

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

November 20, 2017

To: Hamilton County Drainage Board

Re: Long Branch Drain --Sanctuary at 116th Street Section 1 Arm -- Waterfront of West Clay Reconstruction

Attached is a petition and plans for the proposed relocation of the Sanctuary at 116th Street Section 1 Arm of the Long Branch Drain. The relocation is being proposed by Paul Shoopman of Waterfront Homes. The proposal is to reconstruct and relocate the original storm sewer to allow for a different lot layout of the subdivision.

This line will consist of the following:

A new manhole, Structure 1721A, will be set 10 feet downstream of existing structure 1721 of Section 1, then 65' of 30" RCP to Structure 1721B, and then 107 feet of 30" RCP to Structure 1721C, which connects back to the existing drain at approximately 43 feet north of existing Structure 1720. This is as shown on pages C300 and C600 of the plans for Waterfront of West Clay Section 1 Replat of Lots 36-47, by Weihe Engineers, Inc., with job number W160409, and dated May 2, 2017.

The total length of the new pipe shall be 172 feet. The 125 feet of the original drain between Structure 1721A and Structure 1721C shall be vacated. This proposal will add a total of 47 feet to the Sanctuary at 116th Street Section 1 Arm of the Long Branch Drain's total length.

The cost of the relocation is to be paid by Waterfront Homes.

The petitioner has not submitted surety for the proposed drain at this time. Surety shall be submitted prior to commencement of construction for the relocation of the drain.

The reconstruction will be located on or affect the regulated drain easement on the following parcels:

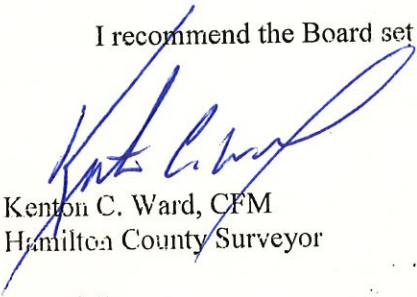
Parcel Number	Owner
17-09-31-00-12-006.000	Paul and Shelley Shoopman
17-09-31-00-12-005.000	Paul and Shelley Shoopman

17-09-31-00-12-013.000
West Road ROW

Paul and Shelley Shoopman
City of Carmel

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. The request will be for the reduction of the regulated drain easement to those easement widths as shown on the secondary plats for Waterfront of West Clay, Section One, A Replat of Lots 36-41 and Block "G" in The Sanctuary at 116th Street Section 1 and Lots 42-45 in the Sanctuary at 116th Street Section Two "A" as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this petition for January 22, 2018.



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pil

HAMILTON COUNTY DRAINAGE BOARD
NOBLESVILLE, INDIANA

Revised June 1997

IN RE: Waterfront of West Clay - Section 1)
Hamilton County, Indiana)

PETITION FOR RELOCATION AND RECONSTRUCTION

Paul Shoopman (hereinafter "Petitioner"),
hereby petitions the Hamilton County Drainage Board for authority to relocate and improve a
section of the Sanctuary at 116th Street - Section 1 Drain, and in support of
said petition advises the Board that:

1. Petitioner owns real estate through which a portion of the Sanctuary at 116th Street
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 Sanctuary at 116th Street - Section 1 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 Sanctuary at 116th Street - Section 1 Drain, without cost to other property owners
on the watershed of the Sanctuary at 116th Street - Section 1 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 Sanctuary at 116th - Section 1
Drain, in conformance with applicable law and plans and specifications on file with the Hamilton
County Surveyor.

Signed

Printed

Paul Shoopman

FINDINGS AND ORDER

CONCERNING THE PARTIAL VACATION OF THE

Long Branch Drain, Sanctuary at 116th Street Section 1 Arm,
Waterfront of West Clay Reconstruction

Structure 1721A to Structure 1721C

On this 22nd day of January, 2018, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the Long Branch Drain, Sanctuary at 116th Street Section 1 Arm, Waterfront of West Clay Reconstruction (Structure 1721A to Structure 1721C).

Evidence has been heard. Objections were presented and considered. The Board then adopted an order of action. The Board now finds that the costs of continued maintenance to the portion of the above drain exceed the benefits to the real estate benefited by the portion of the drain to be abandoned and issues this order vacating the above section of the Long Branch Drain, Sanctuary at 116th Street Section 1 Arm, Waterfront of West Clay Reconstruction (Structure 1721A to Structure 1721C).

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
**Long Branch Drain, Sanctuary at 116th Street Section 1 Arm, Waterfront
of West Clay Reconstruction**

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the **Long Branch Drain, Sanctuary at 116th Street Section 1 Arm, Waterfront of West Clay Reconstruction** came before the Hamilton County Drainage Board for hearing on **January 22, 2018**, 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 **Long Branch Drain, Sanctuary at 116th Street Section 1 Arm, Waterfront of West Clay Reconstruction** 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

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

*Long Branch Drain, Sanctuary at 116th Street Section 1 Arm,
Waterfront of West Clay Reconstruction*

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board concerning the reconstruction of the Long Branch Drain, Sanctuary at 116th Street Section 1 Arm, Waterfront of West Clay Reconstruction on January 22, 2018 at 9:00 A.M. in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana. Construction and maintenance reports of the Surveyor and the Schedule of Assessments proposed 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

STATE OF INDIANA)
) SS BEFORE THE HAMILTON
)
COUNTY OF HAMILTON) DRAINAGE BOARD

IN THE MATTER OF Long Branch Drain, Sanctuary at 116th
Street Section 1 Arm, Waterfront of West Clay
Reconstruction

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **January 22, 2018** adopted the reconstruction report of the Surveyor and the Amended Schedule of damages and assessments including annual assessment for periodic maintenance, finding that the costs, damages and expense of the proposed improvement would be less than the benefits which will result to the owner of lands benefited thereby.

