



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

March 20, 2020

To: Hamilton County Drainage Board

Re: Williams Creek Drainage Area, Spring Mill Run Drain, The Estates at Towne Meadow Arm

Attached is a petition by PLP UHS Properties LLC, along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for The Estates at Towne Meadow Arm, Williams Creek Drain located in Clay Township. I have reviewed the submittals 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	1,016 LF	30" RCP	735 LF
15" RCP	1,921 LF	36" RCP	178 LF
18" RCP	843 LF	6" SSD	4,425 LF
21" RCP	410 LF		
24" RCP	484 LF		

The total length of the drain will be 10,112 feet.

This project will reconstruct a portion of the Spring Mill Run Drain – University High School Arm (2002). The existing open ditch will flow through the new developments detentions ponds

constructed in Common Areas "2" and "3". The construction through the development will enclose 89 feet of existing open ditch with dual 36" RCP pipes between Structure 624 and 623. It will remove 23' of 12" plastic pipe at existing Structure B1 and extend the existing 24" RCP at existing Structure 27 by an additional 26 feet. These changes are outlined on the plans on Sheet C2.3 and detailed on Sheet C6.6.

The site is split by the Spring Mill Run Regulated Drain which runs through the property from the north to south. The Three (3) detention basins located in Common Area C.A. "B" will be considered part of the regulated drain. Basin maintenance assumed by the Drainage Board shall only include the inlets and outlet as part of the regulated drain. The maintenance of the detention basins such as sediment removal and erosion control along the banks, mowing, aquatic vegetation maintenance control, and anything required per the Storm Water Quality Maintenance and Operations Manual 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 subsurface drains (SSD) under curbs in the Estates at Towne Meadows are not to be part of the regulated drain due to the requirement of street trees by the City of Carmel. The subsurface drains (SSD) to be part of the regulated drain are those main lines in front/rear yards, and those in common areas. Only the main SSD lines as described below, which are located within these areas are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The portions of the SSD which will be regulated and maintained are as follows:

Front/Rear Yard SSD:

Side Yard Lot 1 from Str. 604 North to SSD Riser Rear Yard Lots 1-3 from Str. 604 West to Str. 604A Rear Lot 3 from Str. 604A West to SSD Riser Common Area "F" from Str. 608 West to SSD Riser Rear Yard Lot 4 from Str. 605 East to SSD Riser Rear Yard Lots 5-6 from Str. 605 West to SSD Riser Rear Yard Lots 41-44 from Str. 617 to Str. 609 Rear Yard Lots 39-40 from Str. 618 to Str. 617 Rear Yard Lots 7-11 from SSD Risers to Str. 651 Rear Yard Lots 37-38 from Str. 601 to Str. 618 Rear Yard Lots 35-36 from Str. 630 East to SSD Riser Rear Yard Lots 33-34 from Str. 630 West to Str. 649 Rear Yard Lots 31-32 from Str. 649 SW to Str. 648 Rear Yard Lots 27-30 from Str. 640 North to Str. 648 Rear Yard Lot 17 from Str. 634 West to SSD Riser Rear Yard Lots 18-20 from Str. 634 East to Str. 635 Rear Yard Lot 21 from Str. 635 East to SSD Riser Rear Yard Lots 25-26 from Str. 644 West to SSD Riser Rear Yard Lots 22-24 from Str. 644 East to Str. 645

The plans for The Estates at Towne Meadow show 11 BMP storm structures with sumps and snouts. The sumps will be maintained as part of the regulated drain facilities and cleaned annually or as needed after the drainage facilities are accepted as part of the County's regulated drain system. Those structures are as follows: Str. 603, Str. 606, Str. 611, 616, Str. 621, Str. 629, Str. 633, Str. 636, Str. 639 and Str. 643.

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. The area is assessed for the Williams Creek Drainage shed at this time. The current rates are as follows: \$65.00 per lot, \$10.00 per acre for common areas, with \$65.00 minimum, and \$10.00 per acre for roadways. With this assessment the total annual assessment for this drain will be \$3,499.70.

In accordance with IC 36-7-4-709, the petitioner did not submit surety for the proposed drain prior to construction commencing. If the petitioner/developer wants to submit final secondary plat for recording prior to the final inspection and approved as-built drawings, a bond will be required at that time.

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

Attached is an easement (Recorder's Office Instrument #2020005589) granted by University High School of Indiana, Inc. conveying to the Board of Commissioners of Hamilton County a non-exclusive perpetual easement through, upon, over, along and across parcel 17-13-05-00-00-003.000. The easement is granted for providing overland or subsurface paths and courses for the construction, maintenance and preservation of storm drainage facilities which are part of this proposed regulated drain.

I recommend 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 The Estates at Towne Meadow as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for April 27, 2020.

Kenton C. Ward, CFM

Hamilton County Surveyor

KCW/pll

HAMILTON COUNTY DRAINAGE BOARD NOBLESVILLE, INDIANA

IN	RE:	The Estates at Towne Meadow	
		Hamilton County, Indiana)

PETITION FOR RELOCATION AND RECONSTRUCTION

	<u> </u>	TOXICE		
		PLP UHS Properties	s, LLC	(hereinafter Petitioner"),
hereby	petitions the Hami	lton County Draina	ge Board for authority t	o relocate and improve a
section	of the	Spring Mill I	Run	Drain, and in support of
	tition advises the E			
1.	Petitioner owns re	al estate through wh	nich a portion of the	Spring Mill Run
	Drain runs.			
2.	Petitioner plans to	develop its real est	ate with roads, building	s, utilities, storm drains,
	sanitary sewers an	d other structures.		
3.	Petitioner's propo	sed development of	its real estate will requi	ire relocation and
	reconstruction of	a portion of the	Spring Mill Run	Drain, as
	specifically shows	on engineering pla	ns and specifications fi	led with the Hamilton
	County Surveyor.			
4.	The work necessa	ry for the proposed	relocation and reconstru	uction will be undertaken at
				substantial improvement to
				st to other property owners
			Spring Mill Run	
V			an Order issued from t	
			construction of the	
				ons on file with the Hamilton
	Surveyor.	,		
		(Signed Signed	Walter
		1	Timothy J. Walter	
			Printed	

Adobe PDF Fillable Form

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

WILLIAMS CREEK DRAIN, SPRINGMILL RUN DRAIN, THE ESTATES AT TOWNE MEADOW ARM

On this 27^{th} day of APRIL, 2020, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the WILLIAMS CREEK DRAIN.

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

///

Member

Member

Estates at Towne Meadow Engineers Estimate - Storm Sewers & Monumentation Prepared on: 6/10/2019



Item		Unit	U	nit Cost	Quantities		Cost
Storm Drainage							
12" Pipe		LF	\$	26.03	1186	\$	30,870
12" End Section		EA	\$	1,147.08	3	\$	3,441
12" Trash Guard		EA	\$	444.90	3	\$	1,335
15" Pipe		LF	\$	31.52	1788	\$	56,354
15" End Section		EA	\$	1,308.33	2	\$	2,617
15" Trash Guard		EA	\$	499.35	2	\$	999
18" Pipe		LF	\$	36.97	674	\$	24,915
18" End Section		EA	\$	1,622.40	2	\$	3,245
18" Trash Guard		EA	\$	544.15	2	\$	1,088
21" Pipe		LF	\$	42.70	840	\$	35,865
21" End Section		EA	\$	1,569.10	3	\$	4,707
21" Trash Guard		EA	\$	569.35	3	\$	1,708
24" Pipe		LF	\$	49.09	531	\$	26,065
24" End Section		EA	\$	1,701.65	1	\$	1,702
24" Trash Guard		EA	\$	611.35	1	\$	611
30" Pipe		LF	\$	63.16	574	\$	36,254
30" End Section		EA	\$	2,110.94	1	\$	2,111
30" Trash Guard		EA	\$	886.70	1	\$	887
36" Pipe		LF	\$	85.51	178	\$	15,221
36" End Section		EA			4	\$	8,843
36" Trash Guard		EA			4	\$	4,508
Standard Storm Manholes		EA	\$	3,018.87	19	\$	57,359
Large Storm Manholes		EA	\$	3,840.26	2	\$	7,681
Storm Inlets		EA	\$	3,261.73	25	\$	81,543
Sand Backfill and Bedding		TON	\$	20.50	436	\$	8,936
	Subtotal 1					\$	418,865
Sub-surface Drains - under curb		LF	\$	9.25	7,306	\$	67,581
Sub-surface Drains - swales		LF	\$	15.29	4,443		67,933
Sub-surface Drains - sump laterals	i	EA			44	\$	4,473
	Subtotal 2					\$	139,987
	Total					\$	558,851
Monuments & Markers							
Lot Corner Monuments		LOT	\$	100.00	44	\$	4,400
Street Centerline Monumentation		EA	\$	170.00	10	\$	1,700
Street Genterline Worldmentation	Total		•		100,000	\$	6,100
Erosion Control		LS		NA	NA	NA	
> Not Applicable - Property annexe	ed by City of C		aoveri				
by Carmel MS4 permit.			35				
by Saimer Mo4 permits	Total					\$	-
				1	1		

1: _ land

Timothy J. Walter, P.E. Indiana Registration No. 19900152

FILED

JUN 2 5 2019

OFFICE OF HAMILTON COUNTY SURVEYOR

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD IN THE MATTER OF

Williams Creek Drain, Spring Mill Run Drain, The Estates at Towne Meadow Arm

NOTICE

То	Whom	Ιt	May	Concern	and:	

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the Williams Creek Drain, Spring Mill Run Drain, The Estates at Towne Meadow Arm on April 27, 2020 at 9:00 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

Williams Creek Drain, Springmill Run Drain, The Estates at Towne Meadow Arm

NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on April 27, 2020 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: Pamela Louks

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 31, 2022

Re: Williams Creek D.A.-Springmill Run Drain: Estates at Towne Meadows Arm

Attached are as-built, certificate of completion & compliance, and other information for Estates at Towne Meadow. 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 March 20, 2020. The report was approved by the Board at the hearing held April 27, 2020. (See Drainage Board Minutes Book 19, Pages 190-192) The changes are as follows: the 12" RCP was lengthened from 1,016 feet to 1,075 feet. The 15" RCP was lengthened from 1,912 to 1,940 feet. The 18" RCP was lengthened from 843 feet to 850 feet. The 21" RCP was lengthened from 410 feet to 516 feet. The 24" RCP was lengthened from 484 feet to 537 feet. The 30" RCP was lengthened from 735 feet to 746 feet. The 36" RCP was lengthened from 178 feet to 207 feet. The 6" SSD was lengthened from 4,425 feet to 4,254 feet. The project added 68 feet of open ditch in the detention area where the existing drain was removed. The length of the drain due to the changes described above is now 10,193 feet. It should be noted that this project removed 194 feet of the 2002 University High School 2002 Arm.

The non-enforcement was approved by the Board at its meeting on April 27, 2020 and recorded under instrument #2022015016. In accordance with IC 36-7-4-709 the petitioner did not submit a surety.

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

Sincerely

Kenton C. Ward, CFM Hamilton County Surveyor



ENGINEER'S CERTIFICATION

I, the undersigned engineer	Duane A. Sharrer	, for the sanitary sewers for
the development project known	as Estates at Towne Meado	ow , (The Project) located at
Towne Road south of 116th S	Street, Carmel, Indiana	in <u>Hamilton</u> County,
Indiana, do hereby certify that	to the best of my knowledge, Th	e Project has been built in accordance
with the plans approved by the	TriCo Regional Sewer District (The District) and has passed all tests
required under State law and/o	r the rules and ordinances of The	e District.
Dated: <u>1/23/2020</u>		A. SHARING
Engineering Firm: Weihe En		No. 890258 ★ STATE OF #
	geskarrer_	MINING SONAL ENTRE
Printed Name: Duane A. Sl	harrer	Manual Interior
Title: Vice President, Reside	ential Development	



DULY ENTERED FOR TAXATION SWILL Subject to final acceptance for transfer 1 3 day of Franks.,20 22

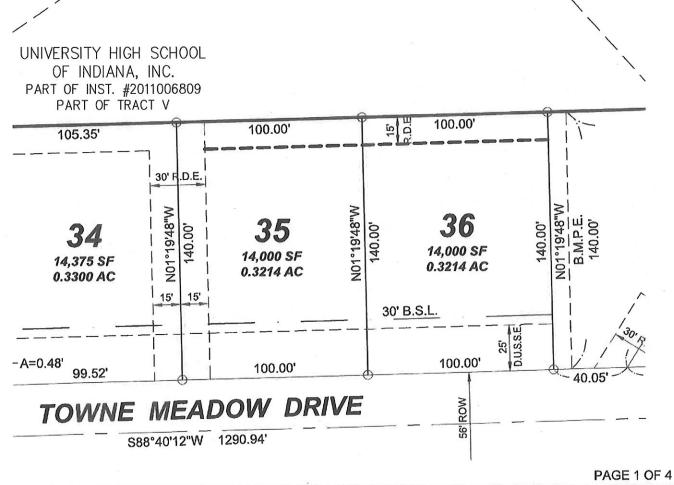
Parcel # Mice Auditor of Hamilton County

2022008981 CERT CORR \$25.00 02/17/2022 02:53:07P 4 PGS Jennifer Hayden HAMILTON County Recorder IN Recorded as Presented

CERTIFICATE OF CORRECTION / AMENDMENT

I, herby certify that I prepared the secondary plat known as "THE ESTATES AT TOWNE MEADOWS," a subdivision in Hamilton County, Indiana, the plat of which is recorded as Instrument number 2020005588 on January 31, 2020 in the Office of the Recorder of Hamilton County, Indiana.

