

Drain: SPRINGS OF CAMBRIDGE DRAIN **Drain #:** 262
Improvement/Arm: SPRINGS OF CAMBRIDGE - SECTION 8
Operator: SLM/JDM **Date:** 7-2-04
Drain Classification: Urban/Rural **Year Installed:** 1999

GIS Drain Input Checklist

- Pull Source Documents for Scanning SLM/JDM
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains SLM/JDM
- Digitize & Attribute SSD SLM/JDM
- Digitize & Attribute Open Ditch N/A
- Stamp Plans JDM
- Sum drain lengths & Validate JDM
- Enter Improvements into Posse JDM
- Enter Drain Age into Posse JDM
- Sum drain length for Watershed in Posse JDM
- Check Database entries for errors JDM

Gasb 34 Footages for Historical Cost Drain Length Log

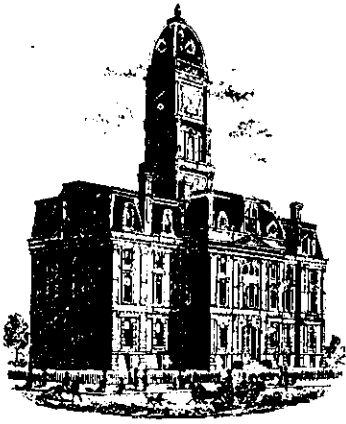
Drain-Improvement: SPRINGS OF CAMBRIDGE DRAIN-SPRINGS OF CAMBRIDGE -SECTION 8

Drain Type:	Size:	Length <small>SURVEYORS REPORT</small>	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
SSD	6"	3750'	3750'	Ø		
RCP	12"	515'	515'	Ø		
	15"	449'	449'	Ø		
	18"	198'	198'	Ø		
	36"	200	200'	Ø		

Sum: 5112' 5112' Ø

Final Report: _____

Comments:



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

November 17, 1999

Re: Springs of Cambridge Drain, Section 8 Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Section 8 Arm, Springs of Cambridge Drain. 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 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:

6"	SSD	3,750 ft	15"	RCP	660 ft
12"	RCP	515 ft	18"	RCP	198 ft

The total length of the drain will be 5,123 feet.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs. Only the main SSD lines, which are located within the right of way, are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain.

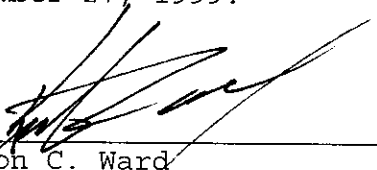
I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$30.00 per lot, \$5.00 per acre for roadways, with a \$30.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$1,114.00.

Parcels assessed for this drain may be assessed for the Williams Creek or Collins-Osborn Drains at sometime in the future.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 - 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. This request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Springs of Cambridge, Section 8 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for December 27, 1999.



Kenton C. Ward
Hamilton County Surveyor

KCW/kkw

Fifth Third Bank

INTERNATIONAL DEPARTMENT

38 Fountain Square Plaza / Cincinnati, Ohio 45263

Phone (513) 579-5220

Telex number: 21-4567

Cable address: FIFTH THIRD



ISSUING BANK:
Fifth Third Bank
International Division
38 Fountain Square Plaza
Cincinnati, Ohio 45263

IRREVOCABLE STANDBY CREDIT
NUMBER: SB11851

PAGE 1 of 2

PLACE AND DATE OF ISSUE
Cincinnati, Ohio 45263
10 Nov. 1999

EXPIRY DATE AND PLACE FOR PRESENTATION
OF DOCUMENTS: 10 Nov. 2000
Our counters

APPLICANT:
THE MARINA LIMITED PARTNERSHIP
11691 FALL CREEK ROAD
INDIANAPOLIS, IN 45256

BENEFICIARY:
HAMILTON COUNTY BOARD OF
COMMISSIONERS
1717 PLEASANT STREET
NOBLESVILLE, IN 46038

AMOUNT: USD67,315.00
Sixty seven thousand three hundred
fifteen and 00/100
United States Dollars

WE HEREBY ESTABLISH OUR IRREVOCABLE STANDBY LETTER OF CREDIT NO. SB11851 IN YOUR FAVOR, AT THE REQUEST AND FOR THE ACCOUNT OF THE MARINA LIMITED PARTNERSHIP, 11691 FALL CREEK ROAD, INDIANAPOLIS, IN 45256 FOR ANY SUM OR SUMS NOT EXCEEDING \$67,315.00, AVAILABLE UPON PRESENTATION BY THE DIRECTOR OF THE HAMILTON COUNTY BOARD OF COMMISSIONERS OR ANY EMPLOYEE ACTING UNDER HIS AUTHORITY, OF A LETTER SIGNED BY THE PRESIDENT OF THE HAMILTON COUNTY BOARD OF COMMISSIONERS ENUMERATING ANY AND ALL IMPROVEMENTS NOT COMPLETED AS REQUIRED FOR STORM SEWERS AND SUBSURFACE DRAINAGE FOR SPRINGS OF CAMBRIDGE SUBDIVISION, SECTION 8. THE PRESIDENT'S LETTER SHALL ALSO INDICATE THE ESTIMATED COST OF COMPLETING THE IMPROVEMENTS.

THE DRAFTS DRAWN UNDER THIS LETTER OF CREDIT MUST STATE "DRAWN UNDER LETTER OF CREDIT NO. SB11851 OF FIFTH THIRD BANK, CINCINNATI, OHIO, DATED NOVEMBER 10, 1999". THE AMOUNTS OF THE DRAFTS MUST BE NOTED ON THE BACK OF THIS LETTER OF CREDIT BY THE NEGOTIATING BANK AND/OR AGENCY.

**BOARD OF COMMISSIONERS
OF THE COUNTY OF HAMILTON**

DATE _____

**ATTEST: _____
HAMILTON COUNTY AUDITOR**



Except so far as otherwise expressly stated this credit is subject to the "Uniform Customs and Practice for Documentary Credits of the International Chamber of Commerce, Presently in Effect".

Fifth Third Bank

INTERNATIONAL DEPARTMENT

38 Fountain Square Plaza / Cincinnati, Ohio 45263

Phone (513) 579-5220

Telex number: 21-4567

Cable address: FIFTH THIRD

NUMBER SB11851

PAGE 2 of 2

THIS LETTER OF CREDIT IS EFFECTIVE AS OF NOVEMBER 10, 1999, AND SHALL EXPIRE ON NOVEMBER 10, 2000, BUT SUCH EXPIRATION DATE SHALL BE AUTOMATICALLY EXTENDED FOR A PERIOD OF ONE YEAR, ON NOVEMBER 10, 2000, AND ON EACH SUCCESSIVE EXPIRATION DATE, UNLESS A RELEASE IS RECEIVED FROM THE HAMILTON COUNTY BOARD OF COMMISSIONERS, OR WE NOTIFY BOTH THE HAMILTON COUNTY BOARD OF COMMISSIONERS AND THE MARINA LIMITED PARTNERSHIP BY CERTIFIED MAIL, AT LEAST NINETY (90) DAYS BEFORE THE CURRENT EXPIRATION DATE, THAT WE HAVE DECIDED NOT TO EXTEND THIS LETTER OF CREDIT BEYOND THE CURRENT EXPIRATION DATE. IN THE EVENT OF SUCH NOTIFICATION BY US, THE CREDIT ESTABLISHED BY THIS LETTER SHALL BE AVAILABLE TO THE HAMILTON COUNTY BOARD OF COMMISSIONERS UPON ITS SIGHT DRAFT OR DEMAND FOR PAYMENT FOR NINETY (90) DAYS AFTER RECEIPT OF SUCH NOTICE BY THE HAMILTON COUNTY BOARD OF COMMISSIONERS, AS SHOWN ON THE SIGNED RETURN RECEIPT.

THE CREDIT ESTABLISHED BY THIS LETTER AND OUR OBLIGATION TO PAY SAME SHALL NOT BE AFFECTED BY THE RECEIVERSHIP, BANKRUPTCY OR INSOLVENCY OF THE MARINA LIMITED PARTNERSHIP OR THE ATTACHMENT OF HIS/HER PROPERTY. NOR SHALL THIS CREDIT OR OUR OBLIGATION TO PAY SAME BE AFFECTED BY ANY SECURITY AGREEMENT BETWEEN THE MARINA LIMITED PARTNERSHIP AND OUR BANK AND/OR AGENCY.

WHENEVER THIS LETTER OF CREDIT IS DRAWN ON UNDER AND IN COMPLIANCE WITH THE TERMS OF THIS LETTER OF CREDIT, WE SHALL PAY THE AMOUNT OF THE DRAFT DIRECTLY TO THE HAMILTON COUNTY BOARD OF COMMISSIONERS OR IN ACCORDANCE WITH ITS INSTRUCTIONS.

REGARDS
THE FIFTH THIRD BANK
INTERNATIONAL DEPT.
CINCINNATI, OHIO USA
TLX 214567


Authorized Signature


Authorized Signature



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Fifth Third Bank

INTERNATIONAL DEPARTMENT

38 Fountain Square Plaza / Cincinnati, Ohio 45263

Phone (513) 579-5220

Telex number: 21-4567

Cable address: FIFTH THIRD

ISSUING BANK:
Fifth Third Bank
International Division
38 Fountain Square Plaza
Cincinnati, Ohio 45263

IRREVOCABLE STANDBY CREDIT
NUMBER: SB11849

PAGE 1 of 2

PLACE AND DATE OF ISSUE
Cincinnati, Ohio 45263
10 Nov. 1999

EXPIRY DATE AND PLACE FOR PRESENTATION
OF DOCUMENTS: 10 Nov. 2000
Our counters

APPLICANT:
THE MARINA LIMITED PARTNERSHIP
11691 FALL CREEK ROAD
INDIANAPOLIS, IN 45256

BENEFICIARY:
HAMILTON COUNTY BOARD OF
COMMISSIONERS
1717 PLEASANT STREET
NOBLESVILLE, IN 46038

AMOUNT: USD20,000.00
Twenty thousand and 00/100
United States Dollars

WE HEREBY ESTABLISH OUR IRREVOCABLE STANDBY LETTER OF CREDIT NO. SB11849 IN YOUR FAVOR, AT THE REQUEST AND FOR THE ACCOUNT OF THE MARINA LIMITED PARTNERSHIP, 11691 FALL CREEK ROAD, INDIANAPOLIS, IN 45256 FOR ANY SUM OR SUMS NOT EXCEEDING \$20,000.00, AVAILABLE UPON PRESENTATION BY THE DIRECTOR OF THE HAMILTON COUNTY BOARD OF COMMISSIONERS OR ANY EMPLOYEE ACTING UNDER HIS AUTHORITY, OF A LETTER SIGNED BY THE PRESIDENT OF THE HAMILTON COUNTY BOARD OF COMMISSIONERS ENUMERATING ANY AND ALL IMPROVEMENTS NOT COMPLETED AS REQUIRED FOR EROSION CONTROL FOR SPRINGS OF CAMBRIDGE SUBDIVISION, SECTION 8. THE PRESIDENT'S LETTER SHALL ALSO INDICATE THE ESTIMATED COST OF COMPLETING THE IMPROVEMENTS.

