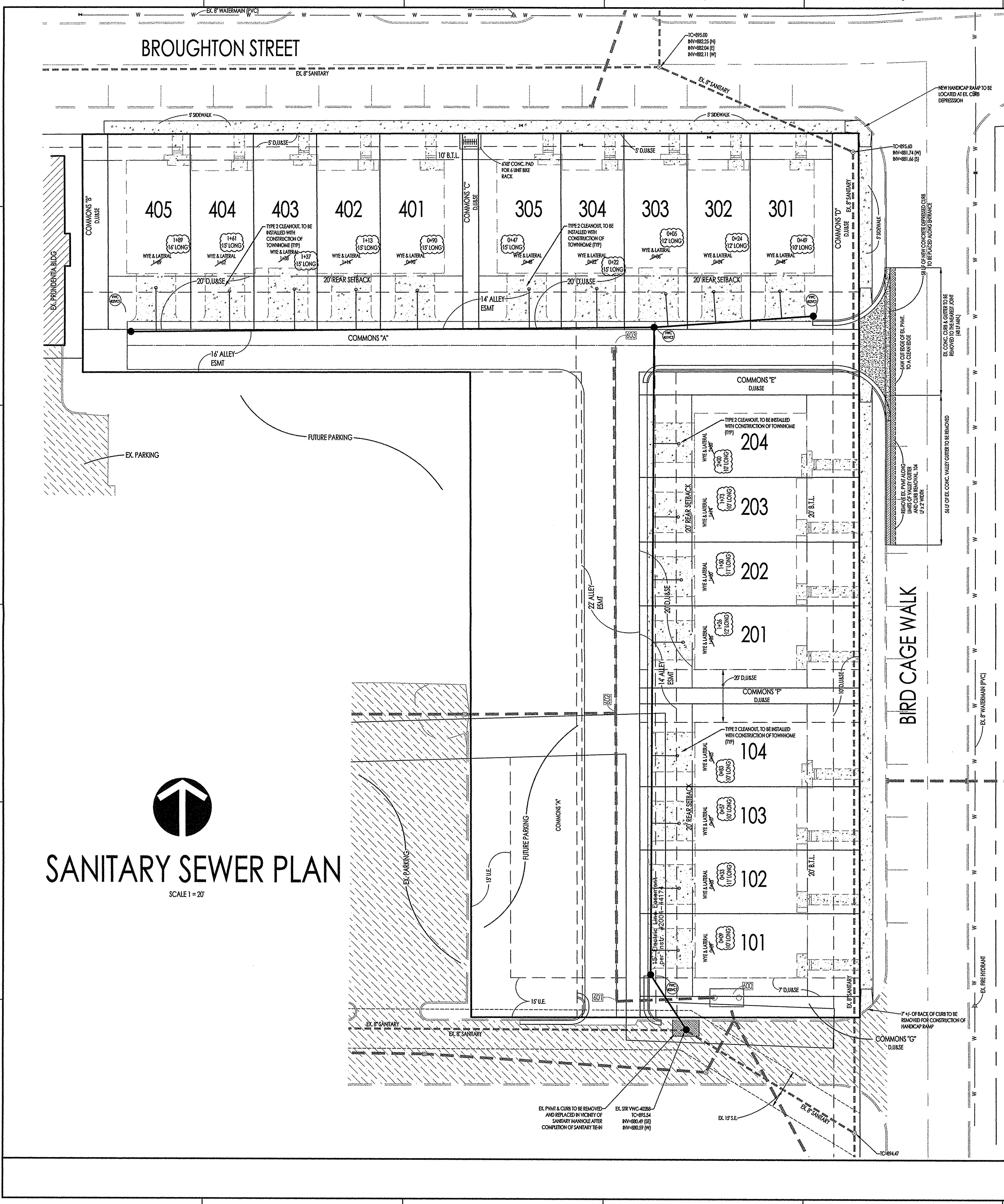
NORTH 1307 W. 161st Street
 Westfield, Indiana 46074
 SOUTH Purdue Technology Center of 5225 Exploration Drive, Suite 333
 Indianapolis, Indiana 46241
 P: 317.398.9216
 F: 317.683.3049
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TERRA
 SITE DEVELOPMENT, INC.
 DEVELOPMENT & ENGINEERING CONSULTANTS

Village Center Townhomes Phase 1
 Village of West Clay
 Brenwick Development, Co., Inc

