

Drain: KINGSBOROUGH DRAIN **Drain #:** 297
Improvement/Arm: BUCKHORN ESTATES
Operator: SLM / JPH **Date:** 1-7-03
Drain Classification: Urban/Rural **Year Installed:** 2000

GIS Drain Input Checklist

- Pull Source Documents for Scanning gaa 1-7
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains SLM/gaa 1-7
- Digitize & Attribute SSD SLM/gaa 1-7
- Digitize & Attribute Open Ditch N/A
- Stamp Plans SLM/gaa 1-7
- Sum drain lengths & Validate gaa 1-7
- Enter Improvements into Posse gaa 1-7
- Enter Drain Age into Posse gaa 1-22
- Sum drain length for Watershed in Posse gaa 1-22
- Check Database entries for errors gaa 1-7

Gasb 34 Footages for Historical Cost
Drain Length Log

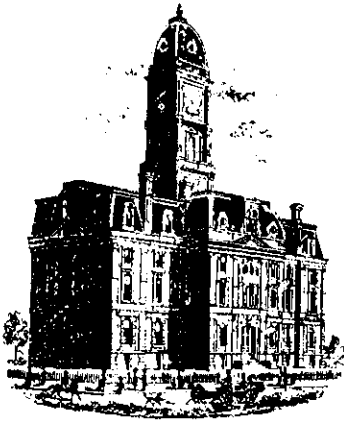
Drain-Improvement: KINGSBOROUGH DRAIN - BUCKHORN ESTATES

Drain Type:	Size:	Length <small>(SURVEYOR'S REPORT)</small>	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
SSD	6"	13,597.84'	13597.84'	Ø		
RUP	12"	739'	739'	Ø		
	15"	1088'	1088'	Ø		
	18"	713'	713'	Ø		
	21"	804'	804'	Ø		
	24"	623'	623'	Ø		
	27"	543'	543'	Ø		
	30"	220'	220'	Ø		

Sum: 18,327.84' 18327.84' 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

March 24, 2000

Re: Kingsborough Drain, Buckhorn Estates Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Buckhorn Estates Arm, Kingsborough 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 12,809 ft	18" RCP 419 ft	27" RCP 804 ft
12" RCP 655 ft	21" RCP 645 ft	30" RCP 220 ft
15" RCP 1,312 ft	24" RCP 927 ft	

The total length of the drain will be 17,791 feet.

The retention pond (lake) located in Block A is not to be considered part of the regulated drain. Only the inlet and outlet will be maintained as part of the regulated drain. The maintenance of the pond (lake) will be the responsibility of the Homeowners Association. The Board will 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 and those main lines between lots or in rear yards. Only the main SSD lines which are located within the easement/right of way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The portion of the SSD which will be regulated other than those under curbs are as follows: rear of Lots 28 and 31; 1 to 4; 32 to 34; 41 to 43; 18 to 21; 12 to 17 and between Lots 21 and 22 and 27 and 28.

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 \$1,852,770.

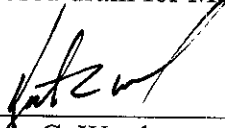
Parcels assessed for this drain may be assessed for the Osborn-Collins or Williams Creek Drains at sometime in the future.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 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 easement widths as shown on the secondary plat for Buckhorn Estates as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for May 22, 2000.

KCW/kkw



Kenton C. Ward
Hamilton County Surveyor

Standby Letter of Credit

March 6, 2000

Beneficiary

Hamilton County Board of
Commissioners
One Hamilton County Square
Noblesville, Indiana 46060

Applicant

Buckhorn Estates, LLC
1018 Henley Circle
Carmel, Indiana 46032


We hereby establish our Irrevocable Letter of Credit in your favor, for the account indicated above, for the sum or sums not exceeding an aggregate amount of \$223, 577.00 (Two Hundred Twenty Three Thousand Five Hundred and Seventy Seven US Dollars).

Funds are available by your demand on Owen Community Bank, s.b., Spencer, Indiana 47460. Written demand must be accompanied by:

1. The original of this Letter of Credit.
2. Beneficiary's signed certificate stating that Buckhorn Estates, LLC has failed to complete the installation of the Storm Drains, Sub-surface Drains, Erosion Control and Monument Markers in the development known as: Buckhorn Estates, Carmel, Indiana 46032 as required by the Hamilton County Board of Commissioners.

