Drain: WHEELER AND WHEELER DRAIN **Drain #:** 25
Improvement/Arm: ARBOR GROVE-SECTION 3
Operator: JOH **Date:** 8-25-04
Drain Classification: **Urban/Rural** **Year Installed:** 2000

GIS Drain Input Checklist

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

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Gasb 34 Footages for Historical Cost
Drain Length Log

Drain-Improvement: WHEELER AND WHEELER DRAIN - ARBOR GROVE - SECTION 3

Drain Type:	Size:	Length SURVEYOR REPORT	Length (DB Query)	Length Reconcile	If Applicable Price:	If Applicable Cost:
SSD	6"	5,593.14'	5,593.14	Ø	$2.00	$11,186.28
RCP	12"	926'	926'	Ø	7.25	6,713.50
	15"	126'	126'	Ø	9.50	1,197.00
	18"	520'	520'	Ø	10.50	5,460.00
	21"	561'	561'	Ø	14.25	7,994.25
	24"	216'	216'	Ø	18.00	3,888.00
	27"	546'	546'	Ø	21.30	11,629.80
	30"	88'	88'	Ø	24.60	2,164.80
	33"	182'	182'	Ø	28.50	5,187.00
	36"	176'	176'	Ø	32.25	5,676.00
	Sum:	8,934.14'	8934.14'	Ø		$61,096.63

Final Report: _____

Comments:

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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 September 6, 2000

Re: Wheeler & Wheeler Drain, Arbor Grove Section 3 Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Arbor Grove Section 3 Arm of the Wheeler & Wheeler 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 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:

6" SSD	5,683 ft	18" RCP	309 ft	27" RCP	273 ft	36" RCP	176 ft
12" RCP	923 ft	21" RCP	324 ft	30" RCP	88 ft		
15" RCP	134 ft	24" RCP	216 ft	33" RCP	152 ft		

The total length of the drain will be 8,278 feet.

The retention pond (lake) #3 located in Common Area D is to be considered part of the regulated drain. The maintenance of the pond (lake), such as mowing and weed control, will be the responsibility of the Homeowners Association. The Board will, however, retain jurisdiction for ensuring the storage volume for which the lake 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. 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.

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Changed to [illegible] at hearing.

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 lot, $10.00 per acre for roadways, with common areas set at $10.00 per acre, with a $65.00 minimum. With this assessment the total annual assessment for this drain/this section will be $4,712.80.

Parcels assessed for this drain may be assessed for the Stoney Creek Drain 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 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. This request is for the reduction of the regulated drain easement to those widths as shown on the secondary plat for Arbor Grove, Section 3 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for October 23, 2000.

Kenton C. Ward
Hamilton County Surveyor

KCW/kkw

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CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Wheeler-Wheeler Drain, Arbor Grove Sec. 3

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 comformity with all plans and specifications .

Signature: Allan H. Weihe Date: 10/31/01

Type or Print Name: Allan H. Weihe

Business Address: 10505 N. College Avenue

Indianapolis, Indiana 46280

Telephone Number: 317-846-6611

SEAL

INDIANA REGISTRATION NUMBER

10398

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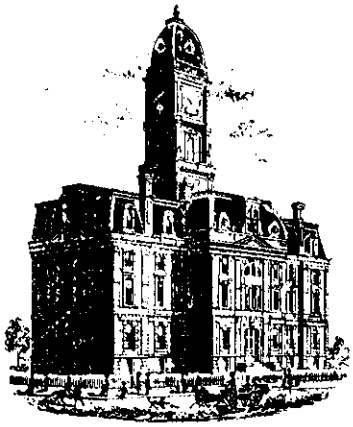

SURVEYOR'S OFFICE

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

April 16, 2004

Re: Wheeler & Wheeler Drain: Arbor Grove Sec. 3 Arm

Attached are as-builts, certificate of completion & compliance, and other information for Arbor Grove Sec. 3. 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 September 6, 2000. The report was approved by the Board at the hearing held November 14, 2000. (See Drainage Board Minutes Book 5, Pages 490-491) The changes are as follows:

Structure:	T.C.:	I.E.:	Pipe:	Length:	Original Plans:	Difference:
750		798.62				
751	803.17	799.87	24	216		
751	803.17	799.87				
752	804.59	800.39	21	135		
752	804.59	800.39				
753	803.86	800.61	21	28		
753	803.86	800.61				
754	803.67	800.97	18	30		
754	803.67	800.97				
755	803.74	801.79	15	126	134	-8
755	803.74	801.79				
756	805.63	803.63	12	325		
759		799.24				
760	809.18	798.63	27	273		
760	809.18	798.63				
761		798.65	27	273		
762		798.65				
763	806.47	800.47	18	149		
763	806.47	800.47				
770	806.38	800.94	12	20		
770	806.38	800.94				
771	806.37	801.87	12	30		
763	806.47	800.47				

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764	805.26	801.56	18	217	209	8
764	805.26	801.56				
765	805.41	801.93	18	32	53	-21
765	805.41	801.93				
766	805.52	802.22	18	62	39	13
766	805.52	802.22				
767	807.78	802.8	12	122	124	-2
767	808.78	802.8				
768	806.42	803.62	12	145	143	2
766	805.52	802.22				
769	805.31	802.51	12	35	52	-17
772		798.6				
773	803.38	799.38	21	161		
773	803.38	799.38				
774	803.65	799.46	18	30		
774	803.65	800.3				
775	802.82	801.02	12	135		
776	798.63					
777	805.5	798.88	36	40		
777	805.5	798.88				
778	807.33	799.18	36	136		
778	807.33	799.18				
779	807.23	799.33	33	30		
779	807.23	799.33				
780	807.91	799.41	33	30		
780	807.91	799.41				
781	805.66	799.96	33	122		
781	805.66	799.96				
782	805.27	800.77	30	88		
782	805.27	800.77				
795	805.91	802.08	12	84		
795	805.91	802.08				
796	806.09	802.84	12	30		
781	805.66	799.96				
797	808.35	804.45	21	237		

6" SSD Streets:

Concert Way	832.34
Arbor Grove Boulevard	866.42
Tenor Way	709.28
Symphony Boulevard	388.53
Totalx2:	5593.14

RCP Pipe Totals:

12	926
15	126
18	520
21	561
24	216
27	546
30	88
33	182
36	176
Total:	3341

The length of the drain due to the changes described above is now **8934.14 feet.**

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The non-enforcement was approved by the Board at its meeting on November 14, 2000 and recorded under instrument #200100069285.

Sureties were not obtained for this project.

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

Sincerely,

Kenton C. Ward,
Hamilton County Surveyor

KCW/slm

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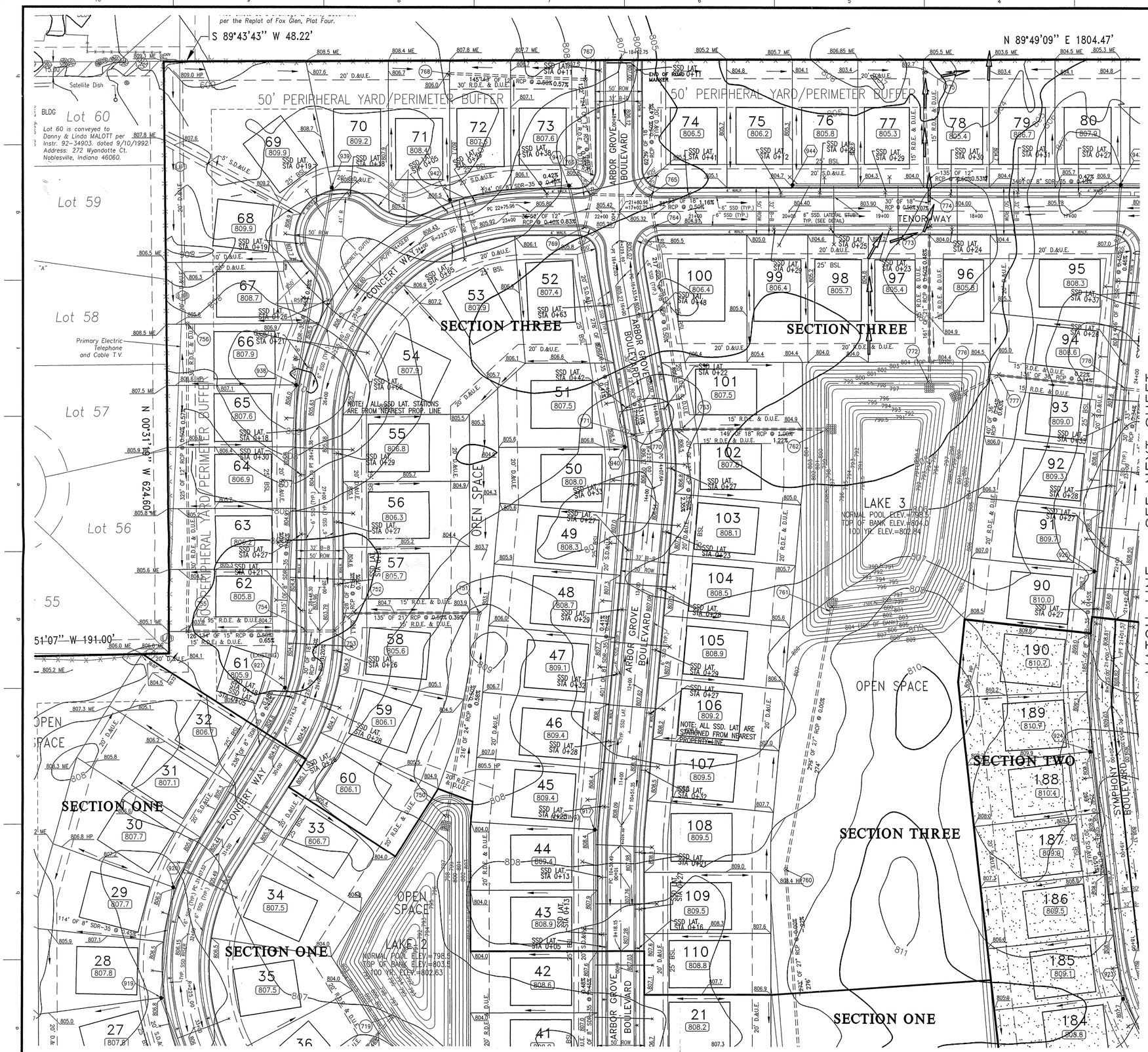