This instrument is filed for the purpose of amending said Plat to include the following R.D.E. easements;



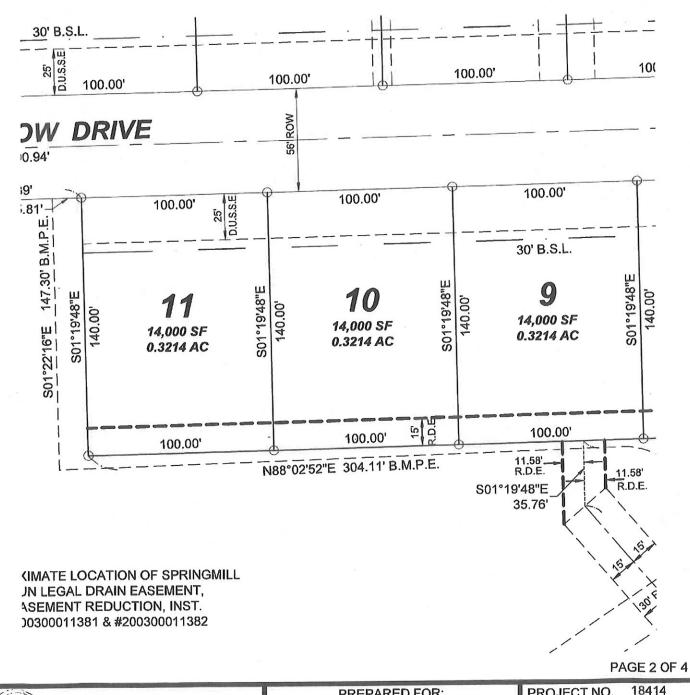


Engineers Scientists Surveyors 9420 Calumet Avenue St. John, IN 46373 219-314-1467 voice v3co.com PREPARED FOR:
PLP UHSPropeties, LLC
9757 Westpoint Drive, Suite 600

757 Westpoint Drive, Suite 600 Indianapolis, IN 46256 317-818-2900 PROJECT NO. 18414 GROUP NO. VP04.2 SCALE: 1"=50'

DATE: 02/07/2022

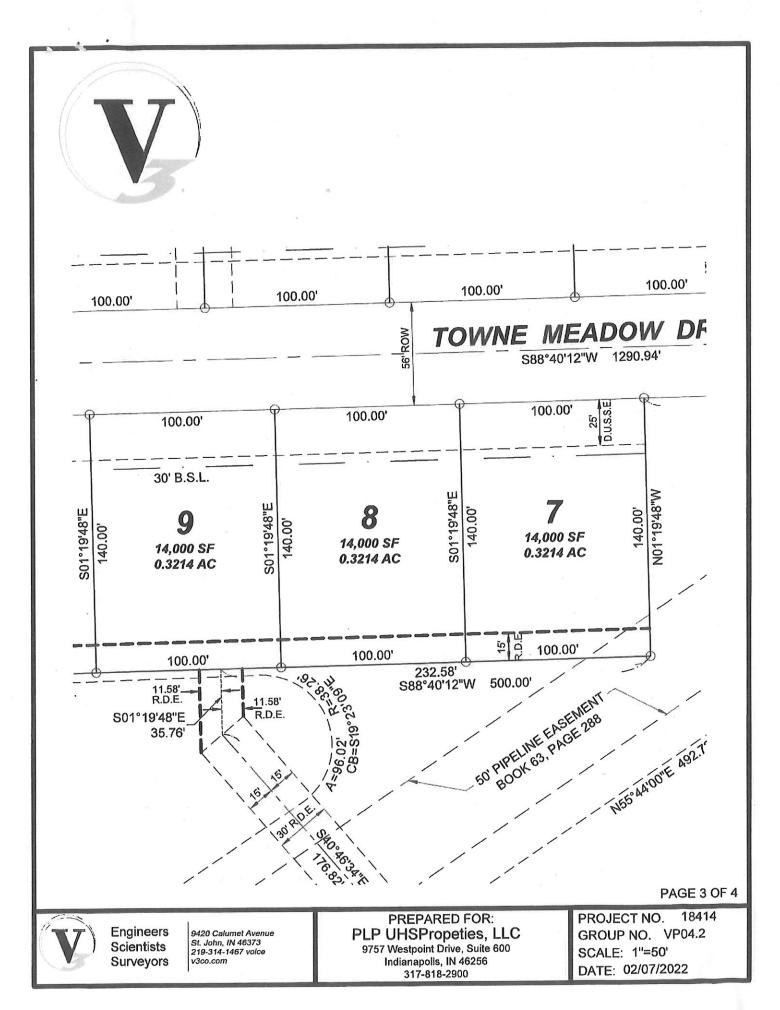






Engineers Scientists Surveyors 9420 Calumet Avenue St. John, IN 46373 219-314-1467 voice v3co.com PREPARED FOR:
PLP UHSPropeties, LLC
9757 Westpoint Drive, Suite 600
Indianapolis, IN 46256
317-818-2900

PROJECT NO. 1841 GROUP NO. VP04.2 SCALE: 1"=50' DATE: 02/07/2022





CERTIFICATE OF CORRECTION / AMENDMENT

Certified this 7th day of FEBRUARY, 2022

Anthony J. Strickland

Registered Indiana Land Surveyor

LS20800143

State Of Indiana Required Statements For Recordation: I affirm, under the penalties for perjury, that I have taken reasonable care to redact each Social Security Number in this document, unless required by law, Anthony J. Strickland.

LS-20800143

AND SURVE

This document was prepared by Anthony J. Strickland.

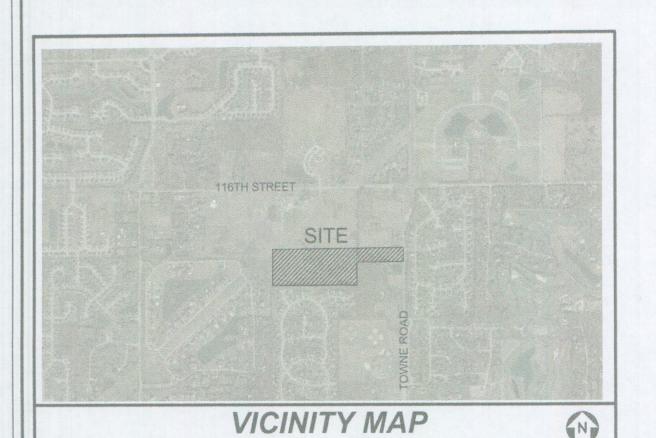
PAGE 4 OF 4



Engineers Scientists Surveyors 9420 Calumet Avenue St. John, IN 46373 219-314-1467 voice v3co.com PREPARED FOR:
PLP UHSPropeties, LLC
9757 Westpoint Drive, Suite 600
Indianapolis, IN 46256
317-818-2900

PROJECT NO. 18414 GROUP NO. VP04.2 SCALE: N/A

DATE: 02/07/2022



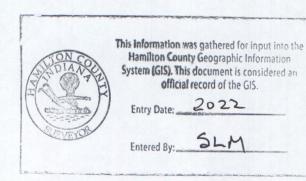
FINAL ENGINEERING PLANS FOR

ESTATESAT

RECORD DRAWING

TOWNE MEADOW

CARMEL, INDIANA



Contact: Tim Walter twalter@platinum-properties.com

ENGINEER

PROJECT TEAM

OWNER/DEVELOPER

PLP UHS PROPERTIES L.L.C

9757 Westpoint Drive Indianapolis, Indiana 46256 317.818.2900

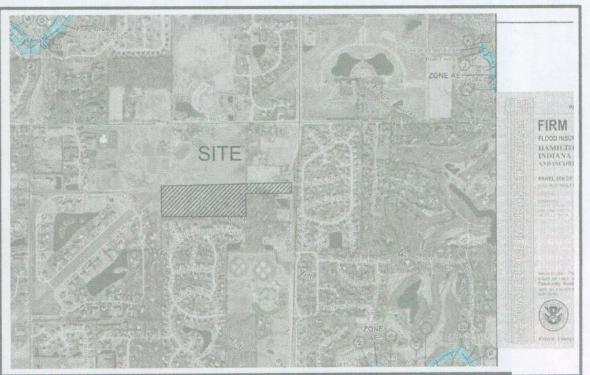
Email:

V3 Companies, Ltd. 619 North Pennsylvania Street Indianapolis, IN 46204 317.423.0690 Project Manager: Jim Rinehart jrinehart@v3co.com

SURVEYOR

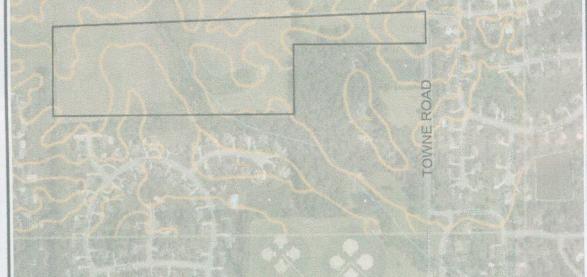
SEA GROUP 494 Gradle Drive Carmel, IN 46032 317.844.3333 317.844.3383

OPERATING AUTHORITY: CITY OF CARMEL

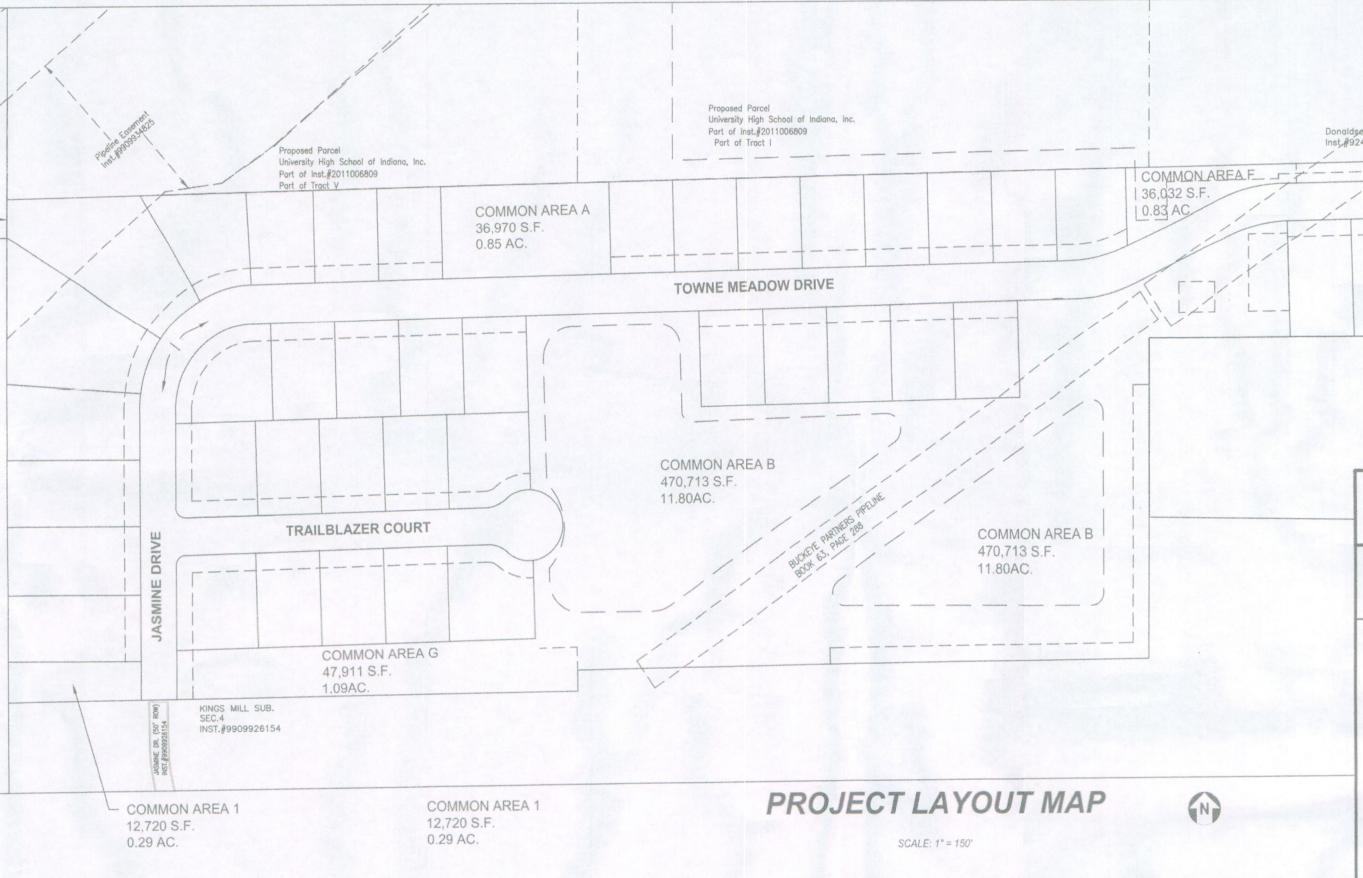


FLOOD RATE INSURANCE MAP (N)





N SOILS MAP





ALL IMPROVEMENTS HAVE BEEN INSTALLED IN REASONABLE COMPLIANCE WITH THE ORIGINAL DESIGN PLANS, WITH RESPECT TO HORIZONTAL LOCATIONS AND GRADES, AND ANY DEVIATIONS OF LOCATIONS, GRADE OR MATERIAL. WEIHE ENGINEERS JOB NUMBER W190059

Land Surveying | Civil Engineering Landscape Architecture LAND DESCRIPTION

WEIHE

ENGINEERS

10200495

STATE OF

LAND DESCRIPTION PER SURVEY

MORE OR LESS.