We engage with you that all demands required by you in accordance with the terms of this Letter Of Credit shall be duly honored upon presentation. Amounts drawn under this Letter of Credit must be presented on or prior to expiration date of May 31, 2000.

Very Truly Yours,



Kurt Meier, President

Revise

SPENCER MAIN OFFICE

P.O. Box 187 • 279 E. Morgan St.
Spencer, IN 47460
812/829-2095

800/690-2095
812/829-3069 FAX

CLOVERDALE BRANCH

102 S. Main St.
Cloverdale, IN 46120
765/795-2222

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Buckhorn Estates

I hereby certify that:

1. I am a Registered Land Surveyor or Engineer in the State of Indiana .
2. I am familiar with the plans and specifications for the above referenced subdivision .
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision .
4. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been installed and completed in conformity with all plans and specifications .

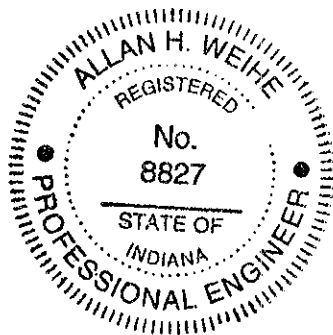
Signature: Allan H. Weihe Date: 7/17/00

Type or Print Name: Allan H. Weihe

Business Address: 10505 N. College Avenue, Indianapolis, IN. 46280

Telephone Number: 846-6611

SEAL



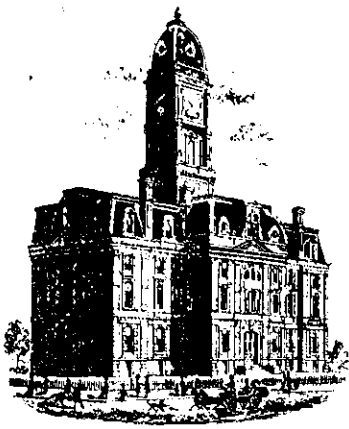
INDIANA REGISTRATION NUMBER

#8827

FILED

JUL 20 2000

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

June 7, 2001

Re: Kingsborough Drain: Buckhorn Estates Arm

Attached are as-builts, certificate of completion & compliance, and other information for Buckhorn Estates. 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 24, 2000. The changes are as follows:

Structure: T.C.: I.E.: Pipe: Length: Original Plans: Difference:

26		884.35				
26a	889.1	884.69	21	25		
26a	889.1	884.69				
27	892.89	885.59	21	136	137	-1
27	892.89	885.59				
28	891.91	887.36	21	208		
28	891.91	887.36				
29	891.93	887.76	15	33		
29	891.93	887.76				
30	893.27	888.62	15	157		
30	893.27	888.62				
31	893.25	889.02	15	55		
31	893.25	889.02				
32	891.6	889.8	15	156		
28	891.91	887.36				
33	891.97	888.56	15	45		
33	891.97	888.56				
34		891.04	12	159	reported as 15"	
35		884.19				
36	891.53	886.95	18	239		
36	891.53	886.95				
37	891.54	887.29	18	28		
37	891.54	887.29				
38		889.2	15	147		

43		884.31				
42	890.22	884.2	24	255		
42	890.22	884.2				
41	890.29	884.17	24	24		
41	890.29	884.17				
40	887.53	884.1	24	101		
40	887.53	884.1				
39	886.78	884.04	24	56		
1		884.21				
2	889.32	884.87	21	192		
2	889.32	884.87				
3	889.36	885.04	18	28		
3	889.36	885.04				
4	888.63	885.89	15	142		
16		888.01				
15	889.62	887.16	15	353	418	-65
15	889.62	887.16				
17		888.14	12	127		
5		884				
5a	888.74	884.62	27	22		
5a	888.74	884.62				
6	892.27	885.27	27	153		
6	892.27	885.27				
12	891.4	888.04	12	75		
6	892.27	885.27				
7	890.12	885.86	27	209		
7	890.12	885.86				
8	890.09	886.69	12	32		
8	890.09	886.69				
9	890.78	887.53	12	157		
9	890.78	887.53				
10	891.29	888.19	12	156		
10	891.29	888.19				
11	891.42	888.47	12	33		
18		884.61				
19	891.29	885.13	30	192		
19	891.29	885.13				
20	891.31	885.36	30	28		
20	891.31	885.36				
21	889.23	886.03	27	159		
21	889.23	886.03				
22	890.5	886.68	24	159		
22	890.5	886.68				
23	890.43	886.84	24	28	reported as 50	
23	890.43	886.84				
24	891.88	887.09	21	67		
24	891.88	887.09				
25	890.91	887.75	21	129		
25	890.91	887.75				