THE DRAFTS DRAWN UNDER THIS LETTER OF CREDIT MUST STATE "DRAWN UNDER LETTER OF CREDIT NO. SB11849 OF FIFTH THIRD BANK, CINCINNATI, OHIO, DATED NOVEMBER 10, 1999". THE AMOUNTS OF THE DRAFTS MUST BE NOTED ON THE BACK OF THIS LETTER OF CREDIT BY THE NEGOTIATING BANK AND/OR AGENCY.

**BOARD OF COMMISSIONERS
OF THE COUNTY OF HAMILTON**

DATE _____

**ATTEST: _____
HAMILTON COUNTY AUDITOR**

Except so far as otherwise expressly stated this credit is subject to the "Uniform Customs and Practice for Documentary Credits of the International Chamber of Commerce, Presently in Effect".

Fifth Third Bank

INTERNATIONAL DEPARTMENT

38 Fountain Square Plaza / Cincinnati, Ohio 45263

Phone (513) 579-5220

Telex number: 21-4567

Cable address: FIFTH THIRD

NUMBER SB11849

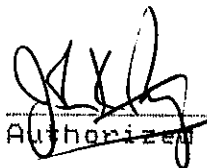
PAGE 2 of 2

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WHENEVER THIS LETTER OF CREDIT IS DRAWN ON UNDER AND IN COMPLIANCE WITH THE TERMS OF THIS LETTER OF CREDIT, WE SHALL PAY THE AMOUNT OF THE DRAFT DIRECTLY TO THE HAMILTON COUNTY BOARD OF COMMISSIONERS OR IN ACCORDANCE WITH ITS INSTRUCTIONS.

REGARDS
THE FIFTH THIRD BANK
INTERNATIONAL DEPT.
CINCINNATI, OHIO USA
TLX 214567



Authorized Signature



Authorized Signature

Except so far as otherwise expressly stated this credit is subject to the "Uniform Customs and Practice for Documentary Credits of the International Chamber of Commerce, Presently in Effect".

CERTIFICATE OF COMPLETION AND COMPLIANCE

TO: HAMILTON COUNTY SURVEYOR

RE: THE SPRINGS OF CAMBRIDGE, SECTION EIGHT

I hereby certify that:

- 1.) I am a Registered Land Surveyor 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, and
- 4.) To the best of my knowledge, information and belief, the Drainage Facilities within the subdivision has been installed and completed in conformity with all plans and specifications.

Signature: Joseph A. Sharp Date: 02/13/01

Type or Printed Name: Joseph A. Sharp

Business Address: 7172 Graham Road
Indianapolis, IN 46250

Telephone: (317)842-6777

INDIANA REGISTERED NUMBER

50076

FILED

FEB 14 2001

OFFICE OF HAMILTON COUNTY SURVEYOR



SURVEYOR'S OFFICE Hamilton County

Kenton C. Ward, Surveyor
Phone (317) 776-8495
Fax (317) 776-9628

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

To: Hamilton County Drainage Board

January 13, 2003

Re: Springs of Cambridge Drain: Springs of Cambridge Sec 8

Attached are as-builts, certificate of completion & compliance, and other information for Springs of Cambridge Sec. 8. 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 17, 1999. The report was approved by the Board at the hearing held December 27, 1999. (See Drainage Board Minutes Book 4, Pages 298-300)

The changes are as follows:

Structure:	T.C.:	I.E.:	Pipe:	Length:
709	785.04	785.04		
708	790.5	785.49	15	214
708	790.5	785.44		
707	790.56	785.66	12	20
703	785.11	785.11		
702	790.82	785.57	15	187
702	790.82	785.51		
701	790.86	785.74	15	24
712	785.13	785.13		
711	789.9	785.82	18	198
711	789.9	785.77		
710	789.88	786.28	15	24
718	785.07	785.07		
717	794.2	786.3	12	124
717	794.2	786.21		
716	793.99	787.29	12	107
716	793.99	787.24		
715	793.15	788.05	12	40
715	793.15	788		
714	792.9	788.9	12	41
714	792.9	788.87		
713	793.42	789.07	12	36

706	784.93	784.93		
705	789.65	785.29	12	131
705	789.65	785.29		
704	789.63	785.58	12	16
720	795.66	791.56		
719		793.03	36	200

6" SSD Streets:

Marjac	1428
Kingston	447
x2	

Total: 3750

RCP Pipe

Totals:

12	515
15	449
18	198
36	200

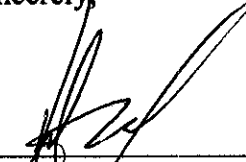
The length of the drain due to the changes described above is now **5112 feet**.

The non-enforcement was approved by the Board at its meeting on December 27, 1999 and recorded under instrument #2000_00004041.

The bond or letter of credit from Fifth Third Bank, number SB11851, SB11849, SB11852; dated November 10, 1999; in the amount of \$67,315.00, \$20,000.00, \$5,000 for Storm Sewers, Erosion Control and Monuments; was released September 23, 2002.

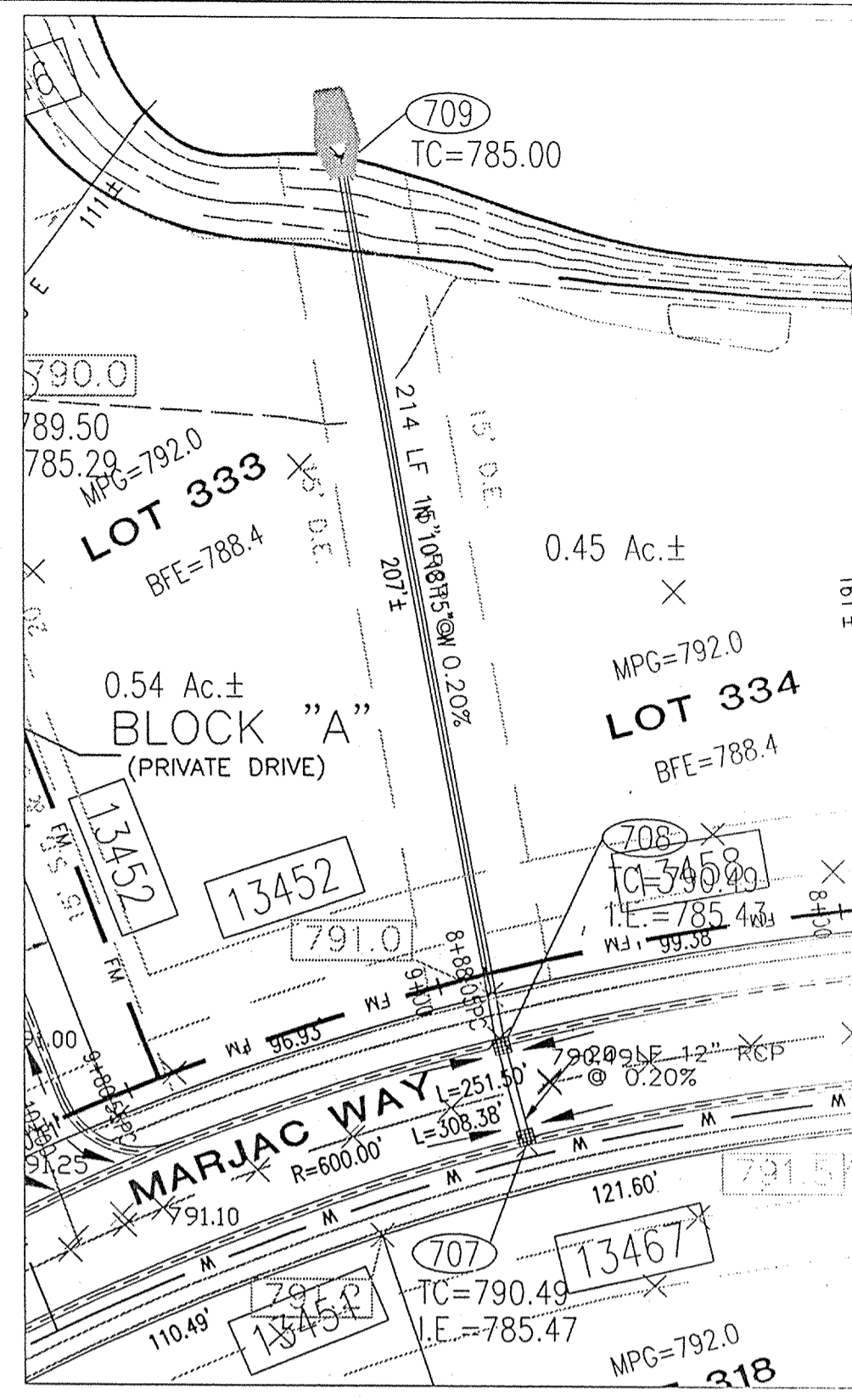
I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely,