3 EAST OF THE SECOND PRINCIPAL MERIDIAN, IN HAMILTON COUNTY, INDIANA, MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHEAST EARNER OF SAID NORTHEAST QUARTER; THENCE SOUTH 00 DEGREES 04 MINUTES 12 SECONDS WEST (STATE PLANE BEARING) ALONG THE EAST LINE OF SAID NORTHEAST QUARTER A DISTANCE OF 1197.55 FEET TO THE POINT OF BEGINNING, SAID POINT BEING THE NORTHEAST CORNER OF TRACT II AS DESCRIBED IN INSTRUMENT NUMBER 2011006809 AND RECORDED IN THE OFFICE OF THE RECORDER OF SAID COUNTY; THENCE SOUTH 88 DEGREES 40 MINUTES 12 SECONDS WEST ALONG THE NORTH LINE THEREOF AND THE WESTERLY EXTENSION THEREOF A DISTANCE OF 2710.60 FEE TO THE WEST LINE OF SAID NORTHEAST QUARTER SECTION: THENCE SOUTH 00 DEGREES 10 MINUTES 50 SECONDS WEST ALONG THE WEST LINE THEREOF A DISTANCE OF 744.39 FEET TO THE NORTH LINE OF KINGS MILL SUBDIVISION, RECORDED AS INSTRUMENT NUMBER 9909926154; THENCE NORTH 89 DEGREES 2 MINUTES 19 SECONDS EAST ALONG THE NORTH LINE THEREOF A DISTANCE OF 892.90 FEET; THENCE NORTH 00 DEGREES 16 MINUTES 43 SECONDS WEST A DISTANCE OF 32.47 FEET TO THE SOUTHWEST CORNER OF TRACT I AS DESCRIBED IN SAID INSTRUMENT NUMBER 2011006809; THENCE NORTH 89 DEGREES 09 MINUTES 18 SECONDS EAST ALONG THE SOUTH LINE THEREOF A DISTANCE OF 897.59 FEET; THENCE NORTH 00 DEGREES 13 MINUTES 35 SECONDS EAST ALONG THE EAST LINE THEREOF A DISTANCE OF 471.09 FEET; THENCE NORTH 89 DEGREES 45 MINUTES 39 SECONDS EAST ALONG THE SOUTH LINE OF SAID TRACT II OF INSTRUMENT NUMBER 2011006809 A DISTANCE OF 919.84 FEET THE EAST LINE OF SAID NORTHEAST QUARTER SECTION; THENCE NORTH 00

DEGREES 04 MINUTES 12 SECONDS EAST ALONG THE EAST LINE THEREOF A

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

DISTANCE OF 276.36 FEET TO THE POINT OF BEGINNING, CONTAINING 35.97 ACRES,

PART OF THE NORTHEAST QUARTER OF SECTION 5, TOWNSHIP 17 NORTH, RANGE

Indianapolis, Indiana 46280 weihe.net 317 | 846 - 6611

800 | 452 - 6408 317 | 843 - 0546 fax ALLAN H. WEIHE, P.E., L.S. - FOUNDER

FLOOD NOTE:

THE SUBJECT DEVELOPABLE AREA LIES ENTIRELY IN FLOOD HAZARD ZONE "X". FLOOD ZONE DETERMINATION IS AS SCALED FROM THE FLOOD INSURANCE MAP (FIRM) FOR HAMILTON COUNTY, INDIANA, COMMUNITY NAME OF CARMEL, COMMUNITY NUMBER 180081, MAP NUMBER 18057C0205G, PANEL NUMBER 205 OF 300, RETRIEVED FROM FEMA.GOV ON DECEMBER 19, 2018.

RECORD DRAWING

1/20/2020

JOSEPH TRTAN, LS21500003

REFERENCE NFIP MAP #: 18057C0205G EFFECTIVE DATE: NOVEMBER 19, 2014

NOTES:

- 1. THE PRESENT ZONING CLASSIFICATION IS S-1.
- 2. THE TOTAL AREA OF THE PARCEL IS 35.97±
- 3. AS SHOWN, 61% OF THE SITE IS DEDICATED TO OPEN SPACE
- 4. THE DESIGN SPEED LIMIT IS 25 MPH
- 5. FRONT SETBACK IS 30 FEET
- 6. REAR YARD SETBACK IS 20 FEET
- 7. MIN. SIDE YARD IS 5 FEET
- 8. AGGREGATE SIDE YARD SETBACK IS 20 FEET
- 9. TOTAL DISTURBANCE IS 33 ACRES

INDEX

CIVIL ENGINEERING PLANS

COVER SHEET CO.0 ALTA SURVEY (PROVIDED BY SEA GROUP)

GENERAL NOTES, LEGEND, AND ABBREVIATIONS C1.2-1.4 DEMOLITION PLAN

COMMON AREA D -10,938 S.F.

0.25 AC.

OMMON AREA C 13,595 S.F. 0.31 AC.