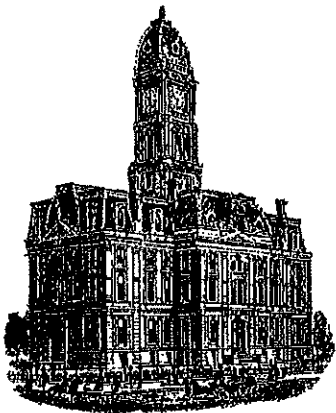
The Board issued an order declaring the proposed improvement established. Such findings and order were marked filed and are available for inspection in the Office of the Hamilton County Surveyor.

If judicial review of the findings and order of the Board is not requested pursuant to Article VIII of the 1965 Indiana Drainage Code as amended within twenty (20) days from the date of publication of this notice, the findings and order shall become conclusive.

HAMILTON COUNTY DRAINAGE BOARD

BY: Steven C. Dillinger
PRESIDENT

ATTEST: Lynette Mosbaugh
SECRETARY



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

March 6, 2019

Re: Long Branch: Sanctuary at 116th St. Sec. 1 – Waterfront at West Clay Reconstruction

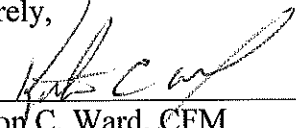
Attached are as-built, certificate of completion & compliance, and other information for Waterfront at West Clay Reconstruction. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated November 20, 2017. The report was approved by the Board at the hearing held January 22, 2018. (See Drainage Board Minutes Book 18, Pages 8-10) The changes are as follows: the 30" RCP was shortened from 172 feet to 167 feet. The length of the drain due to the changes described above is now **167 feet**. It should be noted that 128 feet of existing 30" RCP was removed. Therefore, the drain was lengthened by a total of 39 feet.

The non-enforcement was approved by the Board at its meeting on January 22, 2018 and recorded under instrument #2018009255. The petitioner for this project did not submit sureties.

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

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: WATERFRONT OF WEST CLAY SECTION 1
REPLAT OF LOTS 36-47

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: Joe Tran Date: 1-22-2019

Type or Print Name: JOSEPH TRAN

Business Address: 10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, IN 46280

Telephone Number: 317-846-6611

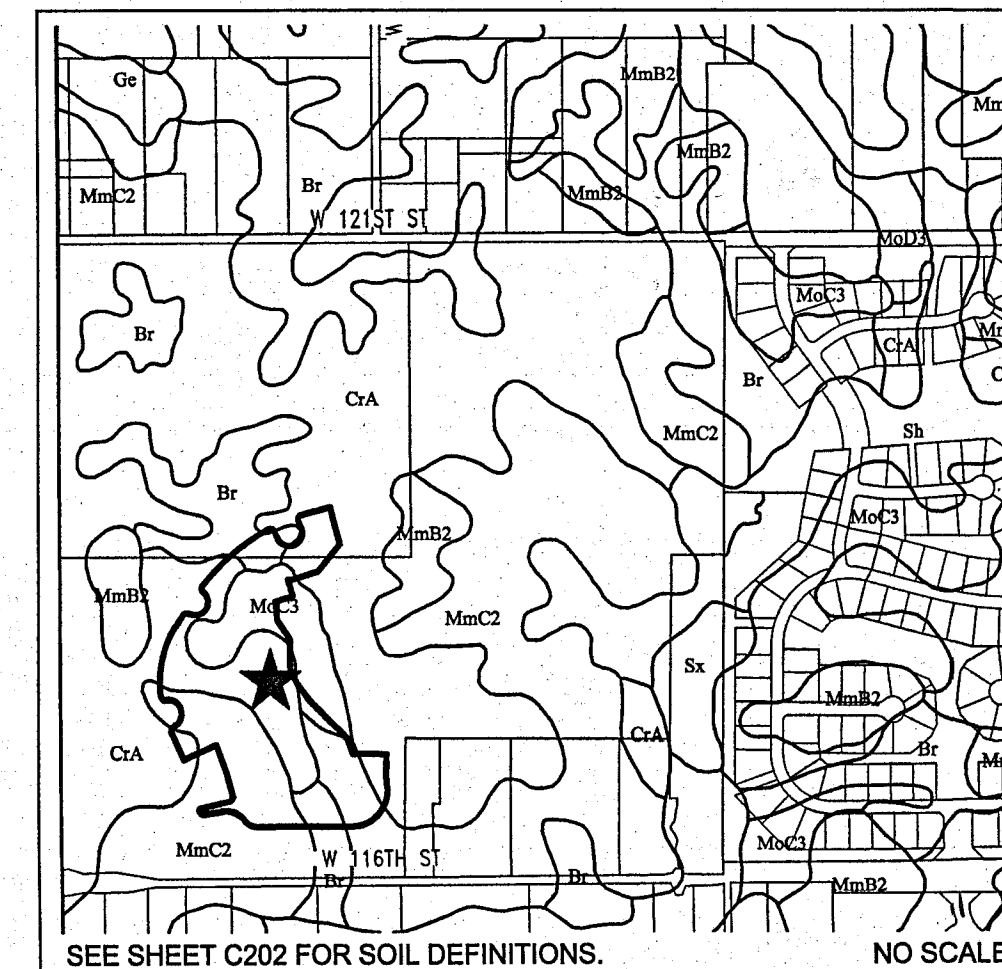
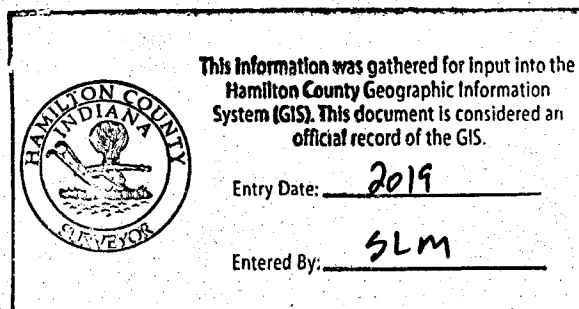