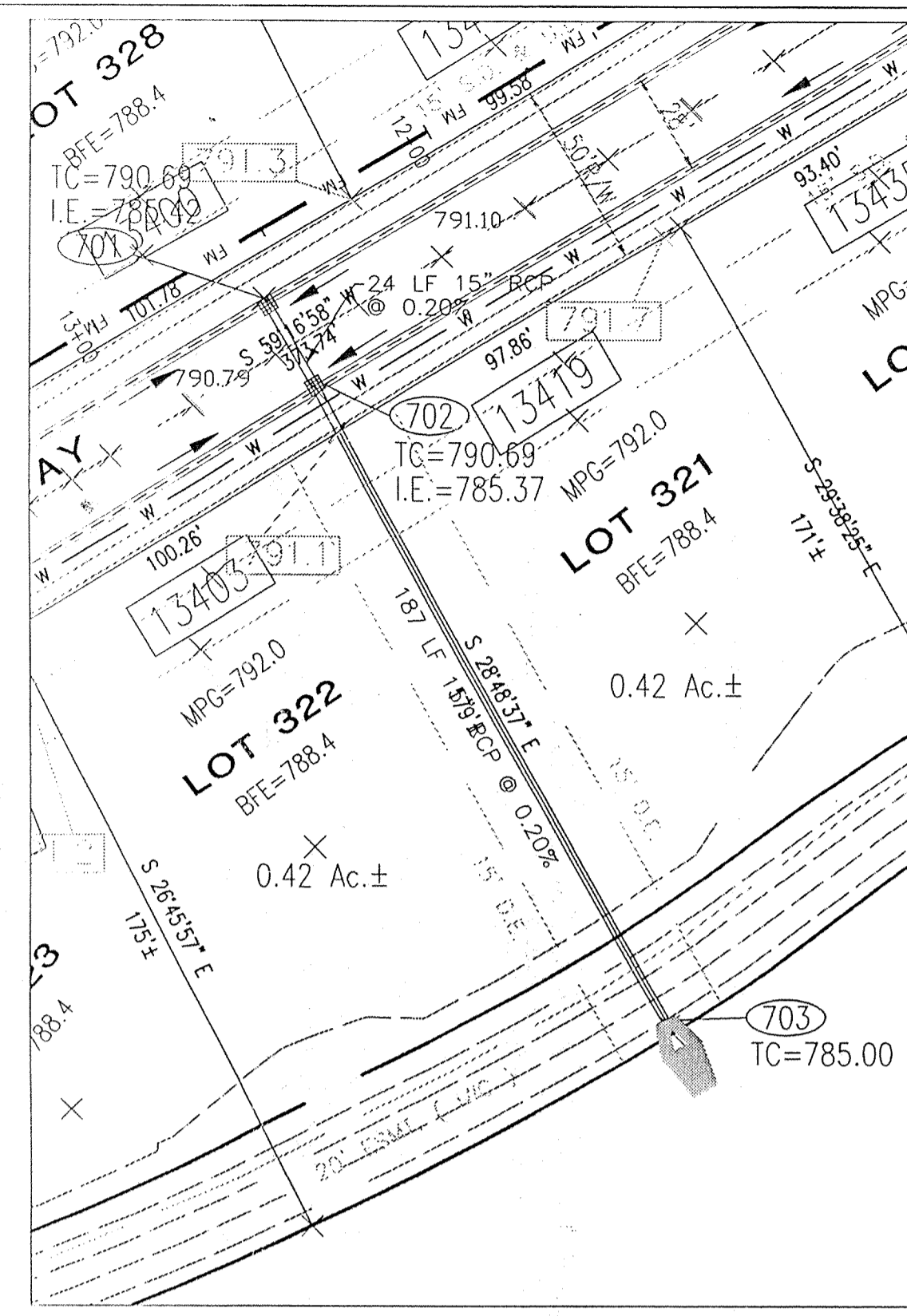


Kenton C. Ward,
Hamilton County Surveyor

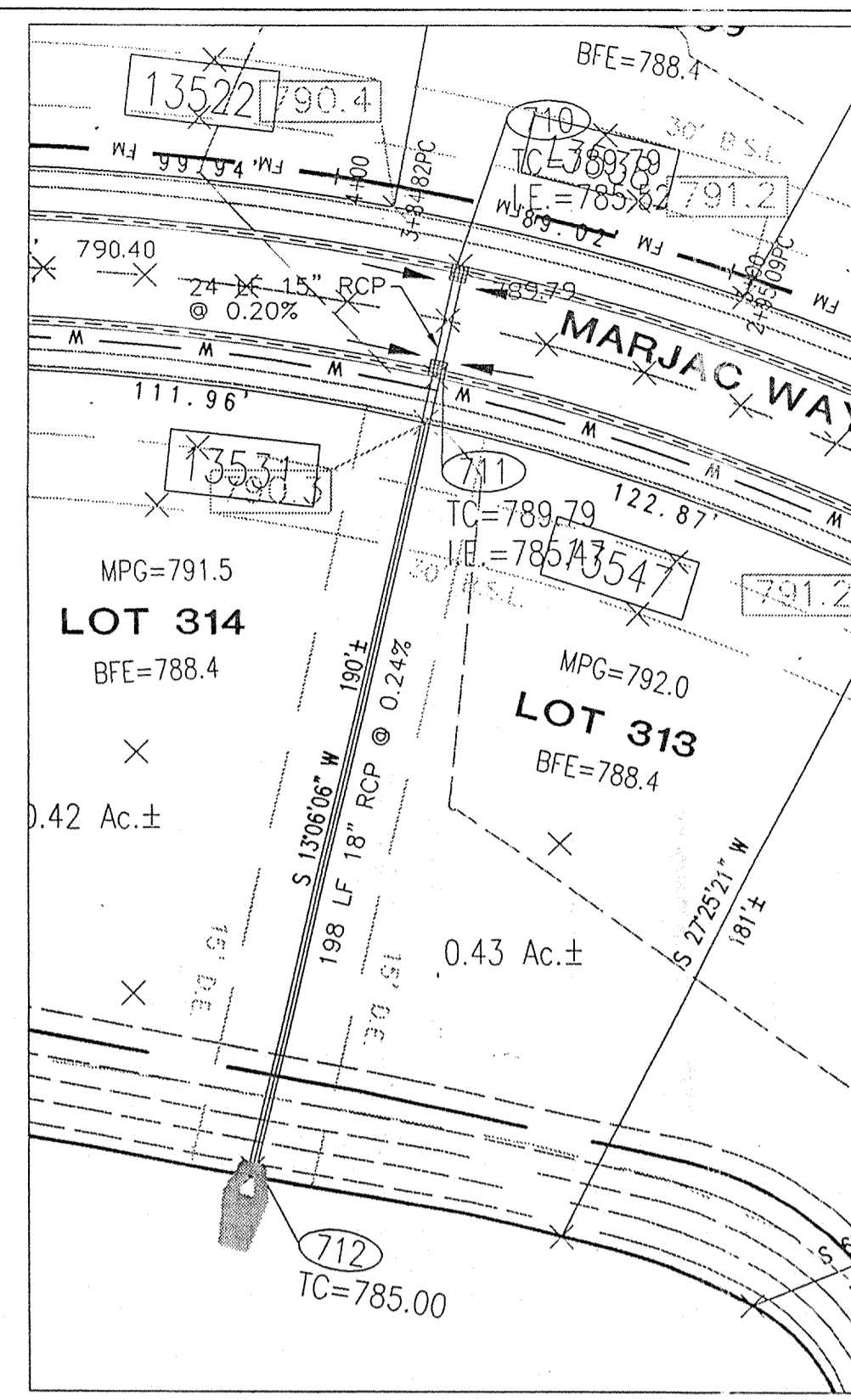
KCW/slm



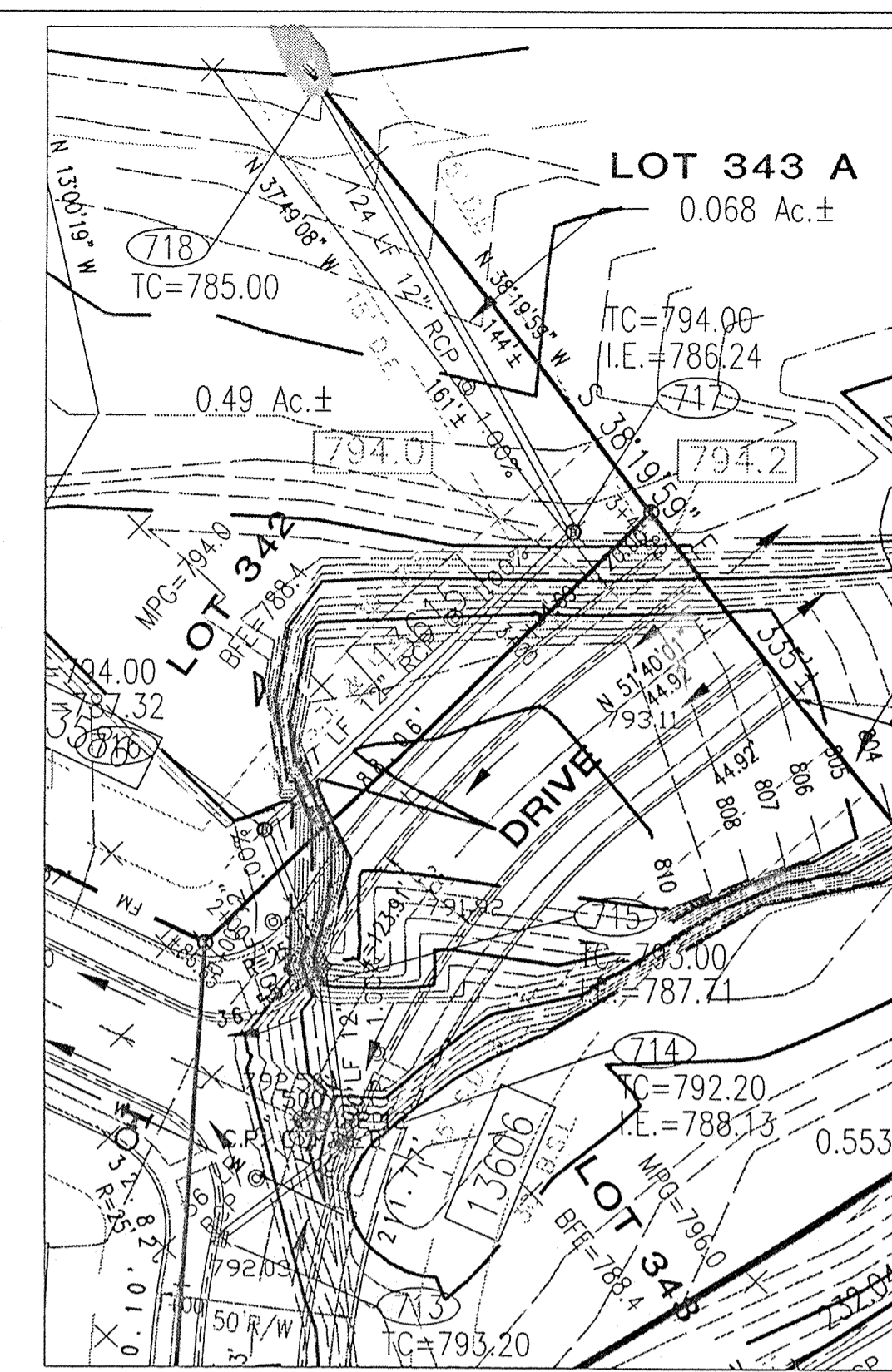
PLAN ONE ✓



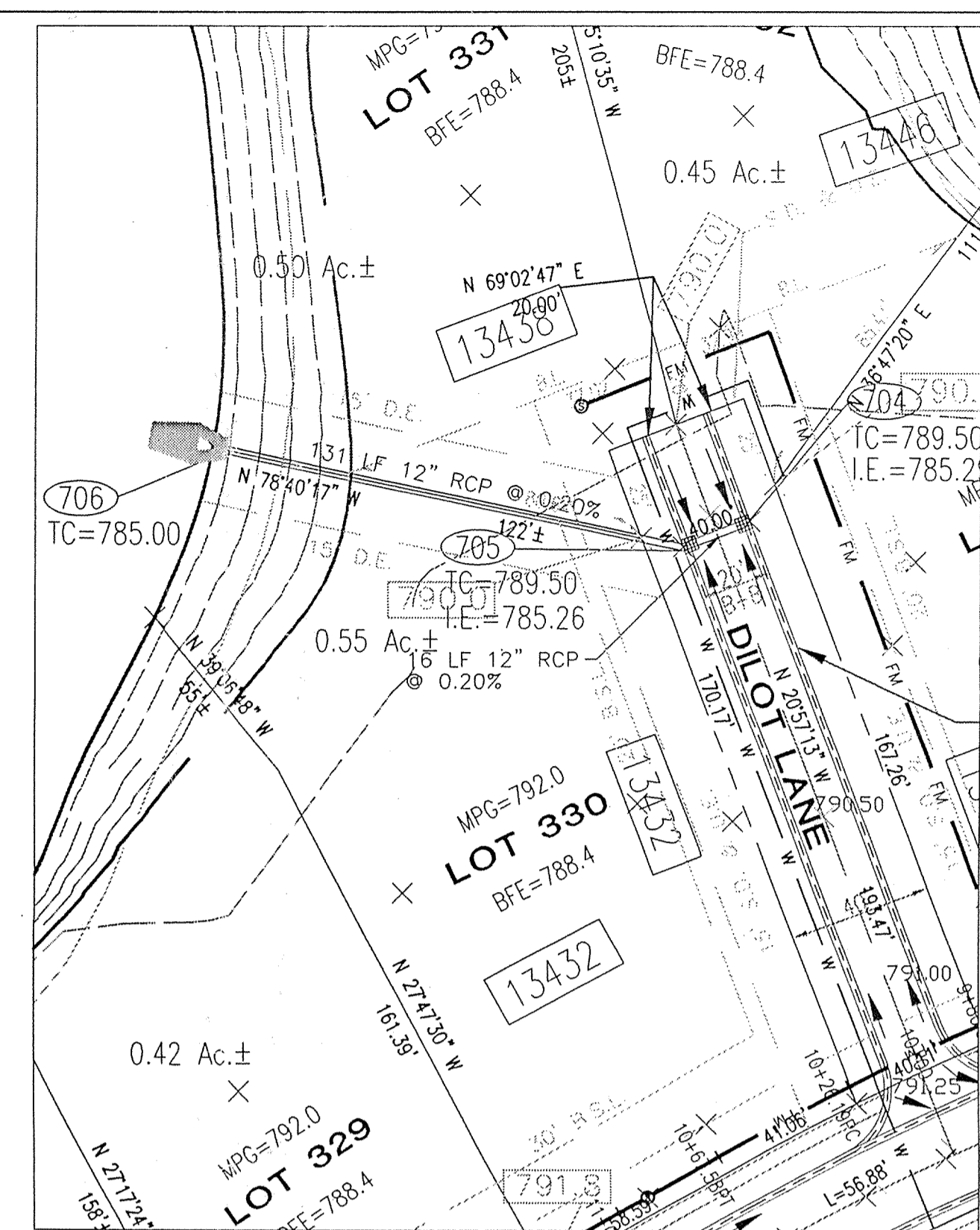
PLAN TWO ✓



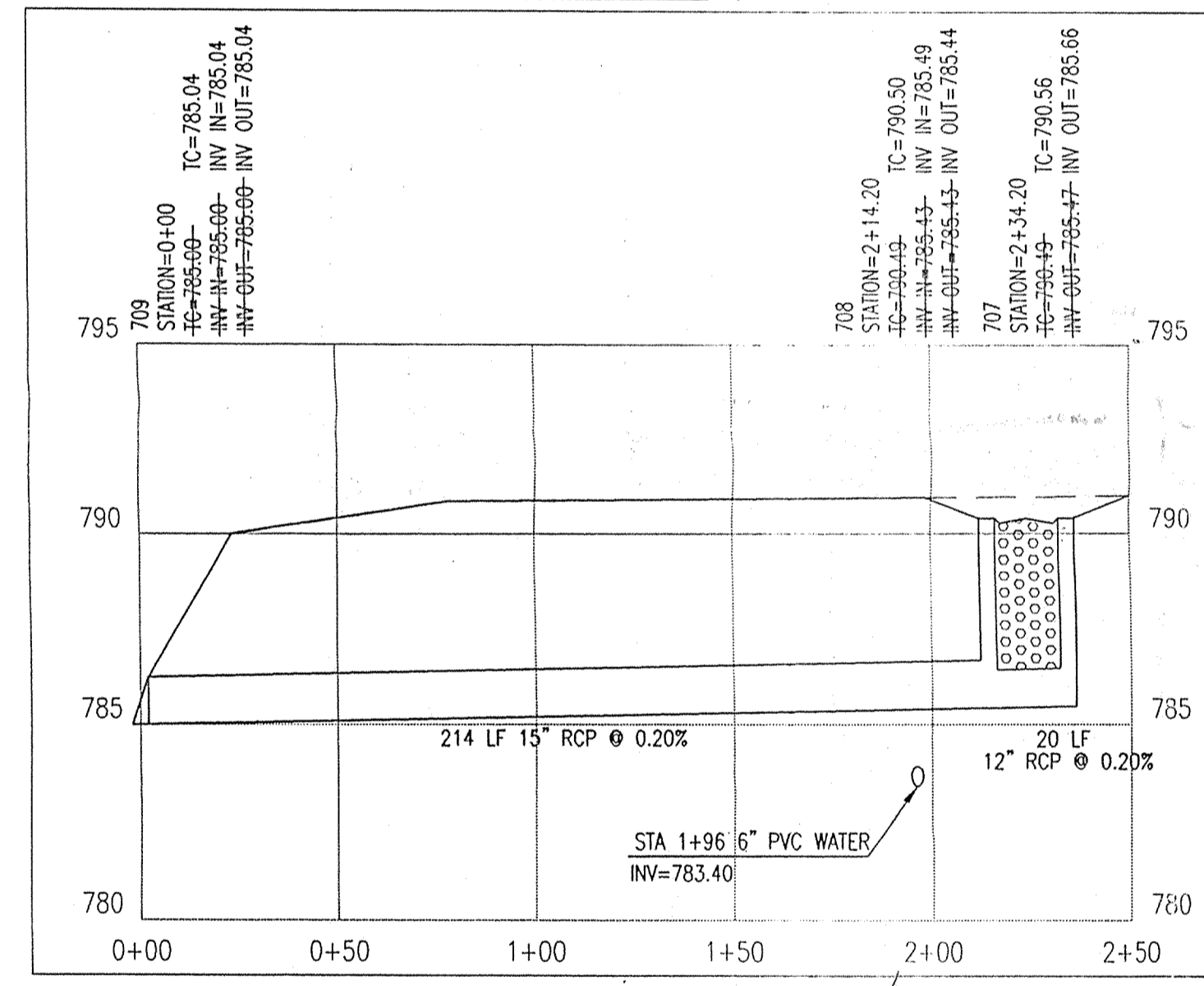
PLAN THREE ✓



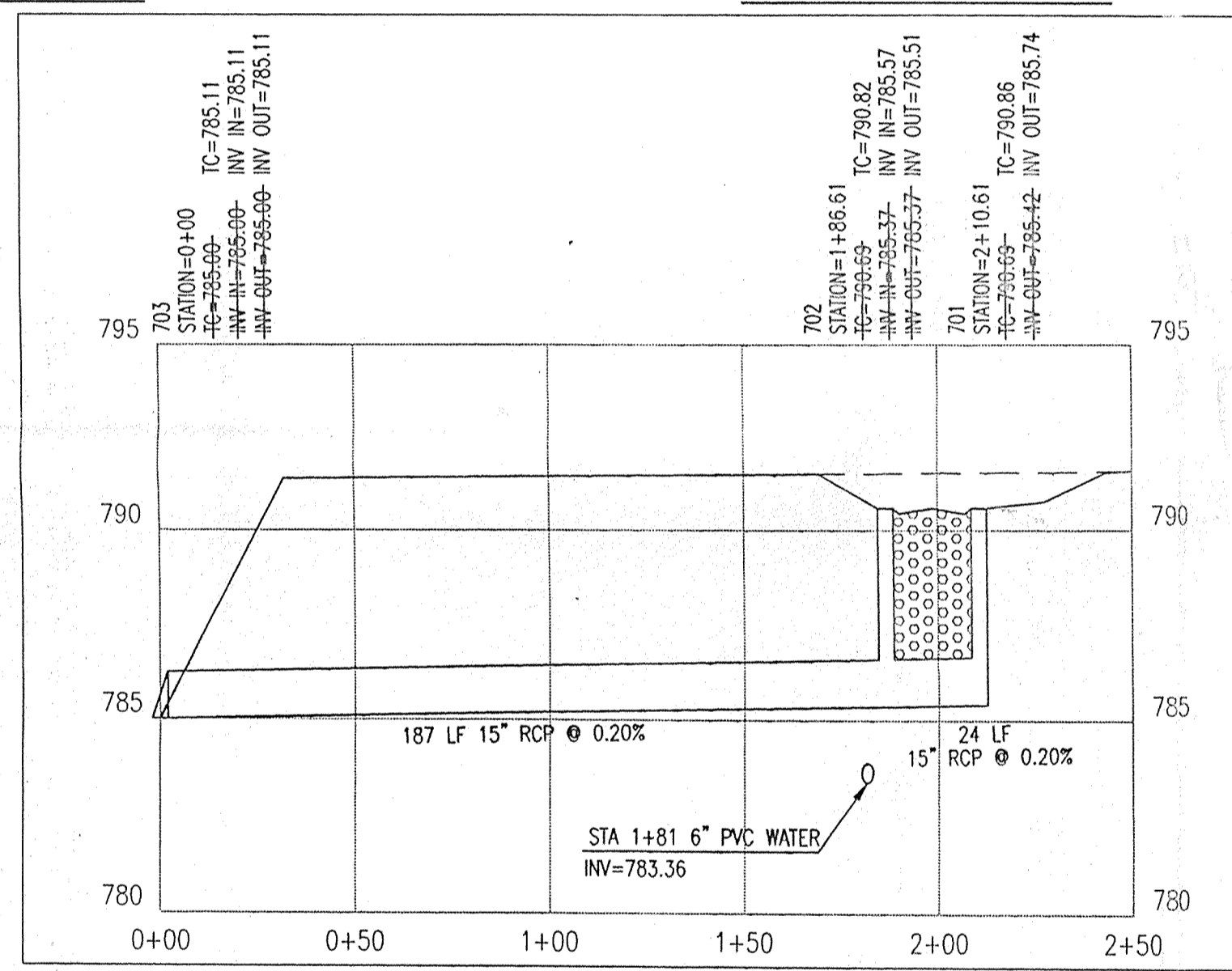
PLAN FOUR ✓



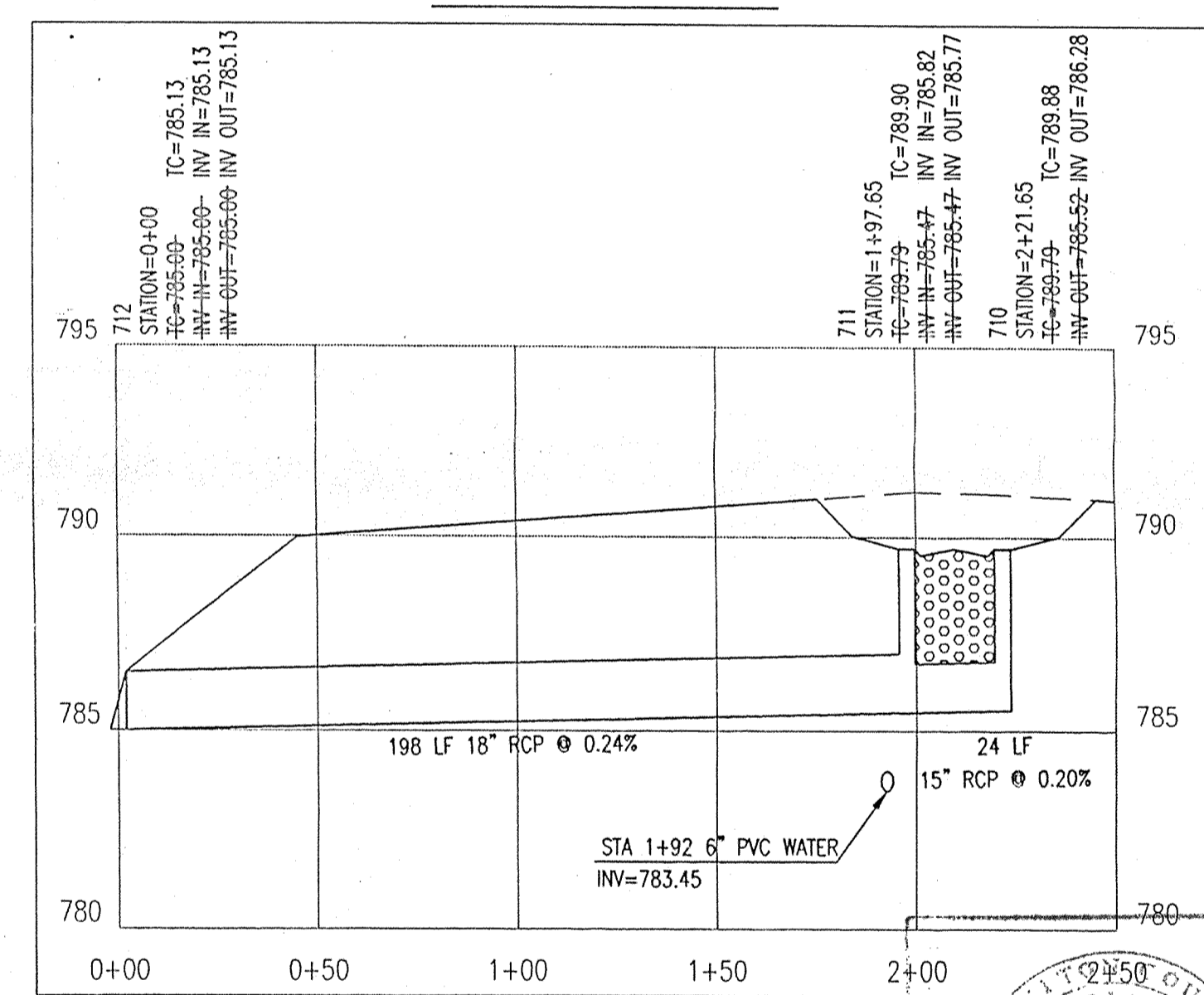
PLAN FIVE ✓



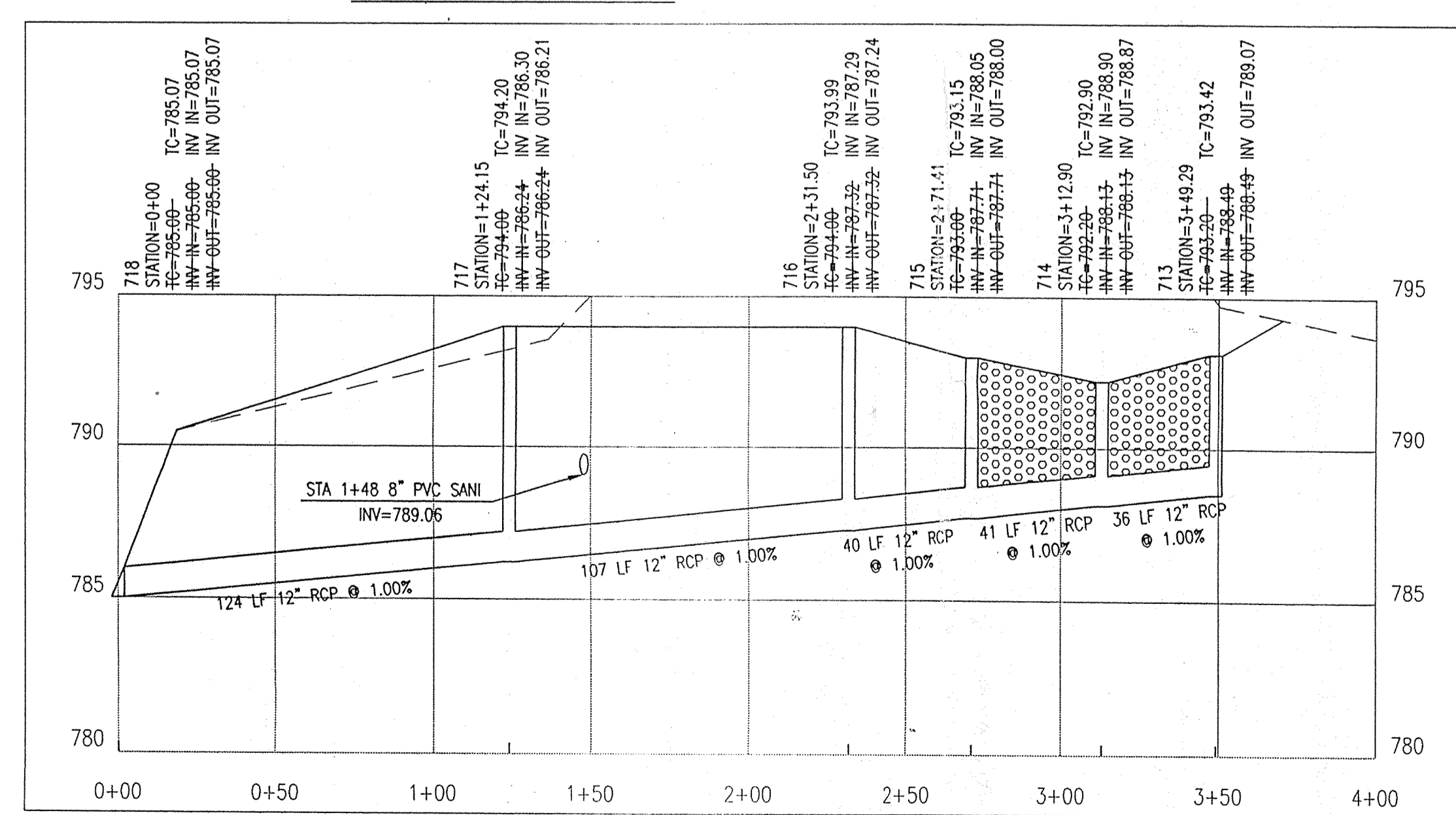
PROFILE ONE ✓



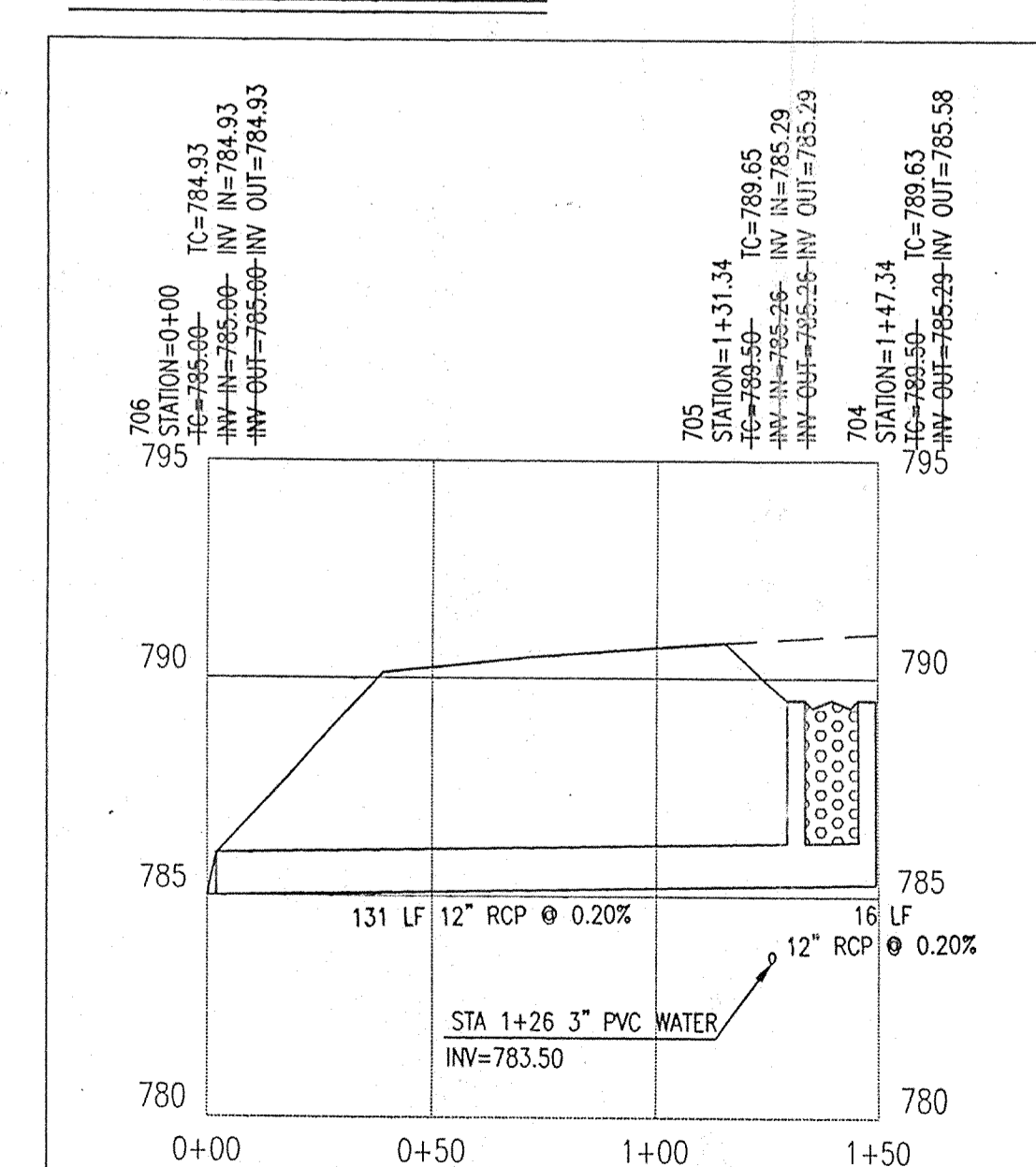
PROFILE TWO ✓



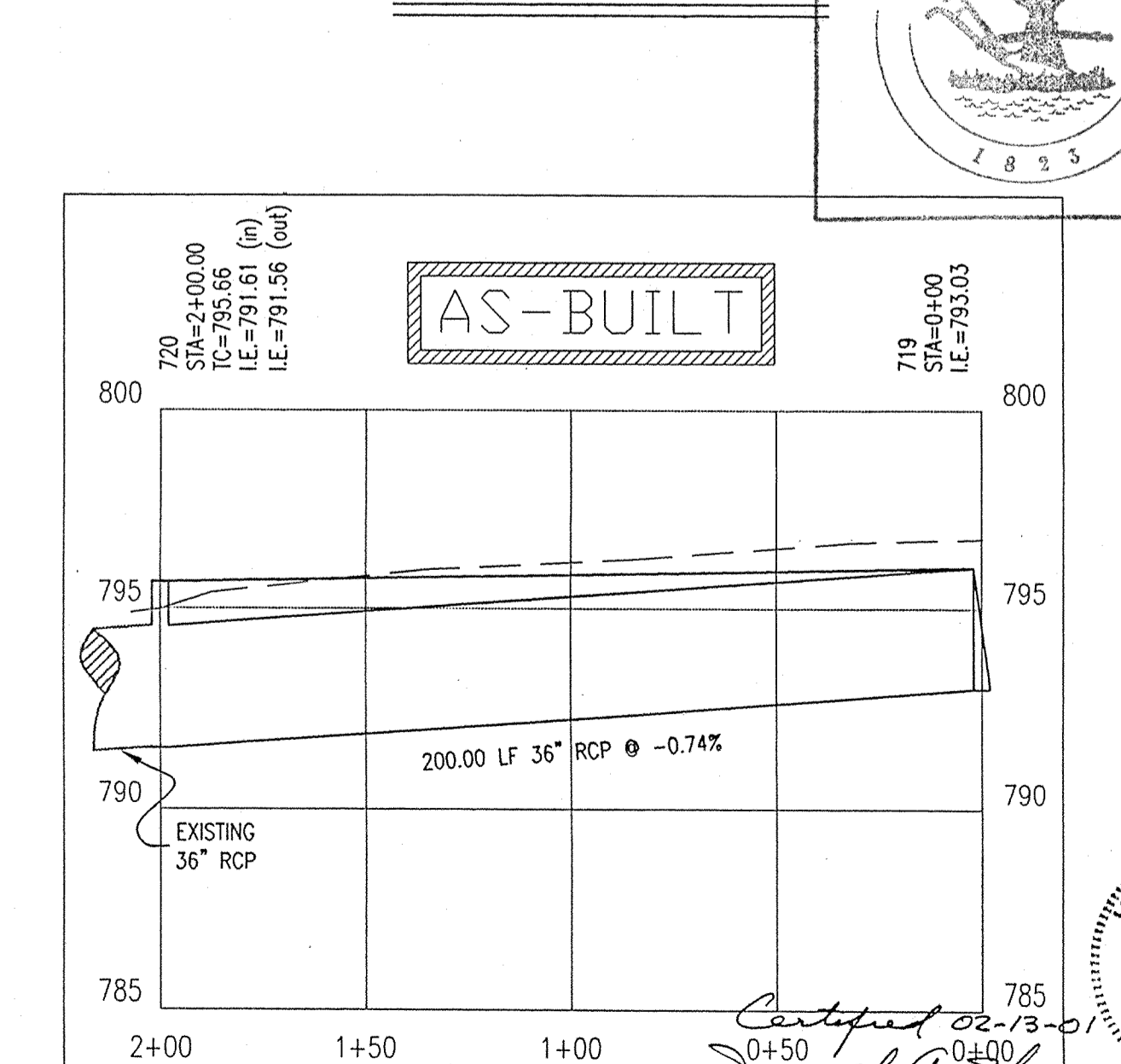
PROFILE THREE ✓



PROFILE FOUR ✓

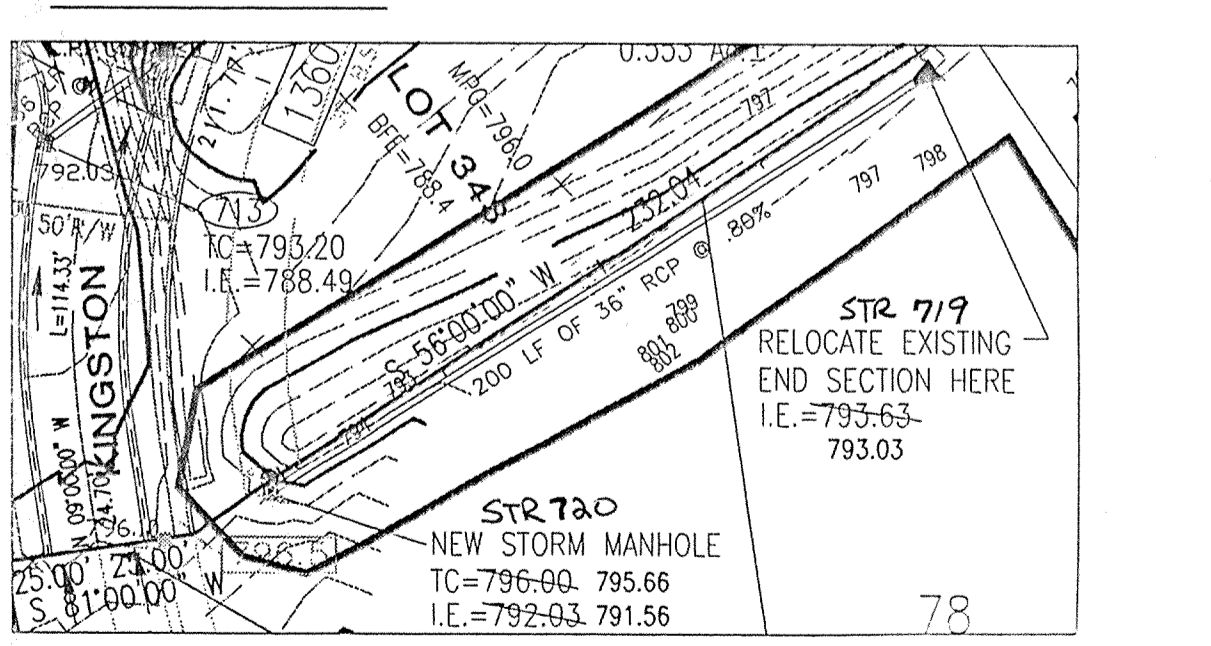
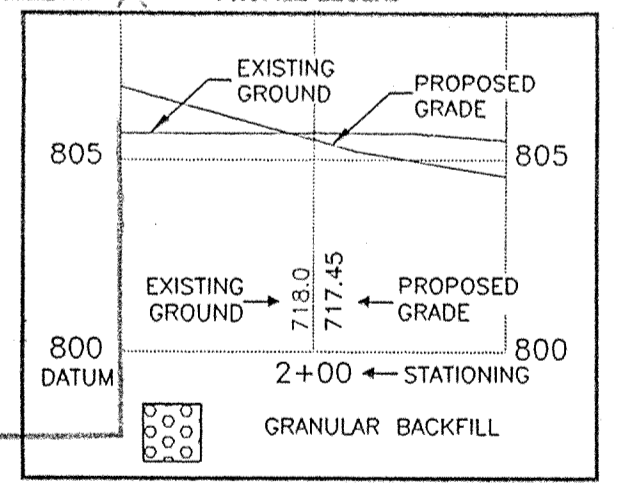