SCALE: 1" = 50'

0 25 50 100

LEGEND

- = RIGHT-OF-WAY LINE
- = STORM SEWER LINE
- = SWALE
- = SANITARY SEWER LINE
- = SANITARY SEWER MANHOLE
- = SANITARY SEWER LATERAL
- = FLOW DIRECTION
- 892.67 = EXISTING SPOT ELEVATION
- = EXISTING CONTOURS
- 000.0 = PROPOSED ELEVATION
- = STORM BEEHIVE INLET
- = STORM INLET
- T.C. = TOP OF CASTING
- INV. = INVERT
- RCP = REINFORCED CONCRETE PIPE
- M.H. = MANHOLE
- STR. = STRUCTURE
- D. & U.E. = DRAINAGE AND UTILITY EASEMENT
- S.D. & U.E. = SANITARY, DRAINAGE, AND UTILITY EASEMENT
- SAN = SANITARY SEWER
- H.C. = HANDICAP RAMP
- M.E. = MATCH EXISTING GRADE
- = SUBSURFACE DRAIN AND SUMP LINE
- STM = STORM SEWER
- = GRANULAR BACKFILL
- = CONCRETE END SECTION
- S.S.D. = SUBSURFACE DRAIN
- S.S.P. = SANITARY SEWER PIPE (SDR-35)
- S.S.P.(D.I.) = SANITARY SEWER PIPE (DUCTILE IRON)
- = NORMAL POOL ELEVATION
- 000.0 = PROPOSED PAD ELEVATION
- MPE = MINIMUM PAD ELEVATION
- TYP. = TYPICAL
- PROP. = PROPOSED
- EX. = EXISTING
- R. = RADIUS
- X = SANITARY SEWER LATERALS AS-BUILT LOCATION
- X = SUB SURFACE DRAIN LATERALS AS-BUILT LOCATION
- = DIRECTION OF EMERGENCY OUTLET
- = EXISTING SECTION ONE & TWO

NOTES:

1.) SIDEWALKS TO BE INSTALLED AS SHOWN ON THIS PLAN

2.) CURB UNDERDRAINS WILL BE INSTALLED THROUGHOUT THIS ENTIRE PROJECT.

3.) 2' ROLLED CURB & GUTTER SHALL BE INSTALLED THROUGHOUT ENTIRE PROJECT AS SHOWN UNLESS NOTED OTHERWISE.

4.) A HANDICAPPED RAMP IS TO BE INSTALLED AT ALL LOCATIONS WHERE A SIDEWALK IS SHOWN INTERSECTING A CURB.

5.) CONTRACTOR TO DESIGNATE SANITARY LATERAL ENDS WITH A WOODEN 2"X4" ABOVE GROUND PAINTED BRIGHT GREEN STAKE.

6.) ANY DRAINAGE TILE SYSTEM COMING ONTO ARBOR GROVE DEVELOPMENT SHALL BE CONNECTED INTO THE PROPOSED DRAINAGE SYSTEM IN ORDER TO MAINTAIN POSITIVE DRAINAGE FOR THE OFFSITE SYSTEM.

7.) THE LOWEST FLOOR ELEVATION RECEIVING GRAVITY SERVICE MUST BE A MINIMUM OF ONE FOOT ABOVE THE TOP OF CASTING OF THE NEAREST SANITARY MANHOLE, OR A GRINDER PUMP SHALL BE REQUIRED.

8.) THE FINISHED FLOOR ELEVATION SHALL BE 12" ABOVE THE PAD ELEVATION.

GENERAL NOTES:

1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.

2) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.

3) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.

4) ALL QUANTITIES GIVEN ON THESE PRINTS,VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.

5) 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.

6) IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.

7) IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.

8) TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.

9) BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.

10) DO NOT STAKE HOMES FROM THESE PLANS, SEE PLOT PLANS FOR DETAILS OF HOMES AND DIMENSIONS.

11) END OF ROAD MARKER IS TO BE PLACED AT ALL STUB STREETS.

RECORD DRAWING

STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
SECTION 3 ONLY
6/13/01

RECORD DRAWING

SANITARY SEWER AS-BUILTS
SANITARY SEWER STRUCTURES ONLY
SECTION 3 ONLY
6/13/01

FILED
OCT 31 2001
OFFICE OF HAMILTON COUNTY SURVEYOR

WEIHE ENGINEERS, INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE (800) 452-6408
ALLAN H. WEIHE, P.E., L.S.
PRESIDENT
CIVIL ENGINEERS * LAND SURVEYORS * LAND PLANNERS * LANDSCAPE ARCHITECTS

REVISIONS	DATE	BY
MINOR REVISIONS TO STORM	6/21/00	DAC/DLH
REVISED TO STORM	8/30/00	EAC
STORM SEWER AS-BUILTS - SECTION 3 ONLY	6/13/01	EAC
SANITARY SEWER AS-BUILTS - SECTION 3 ONLY	6/13/01	EAC

PROJECT NO: 99-0386
DWG. NAME: 990386EX1
FIELD BY:
DRAWN BY: DAC, EAC
CHECKED BY: ALM
DATE: 5/17/00

REGISTERED NO. 8827 STATE OF INDIANA PROFESSIONAL ENGINEER
ALLAN H. WEIHE P.E. 8827

PREPARED FOR:
ARBOR GROVE SECTION THREE
BAY DEVELOPMENT CORP.
DEVELOPMENT PLAN
Part of the E/2 of the SW/4 and W/2 of the SE/4 of Sec. 8-T18N-R5E, Noblesville Twp., Hamilton Co., Indiana.

SHEET NO. 4

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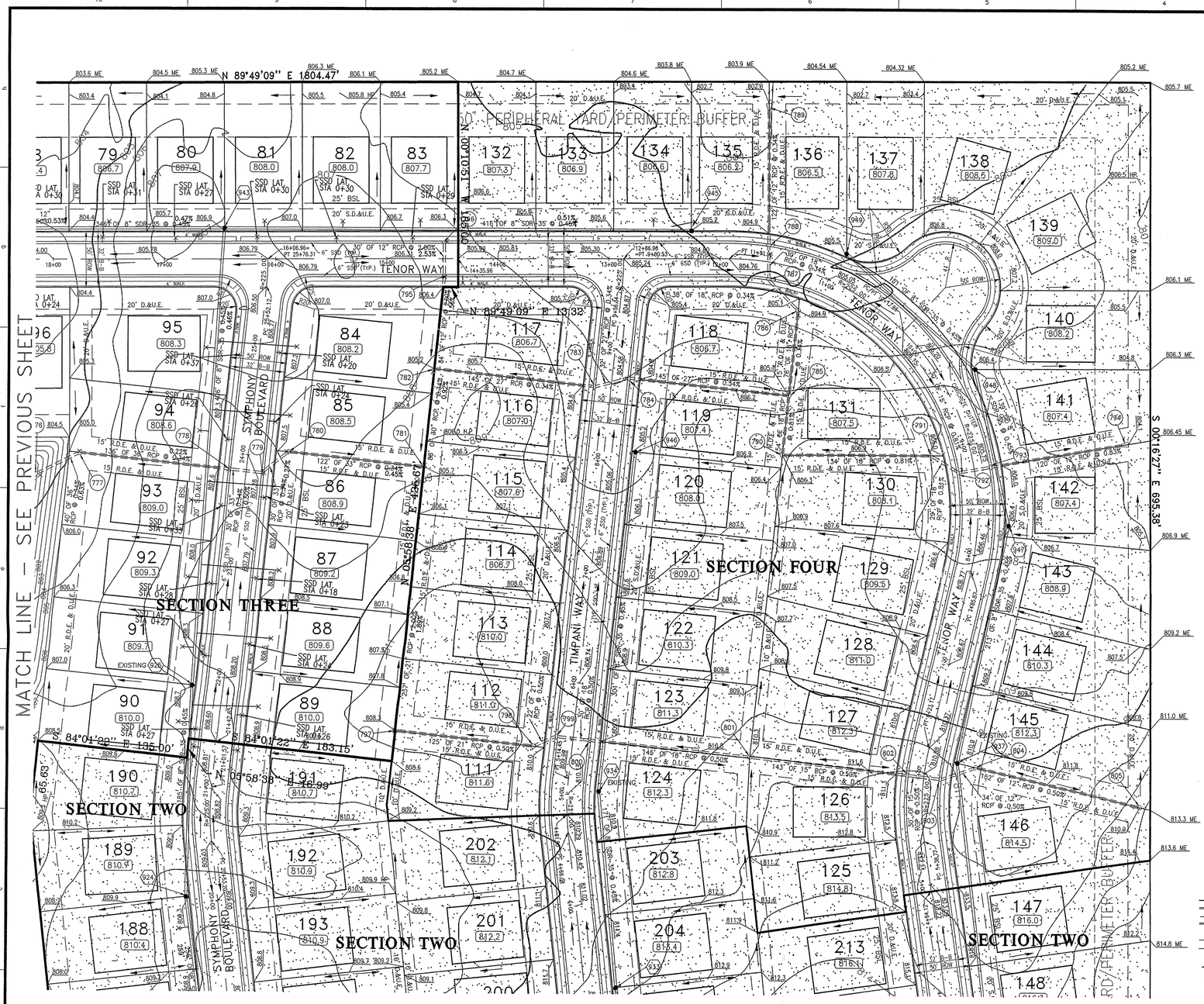
File name: H:\99\990386\Section2\990386EX1



