



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 3, 2013

To: Hamilton County Drainage Board

Re: Long Branch Drain, Hadley Grove Arm

Attached is a petition filed by MI Homes of Indiana, LP, along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Hadley Grove Arm, Long Branch 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	1687 ft.	27" RCP	122 ft.
15" RCP	466 ft.	6" N-12	10 ft.
18" RCP	955 ft.	6" SSD	7,570 ft.
21" PCP	651 ft		

The total length of the drain will be 11,461 feet.

With this development, Sta 0+00 to 3+40 of the J.W. Brendle Drain per the 1909 legal description will be vacated.

The retention ponds (lakes) located in Common Area A and Common Area C are to be considered part of the regulated drain. Pond maintenance shall include inlet, outlet, and erosion control along the banks as part of the regulated drain. The maintenance of the pond such as mowing, aquatic vegetation control and sediment removal will be the responsibility of the Homeowners Association. The Board will also retain jurisdiction for ensuring the storage volume for which the pond was designed will be retained, thereby, allowing no fill or easement encroachments.

The existing pond (lake) located in Common Area B is not to be considered part of the regulated drain. Only the outlet, which is Str. 210 and the 6" ADS pipe, will be maintained as part of the regulated drain. The maintenance of the pond (Lake) will be the responsibility of the Homeowners Association. The Board will retain jurisdiction for ensuring the storage volume for which the pond was designed will be retained, thereby, allowing no fill or easement encroachments.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines in rear yards. Only the main SSD lines which are located within the easement or right of way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The portion of the SSD which will be regulated other than those under curbs are as follows:

Rear yard lots 1, 2, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33, and 34.

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 \$65.00 per platted lot, \$10.00 per acre for common areas, with a \$65.00 minimum, and \$10.00 per acre for roadways. With this assessment the total annual assessment for this drain/this section will be \$2,910.90.

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

Agent: The Handover Insurance Company

Date: September 3, 2013

Number: 1024400

For: Storm Sewers & Sub-Surface Drains

Amount: \$243,150.00

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. The request will be for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Hadley Grove 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

STATE OF INDIANA COUNTY OF HAMILTON ) MAY 1 7 2013

TO: HAMILTON COUNTY DRAINAGE BOARD

% Hamilton County Surveyor One Hamilton County Square, Suite 188 Noblesville, IN. 46060-2230

OFFICE OF H	AMILTON	COUNTY	SURVEYOR
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In the matter of	Hadley Grove	Subdivision, Section
	Drain Petition.	
		proposed new regulated drain. The
drainage will affect various lo	ts in Hadley Grove	, a subdivision in Hamiltor
County, Indiana. The general roads as shown in the plans or	and the first that the first property and the contract of the contract first the contract of t	existing easements and along public

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:

- 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.
- 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.
- 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	N A
Cuff white MITHOR	nes of Indiana, (P)
Signed Cliff White	Signed
Printed Name 5/13/13	Printed Name
Date	Date
Signed	Signed
Printed Name	Printed Name
Date	Date

### FINDINGS AND ORDER

### CONCERNING THE MAINTENANCE OF THE

## Long Branch Drain, Hadley Grove Arm

On this 9<sup>th</sup> day of December, 2013, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the Long Branch Drain, Hadley Grove 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
Mulh	
President	
Halik bry	
Member	

Attest: Lynette Mashrugh

#### FINDINGS AND ORDER

#### CONCERNING THE PARTIAL VACATION OF THE

#### Long Branch Drain, Hadley Grove Arm

Station 0+00 to Station 3+40 (J. W. Brendel Drain)

On this  $9^{th}$  day of December, 2013, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the Long Branch Drain, Hadley Grove Arm from Station 0+00 to Station 3+40 (J. W. Brendel Drain).

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, Hadley Grove Arm from Station 0+00 to Station 3+40 (J. W. Brendel Drain).

Member

HAMILTON COUNTY DRAINAGE BOARD
May Cul
you -
President
your 1/2 land
Member
1

Attest: Lipsette Mostreugh



August 8, 2013

City of Carmel -Engineering Department Carmel City Hall, 1st Floor, 1 Civic Square Carmel, Indiana 46032 Attention: Mike McBride

RE:

**Hadley Grove** 

Dear Mr. McBride:

On behalf of our client, M.I Homes, please accept the following Engineer's Cost Estimate for Hadley Grove. The estimate is as follows:

<b>Description</b>	Quantity	Unit	<b>Unit Cost</b>	<b>Total Cost</b>	
Storm Sewer					
Tap. Ex. Str. by conn. stub (dep=0-10ft)	1	LS	\$1,000.00	\$1,000	
12 RCP	1401	LF	\$15.65	\$21,926	
15 RCP	872	LF	\$19.15	\$16,699	
18 RCP	955	LF	\$22.25	\$21,249	
21 RCP	651		\$25.75	\$16,763	
27 RCP	122		\$35.15	\$4,288	
12" End section w/trash guards	2		\$975.00	\$1,950	
21" End section w/trash guards	3		\$1,175.00	\$3,525	
27" End section w/trash guards	1		\$1,375.00	\$1,375	
Small Manholes	3	EA	\$1,395.00	\$4,185	
Small Beehive inlets	9	EA	\$1,125.00	\$10,125	
Large Beehive inlets	1	EA	\$1,420.00	\$1,420	
Small single curb inlet	8	EA	\$1,345.00	\$10,760	
Double curb inlet	8	EA	\$2,400.00	\$19,200	
Outlet control structure	2	EA	\$1,255.00	\$2,510	
Re-set inlets on 131st Street	2	EA	\$700.00	\$1,400	
No 8 Stone bedding	780	TN .	\$15.25	\$11,895	
Sand backfill	210	TN	\$11.00	\$2,310	
Riprap	40	TN	\$35.00	\$1,400	
				\$153,980	\$ 153,980
Subsurface Drain					
Curb – 6" Sub-Drain	5035	LF	\$6.75	\$33,986	
Swale – 6" Sub-Drain	1545	LF	\$6.75	\$10,429	
SSD Risers	.4	EA	\$250.00	\$1,000	
4" Lot Leads	38	LS	\$85.00	\$3,230	
				\$48,645	\$ 48,645



Engineer's Estimate - DOE August 8, 2013 Page 2 of 2

Curb					
Concrete Roll Curb	5047	FT	\$6.55	\$33,058	
Concrete Chairback Curb	826	FT	\$12.70	\$10,490	
				\$43,548	\$ 43,548
Paving					
7" #53 stone	7743	SY	\$5.56	\$43,051	
7" #53 stone:under curb and gutter	1397	SY	\$4.95	\$6,915	
3" HMA 15mm Base type B	7743	SY	\$8.53	\$66,048	
3" HMA 19mm Intermediate type B	7743	SY	\$6.04	\$46,768	
1.5" HMA 9.5mm Surface type B	7743	SY	\$5.73	\$44,367	
				\$207,149	\$ 207,149
ROW Paving					
3" HMA 25mm Base type C R/W	924	SY	\$11.77	\$10,875	
2.5" HMA 19mm Intermediate type C R/W	924	SY	\$9.63	\$8,898	
2.5" HMA 19mm Intermediate type C R/W	924	SY	\$9.63	\$8,898	
3.5" HMA 25mm Base tpe C R/W	924	SY	\$13.22	\$12,215	
1.5" HMA 9.5mm Surface type C R/W	924	SY	\$8.37	\$7,734	
Thermo Plastics	1	LS	\$1,974.00	\$1,974	
				\$50,594	\$ 50,594
10' Walking Path					
5" #53 stone Walk Path	375	SY	\$6.53	\$2,449	
3" HMA 19mm Intermediate type B:Walk Path	375	SY	\$13.47	\$5,051	
1" HMA 9.5mm Surface type B: Walk Path	375	SY	\$7.06	\$2,648	
				\$10,148	\$ 10,148
Sidewalks (Builder)					
Concrete Sidewalk	2860	SFT	\$3.45	\$9,867	\$ 9,867
Street Signs					
Street Name Sign	4	EA	\$200.00	\$800	
Stop Sign	4	$\mathbf{E}\mathbf{A}$	\$200.00	\$800	
Speed Limit Sign	4	EA	\$400.00	\$1,600	
No Outlet Sign	1	EA	\$240.00	\$240	
				\$3,200	\$ 3,200
Centerline Monuments	11	EA	\$175.00	\$1,925	\$ 1,925
Project Total					\$ 529,056

James E. Shields Jr. Professional Engineer No. PE10201333

Witness my signature this <u>8</u> day of <u>August</u>, 2013.



#### SUBDIVISION BOND

	Bond No.:	Principal Amount: \$243,150.00
Thousand One Hur	Insurance Companyan NH Corporation, a Board of Commissioners, One Hammon County Square and Fifty and No/100 (\$243,150.00), lawful money	M/I Homes of Indiana, LP, as Principal, and The Hanover s Surety, are held and firmly bound onto Hamilton County e, Noblesville, IN. 46060, as Obligee, in the penal sum of Two Hundred Forty Three of the United States of America, for the payment of which executors, administrators, successors, and assigns, jointly t in Hadley Grove Subdivision, in torm water
	construct, or have constructed, the improvement herein loss, cost or damage by reason of its failure to complete otherwise to remain in full force and effect until release of the Obligee indicating that the improvements have n	ed by the Obligee, and the Surety, upon receipt of a resolution of been installed or completed per the requirement of the Obligee such amount up to the Principal amount of this bond
	Upon approval by the Obligee, this instrument are completed, but only by doing a rider to this original	may be proportionately reduced as the public improvements bond.
沒	Signed, sealed and dated, this 3rd day of Sept.,	2013 _
	M/I Homes of Indiana, L.P.	The Hanover Insurance Company
	By:	By: Kimber & Sherrod
	Name and Title:	Name and Title: Kimberly G. Sherrod, Attorney-in-Fact
<u>u</u>	Mark Kirkendall	

VP, Housing & Land Controller

Exhibit 102-4: Subdivision Bond Form Page 1 of 1

100-28

# THE HANOVER INSURANCE COMPANY MASSACHUSETTS BAY INSURANCE COMPANY CITIZENS INSURANCE COMPANY OF AMERICA



#### POWERS OF ATTORNEY CERTIFIED COPY

KNOW ALL MEN BY THESE PRESENTS: That THE HANOVER INSURANCE COMPANY and MASSACHUSETTS BAY INSURANCE COMPANY, both being corporations organized and existing under the laws of the State of New Hampshire, and CITIZENS INSURANCE COMPANY OF AMERICA, a corporation organized and existing under the laws of the State of Michigan, do hereby constitute and appoint