INDIANA REGISTRATION NUMBER

LS21500003

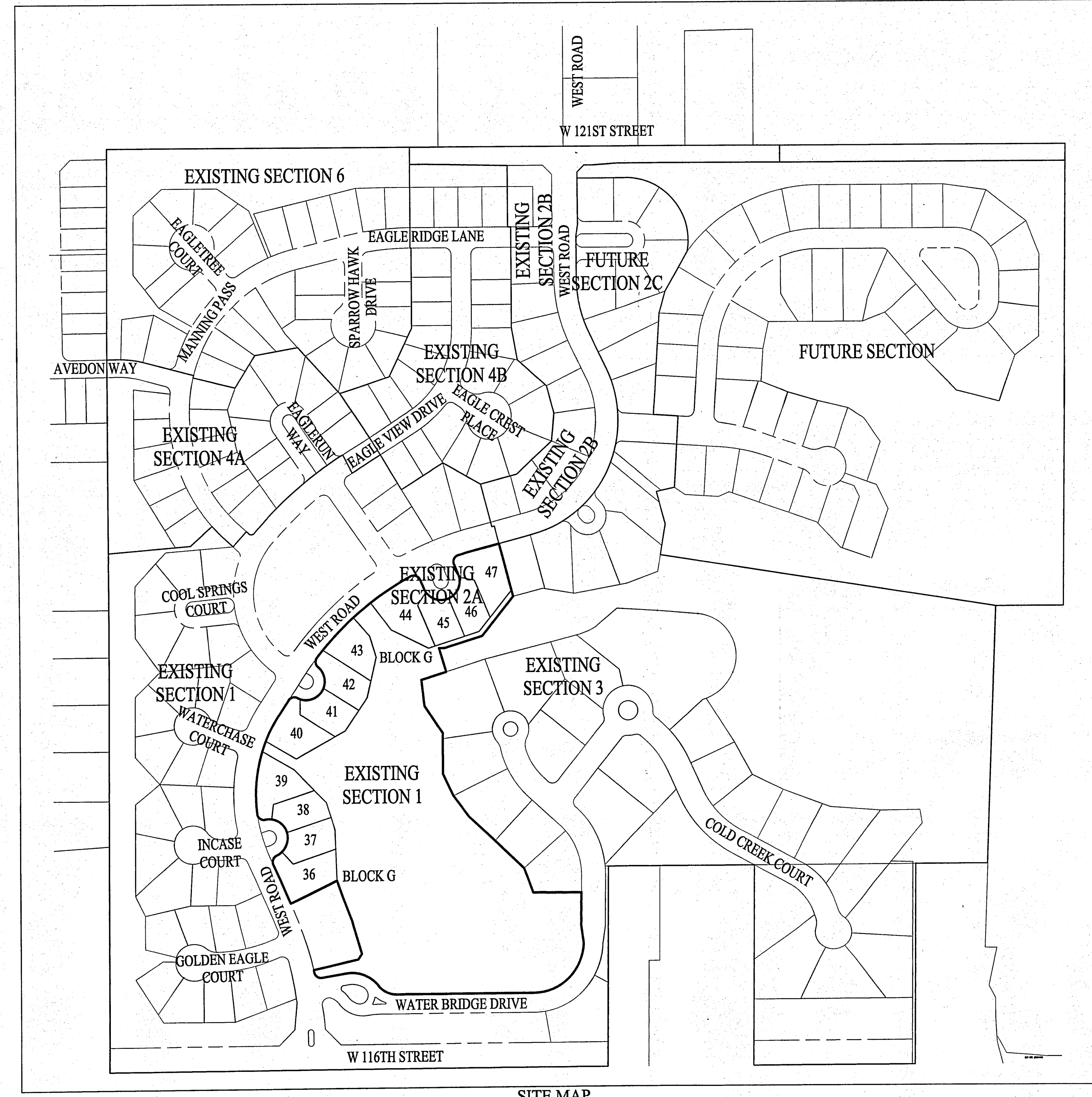
RECORD DRAWING
~~CONSTRUCTION PLANS FOR~~
WATERFRONT OF WEST CLAY SECTION 1
REPLAT OF LOTS 36-47