STORM SEWER STRUCTURE TABLE (700)				
STRUCTURE NUMBER	STRUCTURE TYPE	CASTING TYPE	TOP OF CASTING	INVERT
750	CES	NONE	N/A	~~798.50~~ 798.62
751	MANHOLE	BEEHIVE	~~803.10~~ 803.17	~~799.54~~ 799.87
752	MANHOLE	SOLID	~~804.40~~ 804.59	~~800.21~~ 800.39
753	INLET	CURB	~~803.76~~ 803.86	~~800.35~~ 800.61
754	INLET	CURB	~~803.76~~ 803.67	~~800.50~~ 800.97
755	MANHOLE	BEEHIVE	~~803.80~~ 803.74	~~801.80~~ 801.79
756	MANHOLE	BEEHIVE	~~805.60~~ 805.63	~~803.13~~ 803.63
759	CES	NONE	N/A	~~798.50~~ 799.24
760	MANHOLE	SOLID	~~809.00~~ 809.18	~~798.50~~ 798.63
761	CES	NONE	N/A	~~798.50~~ 798.65
762	CES	NONE	N/A	~~798.50~~ 798.65
763	MANHOLE	~~SOLID~~ BEEHIVE	~~806.80~~ 806.47	~~799.99~~ 800.47
764	INLET	CURB	~~804.96~~ 805.26	~~801.02~~ 801.56
765	INLET	CURB	~~805.14~~ 805.41	~~801.28~~ 801.93
766	INLET	CURB	~~805.14~~ 805.52	~~801.47~~ 802.22
767	MANHOLE	SOLID	~~807.50~~ 807.78	~~802.47~~ 802.80
768	MANHOLE	BEEHIVE	~~806.00~~ 806.42	~~803.19~~ 803.62
769	INLET	CURB	~~804.96~~ 805.31	~~801.68~~ 802.51
770	MANHOLE	CURB	~~806.17~~ 806.38	~~800.63~~ 800.94
771	MANHOLE	CURB	~~806.17~~ 806.37	~~801.23~~ 801.87
772	CES	NONE	N/A	~~798.50~~ 798.60
773	MANHOLE	CURB	~~803.70~~ 803.38	~~799.31~~ 799.38
774	MANHOLE	CURB	~~803.70~~ 803.65	799.46(S) ~~800.27~~(N) 800.30
775	MANHOLE	BEEHIVE	~~802.70~~ 802.82	~~800.95~~ 801.02
776	CES	NONE	N/A	~~798.50~~ 798.63
777	MANHOLE	SOLID	~~805.30~~ 805.50	~~798.64~~ 798.88
778	MANHOLE	CURB	~~807.35~~ 807.33	~~799.10~~ 799.18
779	MANHOLE	CURB	~~807.35~~ 807.23	~~799.20~~ 799.33
780	MANHOLE	SOLID	~~807.80~~ 807.91	~~799.30~~ 799.41
781	MANHOLE	BEEHIVE	~~805.70~~ 805.66	~~799.72~~ 799.96
782	MANHOLE	BEEHIVE	~~805.20~~ 805.27	~~800.02~~ 800.77
~~783~~	~~INLET~~	~~CURB~~	~~804.48~~	~~800.51~~
~~784~~	~~INLET~~	~~CURB~~	~~804.48~~	~~800.62~~
~~785~~	~~MANHOLE~~	~~BEEHIVE~~	~~805.70~~	~~801.11~~
~~786~~	~~MANHOLE~~	~~BEEHIVE~~	~~804.90~~	~~801.37~~
~~787~~	~~INLET~~	~~CURB~~	~~804.64~~	~~801.50~~
~~788~~	~~INLET~~	~~CURB~~	~~804.64~~	~~801.60~~
~~789~~	~~CES~~	~~NONE~~	~~N/A~~	~~802.00~~
~~790~~	~~MANHOLE~~	~~BEEHIVE~~	~~806.30~~	~~801.55~~
~~791~~	~~MANHOLE~~	~~SOLID~~	~~806.30~~	~~802.64~~
~~792~~	~~INLET~~	~~CURB~~	~~805.68~~	~~802.87~~
~~793~~	~~INLET~~	~~CURB~~	~~805.68~~	~~803.11~~
~~794~~	~~CES~~	~~NONE~~	~~N/A~~	~~804.10~~
795	INLET	CURB	~~806.05~~ 805.91	~~801.69~~ 802.08
796	INLET	CURB	~~806.05~~ 806.09	~~802.29~~ 802.84
797	MANHOLE	BEEHIVE	~~808.30~~ 808.35	~~804.46~~ 804.45
~~798~~	~~MANHOLE~~	~~SOLID~~	~~810.30~~	~~805.09~~
~~799~~	~~MANHOLE~~	~~CURB~~	~~809.55~~	~~805.20~~
~~800~~	~~MANHOLE~~	~~CURB~~	~~809.55~~	~~805.35~~
~~801~~	~~MANHOLE~~	~~BEEHIVE~~	~~810.30~~	~~806.08~~
~~802~~	~~MANHOLE~~	~~SOLID~~	~~810.96~~	~~806.80~~
~~803~~	~~MANHOLE~~	~~CURB~~	~~810.96~~	~~806.95~~
~~804~~	~~MANHOLE~~	~~SOLID~~	~~811.20~~	~~807.12~~
~~805~~	~~MANHOLE~~	~~BEEHIVE~~	~~810.90~~	~~807.88~~

SANITARY SEWER STRUCTURE TABLE (900)			
STRUCTURE NUMBER	TOP OF CASTING	INVERT (IN)	INVERT (OUT)
917 (EX. SEC. 1)	~~808.70~~ 808.25	~~795.99~~ 795.94	~~795.89~~ 795.84
921 (EX. SEC. 1)	~~804.80~~ 805.33	~~798.94~~ 799.13	~~798.84~~ 799.03
925 (EX. SEC. 1)	~~809.00~~ 809.15	~~794.51~~ 794.30	~~794.41~~ 794.20
934 (EX. SEC. 1)	810.70	797.15	797.05
937 (EX. SEC. 1)	811.20	796.33	796.23
938	~~806.30~~ 806.12	~~800.46~~ 800.49	~~800.36~~ 800.39
939	~~808.40~~ 808.42	N/A	~~801.40~~ 801.48
940	~~806.80~~ 806.56	~~797.69~~ 797.70	~~797.79~~ 797.60
941	~~806.20~~ 805.95	~~799.21~~ 798.93	~~799.11~~ 798.83
942	~~806.80~~ 806.64	N/A	~~799.80~~ 799.45
943	~~807.20~~ 807.22	~~796.44~~(W) 796.27 ~~796.63~~(E) 796.27	~~796.34~~(S) 796.17
944	~~805.00~~ 805.00	N/A	~~798.00~~ 797.90
945	~~805.50~~ 805.50	N/A	~~798.50~~ 798.40
~~946~~	~~805.50~~	~~N/A~~	~~798.50~~
~~947~~	~~806.76~~	~~797.39~~	~~797.29~~
~~948~~	~~806.78~~	~~798.12~~	~~798.02~~
~~949~~	~~805.86~~	~~N/A~~	~~798.80~~

GENERAL NOTES:

1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.

2) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.

3) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.

4) ALL QUANTITIES GIVEN ON THESE PRINTS,VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.

5) 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.

6) IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.

7) IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.

8) TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.

9) BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.

10) DO NOT STAKE HOMES FROM THESE PLANS, SEE PLOT PLANS FOR DETAILS OF HOMES AND DIMENSIONS.

11) END OF ROAD MARKER IS TO BE PLACED AT ALL STUB STREETS.

NOTES:

1.) SIDEWALKS TO BE INSTALLED AS SHOWN ON THIS PLAN

2.) CURB UNDERDRAINS WILL BE INSTALLED THROUGHOUT THIS ENTIRE PROJECT.

3.) 2' ROLLED CURB & GUTTER SHALL BE INSTALLED THROUGHOUT ENTIRE PROJECT AS SHOWN UNLESS NOTED OTHERWISE.

4.) A HANDICAPPED RAMP IS TO BE INSTALLED AT ALL LOCATIONS WHERE A SIDEWALK IS SHOWN INTERSECTING A CURB.

5.) CONTRACTOR TO DESIGNATE SANITARY LATERAL ENDS WITH A WOODEN 2"x4" ABOVE GROUND PAINTED BRIGHT GREEN STAKE.

6.) ANY DRAINAGE TILE SYSTEM COMING ONTO ARBOR GROVE DEVELOPMENT SHALL BE CONNECTED INTO THE PROPOSED DRAINAGE SYSTEM IN ORDER TO MAINTAIN POSITIVE DRAINAGE FOR THE OFFSITE SYSTEM.

7.) THE LOWEST FLOOR ELEVATION RECEIVING GRAVITY SERVICE MUST BE A MINIMUM OF ONE FOOT ABOVE THE TOP OF CASTING OF THE NEAREST SANITARY MANHOLE, OR A GRINDER PUMP SHALL BE REQUIRED.

8.) THE FINISHED FLOOR ELEVATION SHALL BE 12" ABOVE THE PAD ELEVATION.

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
SECTION 3 ONLY
6/13/01

RECORD DRAWING
SANITARY SEWER AS-BUILTS
SANITARY SEWER STRUCTURES ONLY
SECTION 3 ONLY
6/13/01

SCALE: 1" = 50'
0 25 50 100

LEGEND

= RIGHT-OF-WAY LINE
= STORM SEWER LINE
= SWALE
= SANITARY SEWER LINE
= SANITARY SEWER MANHOLE
= SANITARY SEWER LATERAL
= FLOW DIRECTION
892.67 = EXISTING SPOT ELEVATION
= EXISTING CONTOURS
000.0 = PROPOSED ELEVATION
o = STORM BEEHIVE INLET
o = STORM INLET
T.C. = TOP OF CASTING
INV. = INVERT
RCP = REINFORCED CONCRETE PIPE
M.H. = MANHOLE
STR. = STRUCTURE
D. & U.E. = DRAINAGE AND UTILITY EASEMENT
S.D. & U.E. = SANITARY, DRAINAGE, AND UTILITY EASEMENT
SAN = SANITARY SEWER
H.C. = HANDICAP RAMP
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= SUBSURFACE DRAIN AND SUMP LINE
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S.S.D. = SUBSURFACE DRAIN
S.S.P. = SANITARY SEWER PIPE (SDR-35)
S.S.P.(D.I.) = SANITARY SEWER PIPE (DUCTILE IRON)
= NORMAL POOL ELEVATION
000.0 = PROPOSED PAD ELEVATION
MPE = MINIMUM PAD ELEVATION
TYP. = TYPICAL
PROP. = PROPOSED
EX. = EXISTING
R. = RADIUS
X = SANITARY SEWER LATERALS AS-BUILT LOCATION
X = SUB SURFACE DRAIN LATERALS AS-BUILT LOCATION
= SECTION TWO

SANITARY SEWER NOTES:

1.) THIS PLAN IS INDICATING SANITARY SEWER LATERALS TO STOP NO CLOSER THAN 5 FEET FROM THE BUILDING LINE. AT NO TIME SHALL THE CONTRACTOR EXCAVATE PAST THE BUILDING LINE DURING INSTALLATION OF ANY UTILITIES. IF EXCAVATION IS REQUIRED PAST THE BUILDING LINE, MATERIAL SHALL BE REPLACED AND COMPACTED TO 95% STANDARD PROCTOR. THIS IS INTENDED TO PREVENT ANY STRUCTURAL SETTLING WITHIN THE BUILDABLE AREA OF ALL LOTS. SANITARY LATERALS ARE TO BE INSTALLED AT NO GREATER THAN 45 DEGREE ANGLE COMING FROM THE MAIN.