#### Kimberly G. Sherrod

of Columbus, OH and each is a true and lawful Attorney(s)-in-fact to sign, execute, seal, acknowledge and deliver for, and on its behalf, and as its act and deed any place within the United States, or, if the following line be filled in, only within the area therein designated any and all bonds, recognizances, undertakings, contracts of indemnity or other writings obligatory in the nature thereof, as follows:

Any such obligations in the United States, not to exceed Twenty Five Million and No/100 (\$25,000,000) in any single instance

and said companies hereby ratify and confirm all and whatsoever said Attorney(s)-in-fact may lawfully do in the premises by virtue of these presents. These appointments are made under and by authority of the following Resolution passed by the Board of Directors of said Companies which resolutions are still in effect:

"RESOLVED, That the President or any Vice President, in conjunction with any Vice President, be and they are hereby authorized and empowered to appoint Attorneys-in-fact of the Company, in its name and as its acts, to execute and acknowledge for and on its behalf as Surety any and all bonds, recognizances, contracts of indemnity, waivers of citation and all other writings obligatory in the nature thereof, with power to attach thereto the seal of the Company. Any such writings so executed by such Attorneys-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 in their own proper persons." (Adopted October 7, 1981 - The Hanover Insurance Company; Adopted April 14, 1982 - Massachusetts Bay Insurance Company; Adopted September 7, 2001 - Citizens Insurance Company of America)

IN WITNESS WHEREOF, THE HANOVER INSURANCE COMPANY, MASSACHUSETTS BAY INSURANCE COMPANY and CITIZENS INSURANCE COMPANY OF AMERICA have caused these presents to be sealed with their respective corporate seals, duly attested by two Vice Presidents, this 26th day of April 2012.

LIBERT LI

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

Robert Thomas, Vice President

THE COMMONWEALTH OF MASSACHUSETTS ) COUNTY OF WORCESTER ) ss.

Joe Brenstrom, Vice President

On this 26th day of April 2012 before me came the above named Vice Presidents of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, to me personally known to be the individuals and officers described herein, and acknowledged that the seals affixed to the preceding instrument are the corporate seals of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, respectively, and that the said corporate seals and their signatures as officers were duly affixed and subscribed to said instrument by the authority and direction of said Corporations.

BARBARA A. GARLICK
Notary Public
Commonwealth of Massachusetts
My Commission Expires Sept. 21, 2018

Barbara A. Garlick, Notary Public

My Commission Expires September 21, 2018

I, the undersigned Vice President of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, hereby certify that the above and foregoing is a full, true and correct copy of the Original Power of Attorney issued by said Companies, and do hereby further certify that the said Powers of Attorney are still in force and effect.

This Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America.

"RESOLVED, That any and all Powers of Attorney and Certified Copies of such Powers of Attorney and certification in respect thereto, granted and executed by the President or any Vice President in conjunction with any Vice President of the Company, shall be binding on the Company to the same extent as if all signatures therein were manually affixed, even though one or more of any such signatures thereon may be facsimile." (Adopted October 7, 1981 - The Hanover Insurance Company; Adopted April 14, 1982 - Massachusetts Bay Insurance Company; Adopted September 7, 2001 - Citizens Insurance Company of

GIVEN under my hand and the seals of said Companies, at Worcester, Massachusetts, this

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

Glenn Margosian, Vice President

# BEFORE THE HAMILTON COUNTY DRAINAGE BOARD IN THE MATTER OF

## Long Branch Drain, Hadley Grove Arm

NOTICE

То	Whom	It	May	Concern	and:	
					74 59	

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the Long Branch Drain, Hadley Grove 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

#### Long Branch Drain, Hadley Grove Arm

NOTICE .

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **December 9, 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

**September 29, 2012** 

Re: Long Branch Drain - Hadley Grove Arm

Attached are as-builts, certificate of completion & compliance, and other information for Long Branch Drain – Hadley Grove Arm. 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 3, 2013. The report was approved by the Board at the hearing held December 9, 2013. (See Drainage Board Minutes Book 15, Pages 289-290) The changes are as follows:

The 12" RCP was lengthened from 1687 feet to 1701 feet. The 18" RCP was shortened from 955 feet to 953 feet. The 21"RCP was shortened from 651 feet to 650 feet. The 27" RCP was lengthened from 122 feet to 127 feet. The 6" SSD was shortened from 7,570 feet to 7,461 feet. The length of the drain due to the changes described above is now 11,368 feet.

The non-enforcement was approved by the Board at its meeting on December 9, 2013 and recorded under instrument #2014037282.

The following sureties were guaranteed by Hanover Insurance Company and released by the Board on its October 13, 2014 meeting.

Bond-LC No: 1024400 Insured For: Storm Sewers Amount: \$243,150.00

Issue Date: September 3, 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

Lett.

AUG 2 1 2014

To: Hamilton County Surveyor

OFFICE OF HAMILTON COUNTY SURVEYOR

Re: Hadley Grove

## 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.

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Signature:	Date: 8-18-14
Type or Print Name:	VJames E. Shields, Jr.
Business Address:	10505 North College Avenue
	Indianapolis, Indiana 46280
Telephone Number:	317-846-6611



INDIANA REGISTRATION NUMBER

PE 10201333

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

This information was gathered for input into the Hamilton County Geographic Information

ystem (GIS). This document is considered an

This copy printed from Digital Archive of the Hamilton County Surveyor's Office; One Hamilton Co. Square, Ste., Noblesville, In 46060

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 1-0", 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 1-0", 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.

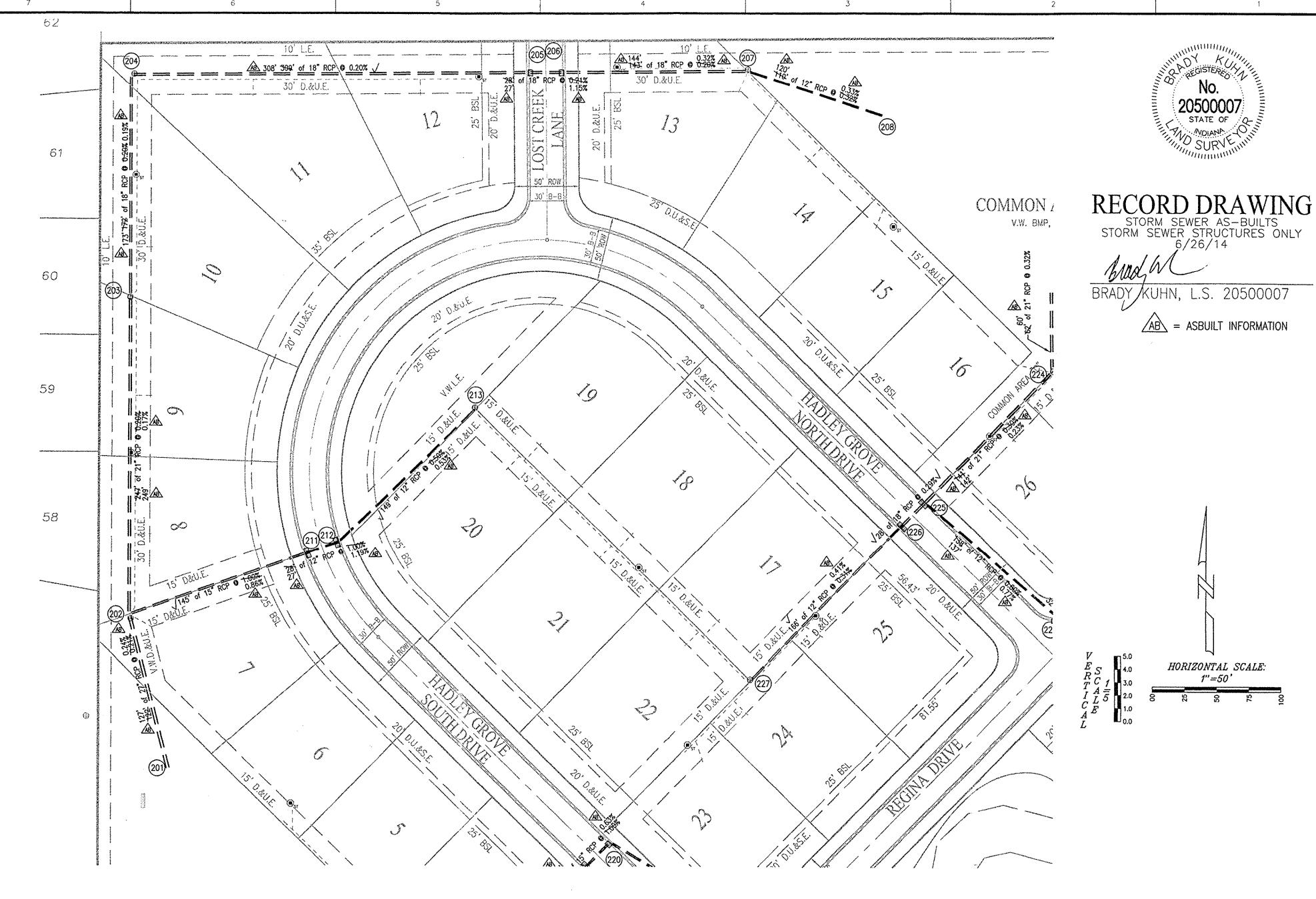
COVER HEIGHTS FOR REINFORCED CONCRETE PIPE STORM SEWER THAT ARE LESS THAN THOSE REQUIRED WILL BE EVALUATED ON A CASE BY CASE CONDITION AND APPROVED ONLY WITH WRITTEN PERMISSION BY THE CITY