4455 W. 121ST STREET
 CARMEL, IN



SEE SHEET C202 FOR SOIL DEFINITIONS.
 NO SCALE
 SOILS MAP

- Br BROOKSTON SILTY CLAY LOAM. THE MAIN SOIL FEATURES THAT ADVERSELY AFFECT ENGINEERING USES OF THIS SOIL ARE SEASONAL HIGH WATER TABLE, HIGH POTENTIAL FROST ACTION, MODERATE SHRINK-SWELL POTENTIAL, AND MODERATE PERMEABILITY. THIS SOIL HAS SEVERE LIMITATIONS FOR BUILDING SITES. THE SITES NEED TO BE ARTIFICIALLY DRAINED AND PROTECTED FROM FLOODING. DWELLINGS AND SMALL BUILDINGS WITH BASEMENTS SHOULD NOT BE CONSTRUCTED IN THIS SOIL. USING PROPERLY DESIGNED FOUNDATIONS AND FOOTINGS HELPS TO PREVENT STRUCTURAL DAMAGE FROM FROST ACTION AND SHRINKING AND SWELLING OF THE SOIL. THIS SOIL HAS SEVERE LIMITATIONS FOR LOCAL ROADS AND STREETS BECAUSE OF THE SEASONAL, HIGH WATER TABLE AND HIGH POTENTIAL FROST ACTION. THE BASE MATERIAL FOR ROADS AND STREETS SHOULD BE REPLACED OR STRENGTHENED WITH SUITABLE MATERIAL.
- CxA CROSBY SILT LOAM, 0-3 PERCENT SLOPES. THIS SOIL IS LIGHT COLORED, SILTY IN TEXTURE AND ON SLOPING UPLANDS. IT IS DEEP AND SOMEWHAT POORLY DRAINED WITH SLOW PERMEABILITY. IT HAS HIGH AVAILABLE WATER FOR PLANT GROWTH AND MEDIUM ORGANIC MATTER CONTENT. THE SOIL HAS COMPACT TILL STARTING AT A DEPTH BETWEEN 20-40 INCHES. THE MAIN SOIL FEATURES THAT AFFECT URBAN DEVELOPMENT USES ARE SEASONAL HIGH WATER TABLE, MODERATE SHRINK-SWELL POTENTIAL, HIGH POTENTIAL FROST ACTION AND SLOW PERMEABILITY. THE MAIN SOIL FEATURES THAT ADVERSELY AFFECT THE ENGINEERING USES OF THIS SOIL ARE SEASONAL HIGH WATER TABLE, MODERATE SHRINK-SWELL POTENTIAL, HIGH POTENTIAL FROST ACTION, AND SLOW PERMEABILITY. THIS SOIL HAS SOME SEVERE LIMITATIONS FOR BUILDING SITES. THE SITES NEED TO BE ARTIFICIALLY DRAINED TO PREVENT STRUCTURAL DAMAGE FROM FLOODING. DWELLINGS AND SMALL BUILDINGS WITH BASEMENTS SHOULD NOT BE CONSTRUCTED ON THIS SOIL USING PROPERLY DESIGNED FOUNDATIONS AND FOOTINGS HELPS TO PREVENT STRUCTURAL DAMAGE FROM LOW STRENGTH AND SHRINKING AND SWELLING OF THE SOIL. THIS SOIL HAS SEVERE LIMITATIONS FOR LOCAL ROADS AND STREETS. THE BASE MATERIAL FOR ROADS AND STREETS NEEDS TO BE STRENGTHENED OR REPLACED WITH SUITABLE MATERIAL.
- MmB2 MIAMI SILT LOAM, 2 TO 8 PERCENT SLOPES. ERODED MAIN SOIL. FEATURES THAT ADVERSELY AFFECT ENGINEERING USES OF THIS SOIL ARE MODERATE POTENTIAL FROST ACTION, MODERATELY SLOW PERMEABILITY, MODERATE SHRINK-SWELL POTENTIAL, AND LOW STRENGTH. EROSION IS A HAZARD DURING CONSTRUCTION. THIS SOIL IS SUITABLE FOR BUILDING SITES, BUT SLOPE, CLAYEY TEXTURE, SHRINKING AND SWELLING, AND LOW STRENGTH ARE MODERATE LIMITATIONS THAT NEED TO BE OVERCOME. LOW STRENGTH IS A SEVERE LIMITATION TO THE USE OF THIS SOIL FOR LOCAL ROADS AND STREETS. THE BASE MATERIAL FOR ROADS AND STREETS NEEDS TO BE STRENGTHENED WITH SUITABLE MATERIAL.
- MmC2 MIAMI SILT LOAM, 6-12 PERCENT SLOPES - THIS MODERATELY SLOPING, DEEP, WELL DRAINED SOIL IS ON KNOPS AND BREAKS ALONG STREAMS AND DRAINAGEWAYS ON UPLANDS. PERMEABILITY IS MODERATE IN THE SUBSOIL AND MODERATELY SLOW IN THE SUBSTRATUM. CONTENT OF ORGANIC MATTER IN THE SURFACE LAYER IS MODERATE. SURFACE RUNOFF IS MODERATE. THIS SOIL IS SUITABLE FOR URBAN DEVELOPMENT. THE MAIN SOIL FEATURES THAT ADVERSELY AFFECT ENGINEERING USES OF THE SOIL ARE MODERATE POTENTIAL FROST ACTION, MODERATE SHRINK-SWELL POTENTIAL, AND MODERATELY SLOW PERMEABILITY. THE HAZARD OF EROSION IS SEVERE DURING CONSTRUCTION. THIS SOIL HAS MODERATE LIMITATIONS FOR BUILDING SITES. USING PROPERLY DESIGNED FOUNDATIONS, FOOTINGS, AND BASEMENT WALLS AND USING FOUNDATION DRAIN TIE HELP TO REMOVE EXCESS WATER AND TO PREVENT STRUCTURAL DAMAGE FROM SHRINKING AND SWELLING AND LOW STRENGTH OF THE SOIL. THIS SOIL HAS SEVERE LIMITATIONS FOR LOCAL ROADS AND STREETS. THE BASE MATERIAL FOR LOCAL ROADS AND STREETS NEEDS TO BE STRENGTHENED WITH SUITABLE MATERIAL. ROADS AND STREETS SHOULD BE CONSTRUCTED ON THE CONTOUR OF SLOPES.
- Moc3 Miami Clay loam, 6 to 12 percent slopes, severely eroded



1"=200'
 SITE MAP

SHEET INDEX

SHEET NO.	DESCRIPTION
C001	TITLE SHEET
G300	DEVELOPMENT PLAN
G500	SANITARY SEWER PLAN & PROFILE
G501-G502	SANITARY SEWER DETAILS & SPECIFICATIONS
C600	STORM SEWER PLAN & PROFILE
C604	STORM SEWER DETAILS
C700	WATER MAIN PLAN
C704	WATER PLAN DETAILS

