

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 23, 2003

Re: Stultz & Almond Drain, Westwood Estates Arm

Attached is a petition filed by Justus Home Builders along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Westwood Estates Arm, Stultz & Almond Drain to be located in Clay Township. I have reviewed the submittals and petition and have found each to be in proper form.

I have made a personal inspection of the land described in the petition. Upon doing so, I believe that the drain is practicable; will improve the public health; benefit a public highway and be of public utility; and that the costs, damages, and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited. The drain will consist of the following:

6" SSD	5,966 ft	15" RCP	473 ft	21"	213 ft
12" RCP	1,052 ft	18" RCP	899 ft	18x24" <i>emp</i>	40 ft

The total length of the drain will be 8,643 feet.

The retention pond (lake) located in Common Areas A, B and D are to be considered part of the regulated drain. The maintenance of the pond (lake), such as mowing, will be the responsibility of the Homeowners Association. The Board will also 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 and 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 5, 6 and 7.

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 \$10.00 per lot for common areas and platted lots, \$10.00 per acre for roadways, with a \$65.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$3,895.40.

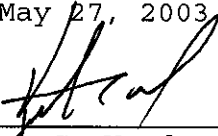
The petitioner has not submitted surety for the proposed drain at this time. Surety will be submitted prior to the approval of the Hamilton County Board of Commissioners/commencement of construction.

Parcels assessed for this drain may be assessed for the Osborne-Collins or Williams 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. The request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Westwood Estates as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for May 27, 2003



Kenton C. Ward
Hamilton County Surveyor

KCW/llm

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

TO: HAMILTON COUNTY DRAINAGE BOARD
% Hamilton County Surveyor, Courthouse, Noblesville, IN 46060

In the matter of Westwood Estates Subdivision,
Section _____ Drain Petition.

Petitioner is the owner of all lots in the land affected by the proposed new regulated drain. The drainage will affect various lots in Westwood Estates, a subdivision in Hamilton County, Indiana. The general route of such drainage shall be in existing easements and along public roads as shown in the plans on file in the Surveyor's Office.

Petitioner believes that the cost, damages and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land likely to be benefited thereby. Petitioner believes the proposed improvements will:

- (a) improve public health
- (b) benefit a public street
- (c) be of public utility

Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

The Petitioner also agrees to the following:

1. To provide the Drainage Board a Performance Bond for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 100% of the Engineers estimate. The bond will be in effect until construction of 100% of the system is completed and so certified by the Engineer.
2. The Petitioner shall retain an Engineer throughout the construction phase. At completion of the project the Petitioner's Engineer shall certify that the drainage system which is to be maintained as a regulated drain has been constructed as per construction plans.



April 22, 2003

Hamilton County Board of Commissioners
One Hamilton County Square
Suite 188
Noblesville, IN 46060

Standby Letter of Credit

RE: Justus Home Builders, Inc.
Westwood Estates Subdivision

Gentlemen:

We hereby establish our Irrevocable Standby Letter of Credit No. **10244-4-LC4** in your favor, at the request of and for the account of Justus Homes Builders, Inc., for any sum or sums not exceeding **\$252,485.00** (Two Hundred Fifty Two Thousand Four Hundred Eighty Five and 00/dollars), available upon presentation by the Board of Public Works and Safety Director or any employee acting under his authority, enumerating any and all improvements and costs thereof not completed as required in Westwood Estates subdivision for Storm Sewers as required by and to be accepted by the Hamilton County Board of Commissioners.

The drafts drawn under this Letter of Credit must state "Drawn under Letter of Credit No. 10244-4-LC4 of Justus Homes Builders, Inc., dated April 22, 2003". The amount of the drafts must be noted on the back of this Letter of Credit by the negotiating bank and/or agency.

This Letter of Credit is effective as of April 22, 2003, and shall expire on April 22, 2004, unless a request is received from the Hamilton County Board of Commissioners and/or the borrower Justus Homes Builders, Inc., 90 days prior to the current expiration date to extend such Letter of Credit for an additional period of time.