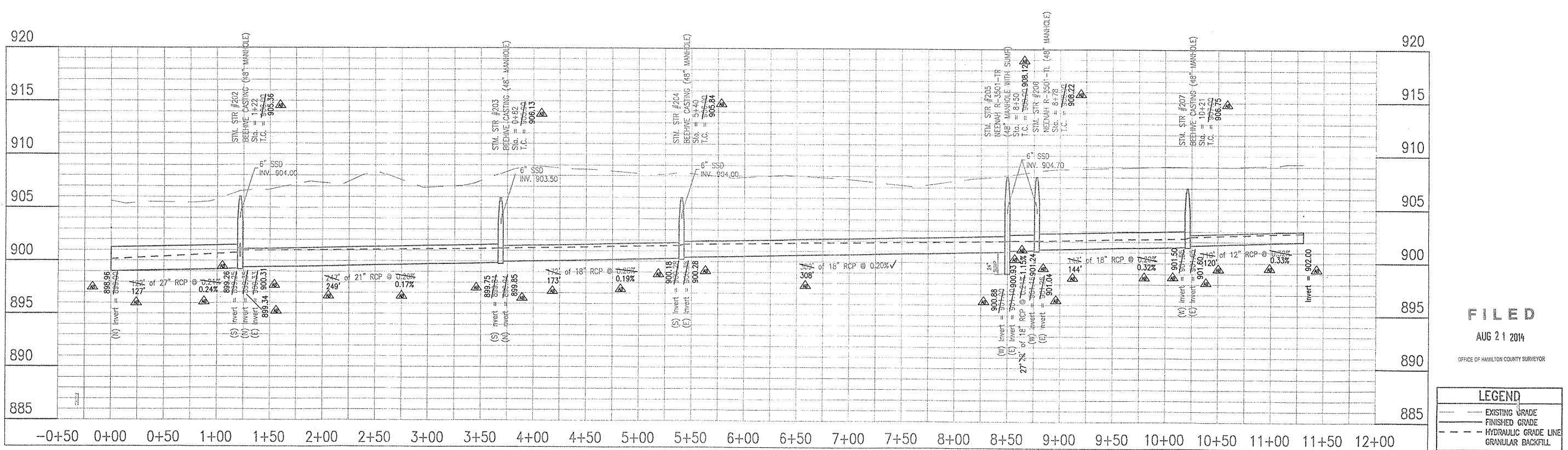
THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS, DEVIATIONS FROM THE APPROVED DESIGN SHALL ONLY BE PERMITTED DUE TO SPECIAL CIRCUMSTANCES OR DIFFICULTY DURING CONSTRUCTION AND WILL REQUIRE PRIOR FIELD APPROVAL 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.

# STORM SEWER PLAN AND PROFILE NOTES:

FULL DEPTH GRANULAR BACKFILL SHALL BE PER DETAIL 10-28 ON THIS SHEET. REFER TO DETAIL 10-28, THIS SHEET, FOR TRENCHING, BACKFILL AND COVER REQUIREMENTS. PIPES LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND DOES NOT INCLUDE END SECTIONS.

THERE SHALL BE NO FRAMES, CASTINGS, OR VALVE BOX EXTENSIONS IN THE STREET PAVEMENT, CURBS, SIDEWALKS, OR ASPHALT PATH FOR ANY UTILITY INSTALLATIONS IN THE RIGHT-OF-WAY WITH THE EXCEPTION OF CURB INLET





HADLEY GROVE

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AUG 2 1 2014

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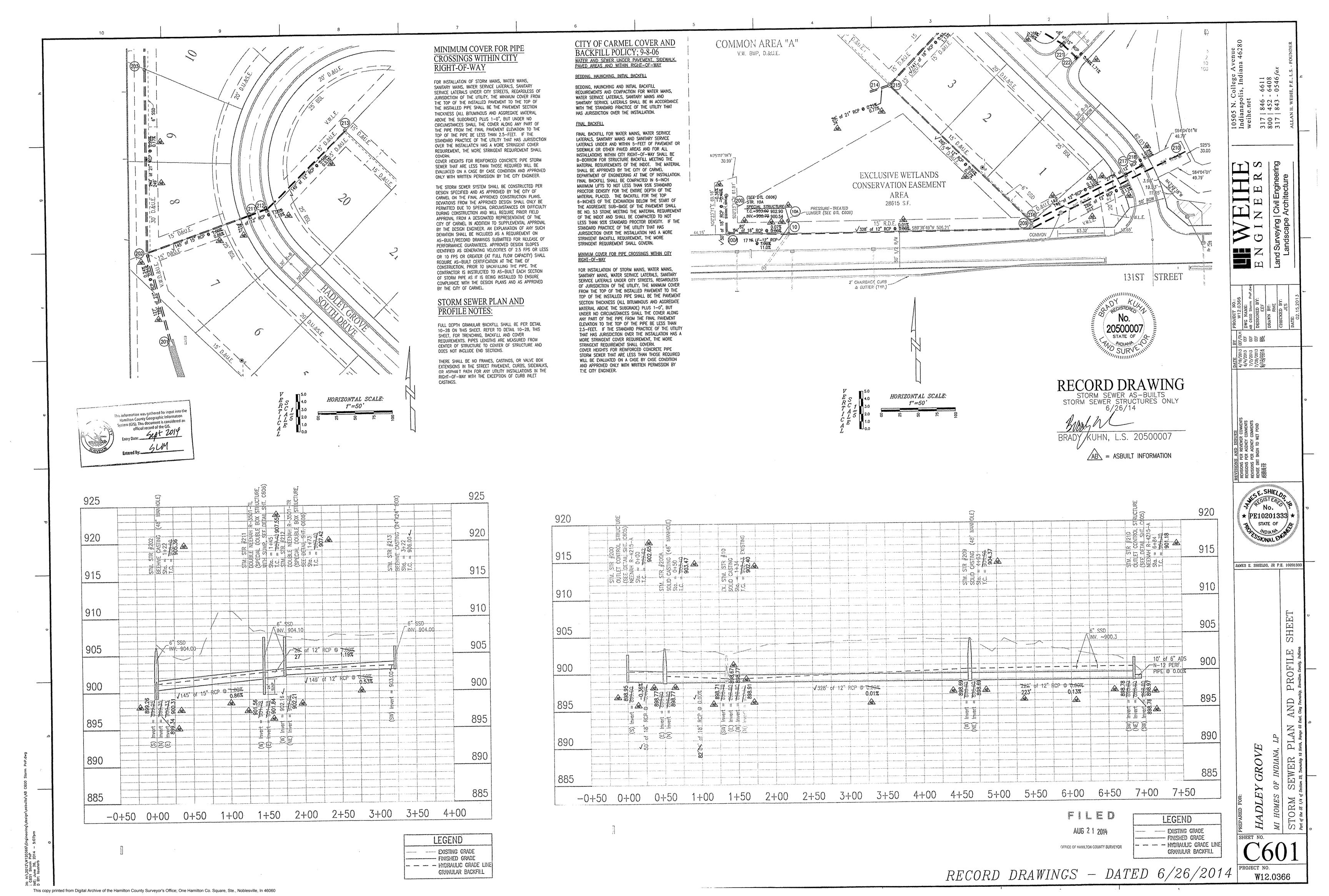
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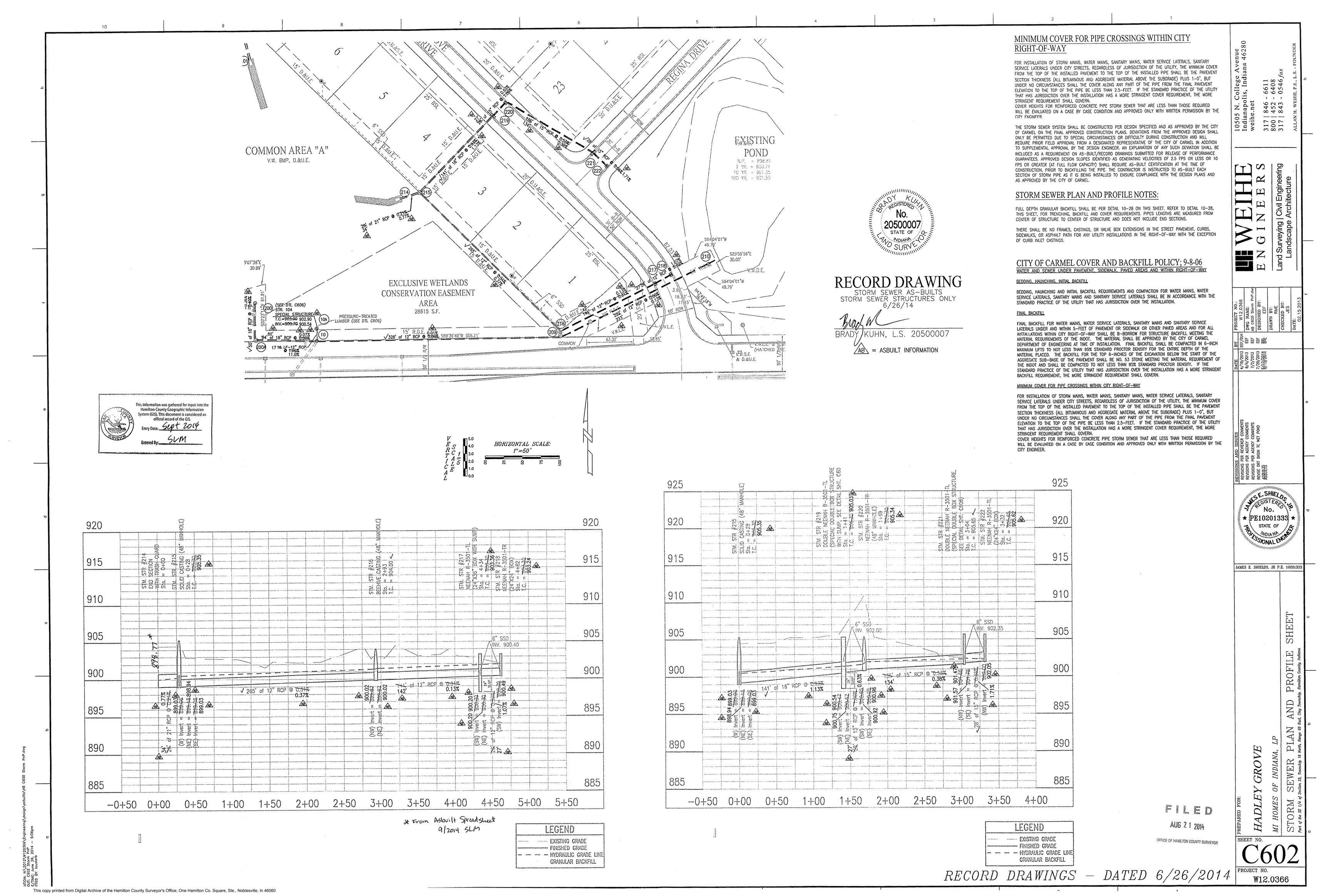
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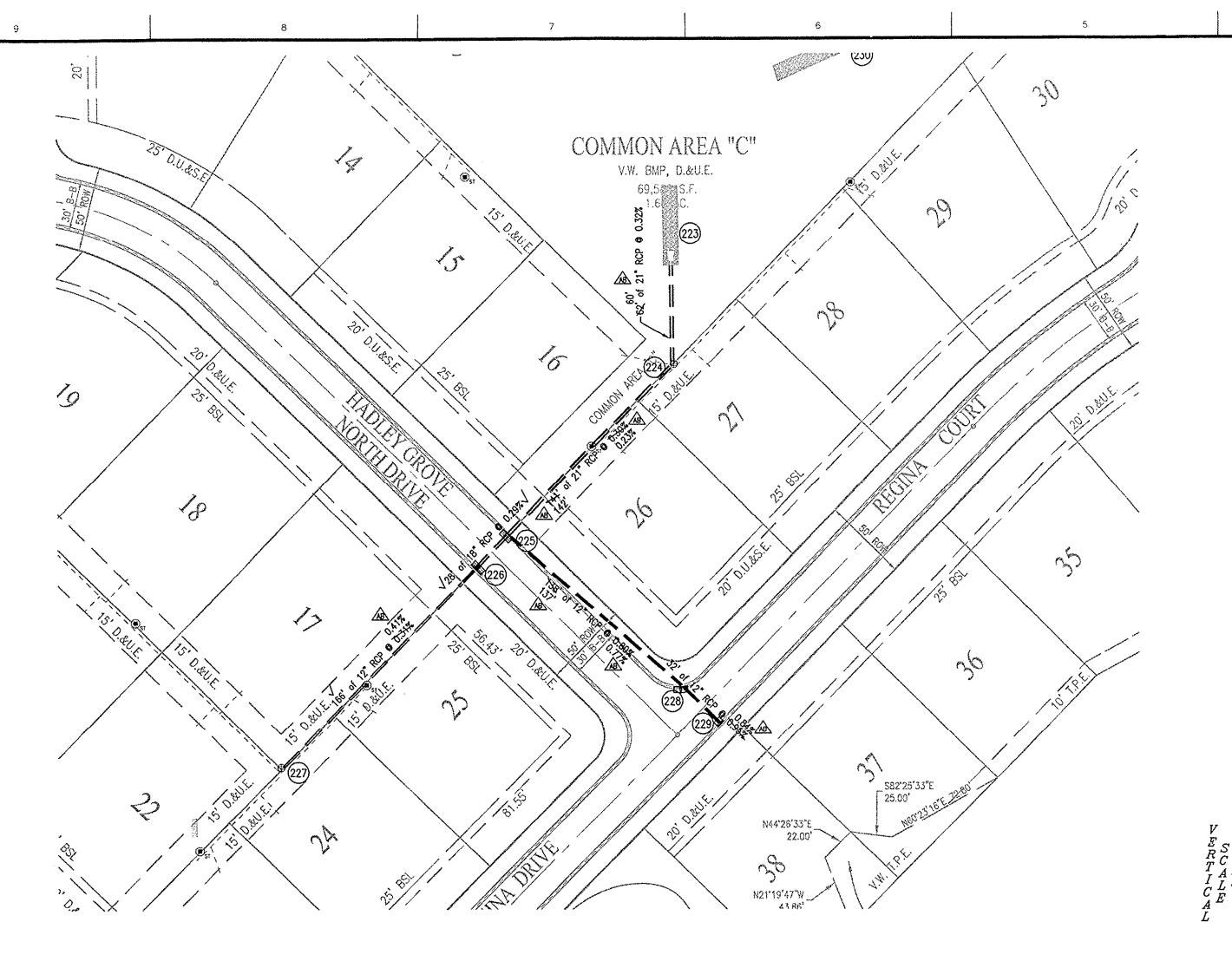
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RECORD DRAWINGS - DATED 6/26/2014