25a		890.53	18	125	additional	
25	890.91	887.75				
25b		890.54	18	125	additional	
15	889.62	887.15				
14	892.72	886.46	18	124		
14	892.72	886.46				
13	889.89	886.19	18	44	missed on original	
13	889.89	886.19				
7	890.12	885.86	21	47		

6" SSD Streets:

DOE RUN, STAGHORN, BROOKS TONE	3678.67
DEER LAKE DRIVE	930.9
STONE DRIVE	194.35
x2	

Total: 9987.84

6" SSD Lots:

12	105
13 THRU 15	345
16 THRU 17	470
23 THRU 24	405
18 THRU 21	635
28 THRU 31	480
1 THRU 4	495
25 THRU 27	250
32 THRU 34	425

Total: 3610

RCP Pipe Totals:

12	739
15	1088
18	713
21	804
24	623

27	543
30	220

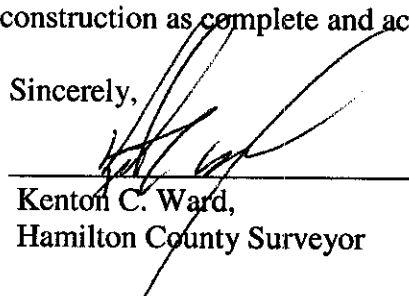
The length of the drain due to the changes described above is now **18,327.84 feet**.

The non-enforcement was approved by the Board at its meeting on May 22, 2000 and recorded under instrument #200000039004.

The bond or letter of credit from Owen Community Bank, number HCDB-L00-001; dated March 6, 2000; in the amount of \$223,577.00; was released October 23, 2000.

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

Sincerely,


Kenton C. Ward,
Hamilton County Surveyor

KCW/slm

STRUCTURE NUMBER	STRUCTURE TYPE	CASTING TYPE	TOP OF CASTING	INVERT
1	CES	NONE	N/A	884.46
2	MANHOLE	CURB	889.36	885.02
3	INLET	CURB	889.36	885.12
4	INLET	BEEHIVE	888.4	885.76
5	CES	NONE	N/A	884.46
5A	MANHOLE	SOLID	889.1	884.54
6	MANHOLE	SOLID	892.00	885.08
7	MANHOLE	CURB	890.10	885.71
8	INLET	CURB	890.10	886.44
9	INLET	SOLID	890.70	887.23
10	INLET	CURB	891.30	888.01
11	INLET	CURB	891.30	888.17
12	INLET	CURB	891.19	887.69
13	MANHOLE	CURB	889.68	885.95
14	INLET	SOLID	890.30	886.17