RECORD DRAWING
 1-22-2019
 JOSEPH TRTAN, LS21500003



PLANS PREPARED FOR
 WATERFRONT HOMES
 12080 ABNEY RUN DRIVE
 ZIONSVILLE, INDIANA 46077
 TELEPHONE: (317) 714-2406
 CONTACT PERSON: PAUL SHOOPMAN
 EMAIL: PAUL@SHOOPMANHOMES.COM

DESIGN DATA:
 TOTAL ACREAGE - 14.75 ACRES
 NUMBER LOTS - 12 LOTS
 DENSITY - 0.81 LOTS/ACRE

PLANS PREPARED BY
 WEIHE ENGINEERS, INC.
 10505 N. COLLEGE AVE.
 INDIANAPOLIS, INDIANA 46280
 TELEPHONE: (317) 846-6611
 FAX: (317) 843-0546
 CONTACT PERSON: ALVIN E. SKOOG JR., P.E.
 EMAIL: SKOOG@WEIHE.NET

811
 Know what's below.
 Call before you dig.
 Within Indiana Call
 811 or 800-382-5544
 24 Hours a Day, 7 Days a Week.
 PER INDIANA STATE LAW IC 8-1-26
 IT IS AGAINST THE LAW TO DIGGATE
 WITHOUT NOTIFYING THE UNDERGROUND
 LOCATION SERVICE TWO (2) WORKING
 DAYS BEFORE COMMENCING WORK.

- GENERAL NOTES**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
 - IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.
 - IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
 - ALL QUANTITIES ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
 - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
 - EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE A TRENCH SAFETY SYSTEM DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
 - IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
 - TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
 - THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
 - ANY FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED AND CONNECTED TO NEW STORM SEWERS AND POSITIVE DRAINAGE PRESERVED.
 - IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONFIRM THAT ALL LANDSCAPE REQUIREMENTS ARE MET AND CONFORM TO APPLICABLE LOCAL STANDARDS.
 - THE SITE DOES NOT LIE IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, WHEN PLOTTED BY SCALE ON FLOOD INSURANCE RATE MAP #18057C0205F, DATED FEBRUARY 19, 2003.
 - BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS & PLAT FOR EXACT INFORMATION.
 - THIS SITE DOES NOT CONTAIN WETLANDS AS SHOWN ON THE U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE, CARMEL, INDIANA, NATIONAL WETLANDS INVENTORY MAP. NO WETLANDS ARE IMPACTED BY THIS DEVELOPMENT.
 - ALL WATER MAINS, HYDRANTS, AND WATER VALVES SHALL BE INSPECTED AND SHALL COMPLY WITH BACKFILL, BEDDING, AND THRUST BLOCK REQUIREMENTS PER CARMEL UTILITIES DETAIL SHEETS.

- OPERATING AUTHORITIES**
- CITY OF CARMEL**
 ONE CIVIC SQUARE
 CARMEL, IN 46032
 317-571-2441
 Attn: JEREMY KASHMAN
 - BRIGHTHOUSE NETWORKS**
 3030 ROOSEVELT AVE.
 INDIANAPOLIS, IN 46218
 317-632-9077
 Attn: JASON KIRKMAN
 - CITY OF CARMEL FIRE DEPARTMENT**
 TWO CIVIC SQUARE
 CARMEL, IN 46032
 317-571-2600
 Attn: CHRIS ELLISON
 - DUKE ENERGY**
 16475 SOUTHPOK DRIVE
 WESTFIELD, IN 46074
 317-496-6711
 Attn: Shirley Hunter
 - CLAY TOWNSHIP REGIONAL WASTE DISTRICT**
 10701 N. COLLEGE AVENUE, SUITE A
 INDIANAPOLIS, IN 46280
 317-844-9200
 Attn: RYAN HARTMAN
 - CARMEL UTILITIES**
 760 3RD AVENUE S.W.
 CARMEL, IN 46032
 317-571-2443
 Attn: John Duffy
 - HAMILTON COUNTY SURVEYOR'S OFFICE**
 ONE HAMILTON SQUARE, SUITE 188
 HAMILTON COUNTY JUDICIAL CENTER
 NOBLESVILLE, INDIANA 46060
 317-776-8495
 Attn: GREG HOYES
 - VECTREN ENERGY**
 P.O. BOX 1700
 NOBLESVILLE, IN 46061
 317-776-5532
 Attn: JOANIE CLARK

WEIHE ENGINEERS
 Land Surveying | Civil Engineering
 Landscape Architecture

10505 N. College Avenue
 Indianapolis, Indiana 46280
 weihe.net
 317 | 846 - 6611
 800 | 452 - 6408
 317 | 843 - 0546 fax

REVISIONS AND ISSUES

DATE	BY	DESCRIPTION
05/02/2017		

ALVIN E. SKOOG JR.
 REGISTERED PROFESSIONAL ENGINEER
 No. PE0880673
 STATE OF INDIANA
 05/02/2017

PREPARED FOR:
WATERFRONT OF WEST CLAY SECTION 1
REPLAT OF LOTS 36-47

WATERFRONT HOMES
 TITLE SHEET
 Part of the SW 1/4 of Section 31, Township 18 North, Range 3 East, Clay Township, Hamilton County, Indiana

SHEET NO.
C001

PROJECT NO.
 W160409

CITY OF CARMEL COVER AND BACKFILL POLICY;

9-8-06
WATER AND SEWER UNDER PAVEMENT, SIDEWALK, PAVED AREAS AND WITHIN RIGHT-OF-WAY

BEDDING, HAUNCHING, INITIAL BACKFILL

BEDDING, HAUNCHING AND INITIAL BACKFILL REQUIREMENTS AND COMPACTION FOR WATER MAINS, WATER SERVICE LATERALS, SANITARY MAINS AND SANITARY SERVICE LATERALS SHALL BE IN ACCORDANCE WITH THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION.