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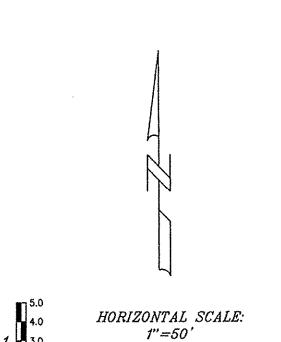


# RECORD DRAWING

STORM SEWER AS-BUILTS STORM SEWER STRUCTURES ONLY

KUHN, L.S. 20500007

AB = ASBUILT INFORMATION



# 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.

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

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# STORM SEWER PLAN AND PROFILE NOTES:

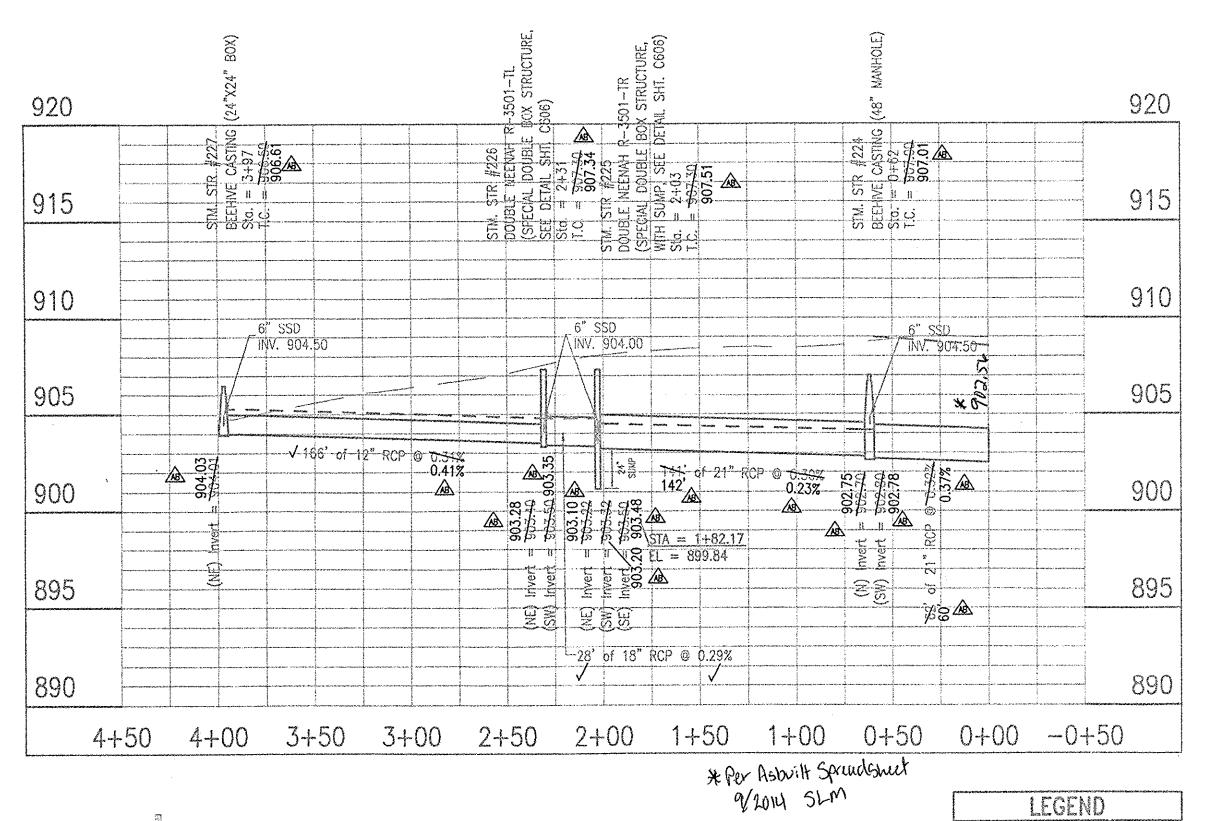
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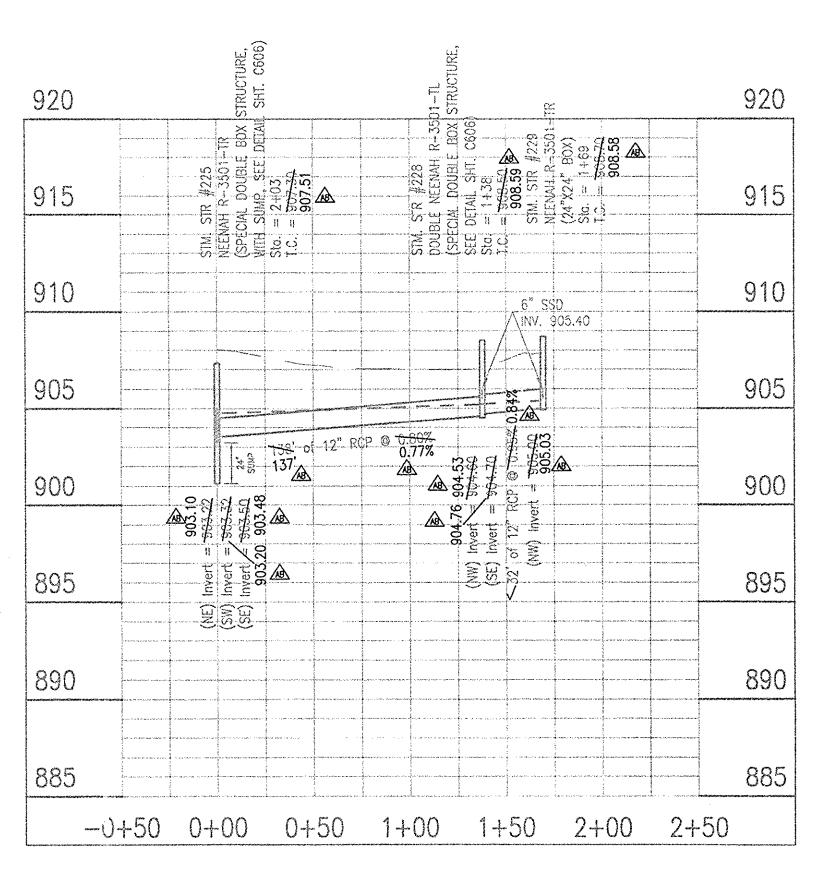
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This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS. Entry Date: Sept 2014 Entered By: SLM

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LEGEND --- EXISTING GRADE --- FINISHED GRADE — — HYDRAULIC GRADE LINE GRANULAR BACKFILL FILED AUG 2 1 2014