TOWNE MEADOW DRIVE

C2.0-2.2 DEVELOPMENT PLAN C2.3-2.5 GRADING PLAN

C2.6-2.8 EMERGENCY FLOOD ROUTING

C3.0-3.2 EROSION CONTROL PLAN **EROSION CONTROL DETAILS**

STORMWATER POLLUTION PREVENTION PLAN

TOWNE MEADOW DRIVE PLAN & PROFILE

TOWNE MEADOW DRIVE PLAN & PROFILE JASMINE DRIVE PLAN & PROFILE

UNIVERSITY COURT PLAN & PROFILE ENTRANCE AND INTERSECTION DETAILS

SIGNAGE AND PAVEMENT MARKING PLAN

SANITARY SEWER PLAN & PROFILE STORM SEWER PLAN & PROFILE

WATER PLAN

WATER DETAILS

C8.0-8.7 CONSTRUCTION DETAILS

SPECIFICATIONS L1.0-1.5 LANDSCAPE PLAN

L2.0-2.1 LANDSCAPE DETAILS

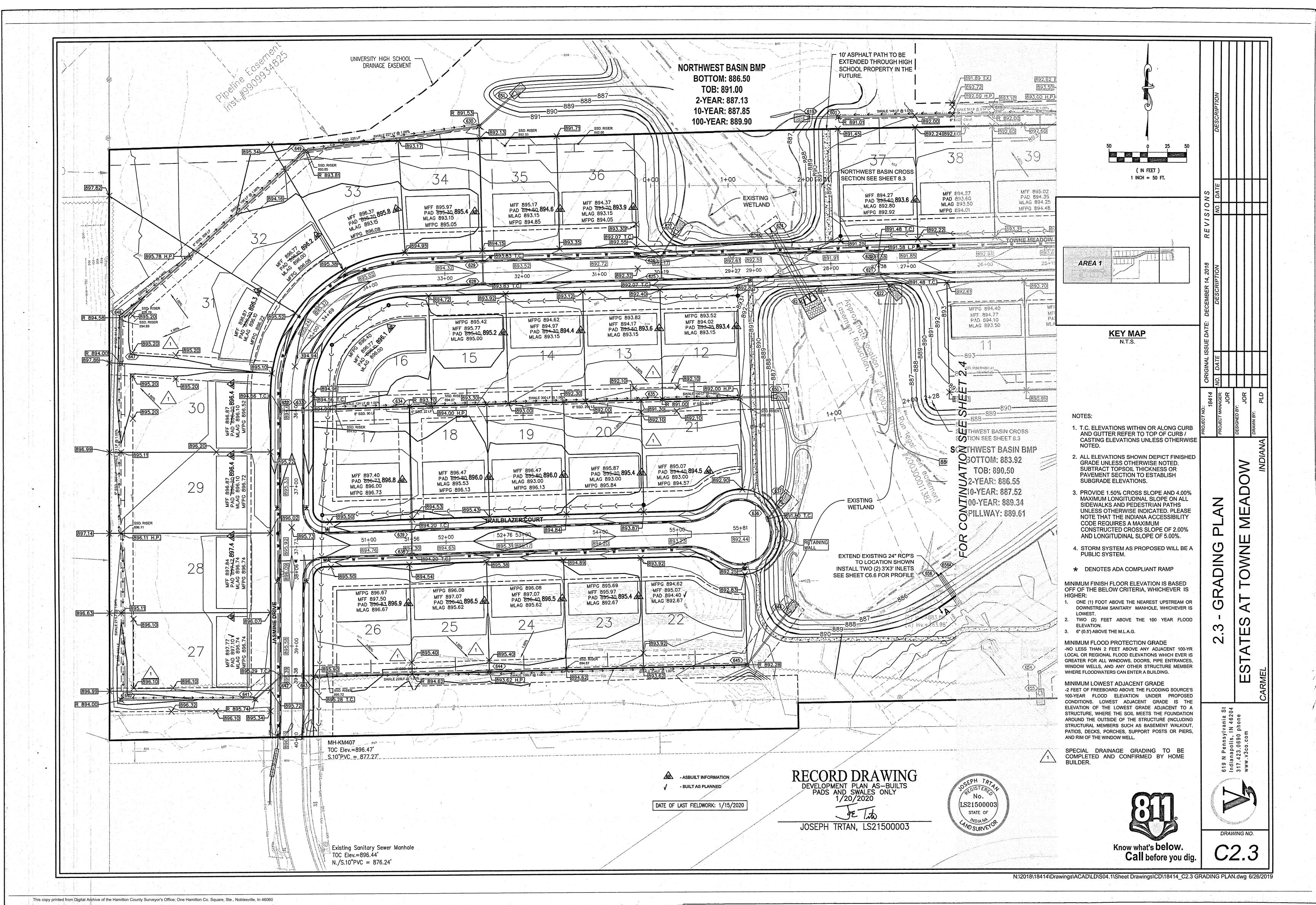
3 J 2 S J

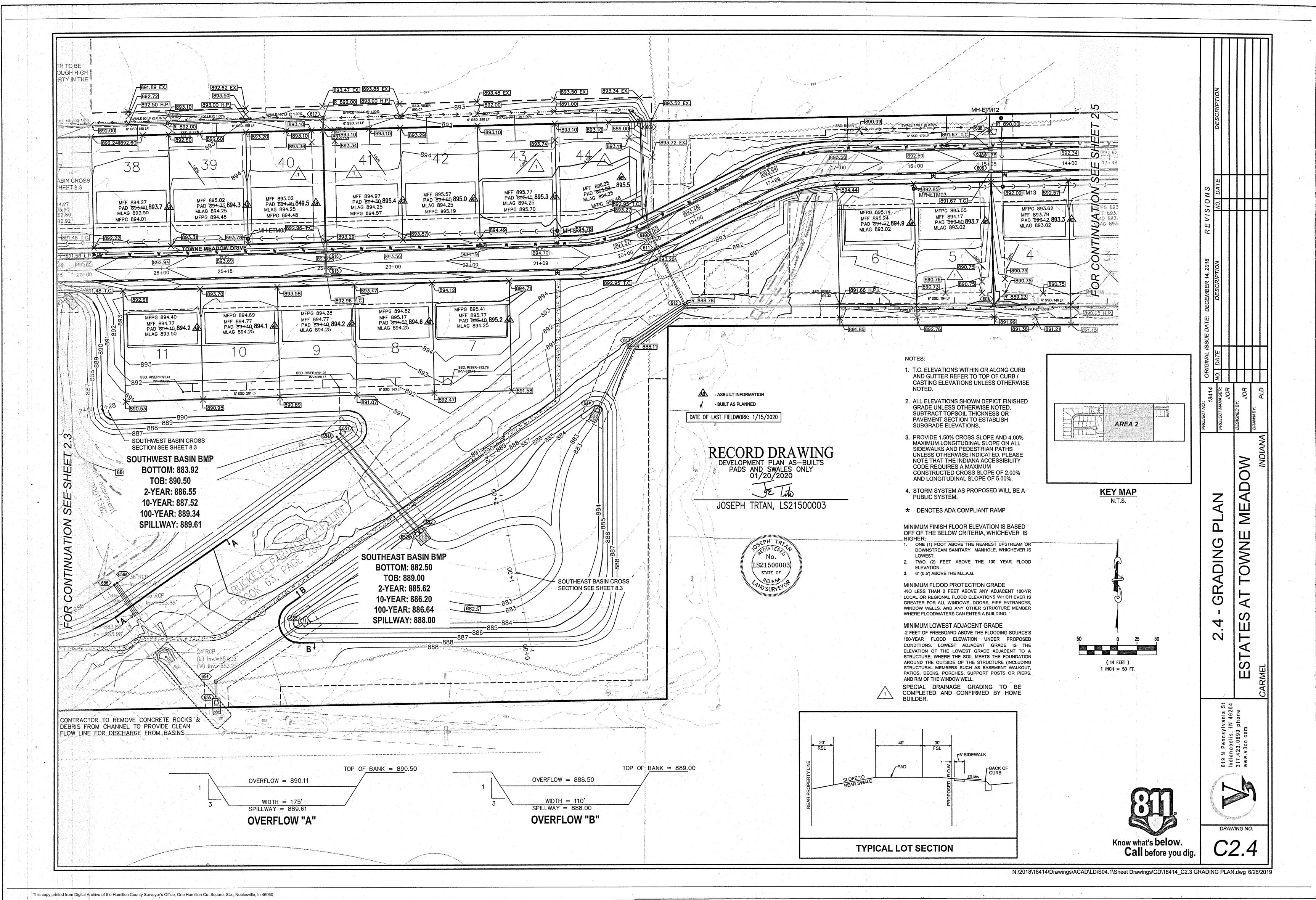
S

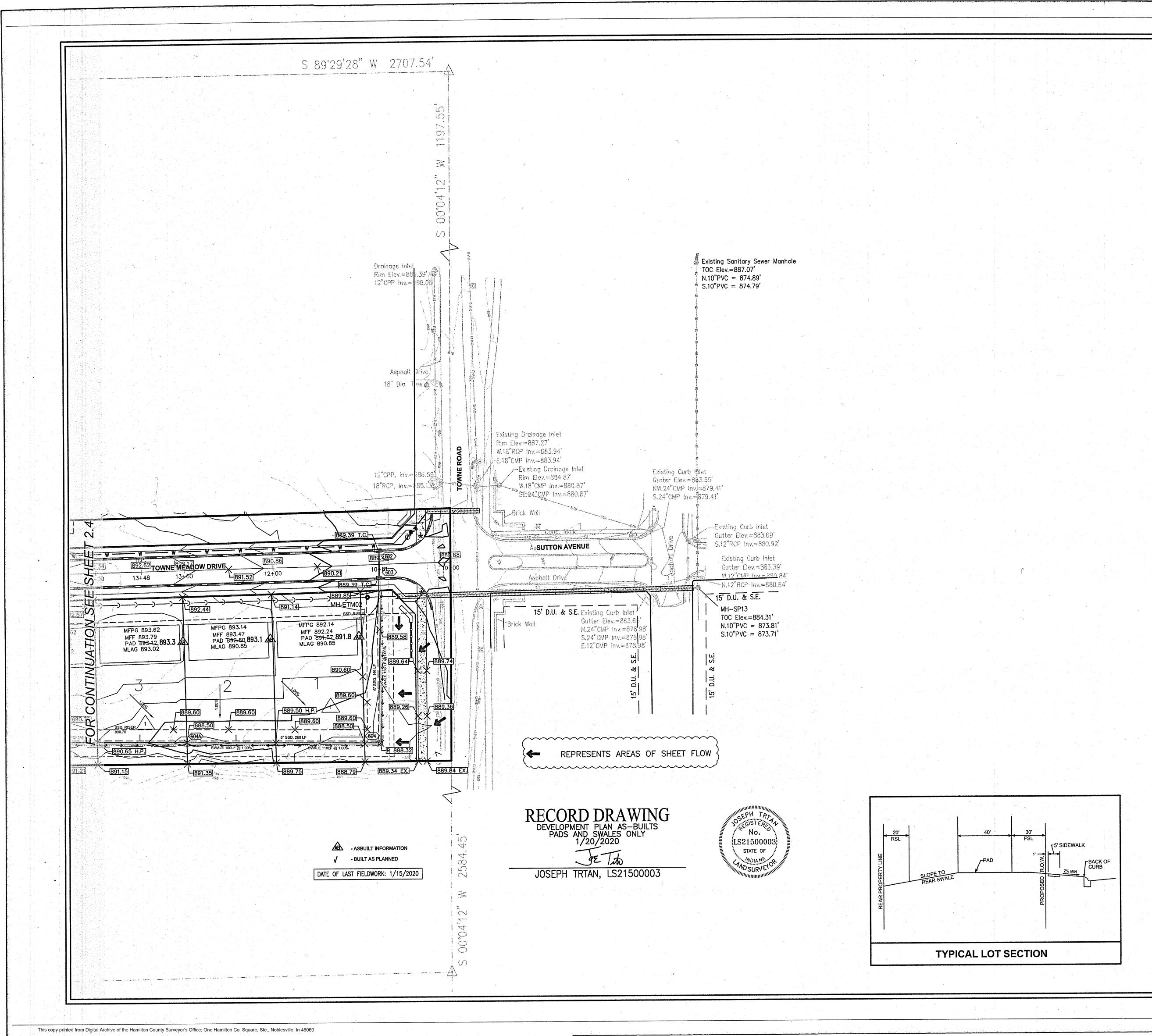
Ш

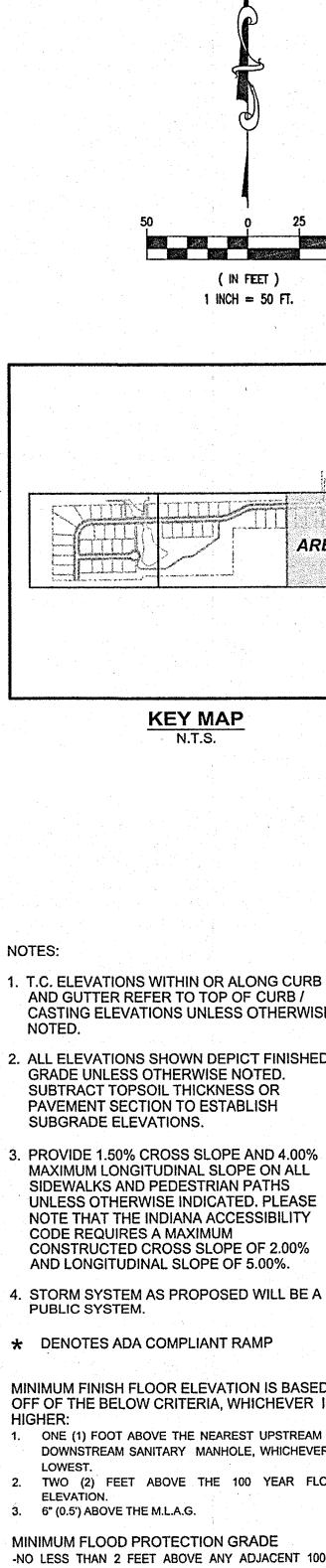


DRAWING NO.









(IN FEET) 1 INCH = 50 FT.KEY MAP N.T.S.

- 1. T.C. ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO TOP OF CURB / CASTING ELEVATIONS UNLESS OTHERWISE
- 2. ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. SUBTRACT TOPSOIL THICKNESS OR PAVEMENT SECTION TO ESTABLISH
- 3. PROVIDE 1.50% CROSS SLOPE AND 4.00% MAXIMUM LONGITUDINAL SLOPE ON ALL SIDEWALKS AND PEDESTRIAN PATHS UNLESS OTHERWISE INDICATED. PLEASE NOTE THAT THE INDIANA ACCESSIBILITY CODE REQUIRES A MAXIMUM CONSTRUCTED CROSS SLOPE OF 2.00% AND LONGITUDINAL SLOPE OF 5.00%.
- ★ DENOTES ADA COMPLIANT RAMP

MINIMUM FINISH FLOOR ELEVATION IS BASED OFF OF THE BELOW CRITERIA, WHICHEVER IS

- 1. ONE (1) FOOT ABOVE THE NEAREST UPSTREAM OR DOWNSTREAM SANITARY MANHOLE, WHICHEVER IS
- 2. TWO (2) FEET ABOVE THE 100 YEAR FLOOD
- 3. 6" (0.5') ABOVE THE M.L.A.G.

AND RIM OF THE WINDOW WELL.

MINIMUM FLOOD PROTECTION GRADE -NO LESS THAN 2 FEET ABOVE ANY ADJACENT 100-YR 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 -2 FEET OF FREEBOARD ABOVE THE FLOODING SOURCE'S 100-YEAR FLOOD ELEVATION UNDER PROPOSED CONDITIONS. LOWEST ADJACENT GRADE IS THE ELEVATION OF THE LOWEST GRADE ADJACENT TO A STRUCTURE, WHERE THE SOIL MEETS THE FOUNDATION AROUND THE OUTSIDE OF THE STRUCTURE (INCLUDING STRUCTURAL MEMBERS SUCH AS BASEMENT WALKOUT, PATIOS, DECKS, PORCHES, SUPPORT POSTS OR PIERS,



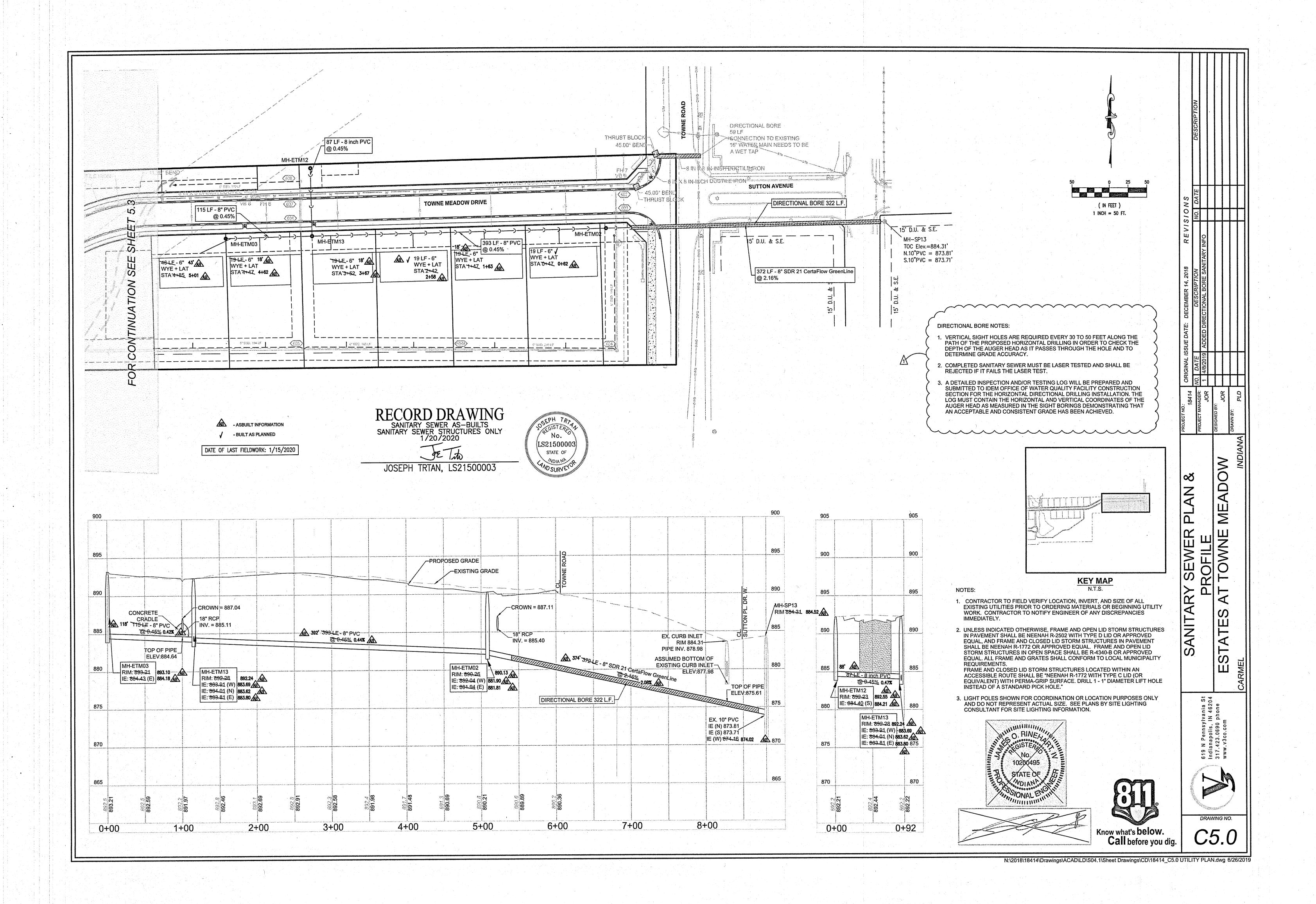
Know what's below. Call before you dig.