PROFILE FIVE ✓



PROFILE SIX ✓

- STORM SEWER PLAN AND PROFILE NOTES:**
- 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.
 - IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
 - ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE CONNECTIONS WELL GROUNDED, TRENCHED SMOOTH AND BRUSH FINISHED.
 - ALL STRUCTURES (E.G. MANHOLES, INLETS) SHALL HAVE POURED FLOW LINES AND BENCH WALLS. THE FLOW LINES AND BENCHWORK SHALL BE TRENCHED SMOOTH AND BRUSH FINISHED.
 - FIELD ADJUSTMENTS OF TOP OF CASTING (T.C.) OF STRUCTURES MAY BE REQUIRED TO MEET FIELD CONDITIONS. ADJUSTMENTS EXCEEDING FIVE TENTHS (0.5) OF A FOOT MUST BE APPROVED BY THE ENGINEER TO DETERMINE THE INTEGRITY OF THE STRUCTURE. AT NO COST TO THE OTHER.
 - STORM STRUCTURES WITH INLET CASTINGS SHALL BE SET TO MAINTAIN A POSITIVE DRAINAGE FLOW INTO THE STRUCTURE.
 - STORM PIPE INVERTS AT OUTLET STRUCTURES (IE: END SECTIONS), AND PIPE LENGTHS MAY REQUIRE FIELD ADJUSTMENTS TO MEET ACTUAL FIELD CONDITIONS.
 - FULL DEPTH GRANULAR BACKFILL SHALL BE REQUIRED UNDER AND WITHIN (5) FEET OF ALL PAVED AREAS, INCLUDING CURBS, EDGE OF PAVEMENT, AND SIDEWALKS.
 - SEE SECTION 02720 FOR STORM SEWERAGE SPECIFICATIONS A) IN THE PROJECT MANUAL OR B) ON SHEET CS07.
 - PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE END SECTIONS.
 - THE CONNECTION OF THE PROPOSED STORM SEWER TO AN EXISTING BRICK STRUCTURE MUST BE DONE ACCORDING TO THE FOLLOWING CONDITIONS:
 A) REHABILITATE AND COAT THE ENTIRE INTERIOR OF THE MANHOLE WITH NON-SHRINK GROUT.
 B) AT THE POINT OF CONNECTION OF THE PROPOSED PIPE, PLACE A THREE FOOT (3') DIAMETER BY A MINIMUM SIX (6) INCH THICK, 4000 PSI CONCRETE COLLAR WITH 4x10 GUAGE WIRE MESH OVER THE EXTERIOR OF THE MANHOLE.
 C) ONCE THE CORE HAS BEEN MADE, INSTALL A RUBBER BOOT.



Entry Date: 1/10/03
 Entered by: Suzanne Mills
 10/10-2-2004

AS-BUILT

DON'T DIG BLIND

1-800-382-5544
 800-428-5200
 FOR CALLS OUTSIDE OF INDIANA

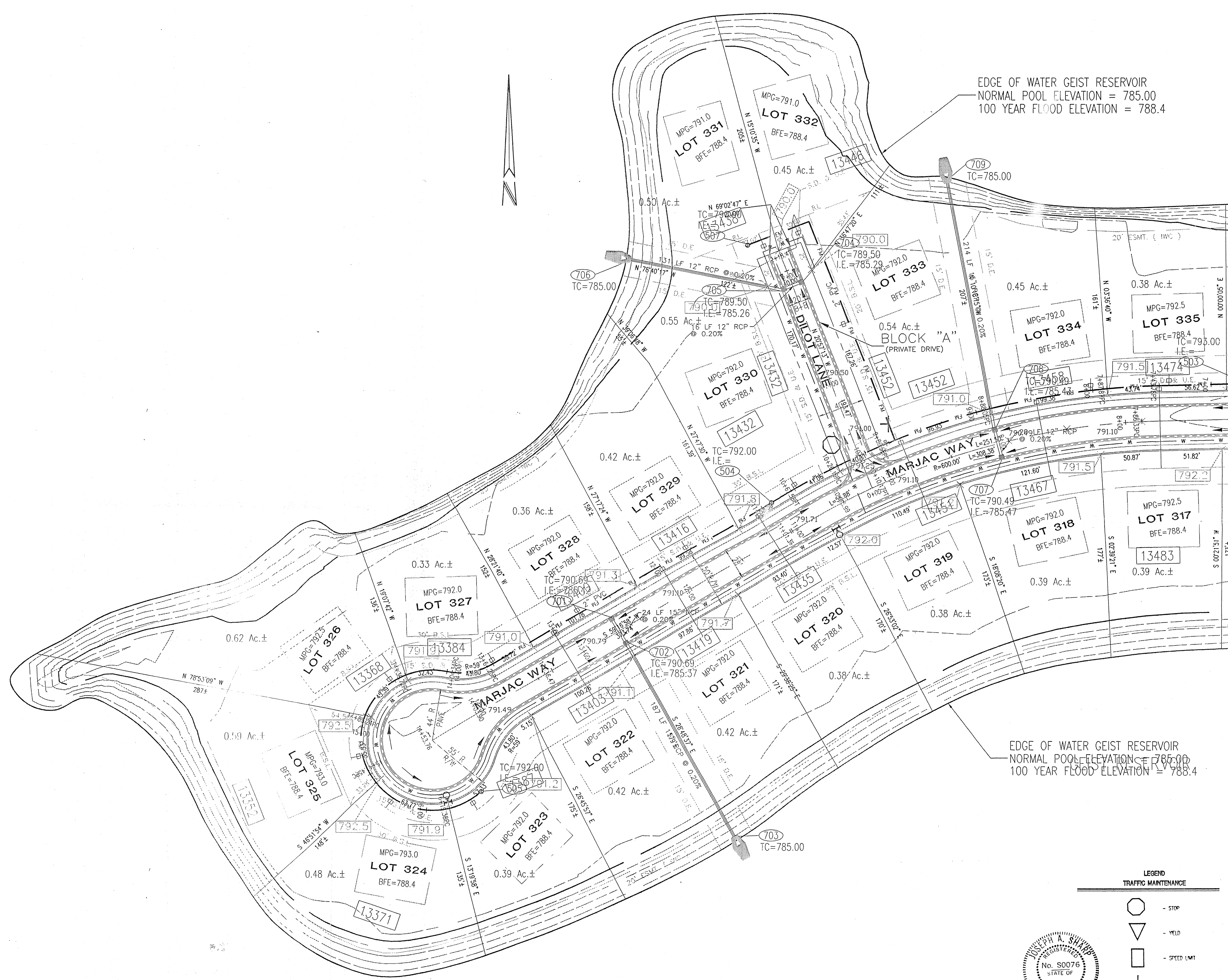
PAUL I. CRIFE, INC.
 7172 GRAHAM ROAD
 INDIANAPOLIS, INDIANA 46250
 842-6777 FAX (317) 841-4798
 E-mail: picrife@picrife.com