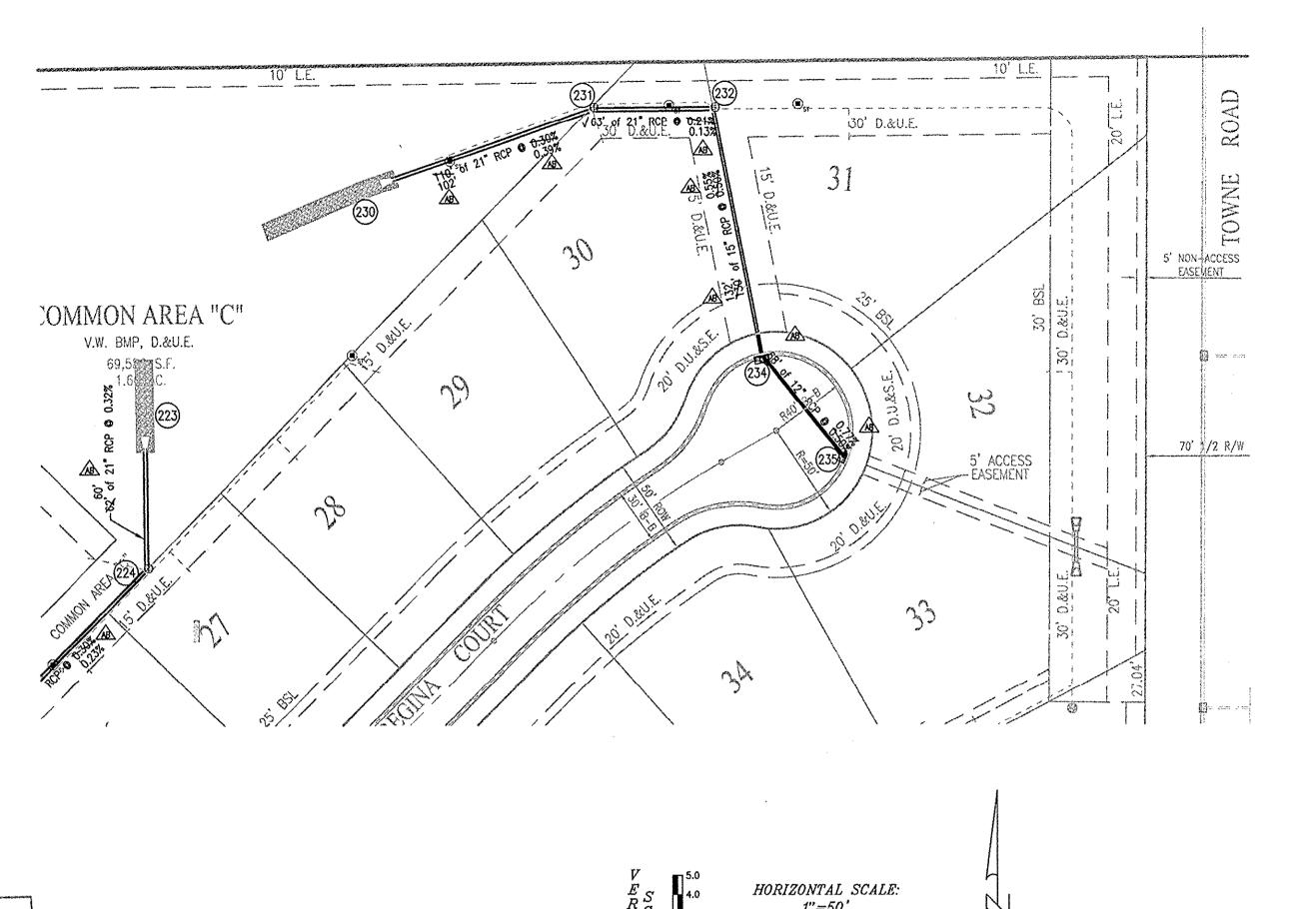
OFFICE OF HAMILTON COUNTY SURVEYOR

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STORM C603

RECORD DRAWINGS - DATED 6/26/2014 W12.0366

LEGEND --- EXISTING GRADE ---- FINISHED GRADE - - - HYDRAULIC GRADE LINE

GRANULAR BACKFILL





# RECORD DRAWING STORM SEWER AS-BUILTS

STORM SEWER STRUCTURES ONLY

RADY KUHN, L.S. 20500007

AB = ASBUILT INFORMATION

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PARTICLE OF HAMILTON COUNTY SURVEYOR

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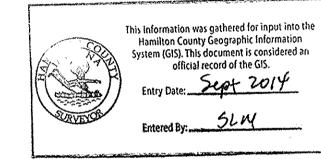
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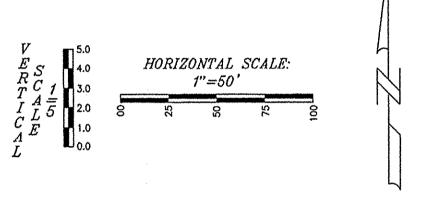
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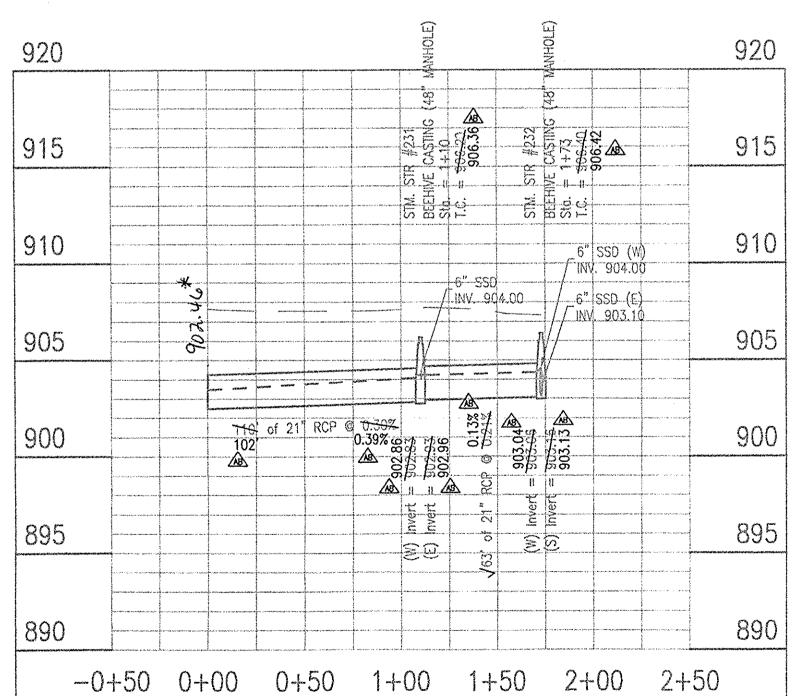
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\* for Asbuilt Spreadsheet 9/2014 SLM