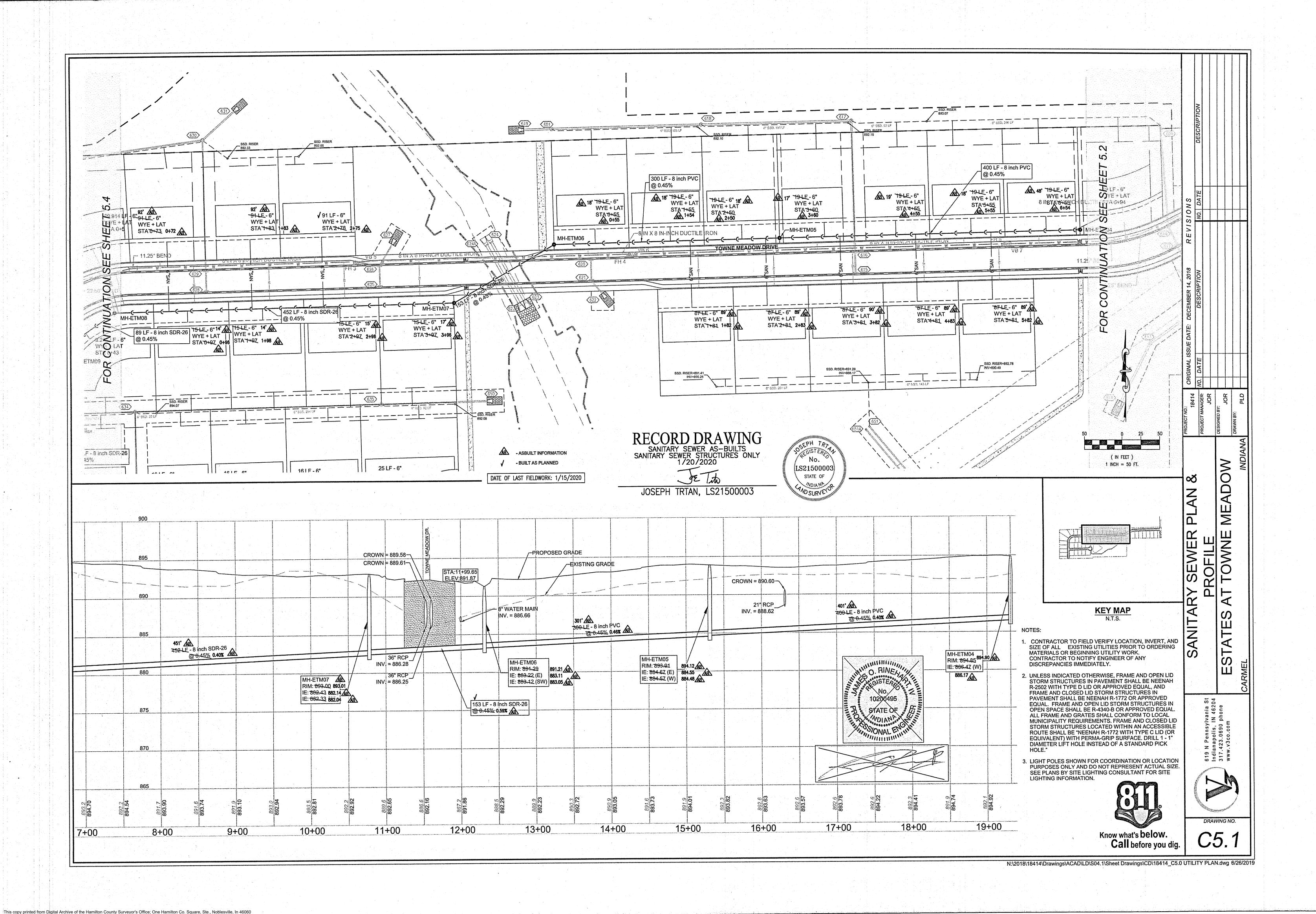


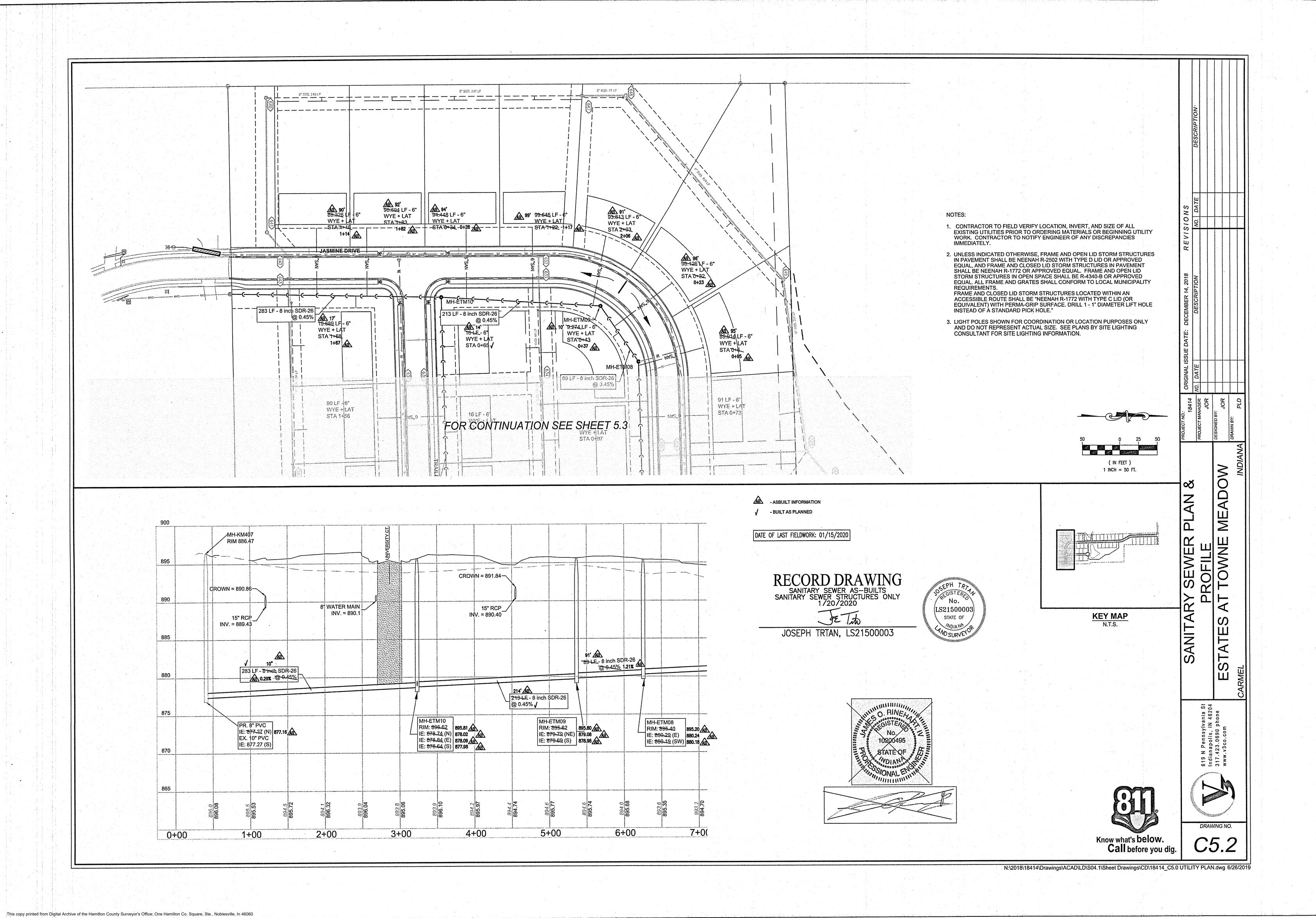
C2.5

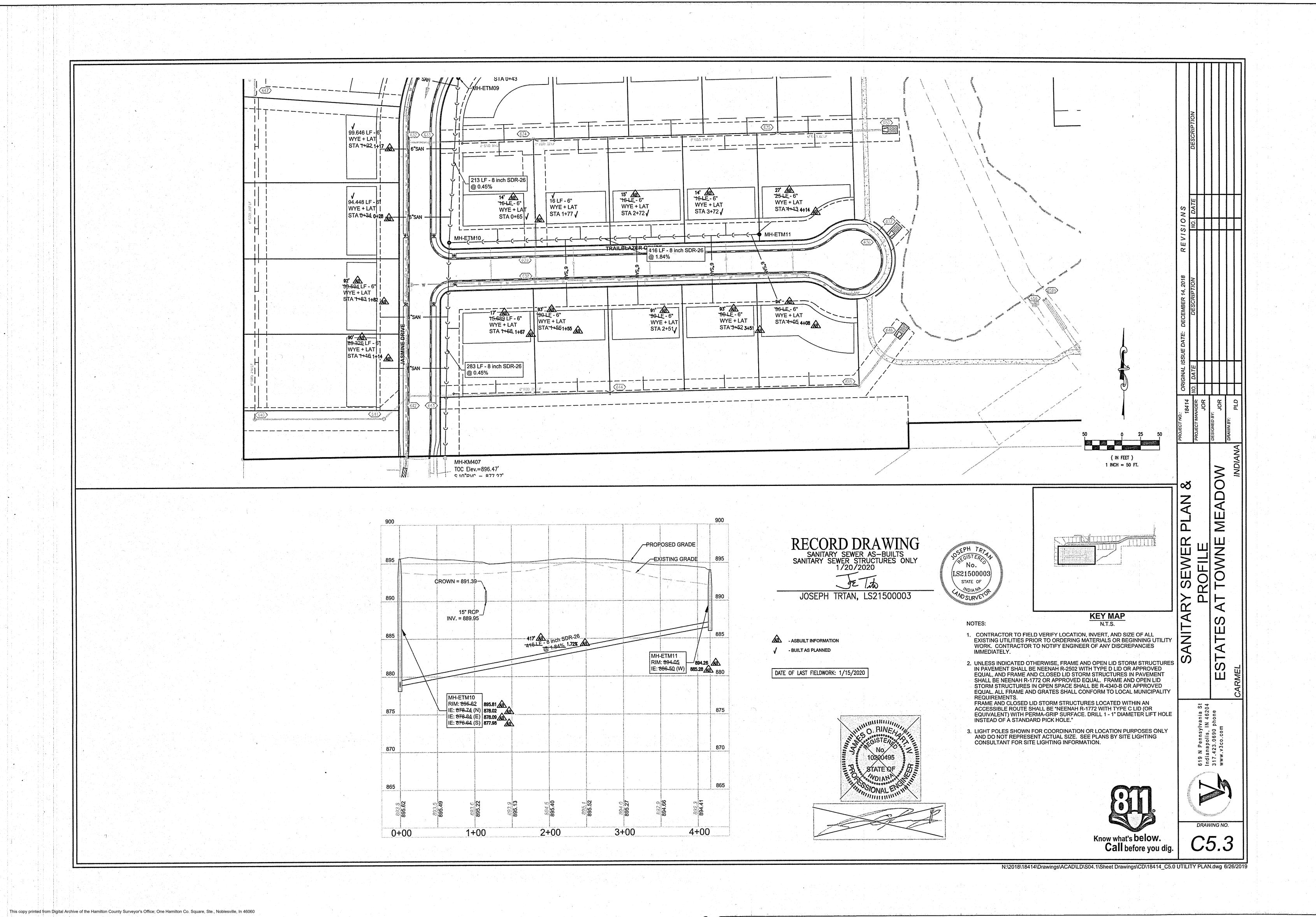
2

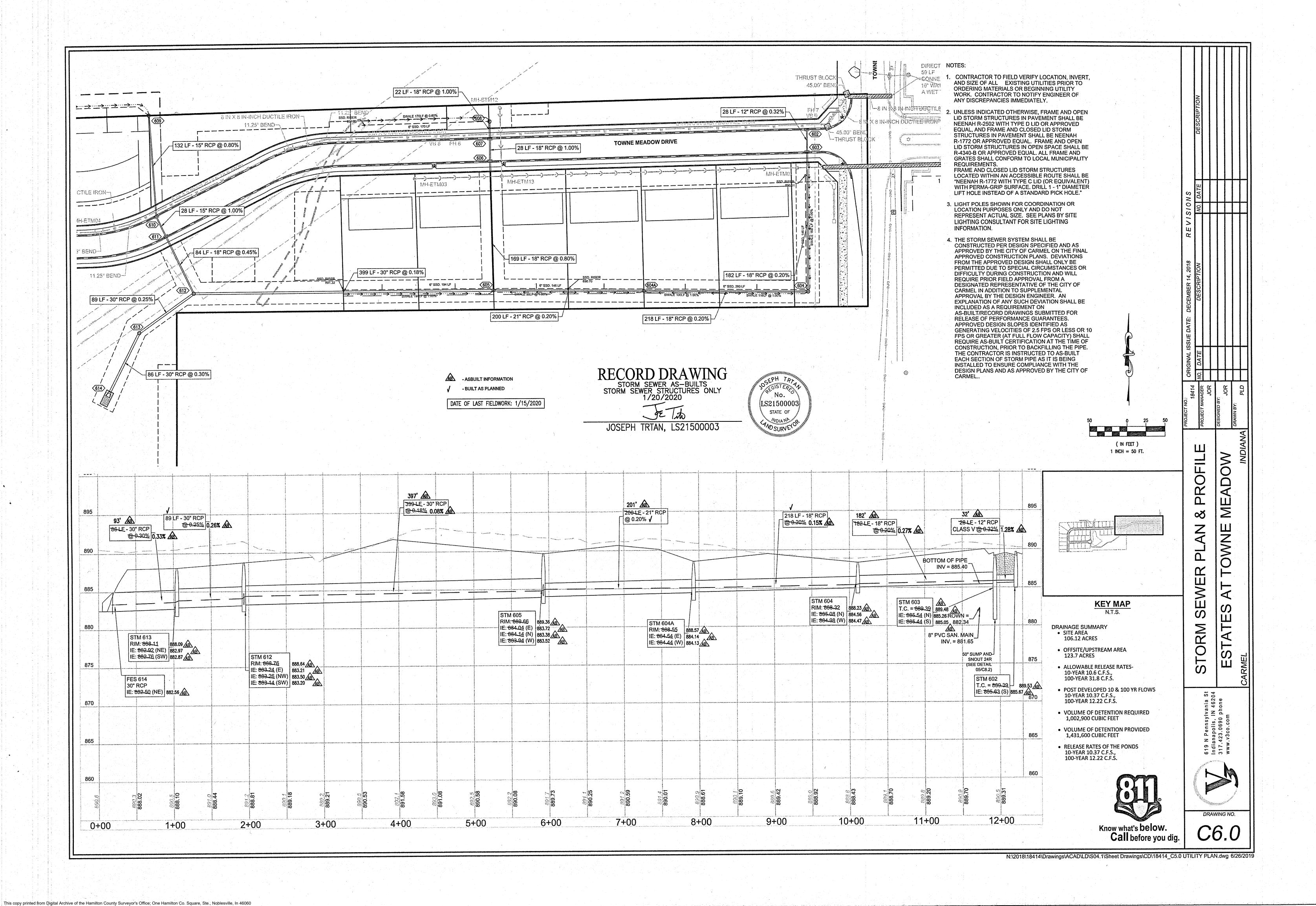
N:\2018\18414\Drawings\ACAD\LD\S04.1\Sheet Drawings\CD\18414_C2.3 GRADING PLAN.dwg 6/26/2019