2.) ALL DROP STRUCTURES MUST BE AN OUTSIDE DROP. INSIDE DROP CONNECTIONS ARE NOT ALLOWED.

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WEIHE ENGINEERS, INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
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TOLL-FREE (800) 452-6408
ALLAN H. WEIHE, P.E., L.S.
PRESIDENT
CIVIL ENGINEERS * LAND SURVEYORS * LAND PLANNERS * LANDSCAPE ARCHITECTS

DATE	BY	PROJECT NO: 99-0386
6/21/00	DH/BH	DWG NAME: 990386S2
8/8/00	EAC	FIELD BY:
6/13/01	EAC	DRAWN BY: EAC
6/13/01	EAC	CHECKED BY: MLM
		DATE: 5/17/00

REVISIONS
MINOR REVISIONS
MINOR REVISIONS
MINOR REVISIONS TO STORM
STORM SEWER AS-BUILTS – SECTION 3 ONLY
SANITARY SEWER AS-BUILTS – SECTION 3 ONLY

ALLAN H. WEIHE
REGISTERED NO. 8827
STATE OF INDIANA
PROFESSIONAL ENGINEER
ALLAN H. WEIHE P.E. 8827

PREPARED FOR:
BAY DEVELOPMENT CORP.

ARBOR GROVE SECTION THREE

DEVELOPMENT PLAN

Part of the E/2 of the SW/4 and W/2 of the SE/4 of Sec. 8–T18N–R5E, Noblesville Twp., Hamilton Co., Indiana.

SHEET NO. 5

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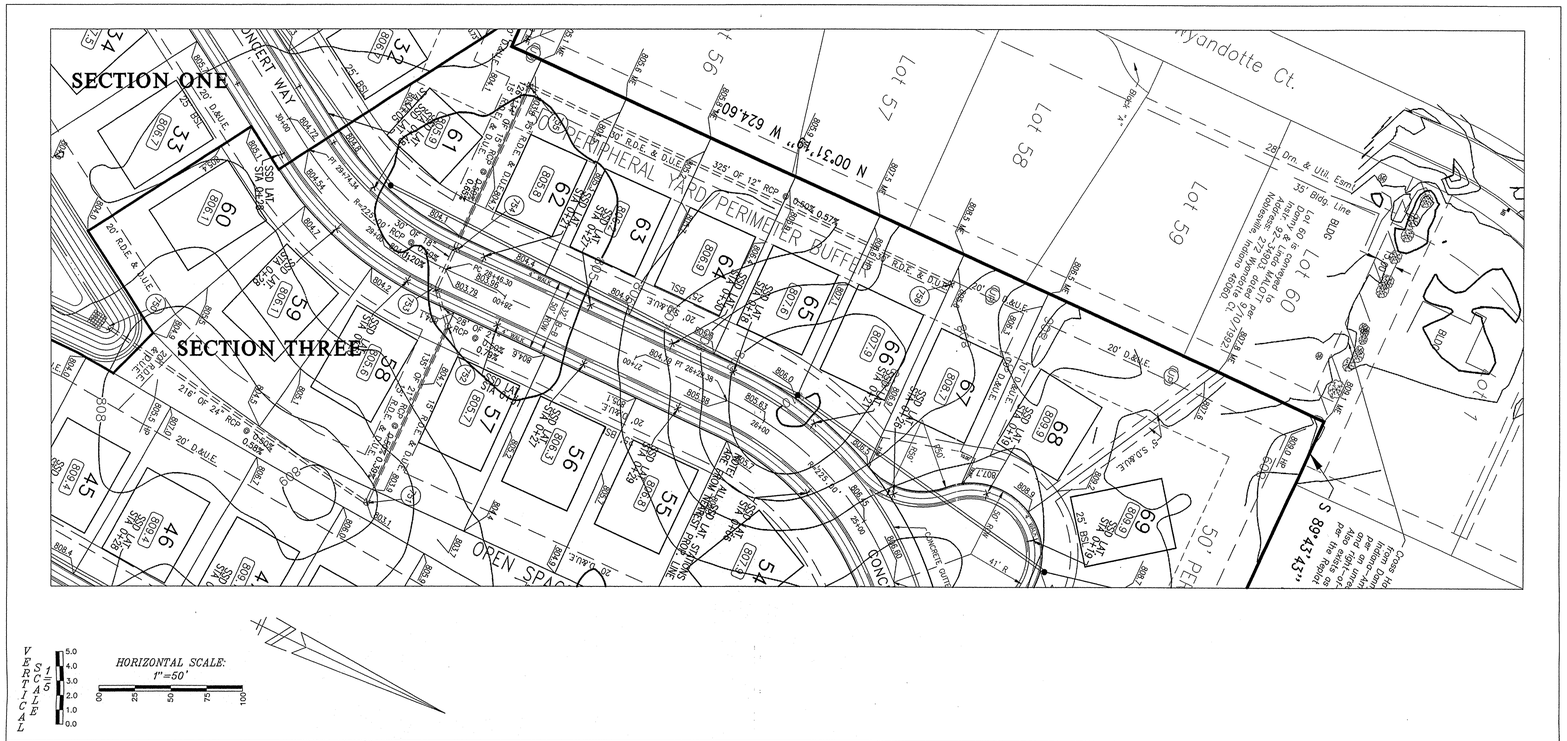
File name: H:\99\990386\Section0\990386S2V2



LEGEND

- = RIGHT-OF-WAY LINE
- = STORM SEWER LINE
- = SWALE
- = SANITARY SEWER LINE
- = SANITARY SEWER MANHOLE
- = SANITARY SEWER LATERAL
- = FLOW DIRECTION
- 892.67 = EXISTING SPOT ELEVATION
- = EXISTING CONTOURS
- 000.0 = PROPOSED ELEVATION
- o = STORM BEEHIVE INLET
- = STORM INLET
- T.C. = TOP OF CASTING
- INV. = INVERT
- RCP = REINFORCED CONCRETE PIPE
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- EX. = EXISTING
- R. = RADIUS
- X = SUB SURFACE DRAIN LATERALS AS-BUILT LOCATION
- = SECTION ONE

RECORD DRAWING

STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
SECTION 3 ONLY
6/13/01

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ALLAN H. WEIHE, P.E., L.S.
PRESIDENT

PROJECT NO.:	99-0386
DWG NAME:	990386STM1.DWG
FIELD BY:	
DRAWN BY:	DLH / EAC
CHECKED BY:	MLM
DATE:	5/17/00

REVISIONS	DATE	BY
MINOR REVISIONS	6/21/00	DLH
STORM SEWER AS-BUILTS - SECTION 3 ONLY	6/13/01	EAC

ALLAN H. WEIHE REGISTERED NO. 8827 STATE OF INDIANA PROFESSIONAL ENGINEER
ALLAN H. WEIHE P.E. 8827

PREPARED FOR:
ARBOR GROVE SECTION THREE
BAY DEVELOPMENT CORP.
STORM PLAN & PROFILE SHEET
Part of the E/2 of the SW/4 and W/2 of the SE/4 of Sec. 8-T18N-R5E; Noblesville Twp., Hamilton Co., Indiana.

SHEET NO.
11

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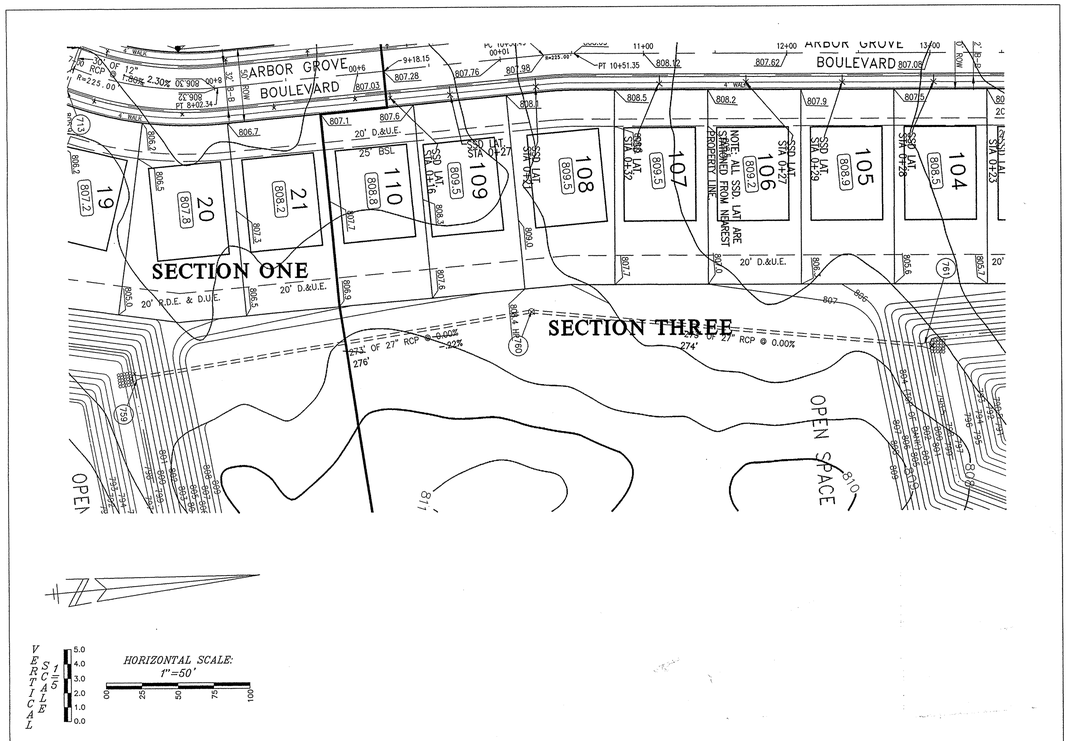