REVISIONS:	DATE	BY	DESCRIPTION
01	7/20/13	DKS	REV. PAVING DRAINAGE & EROSION CONTROL LOTS 10-104
02	7/20/13	DKS	REV. PAVING DRAINAGE & EROSION CONTROL QUALITY CHECK SHEETS
03	7/20/13	DKS	REV. PAVING DRAINAGE & EROSION CONTROL QUALITY CHECK SHEETS
04	7/20/13	DKS	REV. PAVING DRAINAGE & EROSION CONTROL QUALITY CHECK SHEETS
05	7/20/13	DKS	REV. PAVING DRAINAGE & EROSION CONTROL QUALITY CHECK SHEETS
06	7/20/13	DKS	REV. PAVING DRAINAGE & EROSION CONTROL QUALITY CHECK SHEETS

DATE: APRIL 22, 2013
 PROJECT NUMBER: 130313-1.001
 DRAWN BY: DKS
 CHECKED BY: DKS
 SHEET TITLE: SITE DEVELOPMENT PLAN
 SHEET #: C102 of 13



This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
 Entry Date: March 2014
 Entered By: SLT

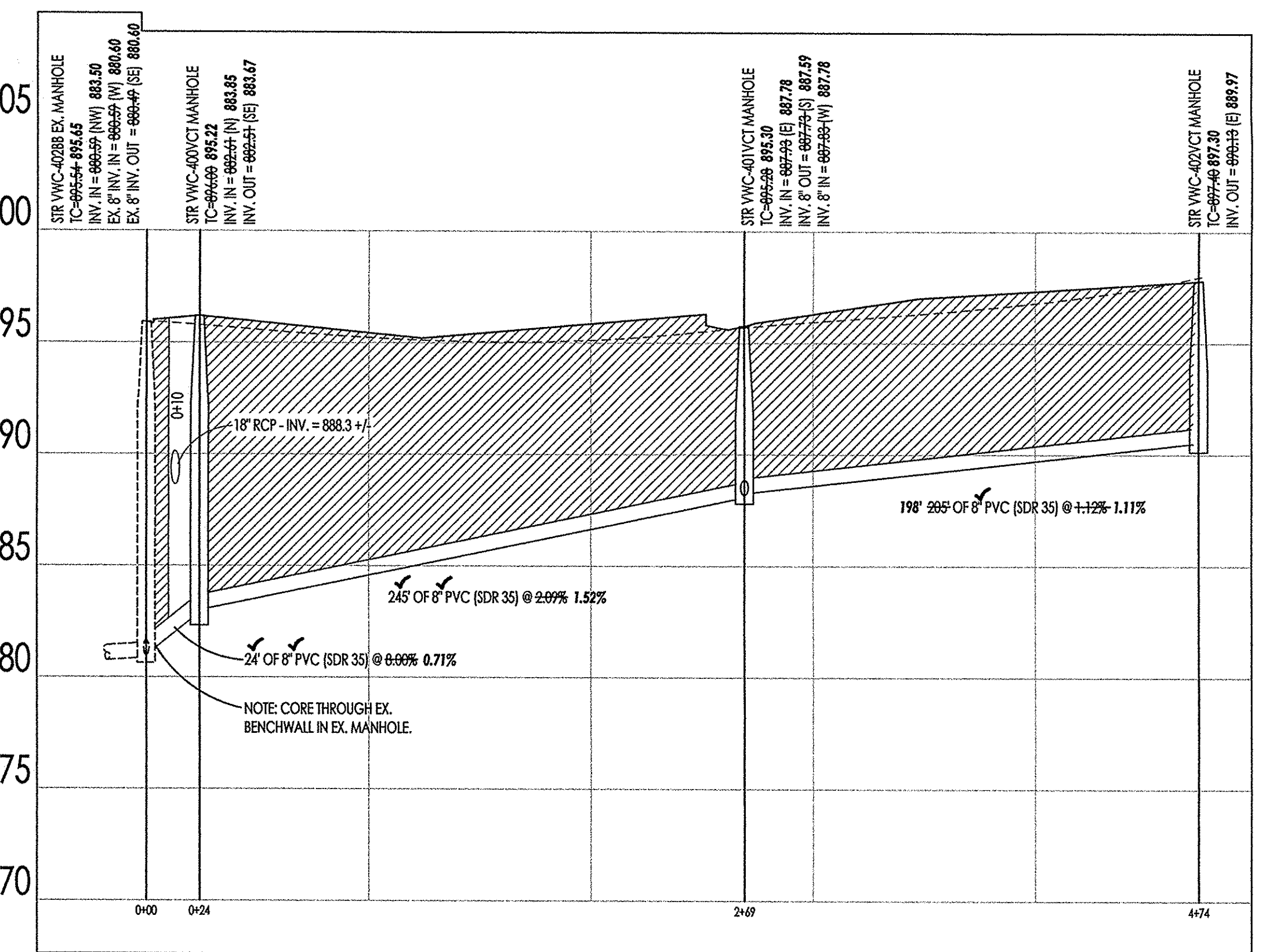
CERTIFICATION FOR RECORD DRAWING

LUKE A. JAIN
 REGISTERED
 No. 20900171
 STATE OF INDIANA
 LAND SURVEYOR

CERTIFIED BY: [Signature] OCTOBER 7, 2013

NOTE:
 RECORD DRAWING CERTIFICATION IS ONLY FOR HOUSE LATERAL LOCATION MARKERS, TOP OF CASTING ELEVATION, INVERT ELEVATIONS AND LENGTHS OF PIPE. SLOPE PERCENTAGES REPRESENT A CALCULATED FIGURE AND IS FOR GENERAL INFORMATION ONLY.

- NOTES**
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
 - ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
 - CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.
 - ALL STREETS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CLAY TOWNSHIP REGIONAL WASTE DISTRICT STANDARDS AND SPECIFICATIONS.
 - ALL SANITARY SEWER, STORM SEWER AND WATERMAIN TRENCHES WITHIN 5 FEET OF PAVEMENT AND SIDEWALKS ARE REQUIRED TO HAVE FULL DEPTH GRANULAR BACKFILL.
 - LATERALS ARE STATIONED FROM NEAREST DOWNSTREAM MANHOLE.
 - WYES AND LATERALS TO BE 6" DIAMETER PIPE.
- BENCHMARKS**
- BASIS OF ELEVATIONS:
 HCR 45, HAMILTON COUNTY CONTROL DISK SET IN 1 FT X 1 FT CONCRETE POST LOCATED IN THE SOUTHWEST CORNER OF BRIDGE OVER HENLEY CREEK ON SIX POINTS ROAD.
 ELEVATION = 873.04 (NAVD 88)
- TRM #1: CUT "SQUARE" SET ON THE NORTHEAST CORNER OF A CONCRETE TRANSFORMER PAD ON SITE.
 ELEVATION = 875.99 (NAVD 88)



Indiana 811
 Know what's below.
 Call before you dig.

DAVID K. SEIXON
 REGISTERED
 No. 950028
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 DATE: APRIL 22, 2013

NORTH
 1507 W. 161st Street
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 Indianapolis, Indiana 46241

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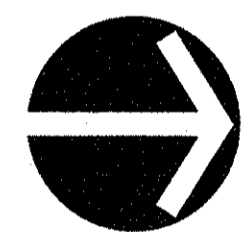
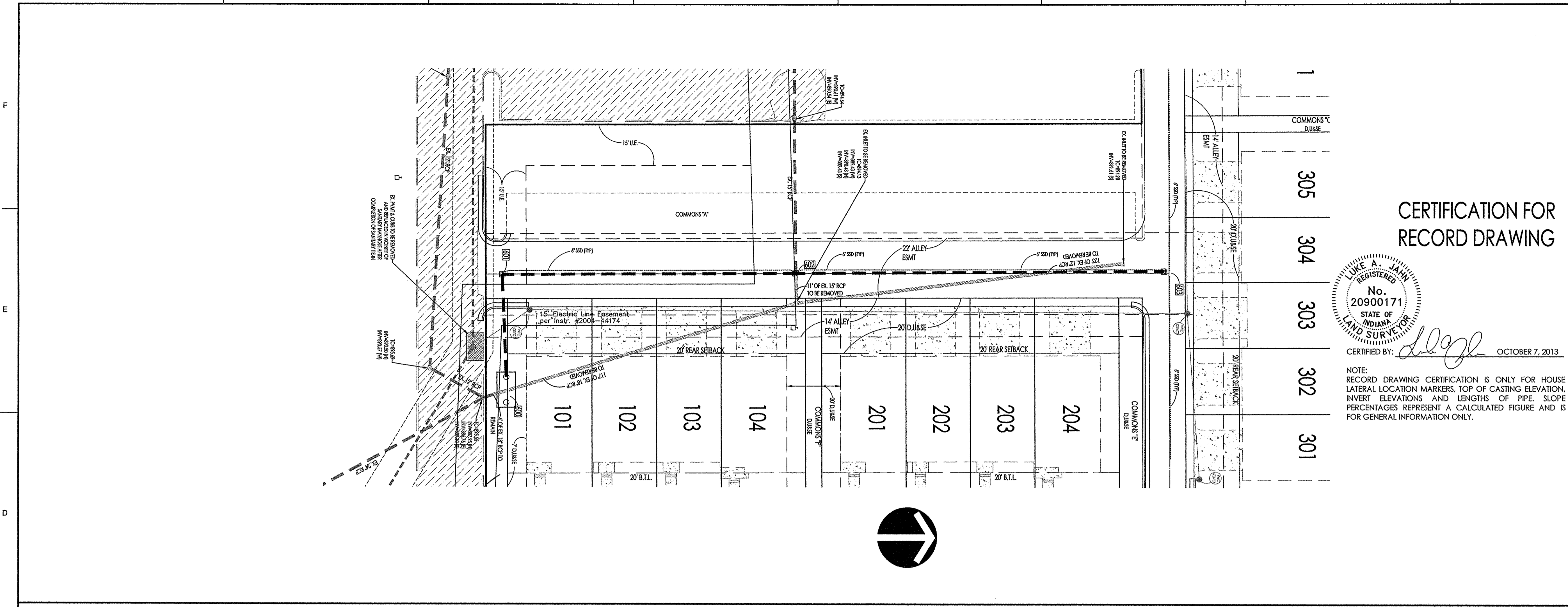
Village Center Townhomes Phase 1
 Village of West Clay
 Brenwick Development, Co., Inc