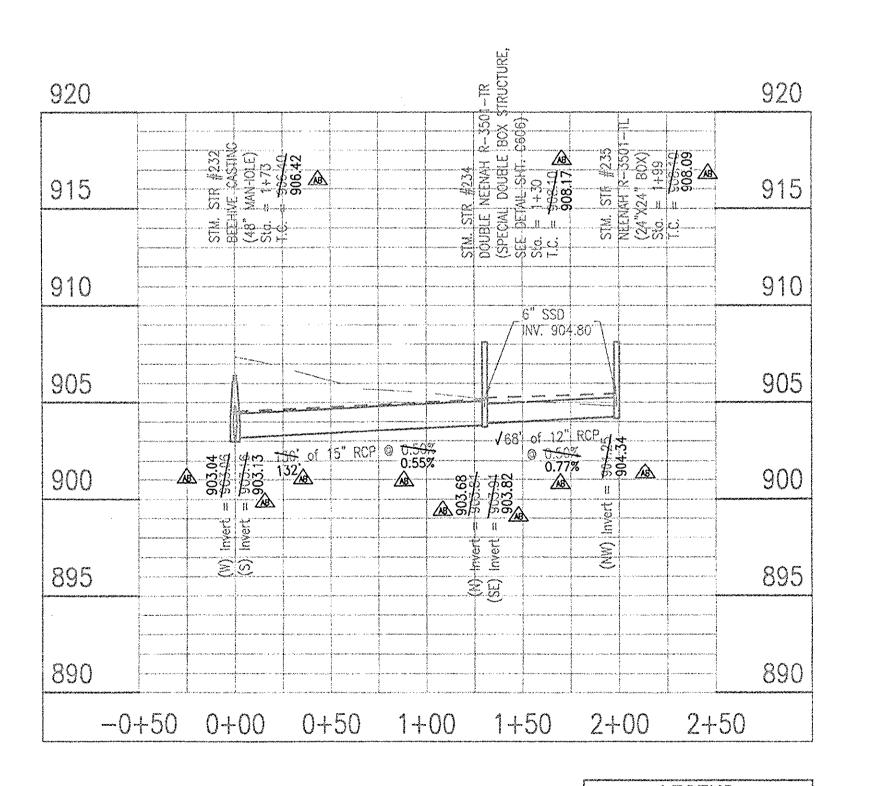
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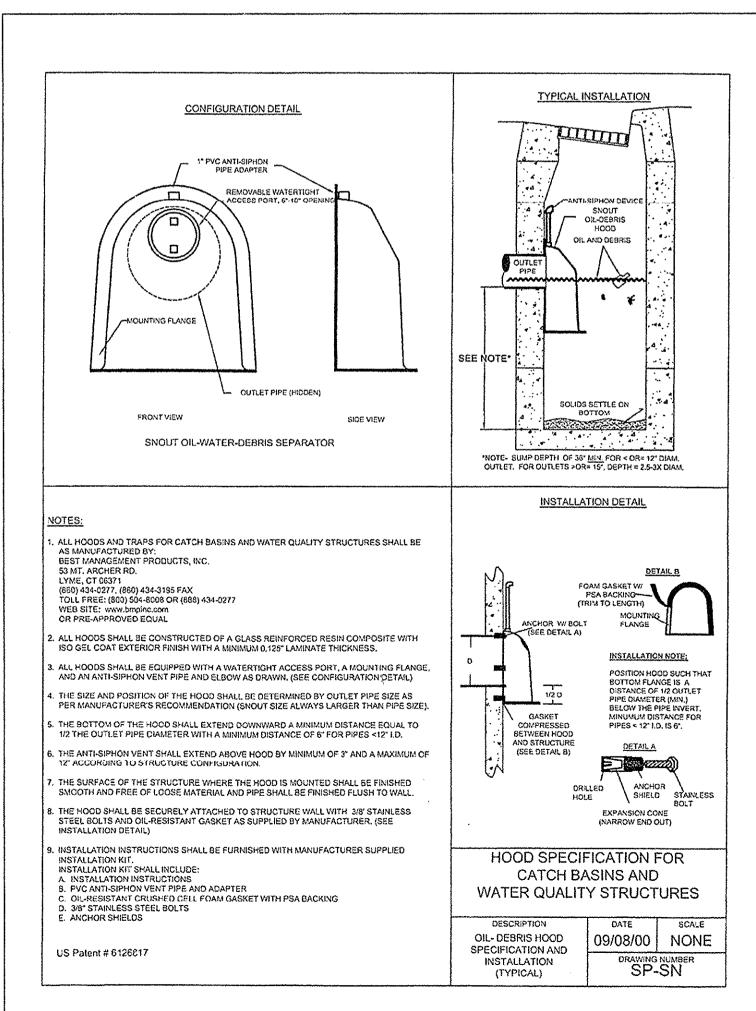
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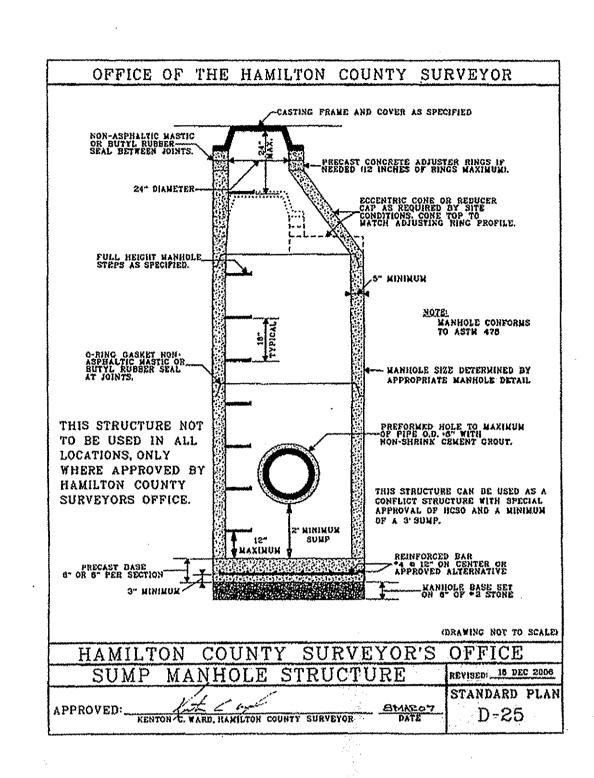
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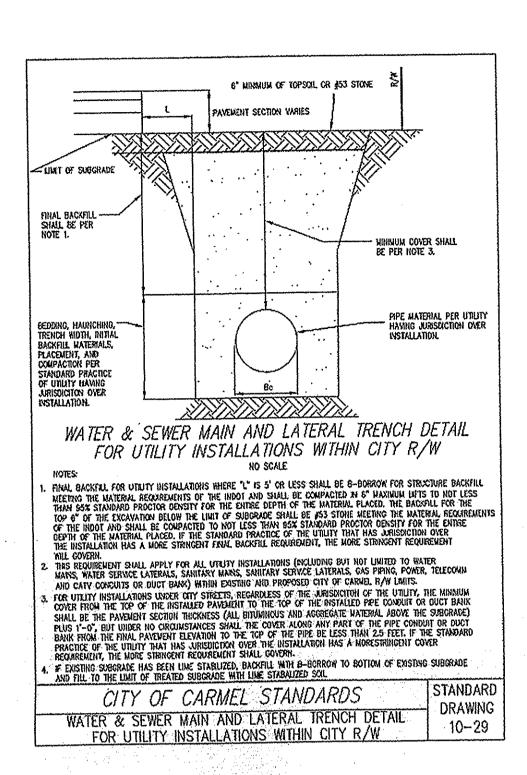
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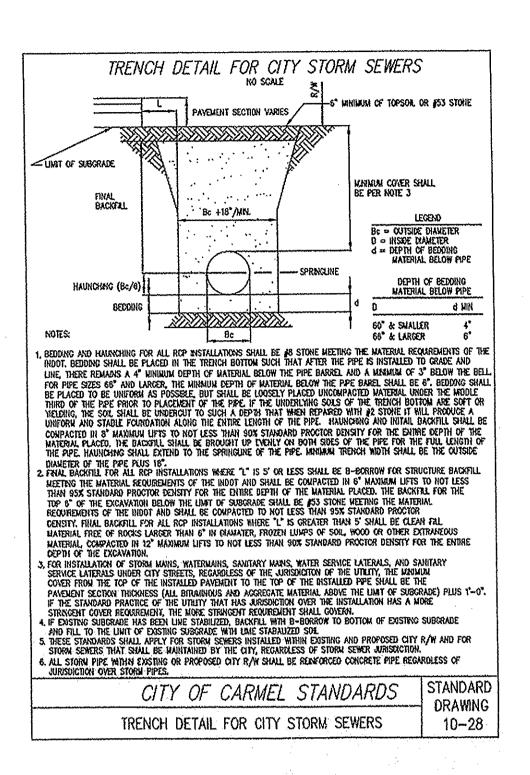
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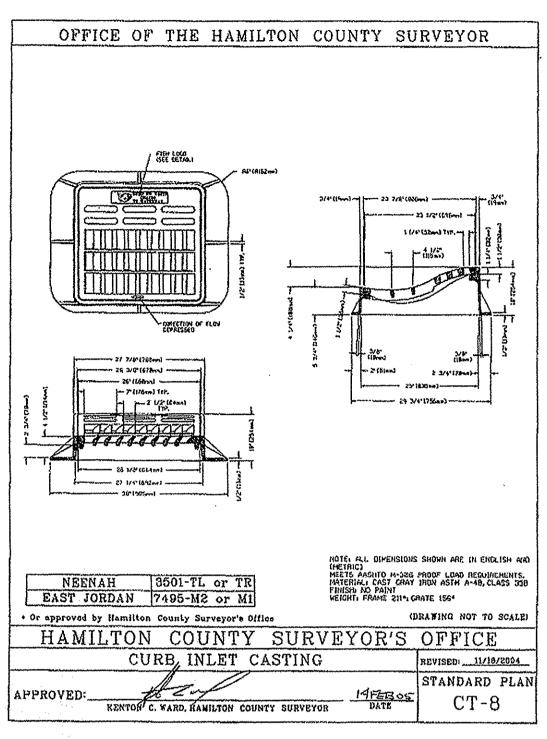