FINAL BACKFILL

FINAL BACKFILL FOR WATER MAINS, WATER SERVICE LATERALS, SANITARY MAINS AND SANITARY SERVICE LATERALS UNDER AND WITHIN 5 FEET OF PAVEMENT OR SIDEWALK OR OTHER PAVED AREAS AND FOR ALL INSTALLATIONS WITHIN CITY RIGHT-OF-WAY SHALL BE B-BORROW FOR STRUCTURE BACKFILL MEETING THE MATERIAL REQUIREMENTS OF THE INDOT. THE MATERIAL SHALL BE APPROVED BY THE CITY OF CARMEL DEPARTMENT OF ENGINEERING AT TIME OF INSTALLATION. FINAL BACKFILL SHALL BE COMPACTED IN 6-INCH MAXIMUM LIFTS TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY FOR THE ENTIRE DEPTH OF THE MATERIAL PLACED. THE BACKFILL FOR THE TOP 6-INCHES OF THE EXCAVATION BELOW THE START OF THE AGGREGATE SUB-BASE OF THE PAVEMENT SHALL BE NO. 53 STONE MEETING THE MATERIAL REQUIREMENT OF THE INDOT AND SHALL BE COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY. IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS A MORE STRINGENT BACKFILL REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

MINIMUM COVER FOR PIPE CROSSINGS WITHIN CITY RIGHT-OF-WAY

FOR INSTALLATION OF STORM MAINS, WATER MAINS, SANITARY MAINS, WATER SERVICE LATERALS, SANITARY SERVICE LATERALS UNDER CITY STREETS, REGARDLESS OF JURISDICTION OF THE UTILITY, THE MINIMUM COVER FROM THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVEMENT SECTION THICKNESS (ALL BITUMINOUS AND AGGREGATE MATERIAL ABOVE THE SUBGRADE) PLUS 4" BUT UNDER NO CIRCUMSTANCES SHALL THE COVER ALONG ANY PART OF THE PIPE FROM THE FINAL PAVEMENT ELEVATION TO THE TOP OF THE PIPE BE LESS THAN 2.5 FEET. IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS A MORE STRINGENT COVER REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN. COVER HEIGHTS FOR REINFORCED CONCRETE PIPE STORM SEWER THAT ARE LESS THAN THOSE REQUIRED WILL BE EVALUATED ON A CASE BY CASE CONDITION AND APPROVED ONLY WITH WRITTEN PERMISSION BY THE CITY ENGINEER.

MINIMUM COVER FOR PIPE CROSSINGS WITHIN CITY RIGHT-OF-WAY

FOR INSTALLATION OF STORM MAINS, WATER MAINS, SANITARY MAINS, WATER SERVICE LATERALS, SANITARY SERVICE LATERALS UNDER CITY STREETS, REGARDLESS OF JURISDICTION OF THE UTILITY, THE MINIMUM COVER FROM THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVEMENT SECTION THICKNESS (ALL BITUMINOUS AND AGGREGATE MATERIAL ABOVE THE SUBGRADE) PLUS 4" BUT UNDER NO CIRCUMSTANCES SHALL THE COVER ALONG ANY PART OF THE PIPE FROM THE FINAL PAVEMENT ELEVATION TO THE TOP OF THE PIPE BE LESS THAN 2.5 FEET. IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS A MORE STRINGENT COVER REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN. COVER HEIGHTS FOR REINFORCED CONCRETE PIPE STORM SEWER THAT ARE LESS THAN THOSE REQUIRED WILL BE EVALUATED ON A CASE BY CASE CONDITION AND APPROVED ONLY WITH WRITTEN PERMISSION BY THE CITY ENGINEER.

THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS. DEVIATIONS 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 AT THE TIME OF CONSTRUCTION, PRIOR TO BACKFILLING THE PIPE. THE CONTRACTOR IS INSTRUCTED TO AS-BUILT EACH SECTION OF STORM PIPE AS IT IS BEING INSTALLED TO ENSURE COMPLIANCE WITH THE DESIGN PLANS AND AS APPROVED BY THE CITY OF CARMEL.

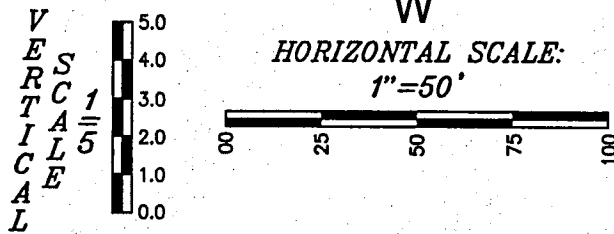
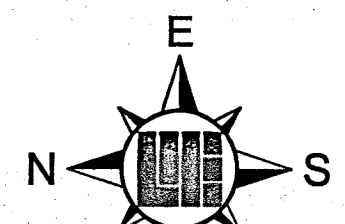
BENCHMARK INFORMATION

BM 800 54 - A DNR DISK IS LOCATED 1.0 MILE NORTHEAST OF ZIONSVILLE, 0.2 MILE EAST ALONG WEST 121ST STREET FROM ITS JUNCTION WITH STATE ROAD 421, AT THE INTERSECTION OF DAUGHERTY DRIVE AND WEST 121ST STREET, IN THE NORTHEAST 1/4 OF THE INTERSECTION, AT THE ENTRANCE TO THE EARLE VILLAGE SUBDIVISION; SET IN THE TOP OF A CONCRETE POST, LEVEL WITH THE GROUND; A DEPARTMENT OF NATURAL RESOURCES BRASS CONTROL STATION TABLE, STAMPED "800 54 1989".
ELEV: 801.14 FEET (1929 DATUM)
ELEV: 900.76 FEET (1988 DATUM)