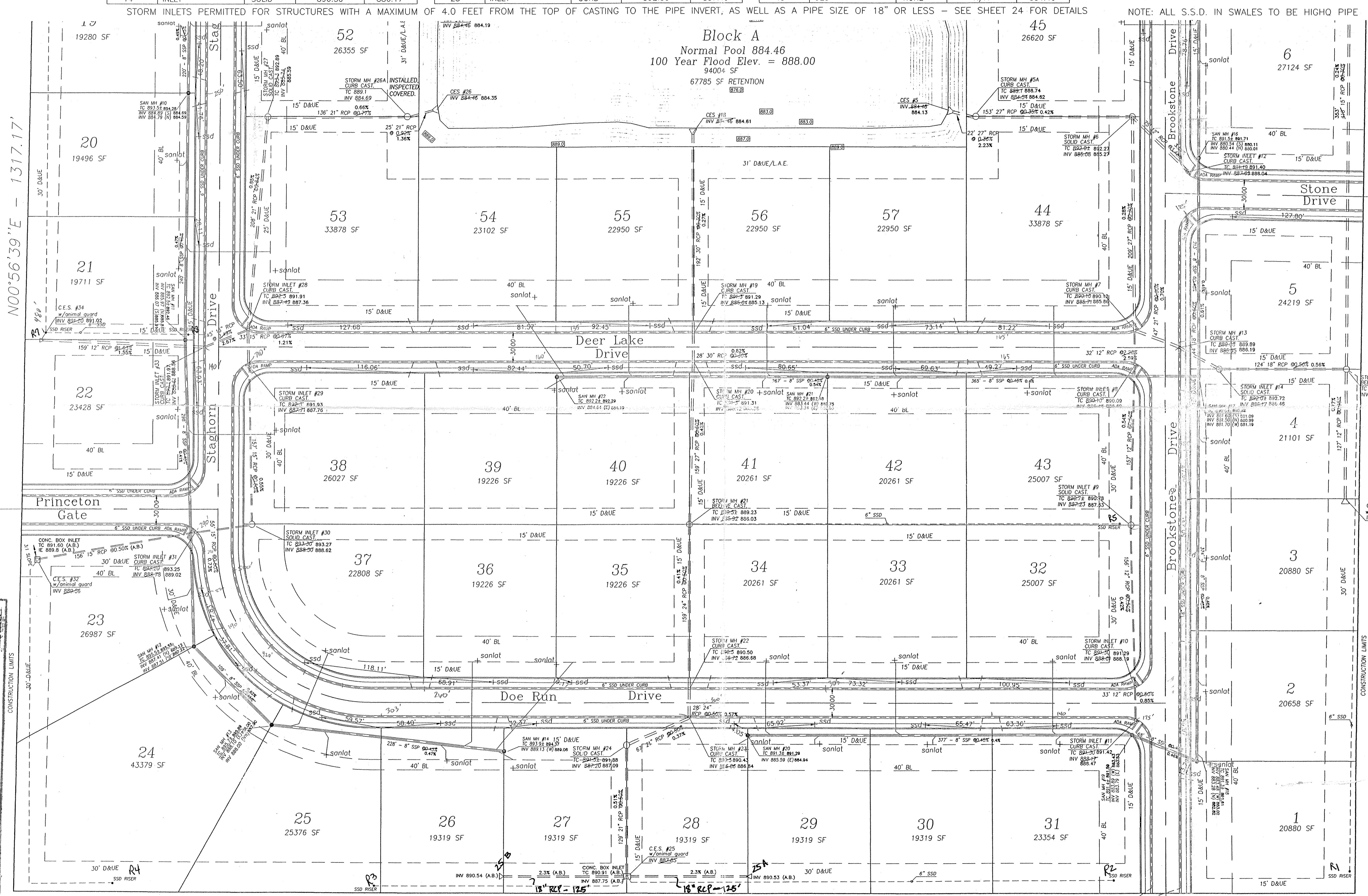
STRUCTURE NUMBER	STRUCTURE TYPE	CASTING TYPE	TOP OF CASTING	INVERT
15	INLET	BEEHIVE	889.80	886.79
16	CES	NONE	N/A	888.04
17	CES	NONE	N/A	888.00
18	CES	NONE	N/A	884.46
19	MANHOLE	CURB	891.30	885.04
20	MANHOLE	CURB	891.30	885.12
21	MANHOLE	BEEHIVE	889.50	885.92
22	MANHOLE	CURB	890.10	886.72
23	MANHOLE	CURB	890.10	886.86
24	MANHOLE	SOLID	891.00	887.20
25	CES	NONE	N/A	887.85
26	CES	NONE	N/A	884.46
26A	MANHOLE	SOLID	889.10	884.69
27	MANHOLE	SOLID	893.30	885.74
28	INLET	CURB	892.30	887.49