LEGEND

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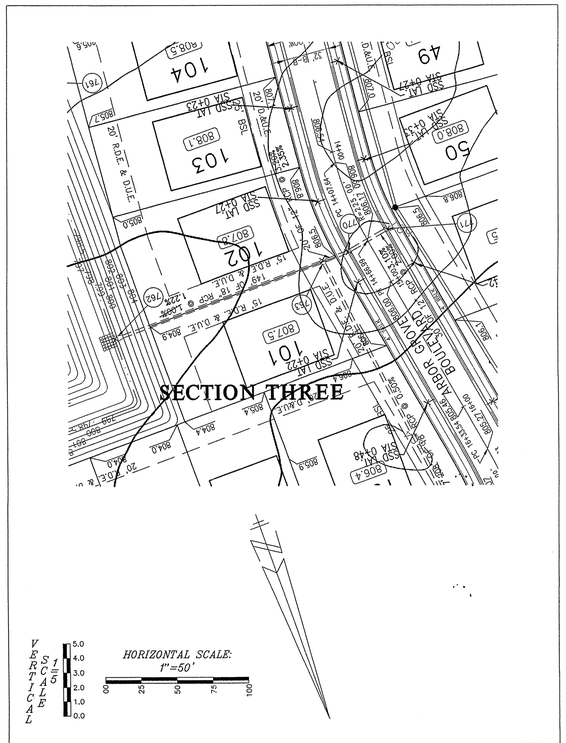
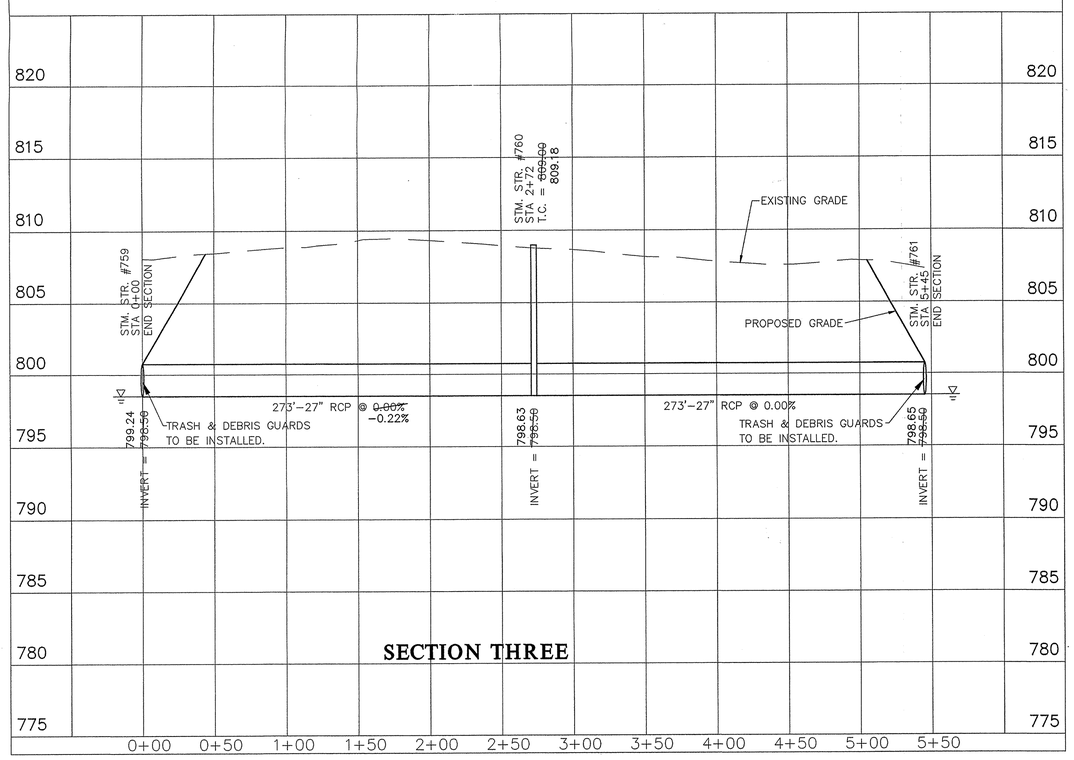
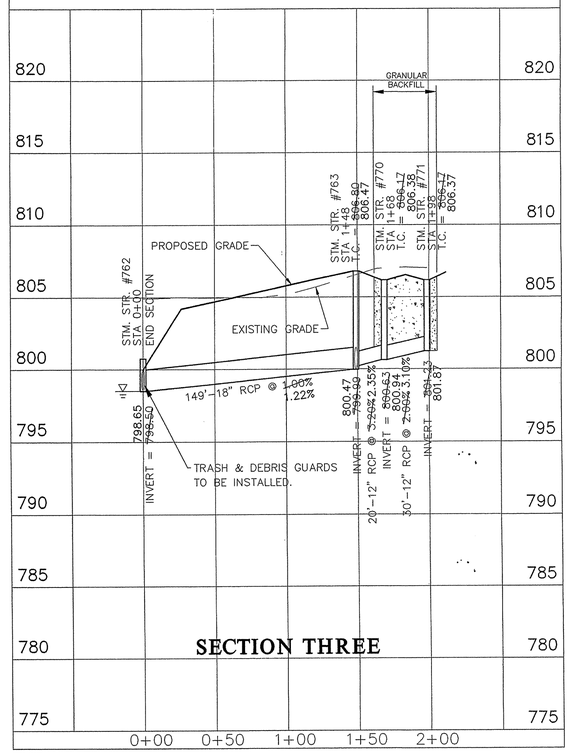
RECORD DRAWING

STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
SECTION 3 ONLY
6/13/01







HAMILTON COUNTY INDIANA 1823

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TOLL-FREE (800) 452-6408
ALLAN H. WEIHE, P.E., L.S.
PRESIDENT
CIVIL ENGINEERS * LAND SURVEYORS * LAND PLANNERS * LANDSCAPE ARCHITECTS

PROJECT NO.:	99-0366
DWG NAME:	99366RECDWG
FIELD BY:	
DRAWN BY:	DJM, EAC
CHECKED BY:	MJM
DATE:	5/17/00

REVISIONS	DATE	BY
MINOR REVISIONS	6/21/00	DAC/DJM
MINOR REVISIONS	8/9/00	EAC
STORM SEWER AS-BUILTS - SECTION 3 ONLY	6/13/01	EAC

ALLAN H. WEIHE REGISTERED NO. 8827 STATE OF INDIANA PROFESSIONAL ENGINEER

ALLAN H. WEIHE P.E. 8827

PREPARED FOR:

ARBOR GROVE SECTION THREE

BAY DEVELOPMENT CORP.

STORM PLAN & PROFILE SHEET

Part of the E/2 of the SW/4 and W/2 of the SE/4 of Sec. 8-T18N-R5E; Noblesville Twp., Hamilton Co., Indiana.

SHEET NO. 12

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- = STORM SEWER LINE
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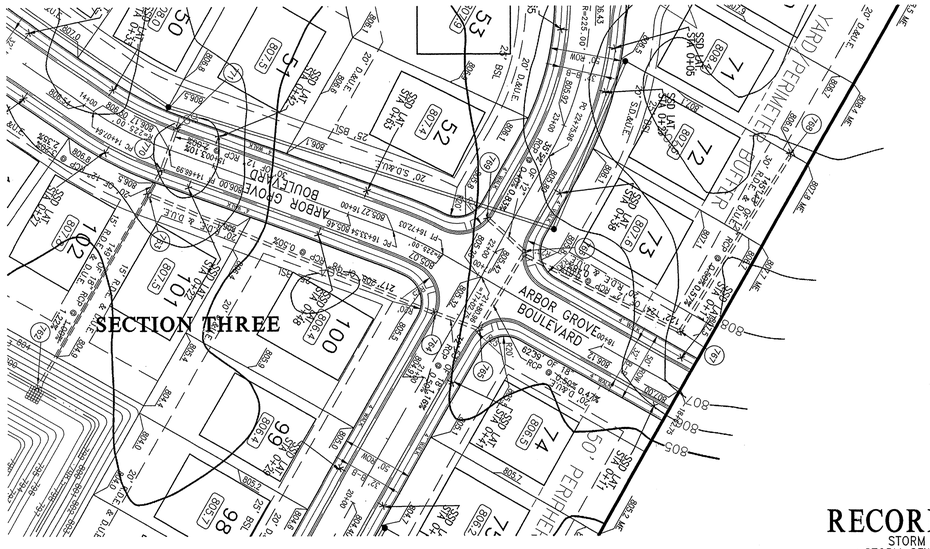
- EX. = EXISTING
- R. = RADIUS
- X = SUB SURFACE DRAIN LATERALS AS-BUILT LOCATION