RECORD DRAWING

STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
1-22-2019

JOSEPH TRIAN, LS21500003

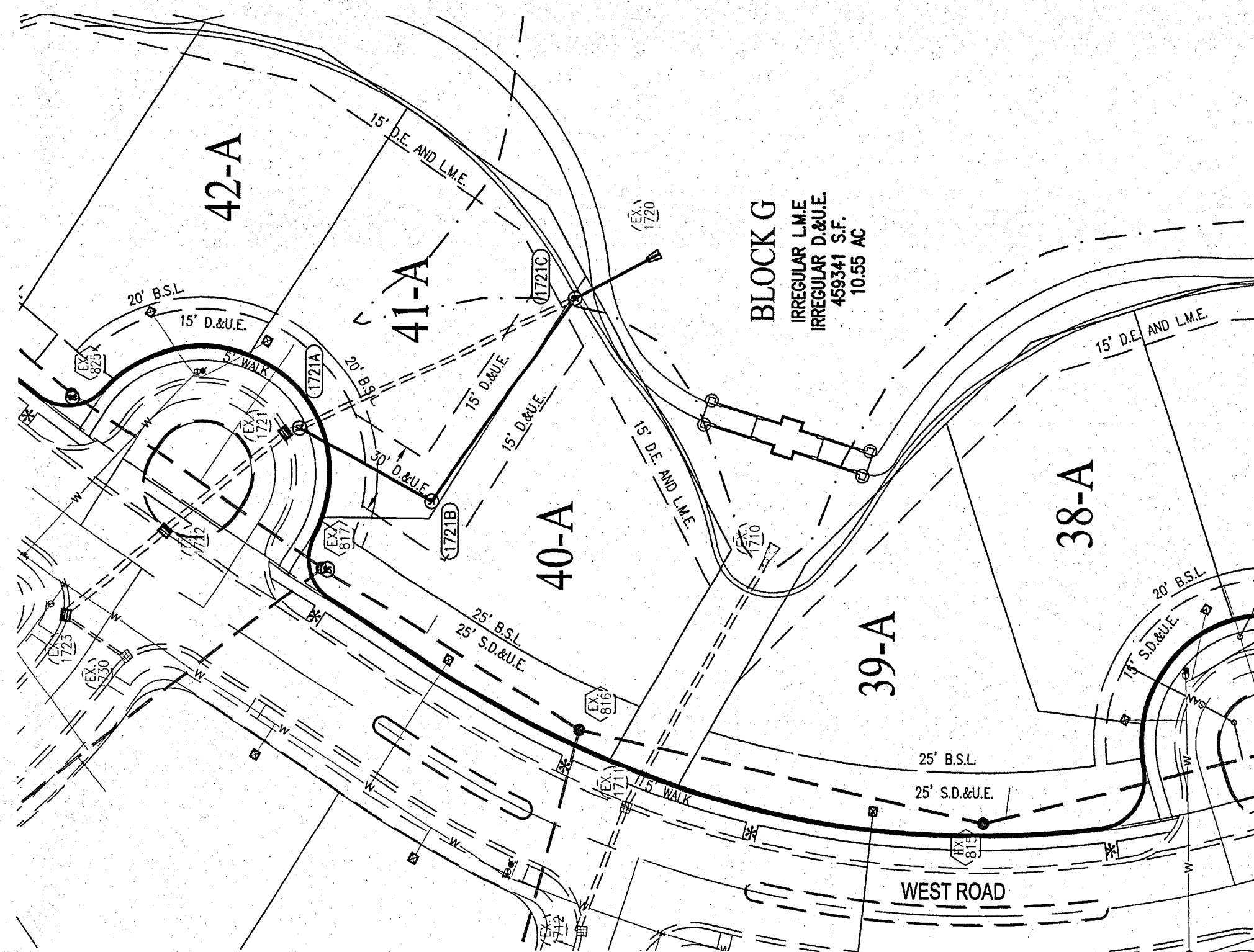
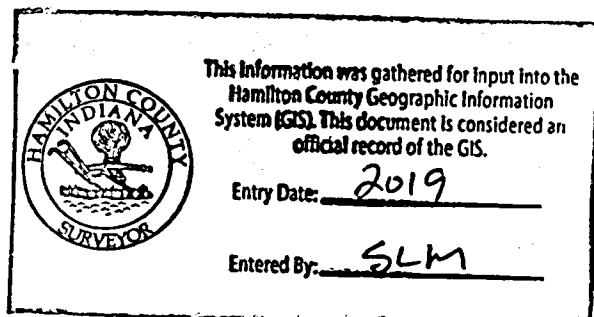


- AS-BUILT INFORMATION
- BUILT AS PLANNED

DATE OF LAST FIELDWORK: XX/XX/20XX

NOTE:

ORIGINAL DESIGN OF STORM SEWER FROM 1721 TO 1720 WAS A 30" RCP @ 0.17%.