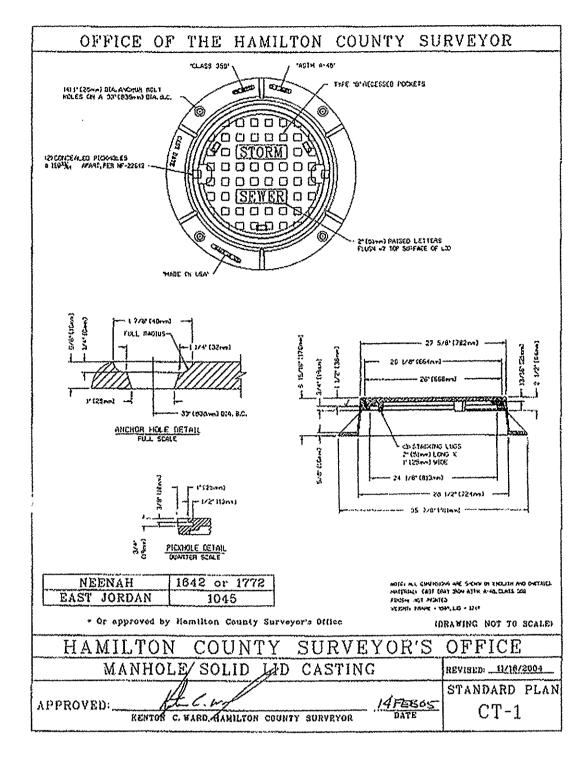












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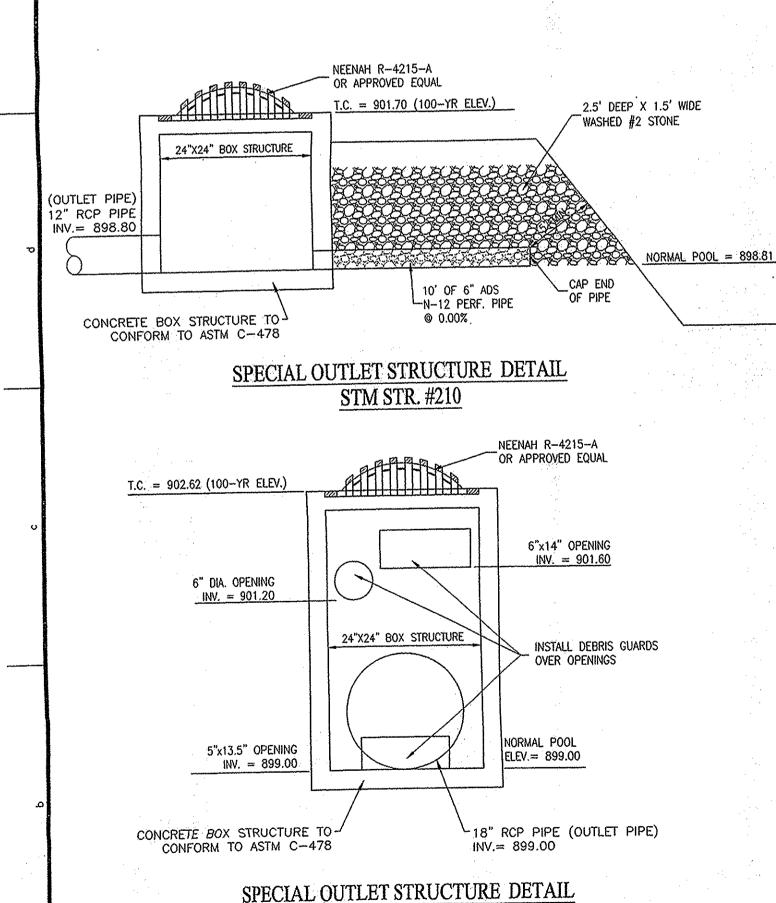
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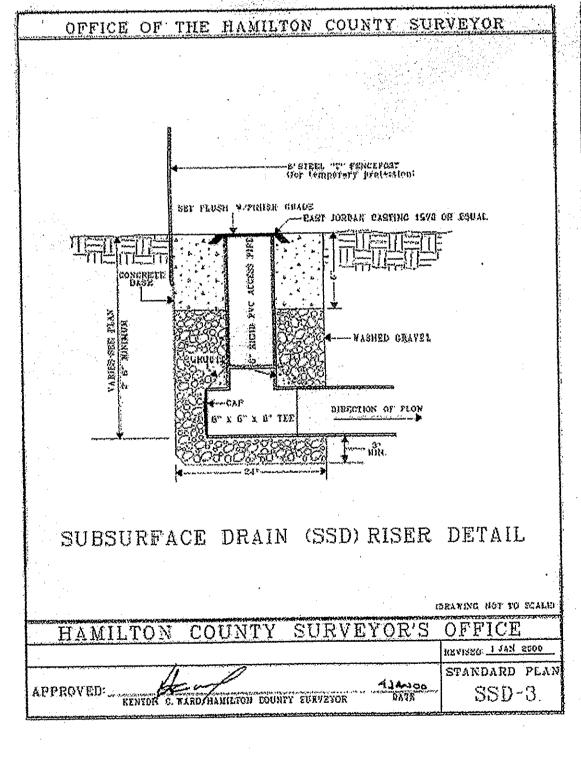
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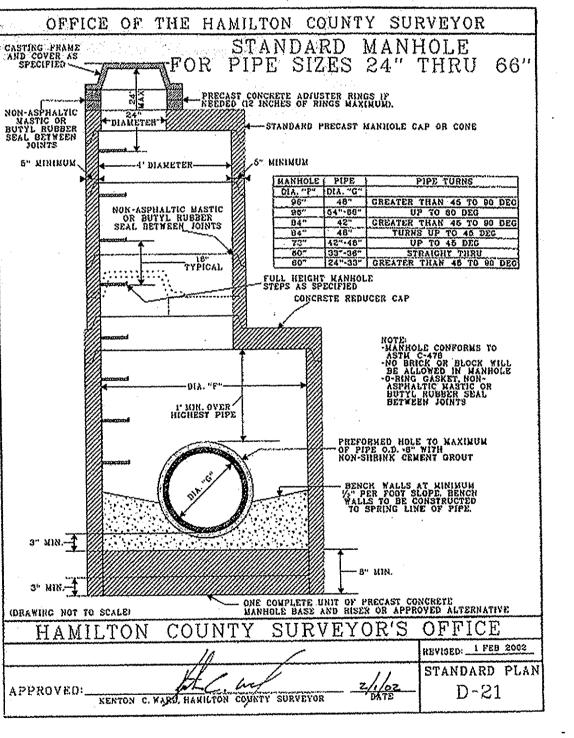
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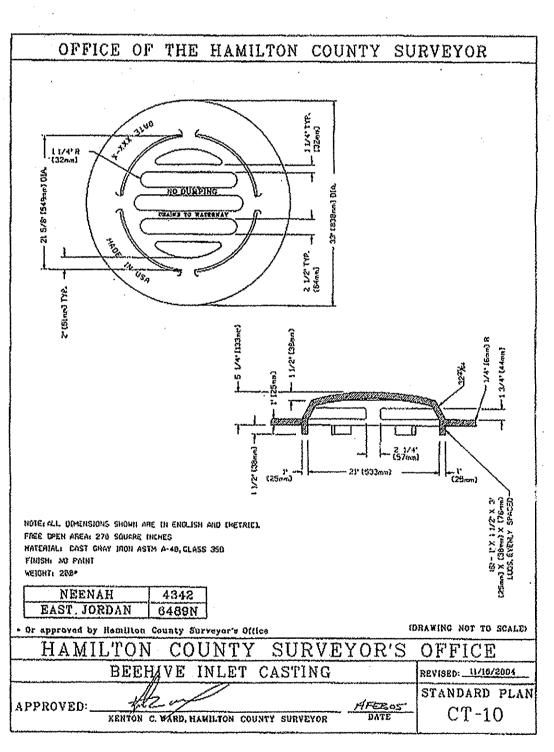


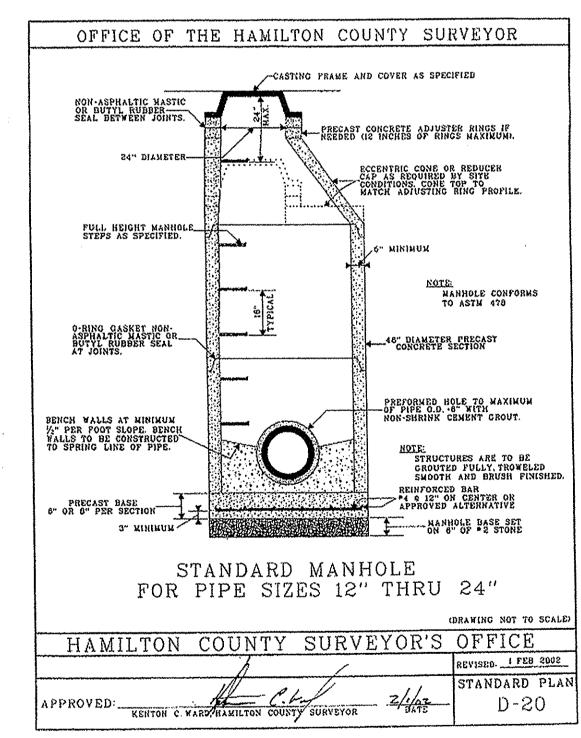
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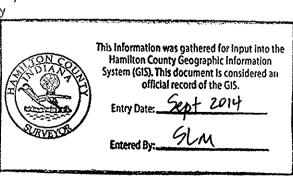


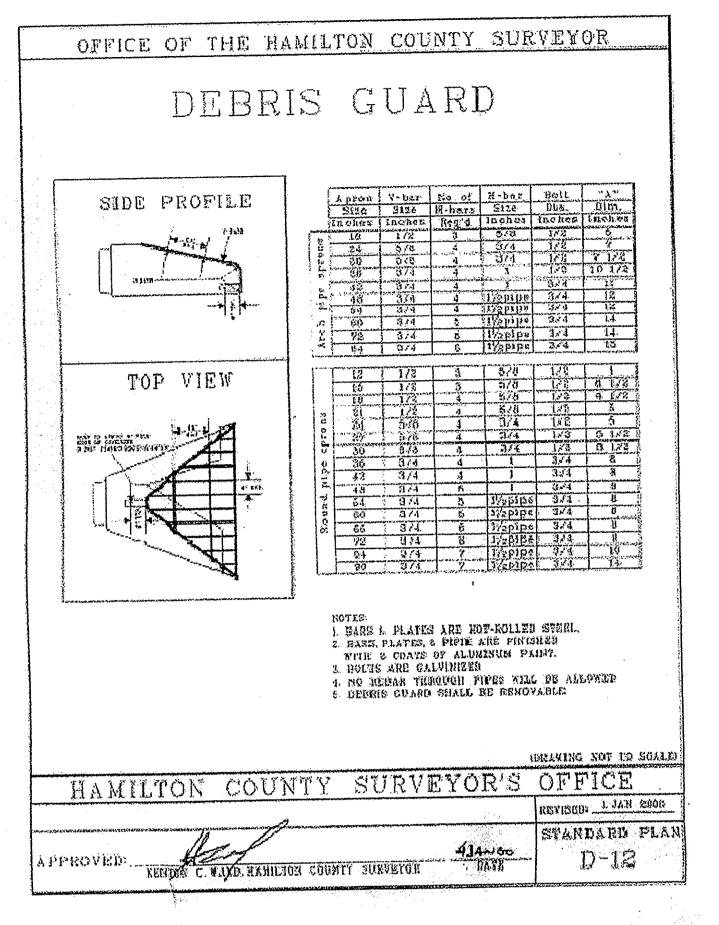






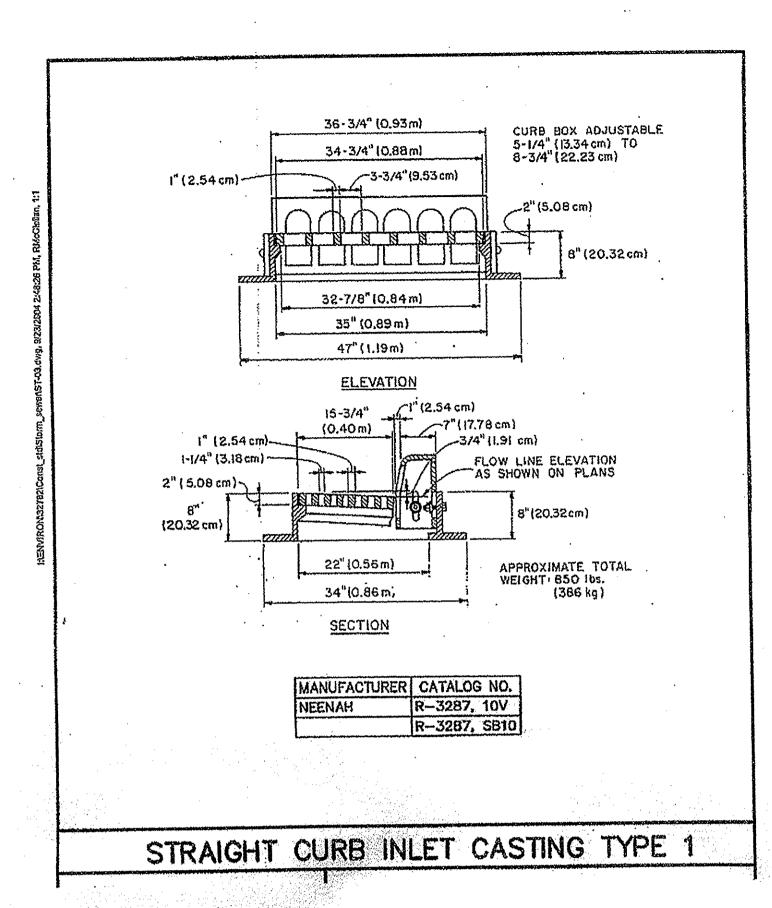
Regulated Drain Design Standards only and does not imply Drainage Board acceptance nor secondary alot approved