STRUCTURE NUMBER	STRUCTURE TYPE	CASTING TYPE	TOP OF CASTING	INVERT
29	INLET	CURB	892.30	887.71
30	INLET	SOLID	893.30	888.50
31	INLET	CURB	893.20	888.78
32	CES	NONE	N/A	889.56
33	INLET	CURB	892.10	888.61
34	CES	NONE	N/A	891.20
35	CES	NONE	N/A	884.46
36	INLET	CURB	891.50	887.01
37	INLET	CURB	891.50	887.15
38	CES	NONE	N/A	889.00
39	MANHOLE	BEEHIVE	887.30	884.02
40	MANHOLE	SOLID	889.00	884.08
41	MANHOLE	SOLID	890.30	884.18
42	MANHOLE	SOLID	890.30	884.20
43	CES	NONE	N/A	884.46

NOTE: THERE SHALL BE NO STREET TREES AND/OR LANDSCAPING CONFLICTS WITH SSD PIPE AND STORM PIPES

LEGEND

L.A.E.	LAKE ACCESS EASEMENT		PROPOSED CONTOURS
BL	BUILDING LINE		CONCRETE END SECTION
D&UE	DRAINAGE AND UTILITY EASEMENT		SANITARY MANHOLE
	PROPOSED PAD GRADE		STORM MANHOLE
	PROPOSED SPOT ELEVATION		SANITARY SEWER W/LATERAL
	PROPOSED LOWER PAD GRADES		STORM SEWER
	EXISTING TREE LINE		



This information was gathered for input from Hamilton County Geographical Information System (GIS) and is considered an official record of the GIS.

Entry Date: 6-8-01
Entered by: SLM/JOH/PL

Existing Buckhorn Subdivision

NOTE: NO TEMP. SEEDING REQUIRED ON THIS PROJECT.

NOTE: S.S.D. RISERS TO BE REQUIRED AT ALL CONNECTIONS, TURNS, BEGINNING OF RUNS AND 300' INTERVALS OF PROPOSED SUBSURFACE DRAINS.

RECORD DRAWING
SANITARY & STORM SEWER AS-BUILTS
SANITARY & STORM SEWER STRUCTURES ONLY
JUNE 27, 2000

ALLAN H. WEIHE-REG. P.E.-IN #8827

- NOTES:
- NO WALLS, FOUNDATIONS, OR ANY STRUCTURES ARE TO BE CONSTRUCTED OVER THE SANITARY SEWERS.
 - PADS TO BE 60 FEET WIDE BY 40 FEET DEEP

WEIHE ENGINEERS, INC.
ALLAN H. WEIHE, P.E., L.S.
PRESIDENT
MICHAEL E. BURBY, L.S.
VICE - PRESIDENT

10000 N. COLLEGE AVE., INDIANAPOLIS, IN 46280
(317) 846-6611
FAX: (317) 843-0546

LAND SURVEYORS
LAND PLANNERS
CIVIL ENGINEERS

JOB NO. 99-0835
DATE: 02/29/99
BY: JOE D'AMICO
CHECKED BY: JAMES D. HART
DATE: 02/29/99

REVISIONS:
10/29/99 dh
11/09/99 dh
11/22/99 IDB
02/04/00 dh
02/29/00 dh
04/05/00 dh

Per Ham. City Soil & Water + Highway Dep.
Add lateral/move storm structures
Note per S.L.M. & address above (to end)
Per Hamilton County Surveyors Office

RAISE PADS/SIDE WARDS
Add landscape/storm pipe continue note
RAISE STREETS/ROADS

DATE: 10-15-99

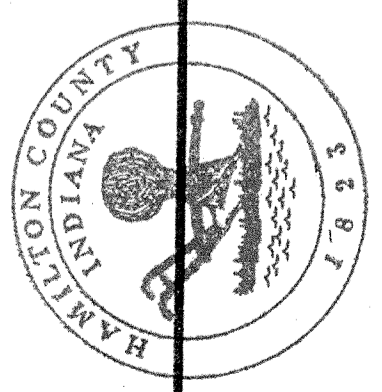
PREPARED FOR:
BUCKHORN ESTATES L.L.C.
BUCKHORN ESTATES