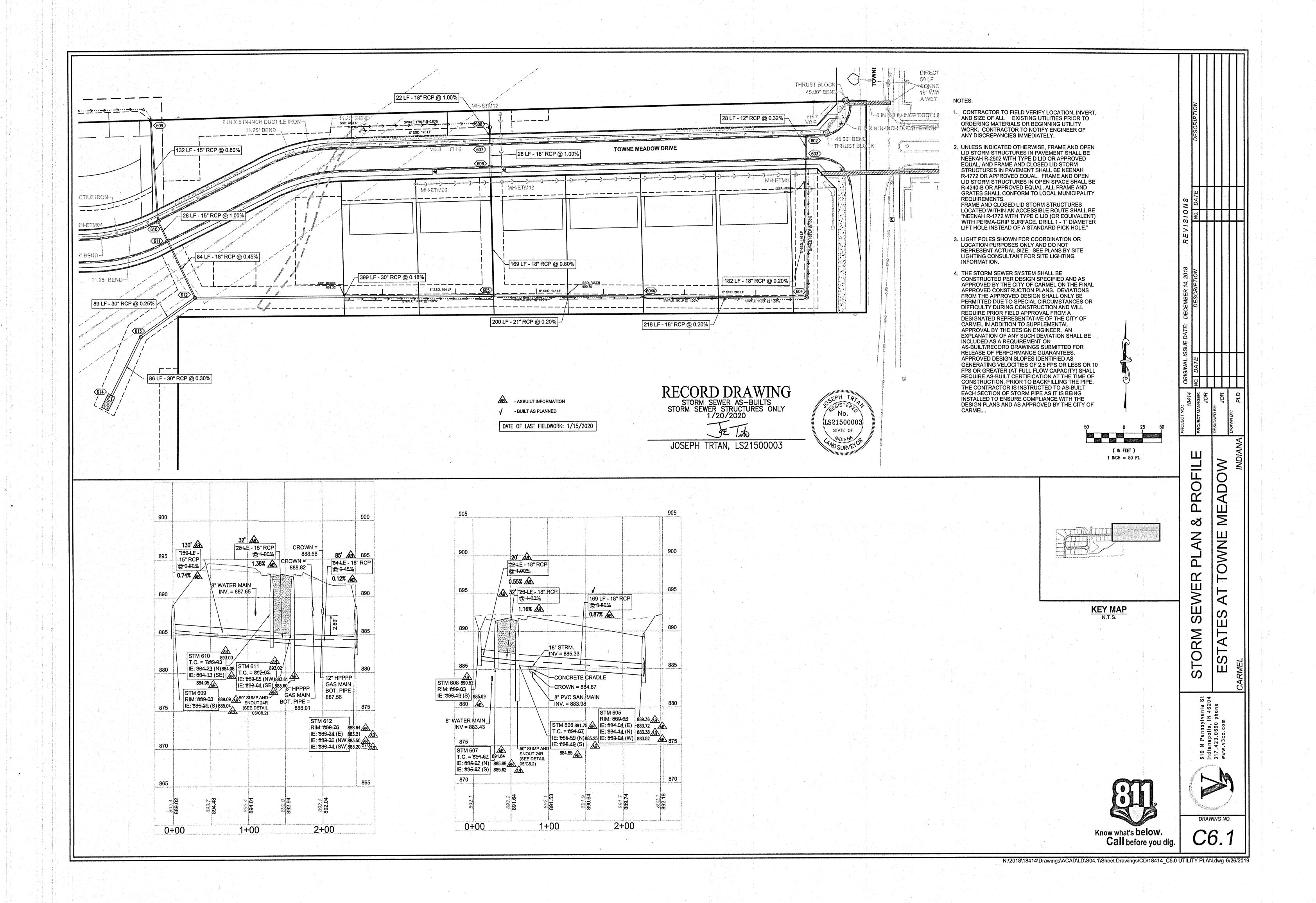


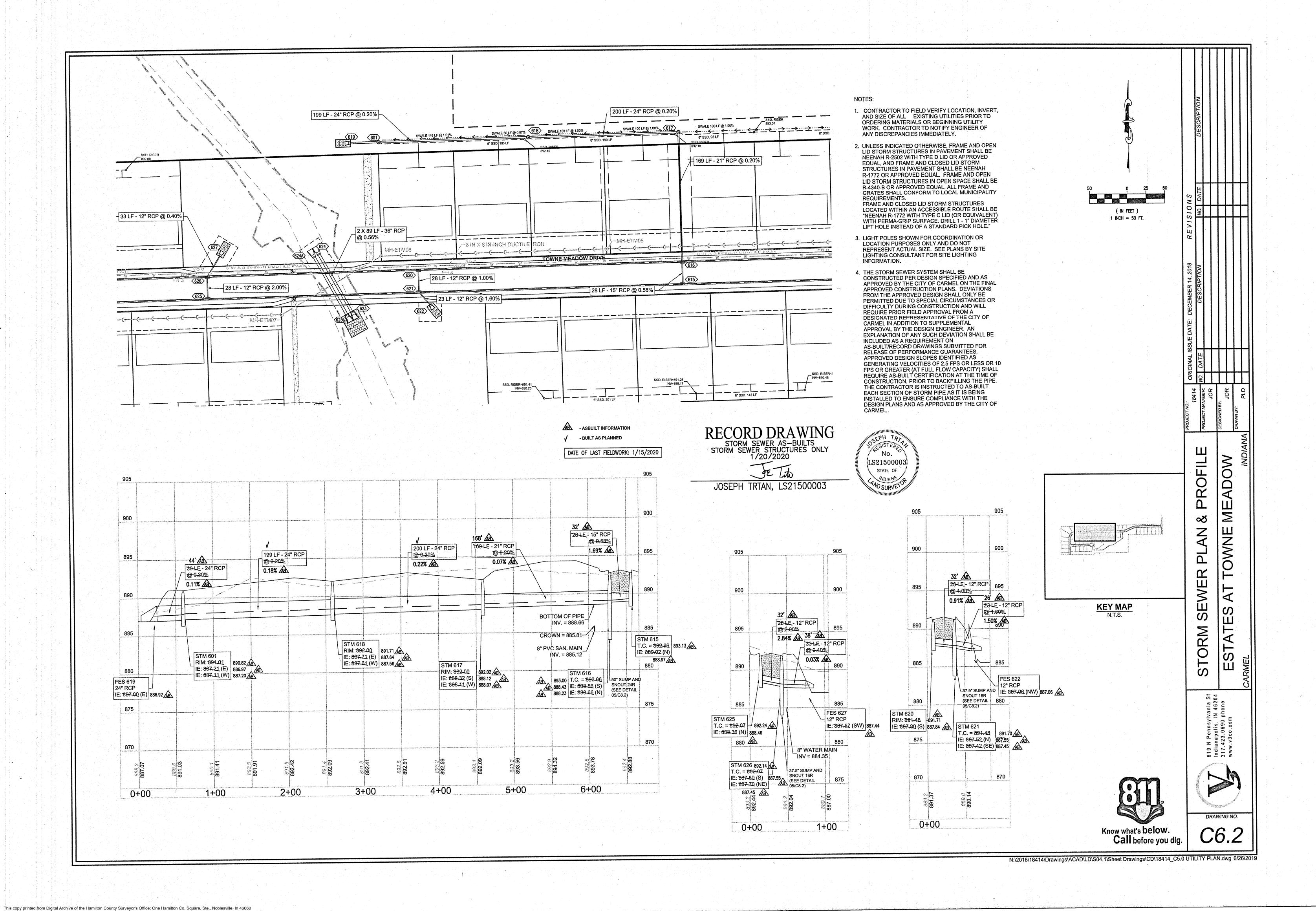


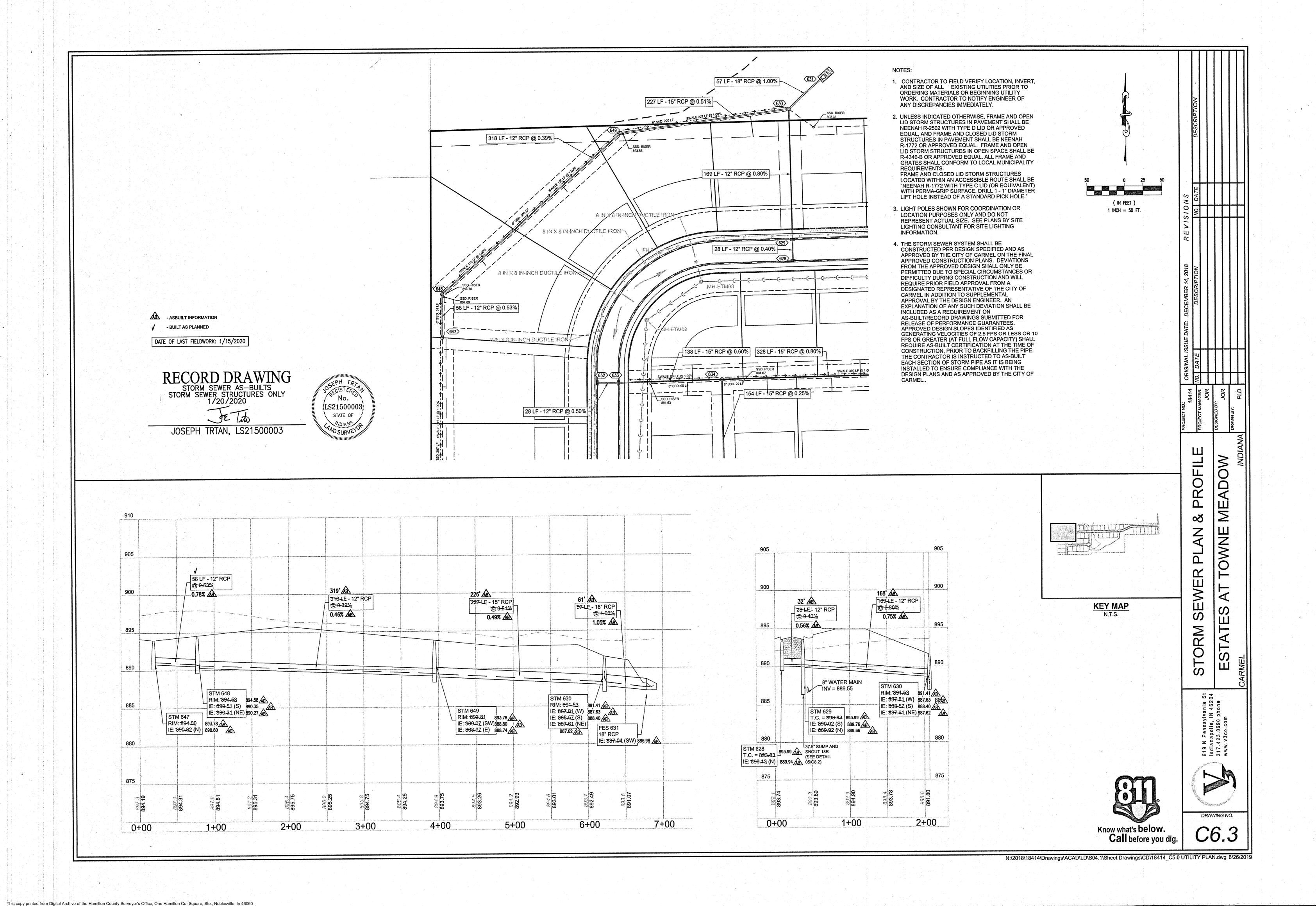


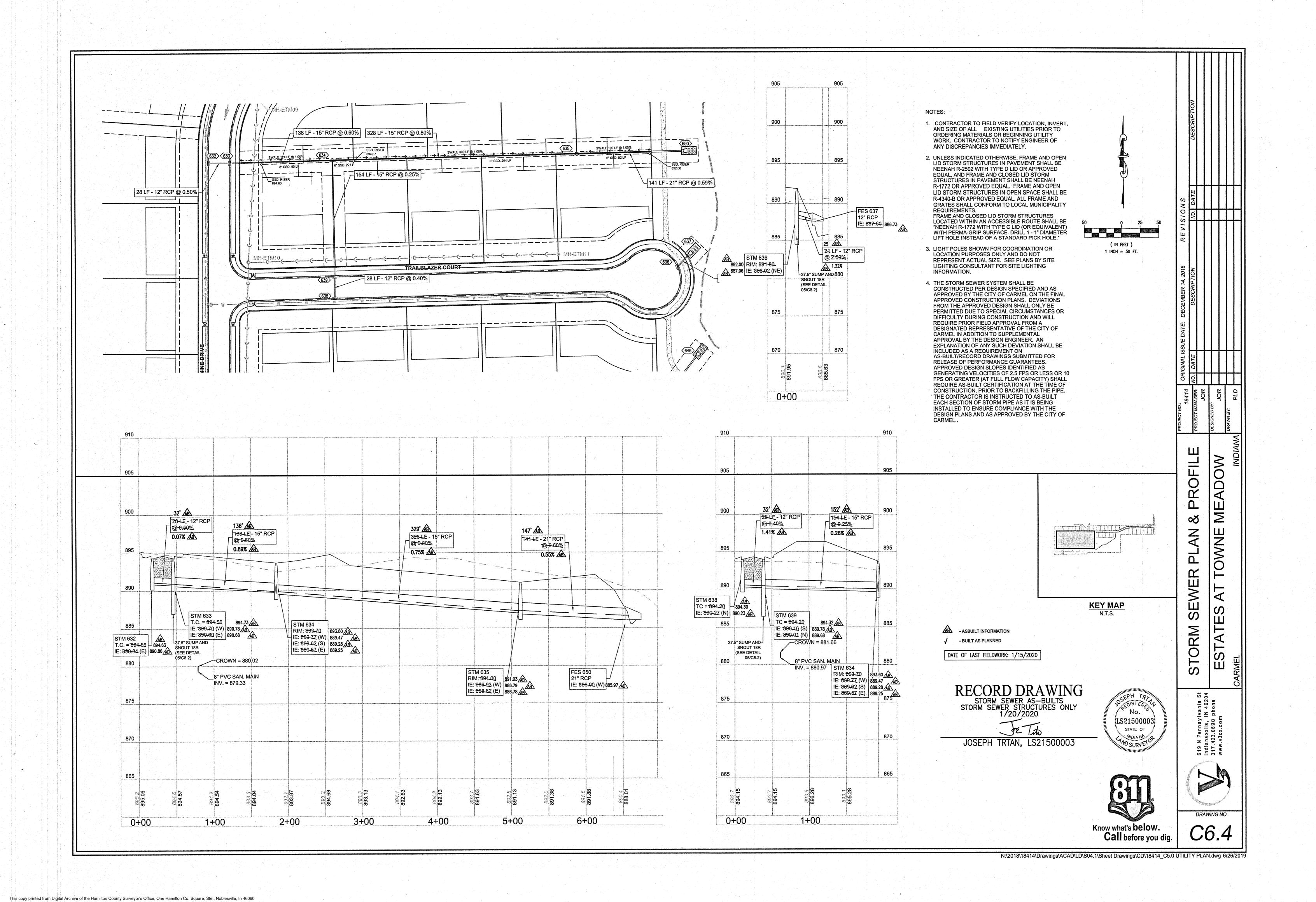


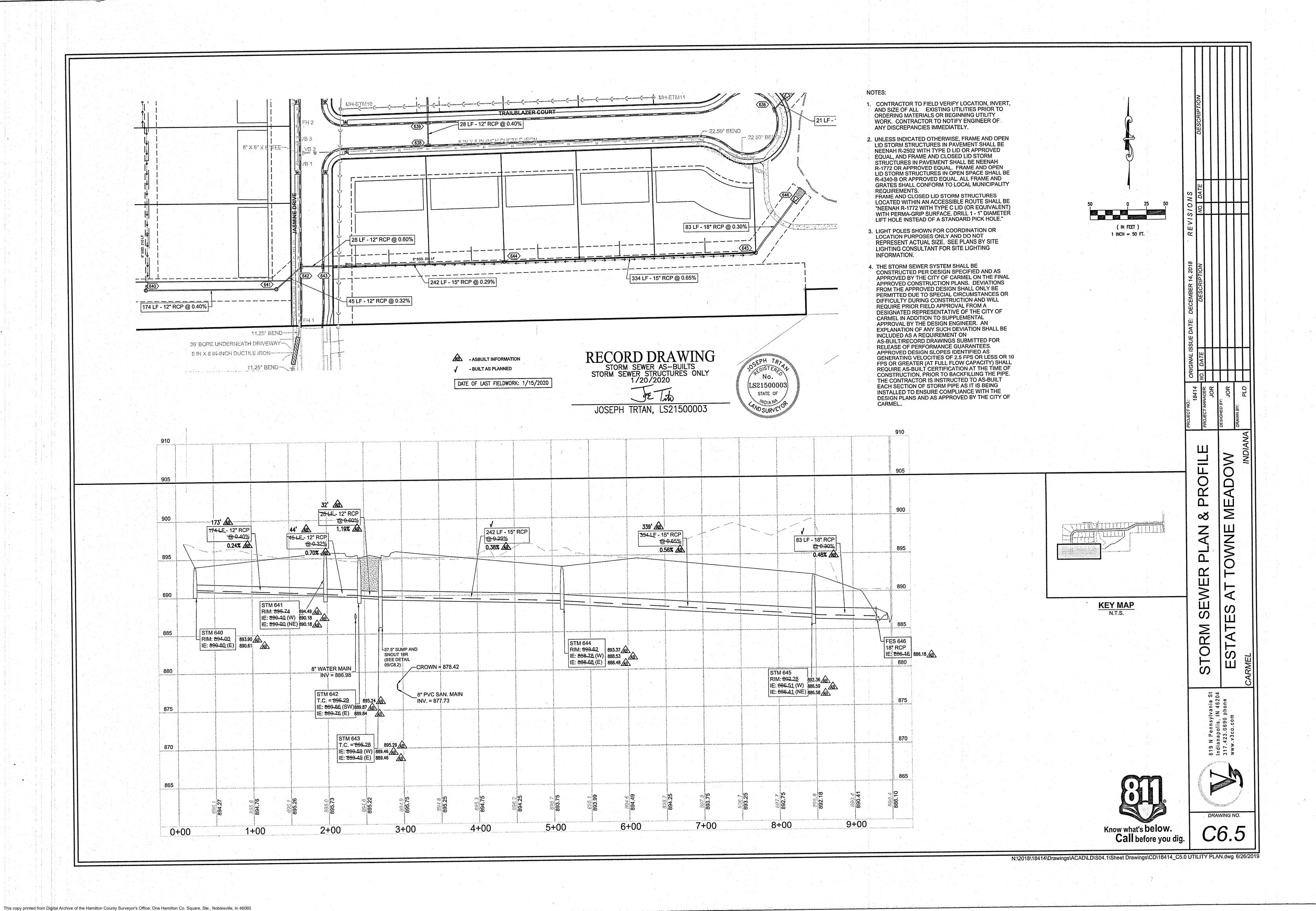


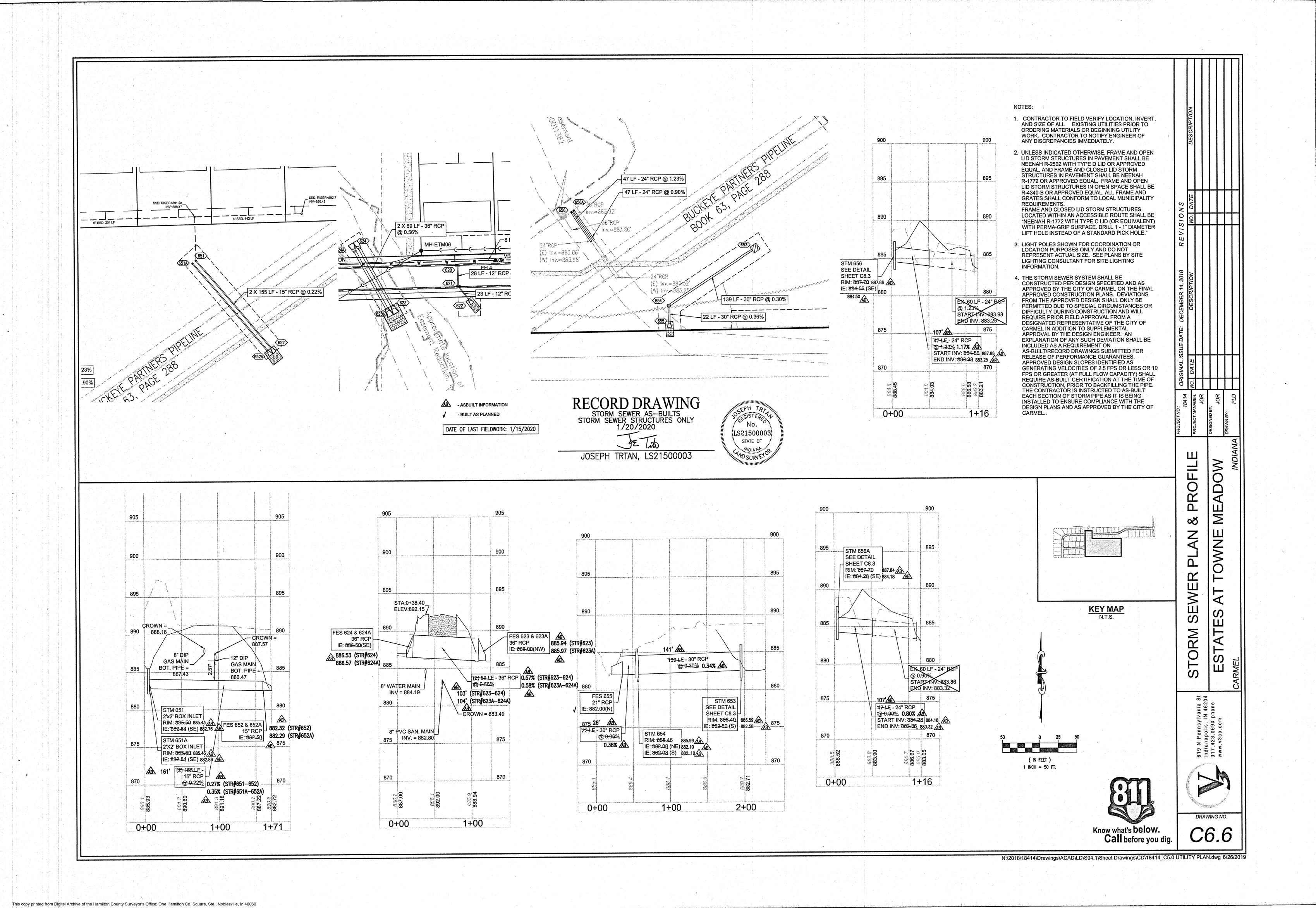


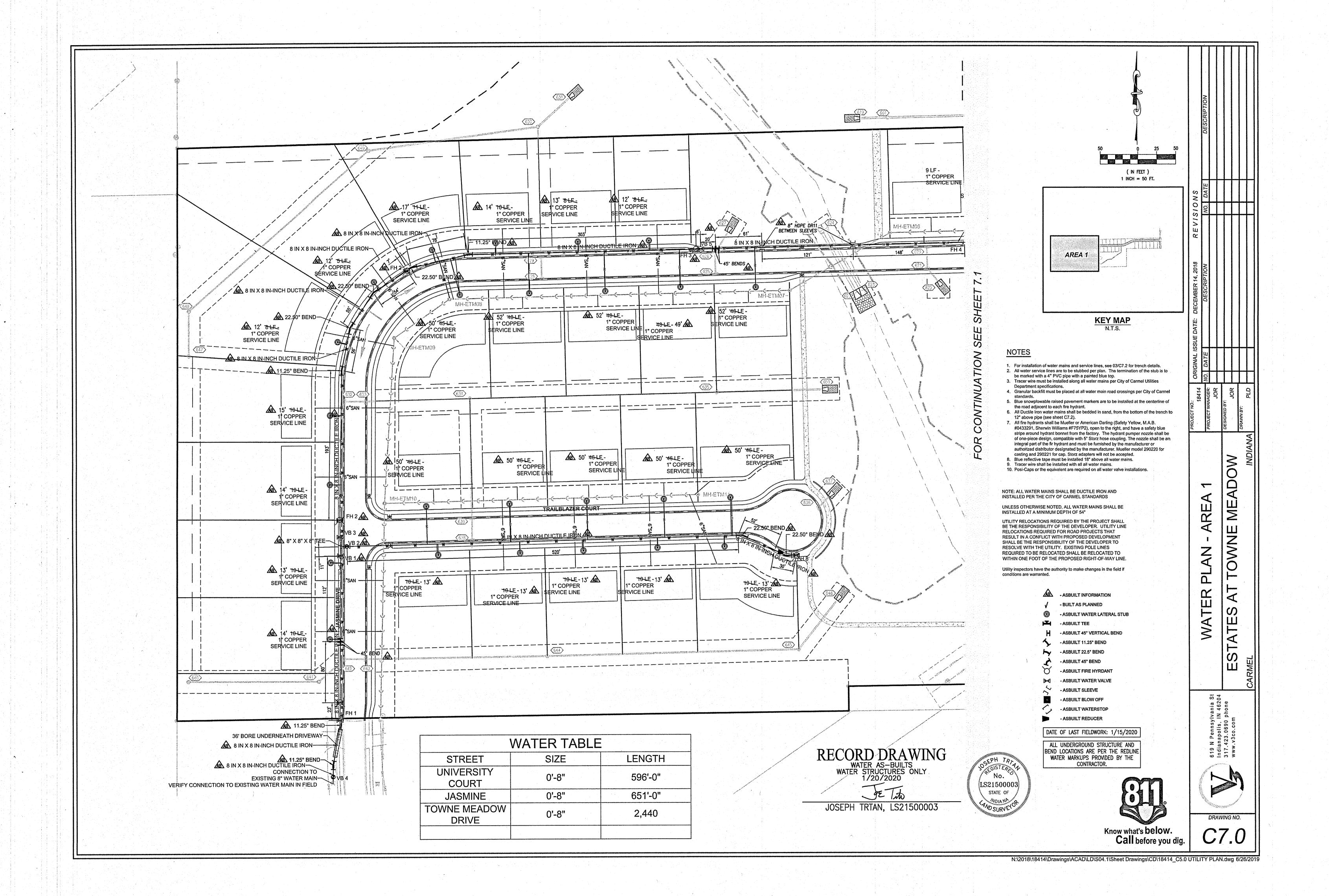


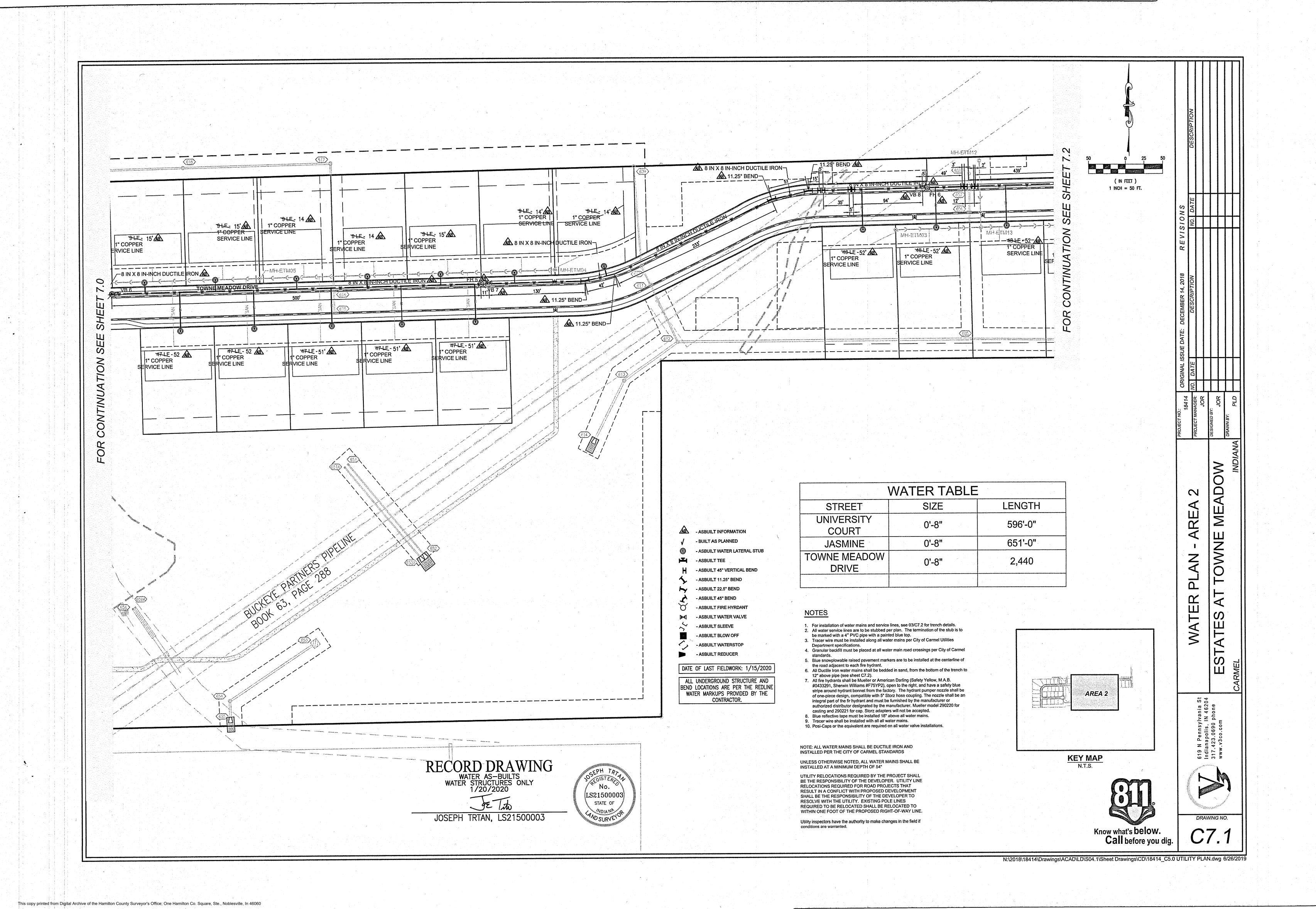


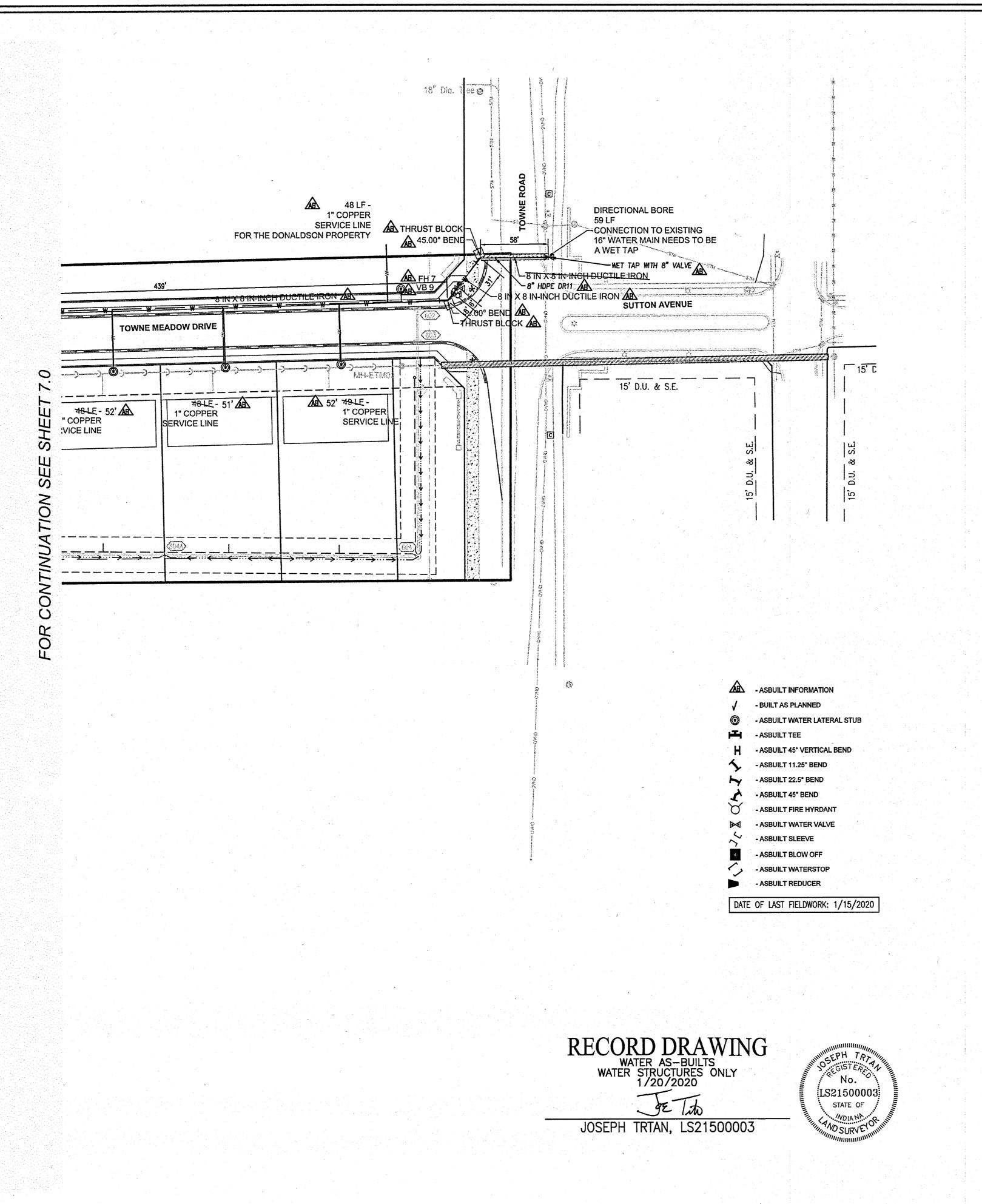


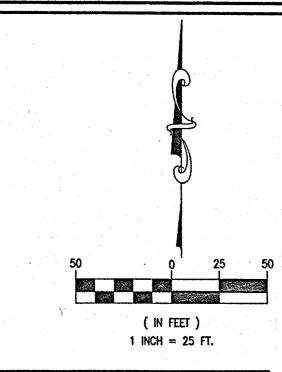


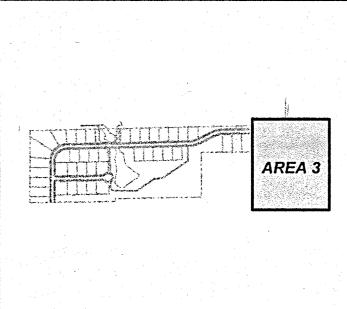












KEY MAP

WATER TABLE						
STREET	SIZE	LENGTH				
UNIVERSITY COURT	0'-8"	596'-0"				
JASMINE	0'-8"	651'-0"				
TOWNE MEADOW DRIVE	0'-8"	2,440				

NOTES

- 1. For installation of water mains and service lines, see 03/C7.2 for trench details.
- All water service lines are to be stubbed per plan. The termination of the stub is to be marked with a 4" PVC pipe with a painted blue top.
- Tracer wire must be installed along all water mains per City of Carmel Utilities