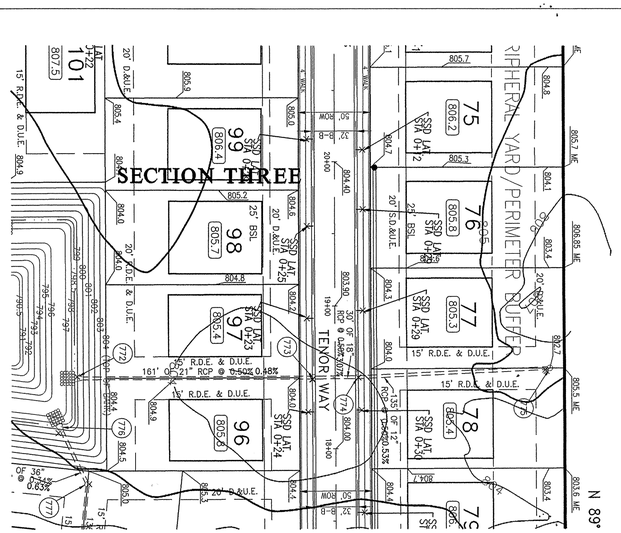


RECORD DRAWING

STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
SECTION 3 ONLY
6/13/01

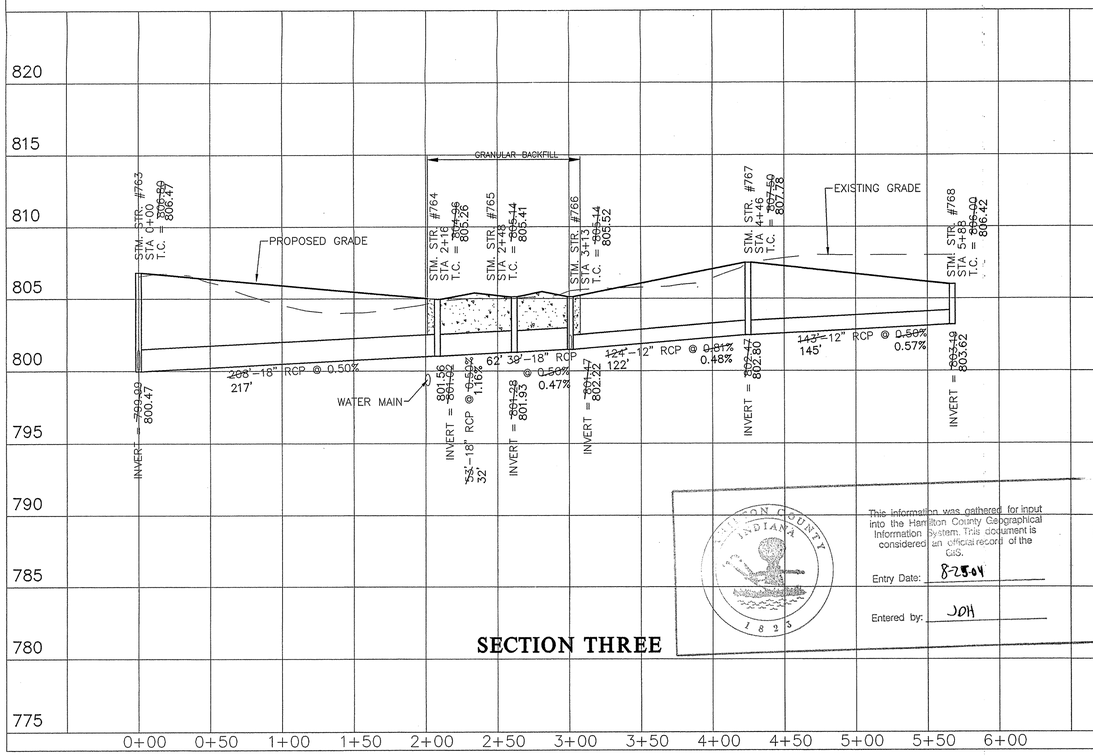
VERTICAL SCALE 1"=5'

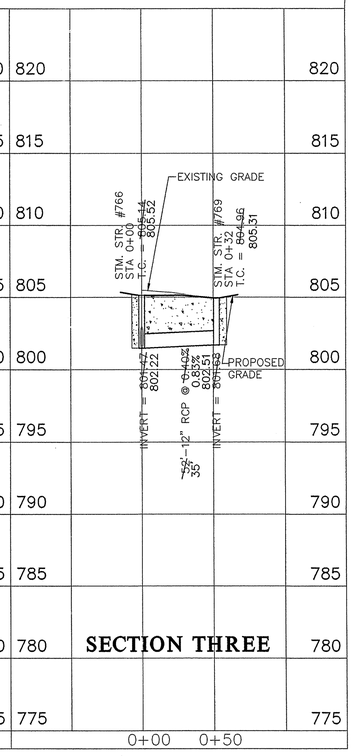
HORIZONTAL SCALE: 1"=50'

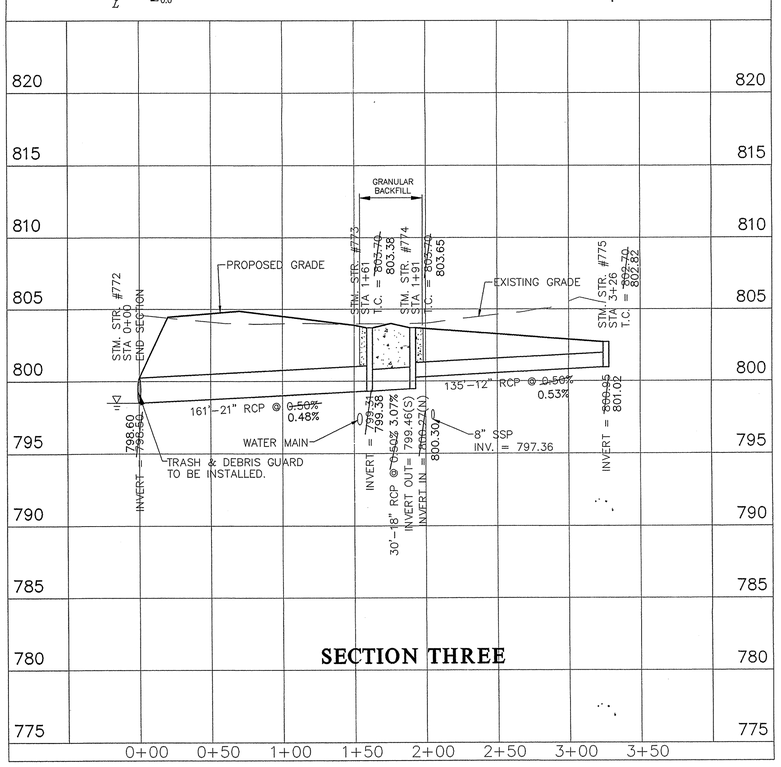


VERTICAL SCALE 1"=5'

HORIZONTAL SCALE: 1"=50'







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Entered by: JDH

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INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE (800) 452-6408
CIVIL ENGINEERS • LAND SURVEYORS • LAND PLANNERS • LANDSCAPE ARCHITECTS
ALLAN H. WEIHE, P.E., L.S.
PRESIDENT

PROJECT NO.: 99-0386	DATE: 6/21/00	BY: EAC/DLH
DWG NAME: 990386STM3	8/9/00	EAC
FIELD BY:	6/13/01	EAC
DRAWN BY: DLH / EAC		
CHECKED BY: MLM		
DATE: 5/17/00		

REVISIONS
MINOR REVISIONS
MINOR REVISIONS TO STORM
STORM SEWER AS-BUILTS - SECTION 3 ONLY

ALLAN H. WEIHE REGISTERED NO. 8827 STATE OF INDIANA PROFESSIONAL ENGINEER
ALLAN H. WEIHE P.E. 8827

PREPARED FOR:
ARBOR GROVE SECTION THREE
BAY DEVELOPMENT CORP.

STORM PLAN & PROFILE SHEET
Part of the E/2 of the SW/4 and W/2 of the SE/4 of Sec. 8-T18N-R5E; Noblesville Twp., Hamilton Co., Indiana.

SHEET NO.
13

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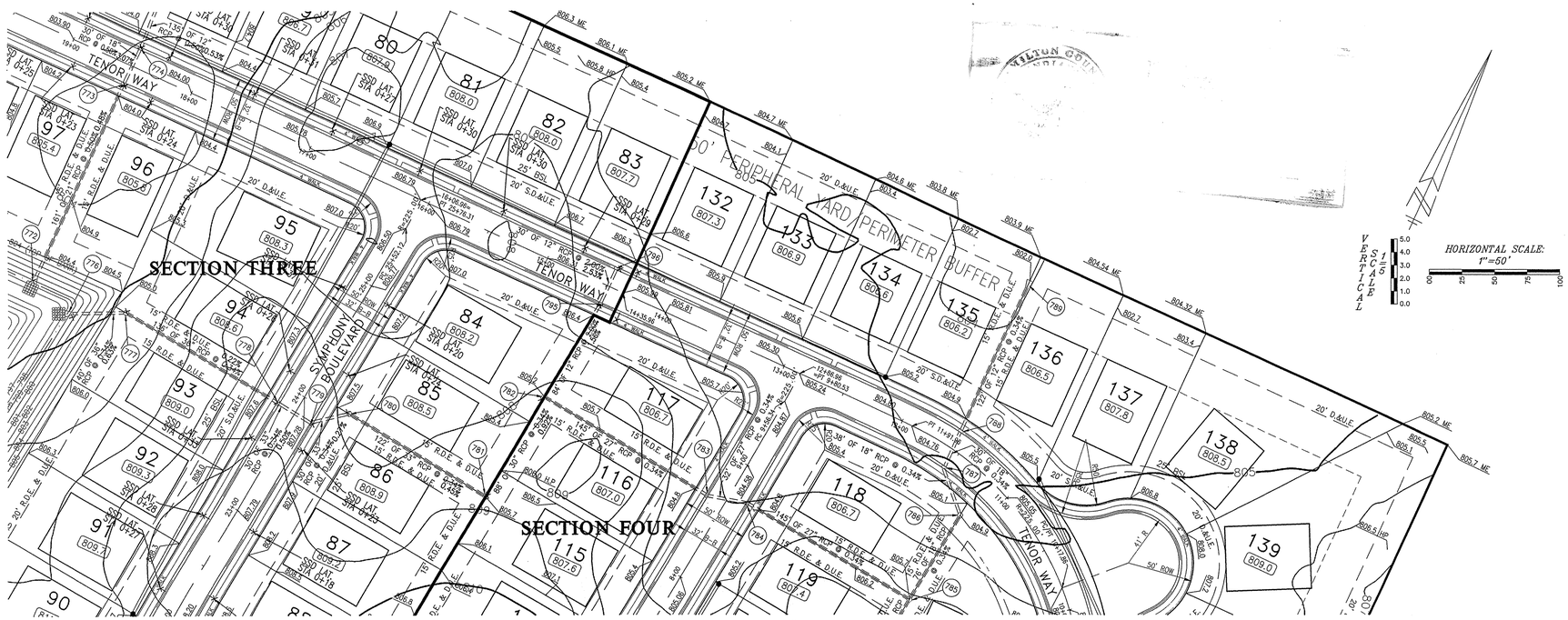