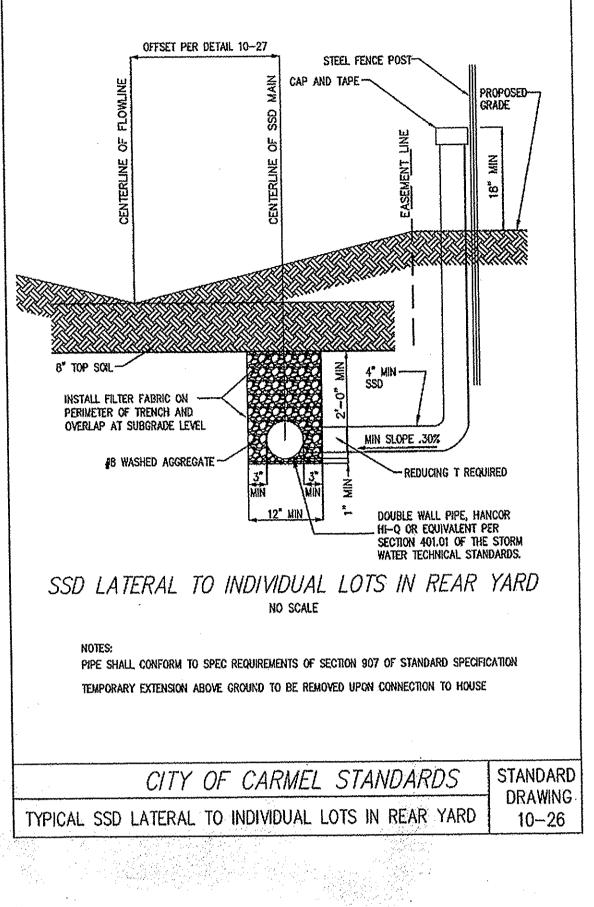


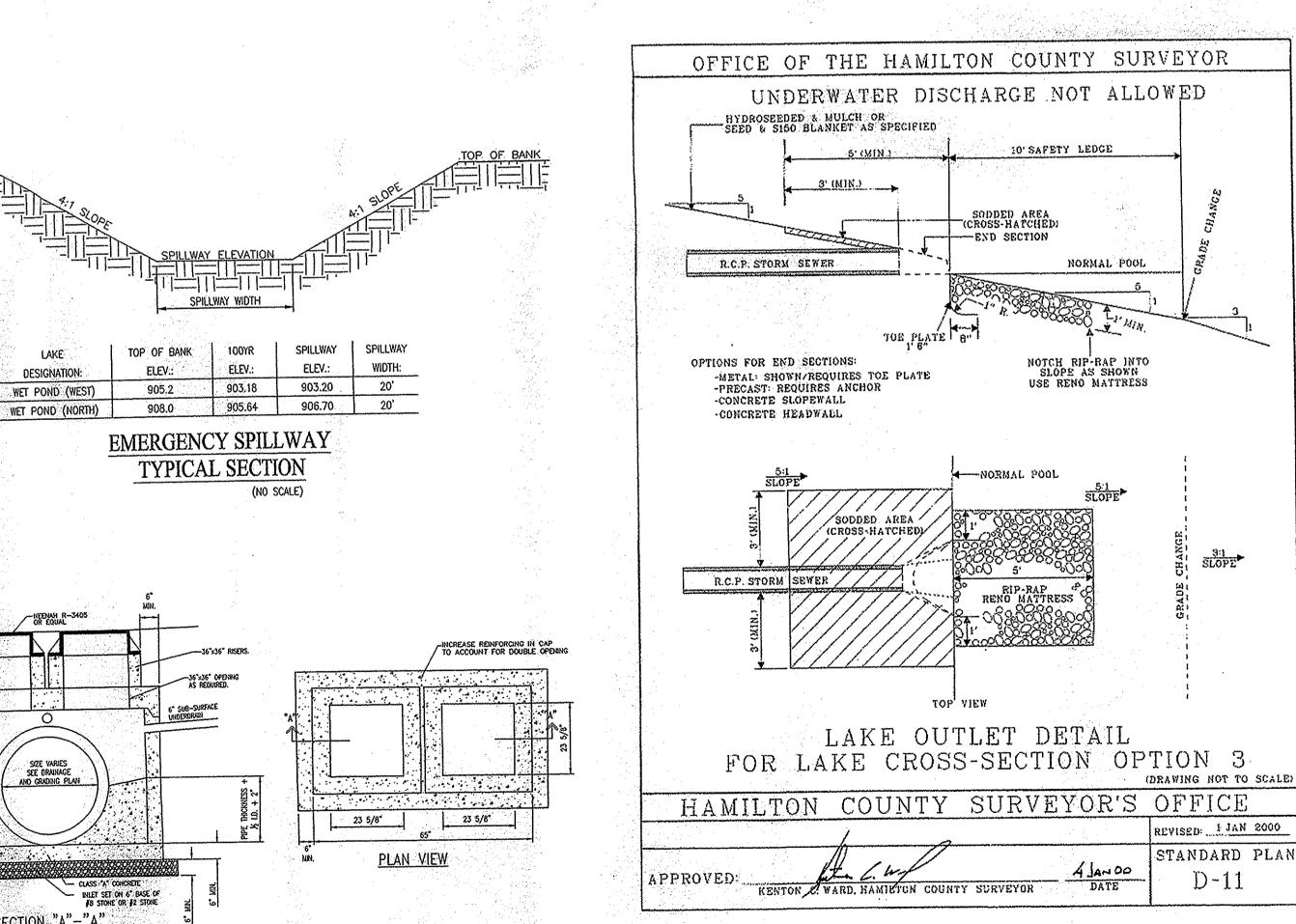


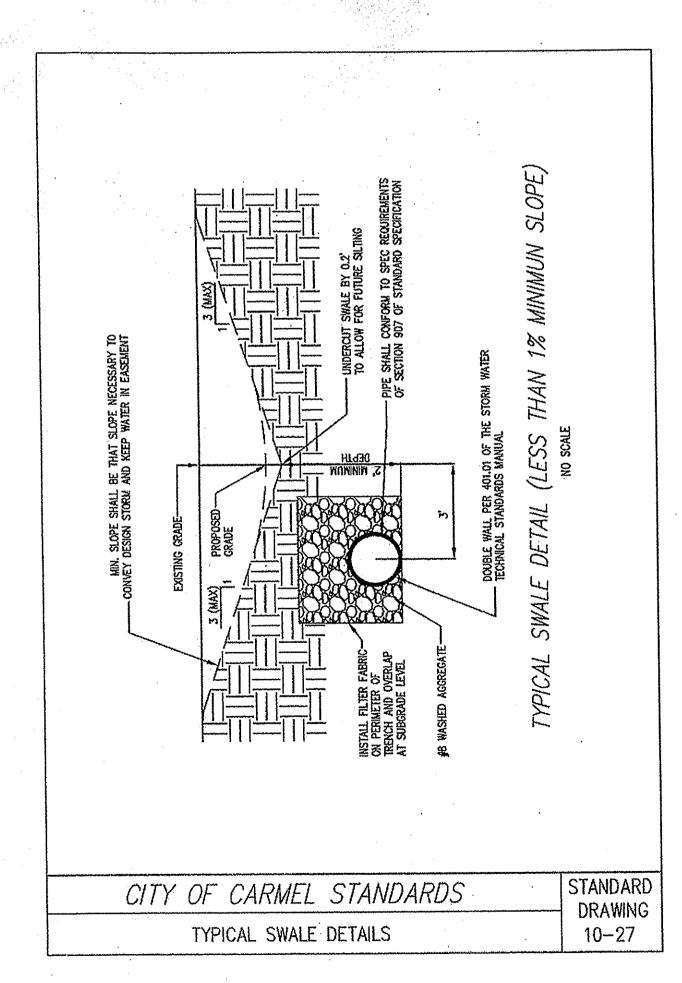
DOUBLE INLET STRUCTURE (NO SCÁLE)

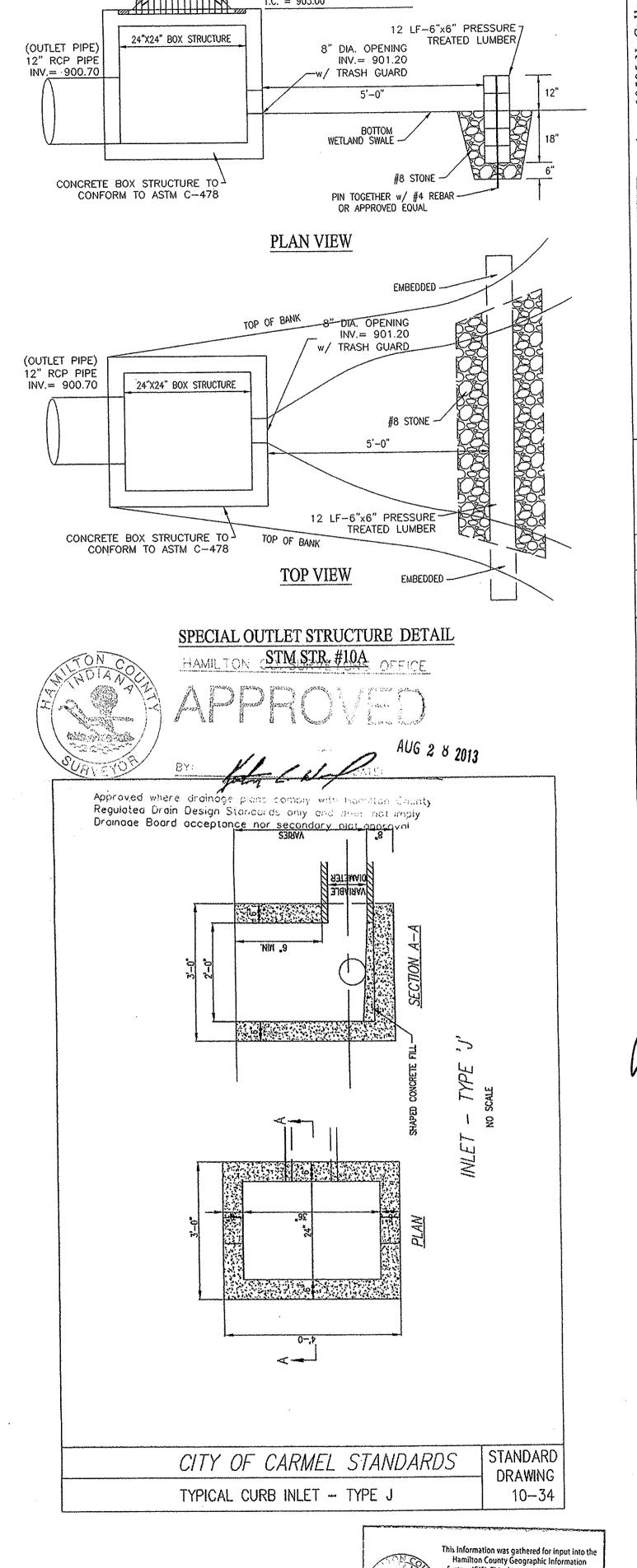
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Entry Date: Sept 2014

Entered By: GLM

CONSTRUCTION PLANS - DATED 7/29/2013

PROJECT NO. W12.0366

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