The credit established by this Letter and our obligation to pay same shall not be affected by the receivership, bankruptcy or insolvency of Justus Home Builders, Inc., or the attachment of his/her property. Nor shall this credit or our obligation to pay same be affected by any security agreement between Justus Home Builders, Inc., 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.

Sincerely,

R. Alex Jones
Vice President

Letter of credit westwood estates.doc



April 22, 2003

Hamilton County Board of Commissioners
One Hamilton County Square
Suite 188
Noblesville, IN 46060

Standby Letter of Credit

RE: Justus Home Builders, Inc.
Westwood Estates Subdivision

Gentlemen:

We hereby establish our Irrevocable Standby Letter of Credit No. 10244-4-LC2 in your favor, at the request of and for the account of Justus Homes Builders, Inc., for any sum or sums not exceeding \$62,732.00 (Sixty Two Thousand Seven Hundred Thirty Two and 00/dollars), available upon presentation by the Board of Public Works and Safety Director or any employee acting under his authority, enumerating any and all improvements and costs thereof not completed as required in Westwood Estates subdivision for Erosion Control as required by and to be accepted by the Hamilton County Board of Commissioners.

The drafts drawn under this Letter of Credit must state "Drawn under Letter of Credit No. 10244-4-LC2 of Justus Homes Builders, Inc., dated April 22, 2003". The amount of the drafts must be noted on the back of this Letter of Credit by the negotiating bank and/or agency.

This Letter of Credit is effective as of April 22, 2003, and shall expire on April 22, 2004, unless a request is received from the Hamilton County Board of Commissioners and/or the borrower Justus Homes Builders, Inc., 90 days prior to the current expiration date to extend such Letter of Credit for an additional period of time.

The credit established by this Letter and our obligation to pay same shall not be affected by the receivership, bankruptcy or insolvency of Justus Home Builders, Inc. or the attachment of his/her property. Nor shall this credit or our obligation to pay same be affected by any security agreement between Justus Home Builders, Inc. 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.

Sincerely,

R. Alex Jones
Vice President

Letter of credit westwood estates.doc

**Westwood Estates
GASB 34 Calculation**

Stultz & Almond Drain – Westwood Estates Relocation: 2159ft
Stultz & Almond Drain – Westwood Estates Arm: 9164ft

Total Footage = 11,323 ft
Bond Amount = \$334,675

Stultz & Almond Drain – Westwood Estates Relocation: $.19(\$334,675) = \$63,588.25$
Stultz & Almond Drain – Westwood Estates Arm: $.81(\$334,675) = \$271,086.75$

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Westwood Estates (1/4 mile east of 141st Street & Towne Road)

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:

Bruce Hagen

Date:

10/20/03

Type or Print Name: Bruce E. Hagen, PE, RLS

Business Address: EMH&T, Inc.

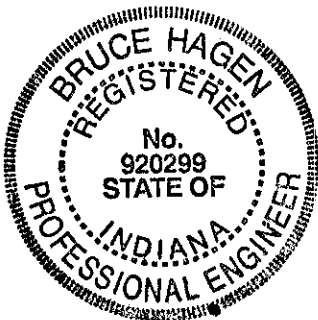
6994 Hillsdale Ct., Indianapolis, IN 46250