LEGEND

	= RIGHT-OF-WAY LINE
	= STORM SEWER LINE
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	= SANITARY SEWER LINE
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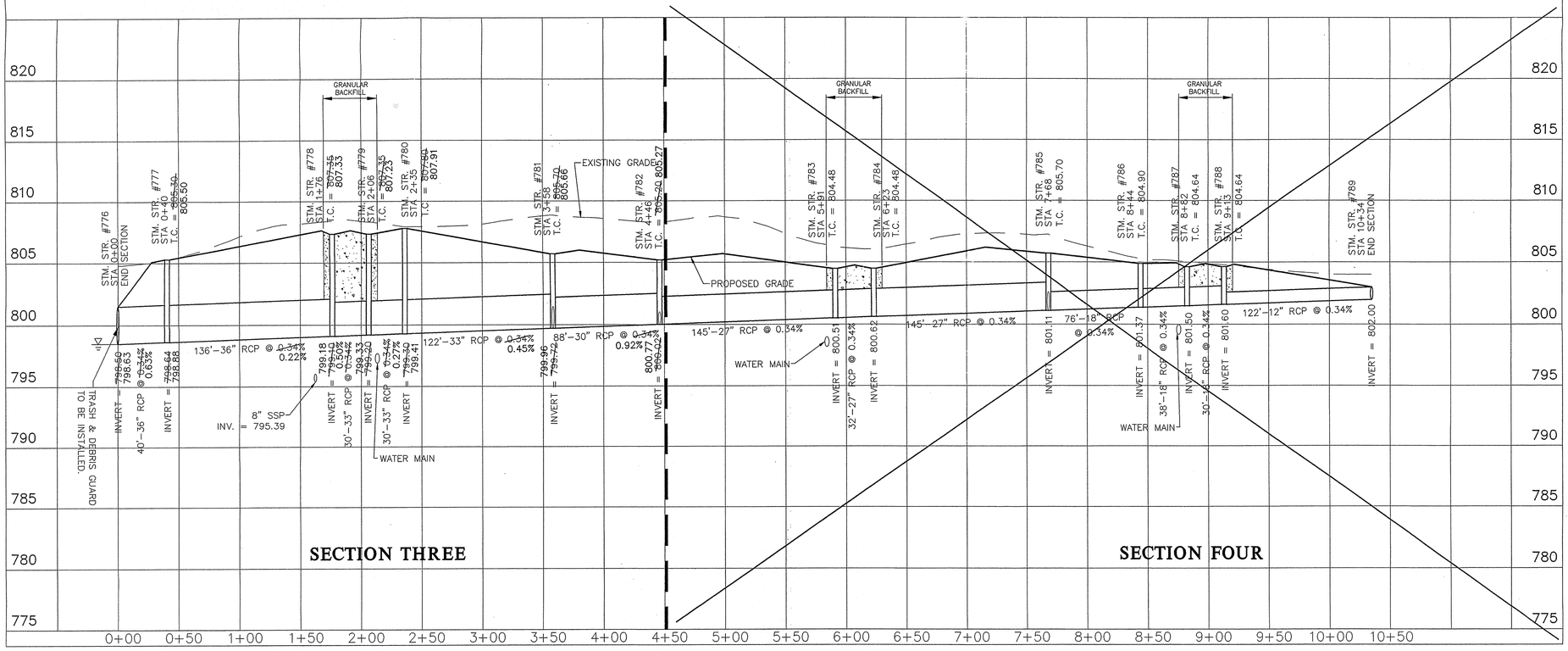

RECORD DRAWING

STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
SECTION 3 ONLY
6/13/01

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OCT 31 2001
OFFICE OF HAMILTON COUNTY SURVEYOR

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Entered by: JDH

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PRESIDENT
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INDIANAPOLIS, INDIANA 46280
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	DATE	BY
REVISIONS		
MINOR REVISIONS	6/21/00	DC/RJL
STORM SEWER AS-BUILTS - SECTION 3 ONLY	6/13/01	EAC

PROJECT NO: 99-0385
DWG NAME: 9903S8STM.DWG
FIELD BY:
DRAWN BY: DLH / EAC
CHECKED BY: AHW
DATE: 5/17/00

ALLAN H. WEIHE REGISTERED NO. 8827 STATE OF INDIANA PROFESSIONAL ENGINEER
ALLAN H. WEIHE P.E. 8827

PREPARED FOR:
ARBOR GROVE SECTION THREE
BAY DEVELOPMENT CORP.

STORM PLAN & PROFILE SHEET
Part of the E/2 of the SW/4 and W/2 of the SE/4 of Sec. 8-T18N-R5E, Noblesville Twp., Hamilton Co., Indiana.

SHEET NO. 14

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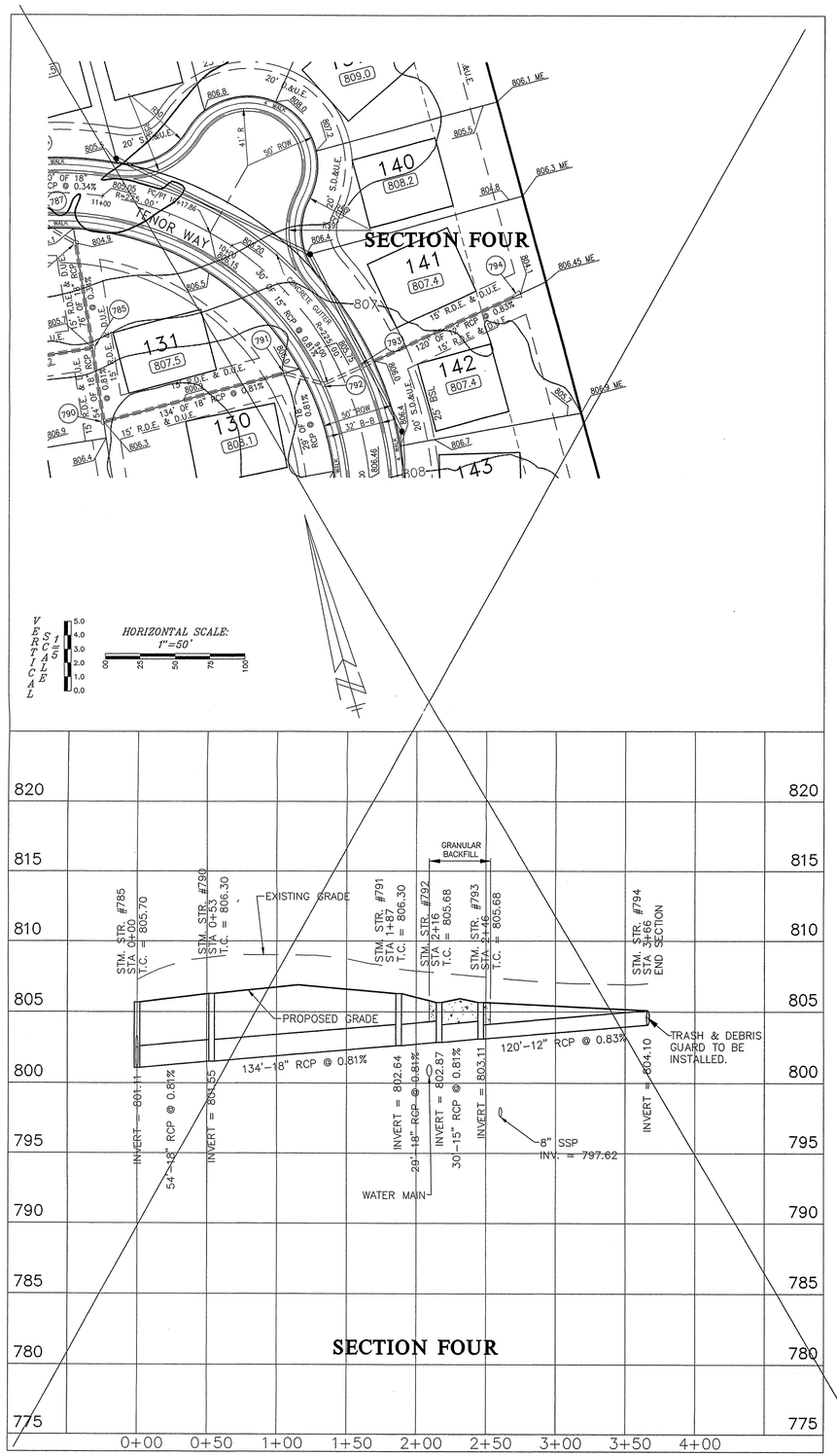

LEGEND

	= RIGHT-OF-WAY LINE
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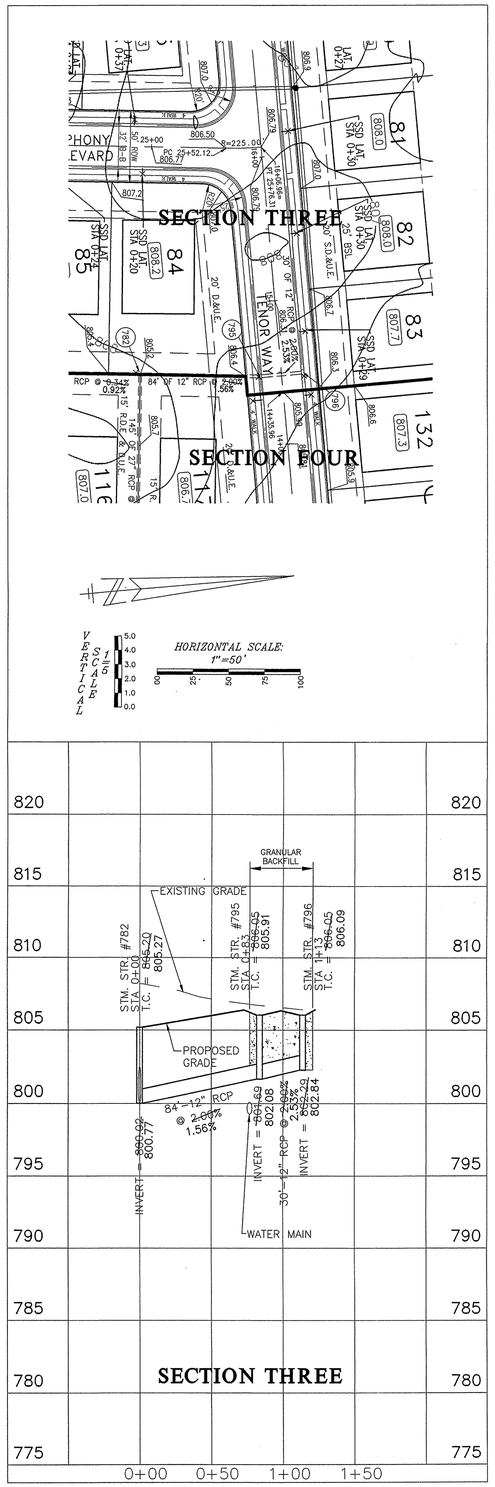
Entry Date: 8-25-04
Entered by: JOH



RECORD DRAWING

STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
SECTION 3 ONLY
6/13/01

FILED
OCT 31 2001
OFFICE OF HAMILTON COUNTY SURVEYOR

WEIHE ENGINEERS, INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
PHONE (317) 843-0546
TOLL-FREE (800) 452-6408
ALLAN H. WEIHE, P.E., L.S.
PRESIDENT
CIVIL ENGINEERS * LAND SURVEYORS * LAND PLANNERS * LANDSCAPE ARCHITECTS

REVISIONS	DATE	BY
MINOR REVISIONS	6/21/00	DJK/DJL
STORM SEWER AS-BUILTS - SECTION 3 ONLY	6/13/01	EAC

PROJECT NO.: 99-0386
DWG NAME: 99-0386STM5
FIELD BY:
DRAWN BY: DJK / EAC
CHECKED BY: ALM
DATE: 5/17/00

ALLAN H. WEIHE
REGISTERED NO. 8827 STATE OF INDIANA PROFESSIONAL ENGINEER
ALLAN H. WEIHE P.E. 8827

PREPARED FOR:
BAY DEVELOPMENT CORP.