DEVELOPMENT PLAN

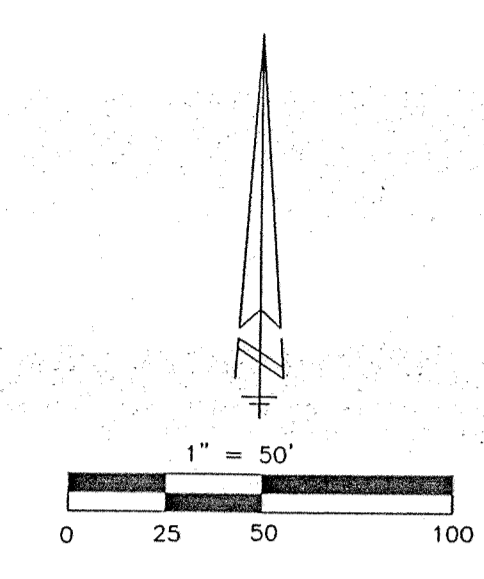
SHEET NO. **3**
OF **25**

This information was gathered for input from Hamilton County Geographical Information System. It is not to be considered an official record of the GIS.

Entry Date: 6-8-01
 Entered by: SIM/John Henry



N00°56'39"E - 1317.17'

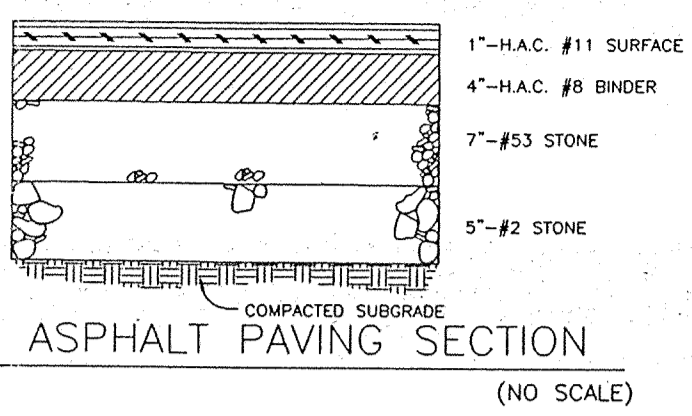


+sanlat SANITARY LATERAL LOCATION
 +ssd SUB-SURFACE DRAIN LATERAL LOCATION

NOTE: AS BUILT SANITARY LATERAL LOCATION FOR LOT #2 & #19 PROVIDED BY WEIHE CONSTRUCTION INC.

NOTE:
 1. ALL S.S.D. IN SWALES TO BE HIGHQ PIPE
 2. NO. TEMP. SEEDING REQUIRED ON THIS PROJECT.

ALL EXISTING BUILDINGS TO BE REMOVED AT THE DIRECTION OF THE DEVELOPER



(WITHIN THE RIGHT-OF-WAY OF 141ST STREET ONLY)