ARCHITECTS
 • LANDSCAPE ARCHITECTS
 • ENVIRONMENTAL CONSULTANTS
 • LAND PLANNERS
 • LAND SURVEYORS

STORM PLAN AND PROFILE
 SPRINGS OF CAMBRIDGE, SECTION 8
 MARINA LIMITED PARTNERSHIP
 11631 SALL CREEK RD.
 INDIANAPOLIS, IN 46236

CERTIFIED BY:
 JOSEPH A. SHARP
 REGISTERED PROFESSIONAL ENGINEER
 No. 15179
 STATE OF INDIANA

Drawn By: Joseph A. Sharp
 Checked By:
 Scale: 1" = 40'
C701
 Date: 9-28-99
 Project Number: 0990460



EDGE OF WATER GEIST RESERVOIR
 NORMAL POOL ELEVATION = 785.00
 100 YEAR FLOOD ELEVATION = 788.4

EDGE OF WATER GEIST RESERVOIR
 NORMAL POOL ELEVATION = 785.00
 100 YEAR FLOOD ELEVATION = 788.4

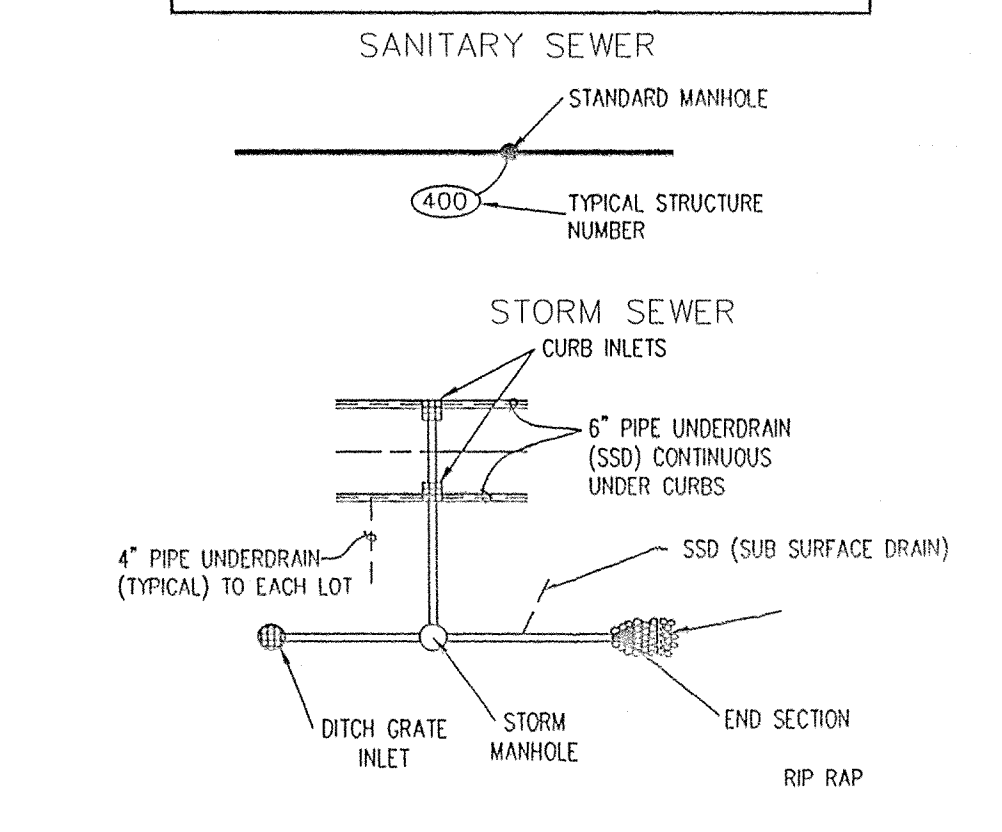
- GRADING NOTES:**
- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
 - ALL TOPSOIL SHALL BE PLACED IN MOUNDING AREAS AND NONSTRUCTURAL FILL AREAS. UPON COMPLETION OF MASS EARTHWORK, TOPSOIL SHALL BE SPREAD TO A DEPTH OF FOUR TO SIX (4 TO 6) INCHES IN AREAS TO BE SEEDDED SUCH AS LAKE SLOPES, MOUND AREAS, AREAS BETWEEN CURB AND CLEARING LIMITS, AND ALL DISTURBED AREAS OUTSIDE OF BUILDING AND PARKING AREAS.
 - STRAW BALE DAMS, SEDIMENT PITS AND SILT FENCES SHALL BE UTILIZED TO CONTROL EROSION. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.
 - EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO MAJOR EARTHWORK, WITHIN THE PROPOSED CONSTRUCTION LIMITS.
 - THE BASE FLOOD ELEVATION (BFE) FOR THIS PROJECT HAS BEEN DETERMINED TO BE 788.4 FEET. THE MINIMUM FINISHED FLOOR ELEVATION INCLUDING BASEMENTS, MUST BE TWO (2) FEET ABOVE THE BFE.
 - SEE STREET PLAN & PROFILE SHEET FOR ADDITIONAL GRADES ON STREET.
 - THE INTENT OF THESE PLANS IS TO USE ALL EXCESS FILL MATERIAL ONSITE. BORROW PITS IN NONSTRUCTURAL FILL AREAS MAY BE UTILIZED TO OBTAIN SUITABLE FILL MATERIAL AND TO DISPOSE OF TOPSOIL.
 - BUILDING PAD AREAS AND STREETS DESIGNATED FOR FILL SHALL BE CONSTRUCTED OF SUITABLE FILL MATERIAL AND COMPACTED PER SPECIFICATIONS. ALL FILL AREAS FOR BUILDING AREAS AND STREETS ARE TO BE STRIPPED OF TOPSOIL PRIOR TO PLACEMENT OF FILL.
 - CONTRACTOR SHALL PRESERVE EXISTING TREES WHEREVER POSSIBLE. OWNER AND OWNER'S REPRESENTATIVE SHALL BE CONSULTED FOR CLEARING LIMITS. CLEARING LIMITS SHALL BE CONSISTENT OF ALL TREES WITHIN STREET AREAS, UTILITY INSTALLATION LIMITS AND CUT FILL AREAS.
 - EARTHWORK BALANCE - THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND THE ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH.
 - MINOR ADJUSTMENTS TO THE GRADES MAY BE REQUIRED TO OBTAIN EARTHWORK BALANCES WHEN MINOR EXCESS MATERIAL OR SHORTAGES ARE ENCOUNTERED. IT IS RECOGNIZED BY THE PARTIES HERETO THAT THE CALCULATIONS OF THE ENGINEER IN DETERMINING EARTHWORK QUANTITIES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARDS FOR SUCH CALCULATIONS. FURTHER, THAT THESE CALCULATIONS ARE SUBJECT TO THE INTERPRETATIONS OF SOIL BORINGS AS THE PHYSICAL LIMITS OF THE VARIOUS SOIL TYPES ALSO ALLOWABLE VARIATION IN FINISH GRADE AND PARAMETERS MAY CAUSE EITHER AN EXCESS OR SHORTAGE OF ACTUAL EARTHWORK MATERIALS TO COMPLETE THE PROJECT. IF SUCH AN ACTUAL EXCESS OR SHORTAGE OF MATERIALS OCCURS, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO DETERMINE IF ADJUSTMENTS CAN BE MADE TO CORRECT THE IMBALANCE OF EARTH.
 - SPOT ELEVATIONS - IF DURING THE CONSTRUCTION OR SURVEY LAYOUT PROCESS IT IS DETERMINED THAT THERE ARE INSUFFICIENT SPOT ELEVATIONS TO PROPERLY CONSTRUCT THE PROJECT OR THE DESIGN GRADES APPEAR TO BE TOO STEEP OR FLAT FOR ONSITE CONDITIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY TO ADJUST OR ADD ADDITIONAL ELEVATIONS AS REQUIRED.
 - THE MINIMUM PAD GRADE (MPG) IS THE FINISHED GRADE ELEVATION ADJACENT TO THE BUILDING, TEN (10) FEET AWAY FROM THE BUILDING. THE ELEVATION SHALL BE SIX (6) INCHES LESS THAN THE MPG TO INSURE PROPER DRAINAGE AWAY FROM THE BUILDING. ELEVATIONS AT THE SIDE YARDS PROVIDES FOR PROPER DRAINAGE TO THE STREET OR YARD SWALES. IT IS IMPORTANT THAT THESE ELEVATIONS BE PROPERLY CONSTRUCTED AND MAINTAINED FOR PROPER DRAINAGE. PAUL I. CRIFE, INC., WILL NOT BE RESPONSIBLE FOR INADEQUATE CONSTRUCTION OR MAINTENANCE OF GRADES AS SHOWN ON THESE PLANS.
 - TOPOGRAPHIC AND PLANIMETRIC INFORMATION FROM PHOTOGRAPHIC COMPILATION BY OTHERS. ACCURACY HAS NOT BEEN TOTALLY CONFIRMED BY PAUL I. CRIFE, INC. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.

THIS ENGINEERED SITE PLAN DOES DISCLOSE THE REQUIRED 100 YEAR FLOOD ELEVATION OR WETLAND RESTRICTIONS IN COMPLIANCE WITH REQUIREMENTS OF THE INDIANA DEPARTMENT OF NATURAL RESOURCES (IDNR), THE U.S. ARMY CORPS OF ENGINEERS (OR THE FLOOD INSURANCE RATE MAPS (FIRM)). THE LOT OWNER OR HIS ENGINEER SHOULD CONSULT THESE SOURCES BEFORE PREPARING SPECIFIC SITE PLANS RELATING TO BUILDING IMPROVEMENTS.