ARBOR GROVE SECTION THREE

STORM PLAN & PROFILE SHEET

Part of the E/2 of the SW/4 and W/2 of the SE/4 of Sec. 8-T18N-R5E, Noblesville Twp., Hamilton Co., Indiana.

SHEET NO. 15

File name: H:\99\990386\Section2\990386STM5

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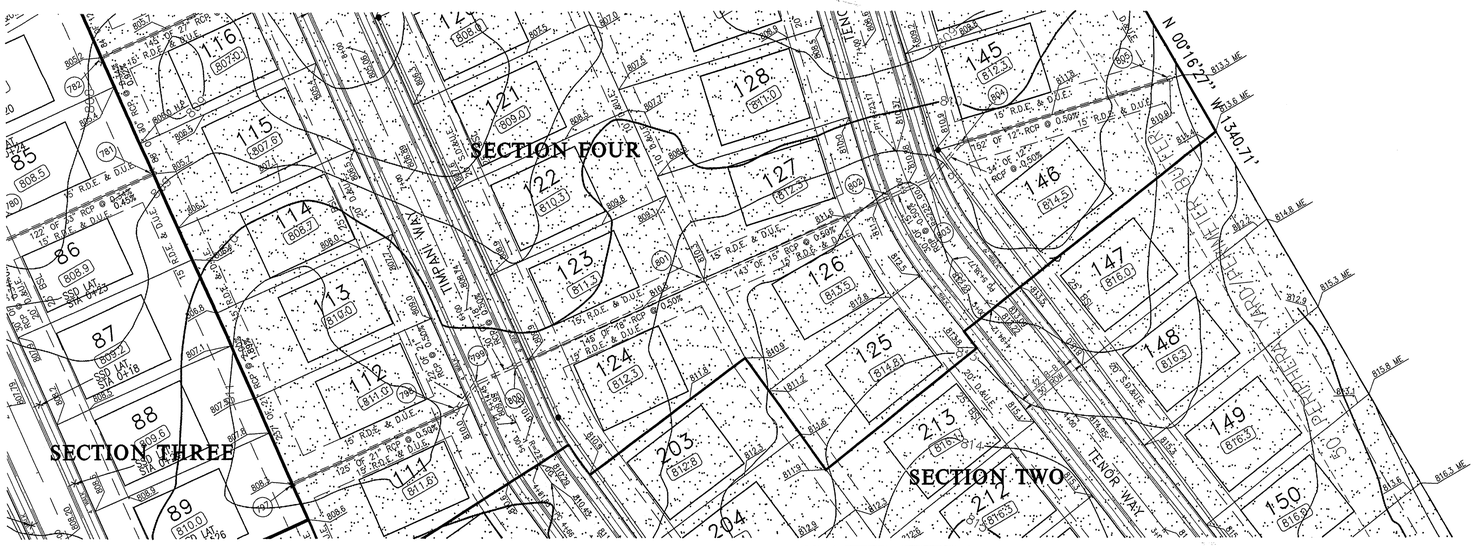

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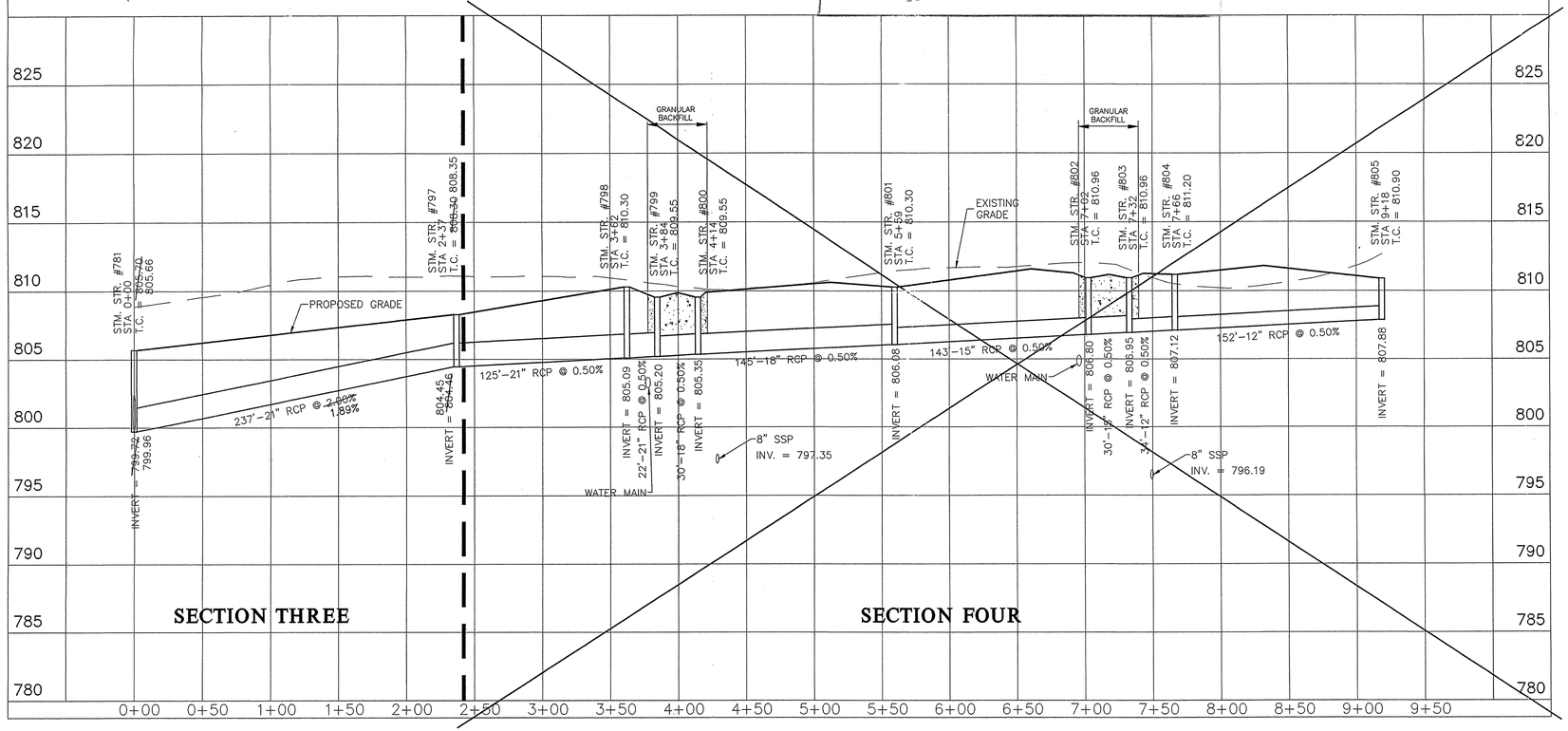

LEGEND

- = RIGHT-OF-WAY LINE
- = STORM SEWER LINE
- = SWALE
- = SANITARY SEWER LINE
- = SANITARY SEWER MANHOLE
- = SANITARY SEWER LATERAL
- = FLOW DIRECTION
- 892.67 = EXISTING SPOT ELEVATION
- = EXISTING CONTOURS
- 000.0 = PROPOSED ELEVATION
- = STORM BEEHIVE INLET
- = STORM INLET
- T.C. = TOP OF CASTING
- INV. = INVERT
- RCP = REINFORCED CONCRETE PIPE
- M.H. = MANHOLE
- STR. = STRUCTURE
- D. & U.E. = DRAINAGE AND UTILITY EASEMENT
- S.D. & U.E. = SANITARY, DRAINAGE, AND UTILITY EASEMENT
- SAN = SANITARY SEWER
- H.C. = HANDICAP RAMP
- M.E. = MATCH EXISTING GRADE
- = SUBSURFACE DRAIN AND SUMP LINE
- STM = STORM SEWER
- = GRANULAR BACKFILL
- = CONCRETE END SECTION
- S.S.D. = SUBSURFACE DRAIN
- S.S.P. = SANITARY SEWER PIPE (SDR-35)
- S.S.P.(D.I.) = SANITARY SEWER PIPE (DUCTILE IRON)
- = NORMAL POOL ELEVATION
- 000.0 = PROPOSED PAD ELEVATION
- MPE = MINIMUM PAD ELEVATION
- TYP. = TYPICAL
- PROP. = PROPOSED
- EX. = EXISTING
- R. = RADIUS
- X = SUB SURFACE DRAIN LATERAL AS-BUILT LOCATION
- = SECTION TWO

WEIHE ENGINEERS, INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE (800) 452-6408
CIVIL ENGINEERS * LAND SURVEYORS * LAND PLANNERS * LANDSCAPE ARCHITECTS
ALLAN H. WEIHE, P.E., L.S.
PRESIDENT

PROJECT NO.: 99-0386
DWG NAME: 990386STM6
FIELD BY:
DRAWN BY: DLH / EAC
CHECKED BY: MLM
DATE: 5/17/00

DATE	BY
6/21/00	GAC/DLH
6/13/01	EAC

REVISIONS
MINOR REVISIONS
STORM SEWER AS-BUILTS - SECTION 3 ONLY

ALLAN H. WEIHE REGISTERED NO. 8827 STATE OF INDIANA PROFESSIONAL ENGINEER
ALLAN H. WEIHE P.E. 8827

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SHEET NO.
16

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