REVISIONS:	DATE	DESCRIPTION
1	4/22/13	REVISED PER TAC COMMENTS
2	4/22/13	REVISED PER TAC COMMENTS
3	4/22/13	REVISED PER TAC COMMENTS
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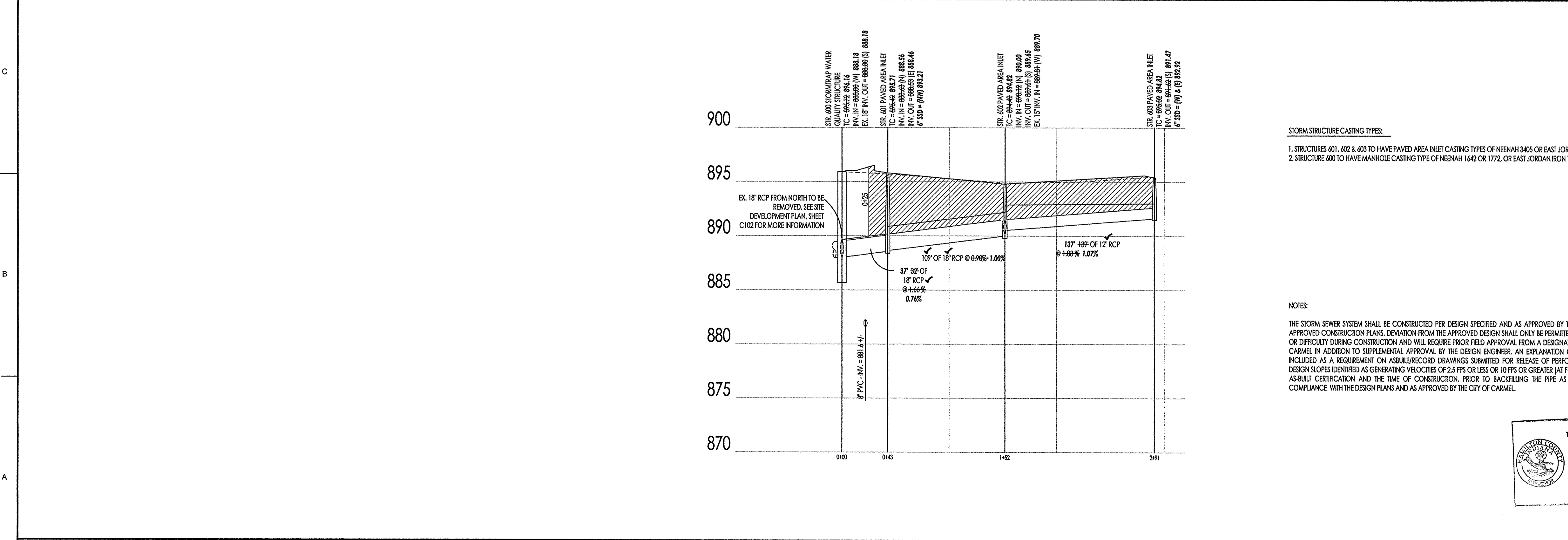
DATE: APRIL 22, 2013
 PROJECT NUMBER: 130313-1-001
 DRAWN BY: DKS
 CHECKED BY: DKS