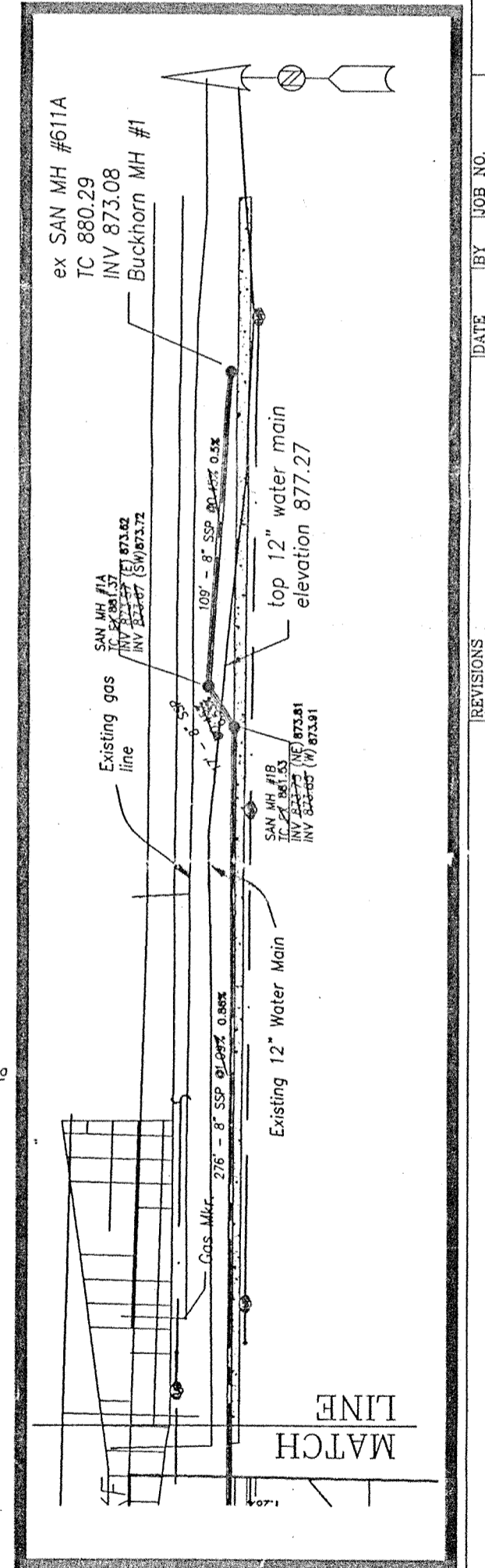
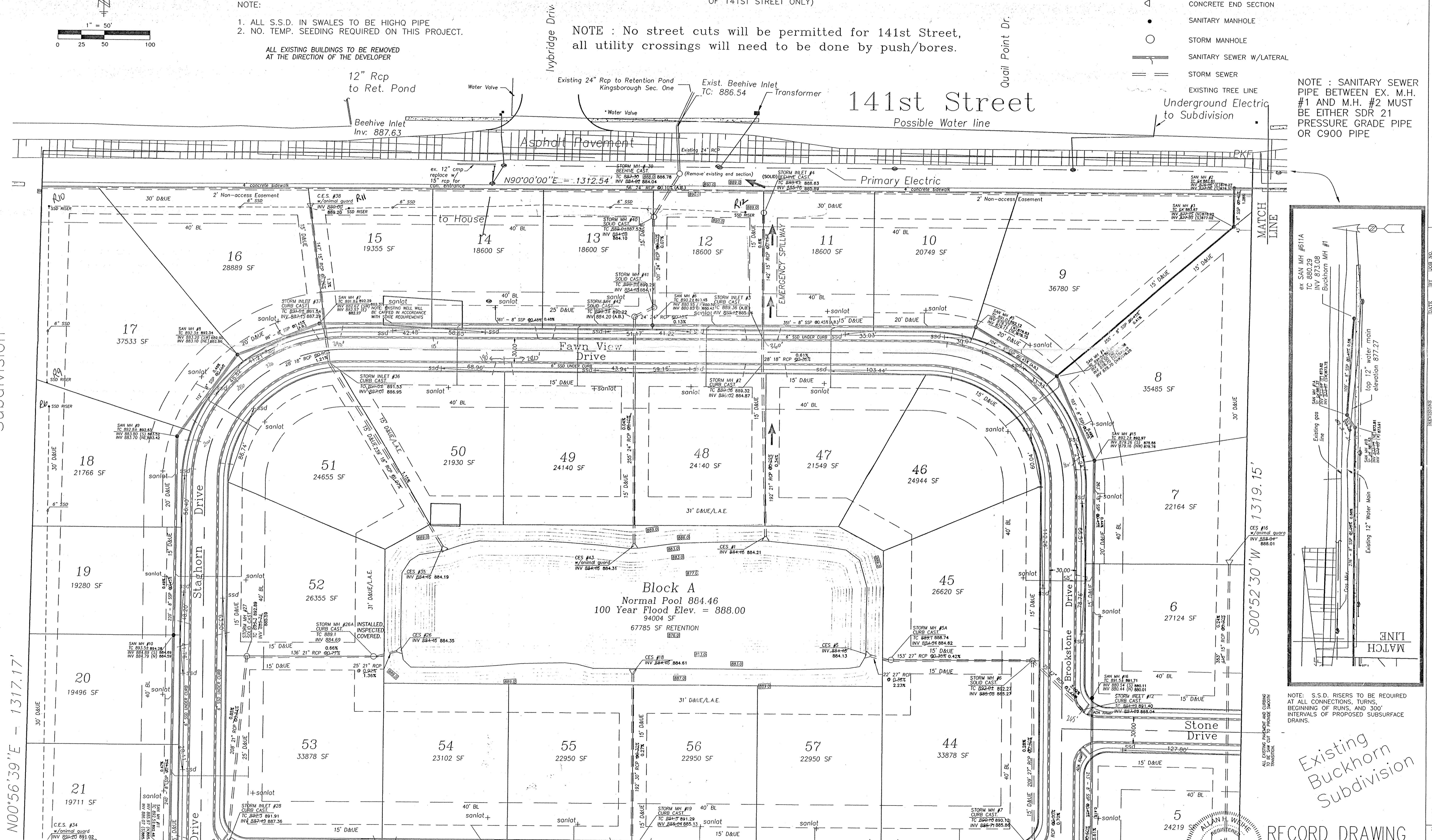
T.B.M. - Top Casting sanitary sewer manhole N.E. corner Stone Drive & Amison Lane Buckhorn Subdivision. ELEV. = 889.63