LEGEND

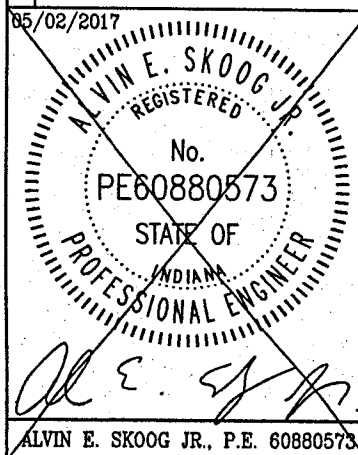
	RIGHT-OF-WAY LINE
	PROPOSED STORM SEWER LINE
	EXISTING STORM SEWER LINE
	SWALE
	SSD
	PROPOSED SANITARY SEWER LINE
	EXISTING SANITARY SEWER LINE
	SANITARY SEWER MANHOLE
	SANITARY SEWER LATERAL
	EXISTING WATER LINE
	EXISTING FIRE HYDRANT, VALVE,
	TEE AND WATER METER FIT
	PROPOSED WATER LINE
	FLOW DIRECTION
	EXISTING CONTOURS
	PROPOSED ELEVATION
	STORM BESIVE INLET
	STORM INLET
	TOP OF CASTING
	INVERT
	REINFORCED CONCRETE PIPE
	RCP
	M.H.
	STR.
	DE
	D.U.A.S.E.
	L.M.E.
	ME
	TYP.
	PROP.
	EXP.
	R.
	V.W.
	MLAG
	ROW
	B-S
	B.S.L
	HP

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ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.	1760409
DWG. NAME:	AS BUILT Storm Sewer
DESIGNED BY:	MEH
DRAWN BY:	MEH
CHECKED BY:	AE
DATE:	05/02/2019

REVISIONS AND ISSUES



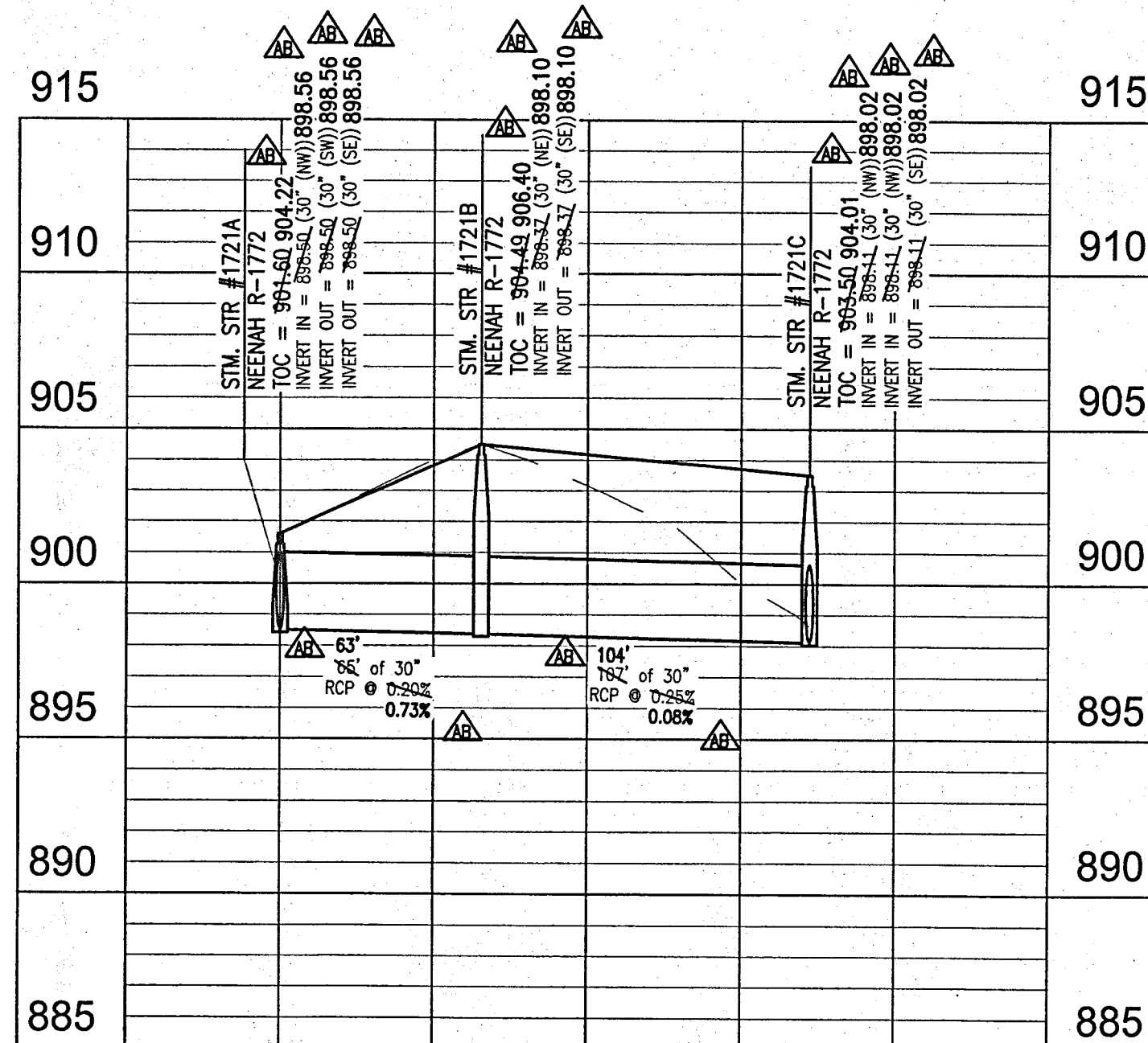
PREPARED FOR:
WATERFRONT OF WEST CLAY SECTION 1
REPLAT OF LOTS 36-47
WATERFRONT HOMES
STORM PLAN AND PROFILE
Part of the SW 1/4 of Section 31, Township 18 North, Range 2 East, Clay Township, Hamilton County, Indiana



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PER INDIANA STATE LAW IC 8-1-26,
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.



PROFILE LEGEND

- EXISTING GRADE
- FINISHED GRADE
- GRANULAR BACKFILL

SHEET NO.
C600
PROJECT NO.
W160409