SHEET TITLE:
 SANITARY SEWER PLAN & PROFILE

SHEET #:
C401
 of 13

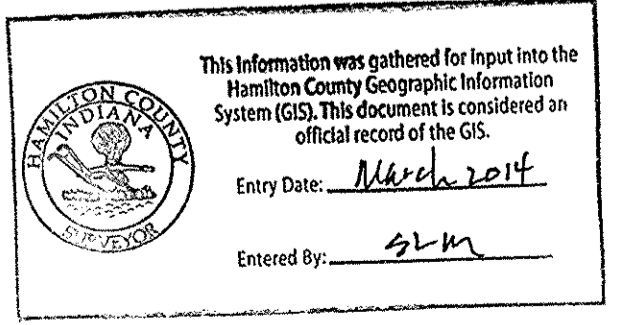


STORM SEWER PLAN SCALE: 1"=20'



STORM STRUCTURE CASTING TYPES:
 1. STRUCTURES 401, 602 & 403 TO HAVE PAVED AREA INLET CASTING TYPES OF NEENAH 340S OR EAST JORDAN IRON WORKS 5250
 2. STRUCTURE 600 TO HAVE MANHOLE CASTING TYPE OF NEENAH 1642 OR 1772, OR EAST JORDAN IRON WORKS 1045 OR 1022.

NOTES:
 THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS. DEVIATION FROM THE APPROVED DESIGN SHALL ONLY BE PERMITTED DUE TO SPECIAL CIRCUMSTANCES OR DIFFICULTY DURING CONSTRUCTION AND WILL REQUIRE PRIOR FIELD APPROVAL FROM A DESIGNATED REPRESENTATIVE OF THE CITY OF CARMEL IN ADDITION TO SUPPLEMENTAL APPROVAL BY THE DESIGN ENGINEER. AN EXPLANATION OF ANY SUCH DEVIATION SHALL BE INCLUDED AS A REQUIREMENT ON AS-BUILT/RECORD DRAWINGS SUBMITTED FOR RELEASE OF PERFORMANCE GUARANTEES. APPROVED DESIGN SLOPES IDENTIFIED AS GENERATING VELOCITIES OF 2.5 FPS OR LESS OR 10 FPS OR GREATER (AT FULL FLOW CAPACITY) SHALL REQUIRE AS-BUILT CERTIFICATION AND THE TIME OF CONSTRUCTION, PRIOR TO BACKFILLING THE PIPE AS IT IS BEING INSTALLED TO ENSURE COMPLIANCE WITH THE DESIGN PLANS AND AS APPROVED BY THE CITY OF CARMEL.



STORM SEWER PROFILE SCALE: 1"=50'

LEGEND

- Existing Grade
- Proposed Grade

SCALE
 HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'

SHEET #: C601 of 13

Indiana 811
 Know what's below. Call before you dig.

DAVID K. SEXTON
 REGISTERED PROFESSIONAL ENGINEER
 No. 9500028
 STATE OF INDIANA
 DATE: APRIL 22, 2013

NOTES:

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BENCHMARKS:

BASIS OF ELEVATIONS:
 FCOR: 45, HAMILTON COUNTY CONTROL DISK SET IN 1 FT X 1 FT CONCRETE POST LOCATED IN THE SOUTHWEST CORNER OF BRIDGE OVER HENLEY CREEK ON SIX POINTS ROAD.
 ELEVATION = 873.04 (NAVD 88)

TBM #1: CUT "SQUARE" SET ON THE NORTHEAST CORNER OF A CONCRETE TRANSFORMER PAD ON SITE.
 ELEVATION = 896.37 (NAVD 88)

CERTIFICATION FOR RECORD DRAWING

REGISTERED LAND SURVEYOR
 No. 20900171
 STATE OF INDIANA
 CERTIFIED BY: [Signature] OCTOBER 7, 2013

NOTE:
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 SITE DEVELOPMENT, INC.
 DEVELOPMENT & ENGINEERING CONSULTANTS

Village Center Townhomes Phase 1
 Village of West Clay
 Brenwick Development, Co., Inc

REVISIONS:	DATE	BY	DESCRIPTION
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19	04/22/13	DKS	REVISED PER THE COMMENTS
20	04/22/13	DKS	REVISED PER THE COMMENTS

DRAWING FILES:

DATE: APRIL 22, 2013
PROJECT NUMBER: 130313-1.001
DRAWN BY: DKS
CHECKED BY: DKS
SHEET TITLE: STORM SEWER PLAN & PROFILE