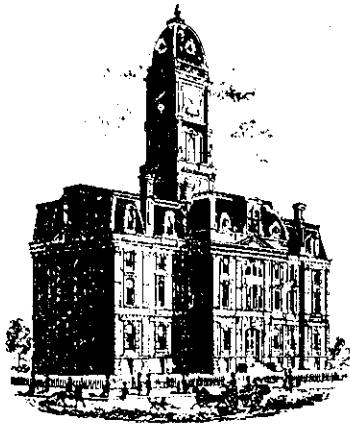
Telephone Number: (317) 913-6930

SEAL

INDIANA REGISTRATION NUMBER

920299





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 22, 2005

Re: Stultz & Almond Drain: Westwood Estates

Attached are as-builts, certificate of completion & compliance, and other information for Westwood 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 April 23, 2003. The report was approved by the Board at the hearing held May 27, 2003. (See Drainage Board Minutes Book 7, Pages 62-63)
The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:
102-101	50	12	RCP	902.37	901.76	1.22
101-100	103	12	RCP	901.66	900.47	1.16
105-104	41	12	RCP	902.52	902.1	1.02
104-103	72	12	RCP	902.1	898.9	4.44
111-110	137	15	RCP	903.36	902.61	0.55
110-109	143	18	RCP	902.61	902.33	0.2
109-108	36	18	RCP	902.33	902.14	0.53
108-107	49	18	RCP	902.14	901.35	1.61
107-106	157	18	RCP	901.35	900.21	0.73
114-113	42	12	RCP	904.14	903.75	0.93
113-113A	23	12	RCP	903.7	903.55	0.65
113A-112	224	12	RCP	903.45	899.58	1.73
129-128	205	12	RCP	900.89	900.11	0.38
128-127	30	15	RCP	900.04	899.72	0.73
127-126	310	18	RCP	899.72	899.22	0.16
126-125	213	21	RCP	899.12	898.57	0.26
131-130	30	12	RCP	905.4	805.01	1.3
130-126	152	15	RCP	904.94	899.12	3.76
124-123	85	12	RCP	901.05	900.9	0.18
123-122	126	15	RCP	900.9	900.47	0.34
122-121	28	15	RCP	900.47	900.3	1.54
121-120	26	18	RCP	900.3	899.9	1.54
120-119	179	18	RCP	899.9	898.83	0.6

141-140	128	36 X 72	CONCRETE	899.36	899.22	0.11
135-134	115	12	RCP	900.44	899.36	0.94
133-132	62	12	RCP	900.41	898.64	2.85
EX-145	75	18X24	CMP	904.27	903.55	

6" SSD Streets:

Aztec Ln	74.5
Renegade Ct	738.5
Quarter Horse Ct	632.5
Barrel Racer Ln	550
Beaumont Blvd	1034

Totalx2: 6059

RCP Pipe Totals:

12	1052
15	473
18	900
21	213

Total: 2638

6" SSD Lots:

Lots 5-7	264
Total:	<u>264</u>

Other Drain:

18" x 24" CMP	75
72"X36" Box Culvert	128

Total: 203

The length of the drain due to the changes described above is now **9,164 feet**.

The non-enforcement was approved by the Board at its meeting on May 27, 2003 and recorded under instrument #200400007713.

The following sureties were guaranteed by First Indiana Bank and released by the Board on its May 27, 2003 meeting.

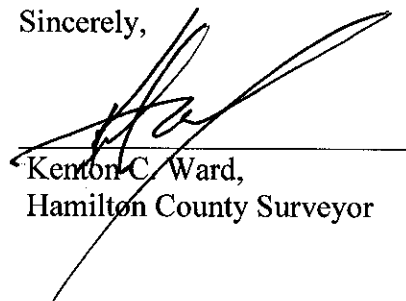
Bond-LC No: 10244-4-LC4
Insured For: Storm Sewers
Amount: \$252,485
Issue Date: April 22, 2003

Bond-LC No: 10244-4-LC2
Insured For: Erosion Control
Amount: \$62,732
Issue Date: April 22, 2003