 Department specifications.
- 4. Granular backfill must be placed at all water main road crossings per City of Carmel standards.5. Blue snowplowable raised pavement markers are to be installed at the centerline of
- the road adjacent to each fire hydrant.

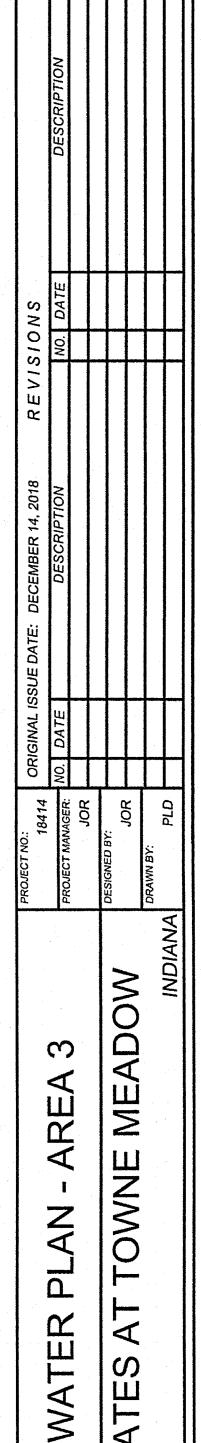
 6. All Ductile Iron water mains shall be bedded in sand, from the bottom of the trench to
- above pipe (see sheet C7.2).
 All fire hydrants shall be Mueller or American Darling (Safety Yellow, M.A.B. #0433291, Sherwin Williams #F75YP2), open to the right, and have a safety blue stripe around hydrant bonnet from the factory. The hydrant pumper nozzle shall be of one-piece design, compatible with 5" Storz hose coupling. The nozzle shall be an integral part of the fir hydrant and must be furnished by the manufacturer or authorized distributor designated by the manufacturer. Mueller model 290220 for casting and 290221 for cap. Storz adapters will not be accepted.
- 8. Blue reflective tape must be installed 18" above all water mains.
 9. Tracer wire shall be installed with all all water mains.
 10. Posi-Caps or the equivalent are required on all water valve install.
- 10. Posi-Caps or the equivalent are required on all water valve installations.11. All kickers shall be solid concrete block. NO POURED CONCRETE

NOTE: ALL WATER MAINS SHALL BE DUCTILE IRON AND INSTALLED PER THE CITY OF CARMEL STANDARDS

UNLESS OTHERWISE NOTED, ALL WATER MAINS SHALL BE INSTALLED AT A MINIMUM DEPTH OF 54"

UTILITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. UTILITY LINE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH 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 THE PROPOSED RIGHT-OF-WAY LINE.

Utility inspectors have the authority to make changes in the field if conditions are warranted.



S

DRAWING NO.

Know what's below.
Call before you dig.