LEGEND

- L.A.E. LAKE ACCESS EASEMENT
- BL BUILDING LINE
- D&UE DRAINAGE AND UTILITY EASEMENT
- 892.8 PROPOSED PAD GRADE
- 889.9 PROPOSED LOWER PAD GRADES
- PROPOSED CONTOURS
- CONCRETE END SECTION
- SANITARY MANHOLE
- STORM MANHOLE
- SANITARY SEWER W/LATERAL
- STORM SEWER
- EXISTING TREE LINE

NOTE: SANITARY SEWER PIPE BETWEEN EX. M.H. #1 AND M.H. #2 MUST BE EITHER SDR 21 PRESSURE GRADE PIPE OR C900 PIPE

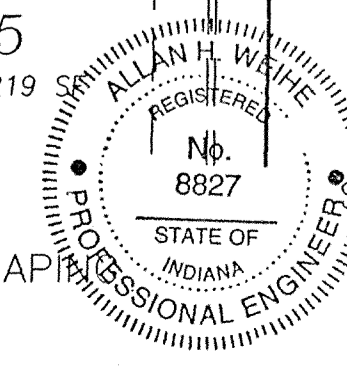
NOTE: No street cuts will be permitted for 141st Street, all utility crossings will need to be done by push/bores.



NOTE: S.S.D. RISERS TO BE REQUIRED AT ALL CONNECTIONS, TURNS BEGINNING OF RUNS, AND 300' INTERVALS OF PROPOSED SUBSURFACE DRAINS.

NOTES:
 1. NO WALLS, FOUNDATIONS, OR ANY STRUCTURES ARE TO BE CONSTRUCTED OVER THE SANITARY SEWERS.
 2. PADS TO BE 60 FEET WIDE BY 40 FEET DEEP

NOTE: THERE SHALL BE NO STREET TREES AND/OR LANDSCAPING CONFLICTS WITH SSD PIPE AND STORM PIPES



RECORD DRAWING
 SANITARY & STORM SEWER AS-BUILTS
 SANITARY & STORM SEWER STRUCTURES ONLY
 June 27, 2000
 Allan H. Weihe
 ALLAN H. WEIHE-REG. P.E.-IN #8827

WEIHE ENGINEERS, INC.
 ALLAN H. WEIHE, P.E., L.S.
 PRESIDENT
 10606 N. COLLEGE AVE., INDIANAPOLIS, IN 46280
 (317) 846-6600 FAX: (317) 846-0446

BUCKHORN ESTATES L.L.C.
 BUCKHORN ESTATES
 DEVELOPMENT PLAN

PREPARED FOR: SHEET NO. 25

PROFESSIONAL ENGINEER
 No. 8827
 STATE OF INDIANA

DATE: 06/27/00
 DRAWN BY: JCH
 CHECKED BY: JCH
 P.L.S. NO. 02/04/00
 DATE: 02/29/00
 DATE: 02/29/00
 DATE: 02/29/00