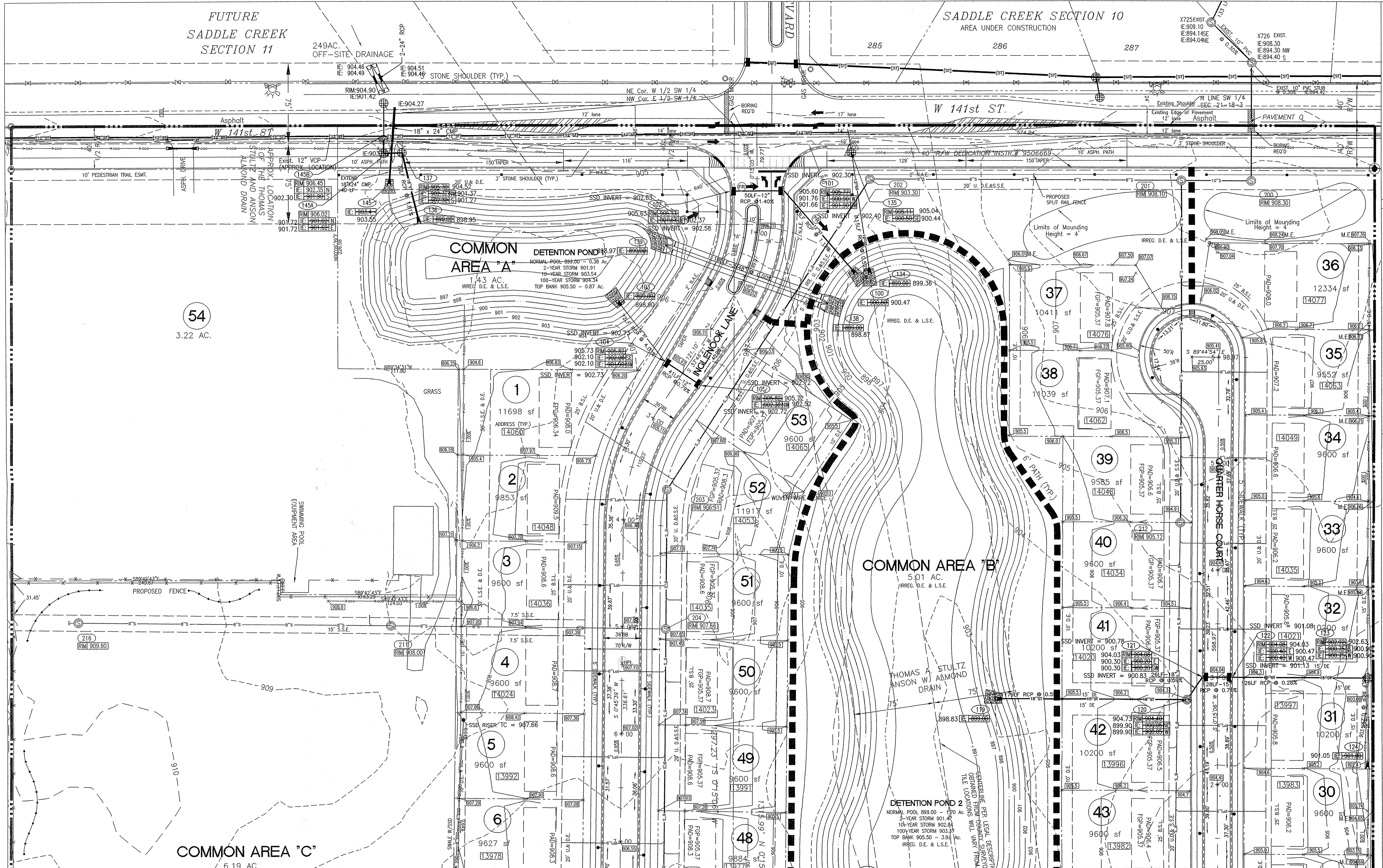
Bond-LC No: 10244-4-LC3
Insured For: Offsite Drainage
Amount: \$19,458
Issue Date: April 22, 2003

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

Sincerely,



Kenton C. Ward,
Hamilton County Surveyor



54
3.22 AC.

COMMON AREA "C"
6.19 AC.

COMMON AREA "A"
1.43 AC.
IRREG. D.E. & L.S.E.

COMMON AREA "B"
5.01 AC.
IRREG. D.E. & L.S.E.