THE HOMEOWNER, BUILDER OR HIS REPRESENTATIVE MUST HAVE A PLOT PLAN PREPARED AND SEALED BY A PROFESSIONAL ENGINEER THAT MEETS ALL THE REQUIREMENTS OF THE PLANNING JURISDICTIONS, FEDERAL AND STATE REQUIREMENTS, LOCAL UTILITIES, COVENANTS AND ANY OTHER ENCUMBRANCES. THIS PLAN, AMONG OTHER ITEMS, SHALL CONSIDER FLOOR LEVELS, STORM ROUTINGS, AND MINIMUM FLOOR ELEVATIONS. GRAVITY SEWER SHALL NOT BE CONSIDERED FOR LOWER LEVELS. PAUL I. CRIFE, INC., SHALL BE HELD HARMLESS IF THESE REQUIREMENTS ARE NOT MET.

ANY CONSTRUCTION BELOW THE 100 YEAR FLOOD ZONE "A" REQUIRES PERMIT FROM FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA). ANY CONSTRUCTION IN FLOODWAY REQUIRES PERMIT FROM INDIANA DEPARTMENT OF NATURAL RESOURCES (IDNR).

NO PAD - MEANS THIS IS A HEAVILY WOODED LOT AND NO PAD FILL REQUIRED BY THE DEVELOPER.
 MPG - (MINIMUM PAD GRADE) MEANS THE DEVELOPER IS TO FILL THE PAD AREA TO THE GRADE SHOWN ON PLANS.
 BFE - (BASE FLOOD ELEVATION) MEANS THE FINISHED GRADE AROUND THE HOME. NO OPENING CAN BE BELOW THE GRADE.
 BFE - (BASE FLOOD ELEVATION) MEANS THE 100 YEAR FLOOD ELEVATION.



LEGEND

TRAFFIC MAINTENANCE	
○	- STOP
▽	- YIELD
□	- SPEED LIMIT
+	- STREET NAME
⊞	- END OF ROAD



Certified 02-13-01
 Joseph A. Sharpe
RECORD DRAWING

- NOTE:**
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DON'T DIG BLIND

CAUTION: LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
 1-800-428-5200
 FOR LABELS CONTACT US IN INDIANA

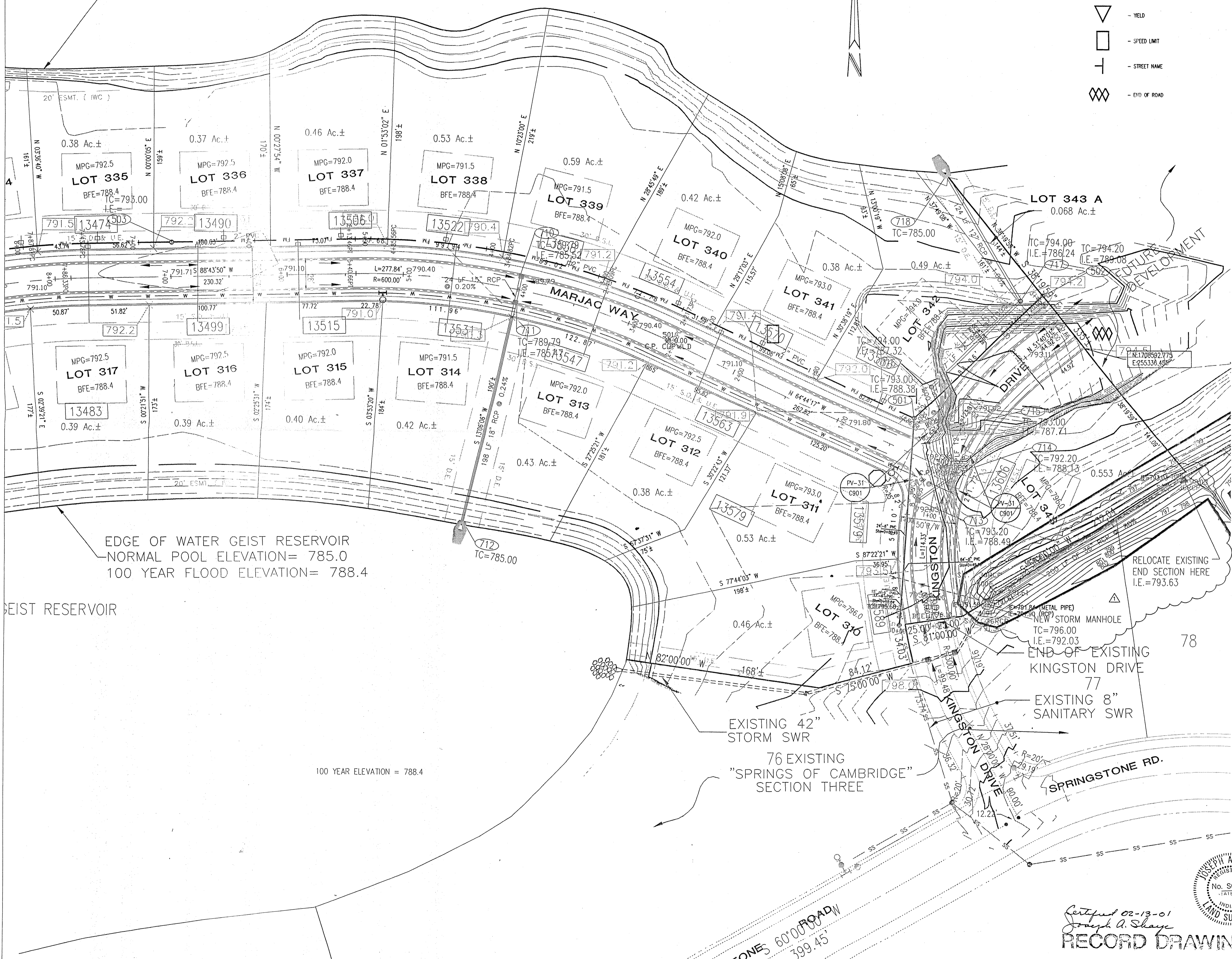
PAUL I. CRIFE, INC.
 7172 GRAHAM ROAD
 INDIANAPOLIS, INDIANA 46250
 842-6777 FAX (317) 841-4798
 E-Mail: paul@pcripe.com

MARINA LIMITED PARTNERSHIP
 11691 FALL CREEK RD
 INDIANAPOLIS, IN 46256
 PHONE: 845-4020 FAX: 845-4026

JOSEPH A. SHARPE
 REGISTERED PROFESSIONAL ENGINEER
 No. 15179
 STATE OF INDIANA

C202
 Date: 9-28-99
 Project Number: 00004

EDGE OF WATER GEIST RESERVOIR
 NORMAL POOL ELEVATION= 785.0
 100 YEAR FLOOD ELEVATION= 788.4



LEGEND

TRAFFIC MAINTENANCE

	- STOP
	- YIELD
	- SPEED LIMIT
	- STREET NAME
	- END OF ROAD

- GRADING NOTES:**
1. ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
 2. ALL TOPSOIL SHALL BE PLACED IN MOUNDING AREAS AND NONSTRUCTURAL FILL AREAS. UPON COMPLETION OF MASS EARTHWORK, TOPSOIL SHALL BE SPREAD TO A DEPTH OF FOUR TO SIX (4 TO 6) INCHES IN AREAS TO BE SEEDDED SUCH AS LAKE SLOPES, MOUND AREAS, AREAS BETWEEN CURBS AND CLEARING LIMITS, AND ALL DISTURBED AREAS OUTSIDE OF BUILDING AND PARKING AREAS.
 3. STRAW BALE DAMS, SEDIMENT PITS AND Silt FENCES SHALL BE UTILIZED TO CONTROL EROSION. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.
 4. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO MAJOR EARTHWORK, WITHIN THE PROPOSED CONSTRUCTION LIMITS.
 5. THE BASE FLOOD ELEVATION (BFE) FOR THIS PROJECT HAS BEEN DETERMINED TO BE 788.40 FEET. THE MINIMUM FINISHED FLOOR ELEVATION INCLUDING BASEMENTS, MUST BE TWO (2) FEET ABOVE THE BFE.
 6. SEE STREET PLAN & PROFILE SHEET FOR ADDITIONAL GRADES ON STREET.
 7. THE INTENT OF THESE PLANS IS TO USE ALL EXCESS FILL MATERIAL ONSITE. BORROW PITS IN NONSTRUCTURAL FILL AREAS MAY BE UTILIZED TO OBTAIN SUITABLE FILL MATERIAL AND TO DISPOSE OF TOPSOIL.
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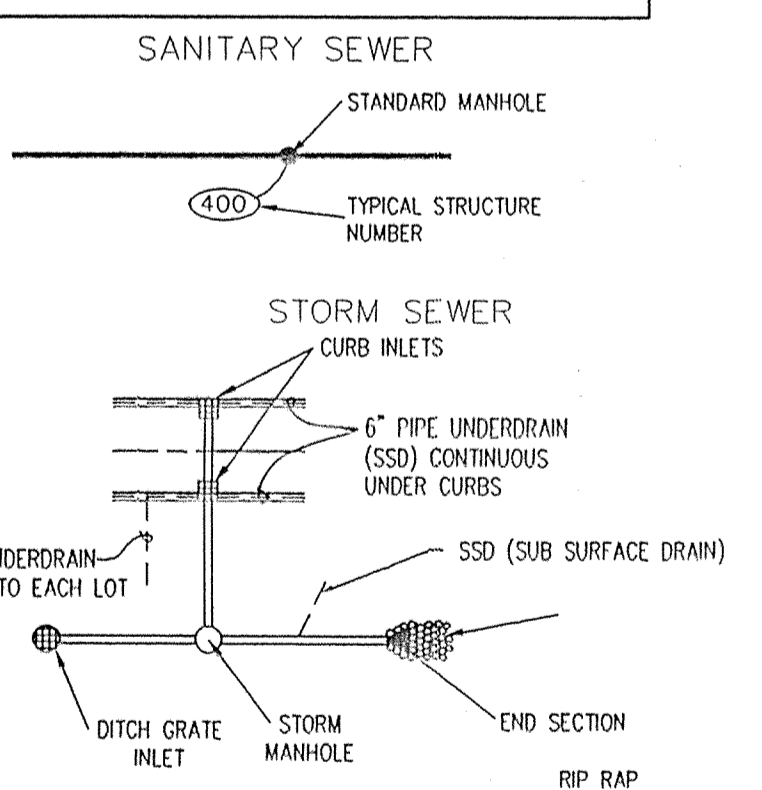
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certified 02-13-01
 Joseph A. Shays
RECORD DRAWING

DON'T DIG BLIND
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 CALL TOLL FREE
 1-800-428-5200
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SITE DEVELOPMENT PLAN
 SPRINGS OF CAMBRIDGE, SECTION 8
 MARINA LIMITED PARTNERSHIP
 1169 T FALL CREEK RD.
 INDIANAPOLIS, IN 46256
 PHONE: 855-4270 FAX: 855-0188

CERTIFIED BY:
 Joseph A. Shays
 REGISTERED PROFESSIONAL ENGINEER
 No. 15179
 STATE OF INDIANA

Drawn By:
 Checked By:
 Quality Assurance:

Scale: 1" = 40'
C201
 Date: 0-2R-00
 Project Number: 0990460-2000