DETENTION POND 2
NORMAL POOL 899.00 - 170 A
2-YEAR STORM 901.4
10-YEAR STORM 902.8
100-YEAR STORM 903.7
TOP BANK 905.50 - 3.94 AC
IRREG. D.E. & L.S.E.

SEE SHEET C2.2 FOR CONTINUATION

AS BUILT

Sanitary Sewer Date: _____

Storm Sewer Date: ...10/17/03...

Date: _____

Approved By: *Bruce E. Hagen*

BRUCE E. HAGEN
REGISTERED
No. **LS930005**
STATE OF
INDIANA
PROFESSIONAL LAND SURVEYOR

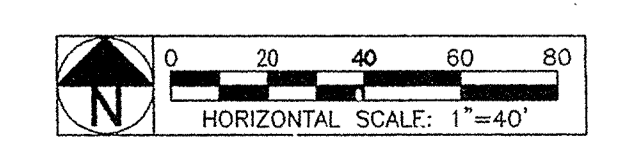
HAMILTON COUNTY INDIANA

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 5-10-05

Entered by: SIM

- NOTES:
- DECORATIVE SIGNS, IRRIGATION SYSTEMS, TREES, LANDSCAPE MOUNDS, LIGHT POLES, AND OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT-OF-WAY.
 - UTILITIES CROSSING BENEATH 141st STREET MUST BE PUSHED/BORED. ROAD CUTS ARE PROHIBITED.
 - DRAINAGE STRUCTURES AND OTHER UTILITIES AFFECTED BY THE WIDENING OF 141st STREET WILL NEED TO BE EXTENDED.
 - THE EXISTING REGULATED DRAIN TILE SHALL BE CONNECTED TO THE STORM DRAINAGE SYSTEM ON THE SOUTH SIDE OF 141st STREET. THE EXISTING DOWNSTREAM TILE SHALL BE CRUSHED AND ANY LATERALS SHALL BE CONNECTED TO THE PROPOSED STORM DRAINAGE SYSTEM.
 - CURB RAMPS FOR THE MULTI-USE AND WALKING PATHS SHALL BE CONCRETE.



BENCHMARK DATA

PROJECT BENCHMARK:
U.S.C.S. Disc stamped 93 RHP located at the southwest corner of the intersection of 14th Street and Ditch Road.
B.M. ELEVATION = 903.374

SITE BENCHMARK:
Railroad spike in East face of a fence corner post. Post located +/- 20' south of the centerline of 141st Street and +/- 35' west of the centerline of Bourmont Blvd.
B.M. ELEVATION = 905.77

"HOLEY MOLEY" SAYS CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU DIG IT'S THE LAW

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

DESCRIPTION

REV. DATE

AS-BUILT PLANS FOR WESTWOOD ESTATES
JUSTUS HOME BUILDERS, INC.
SITE DEVELOPMENT PLAN

6994 HILLSDALE COURT
INDIANAPOLIS, IN 46250
Ph: 317-913-6930
FAX: 317-913-6928

INC.
CONSULTING ENGINEERS & SURVEYORS

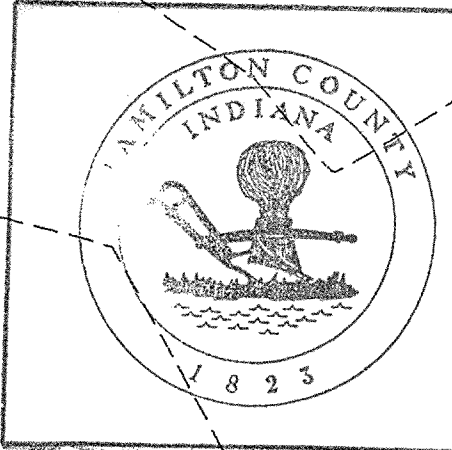
JOB NO. 2002-1226
DATE: 08-29-03
SCALE: 1" = 40'

SHEET No. **C2.1**

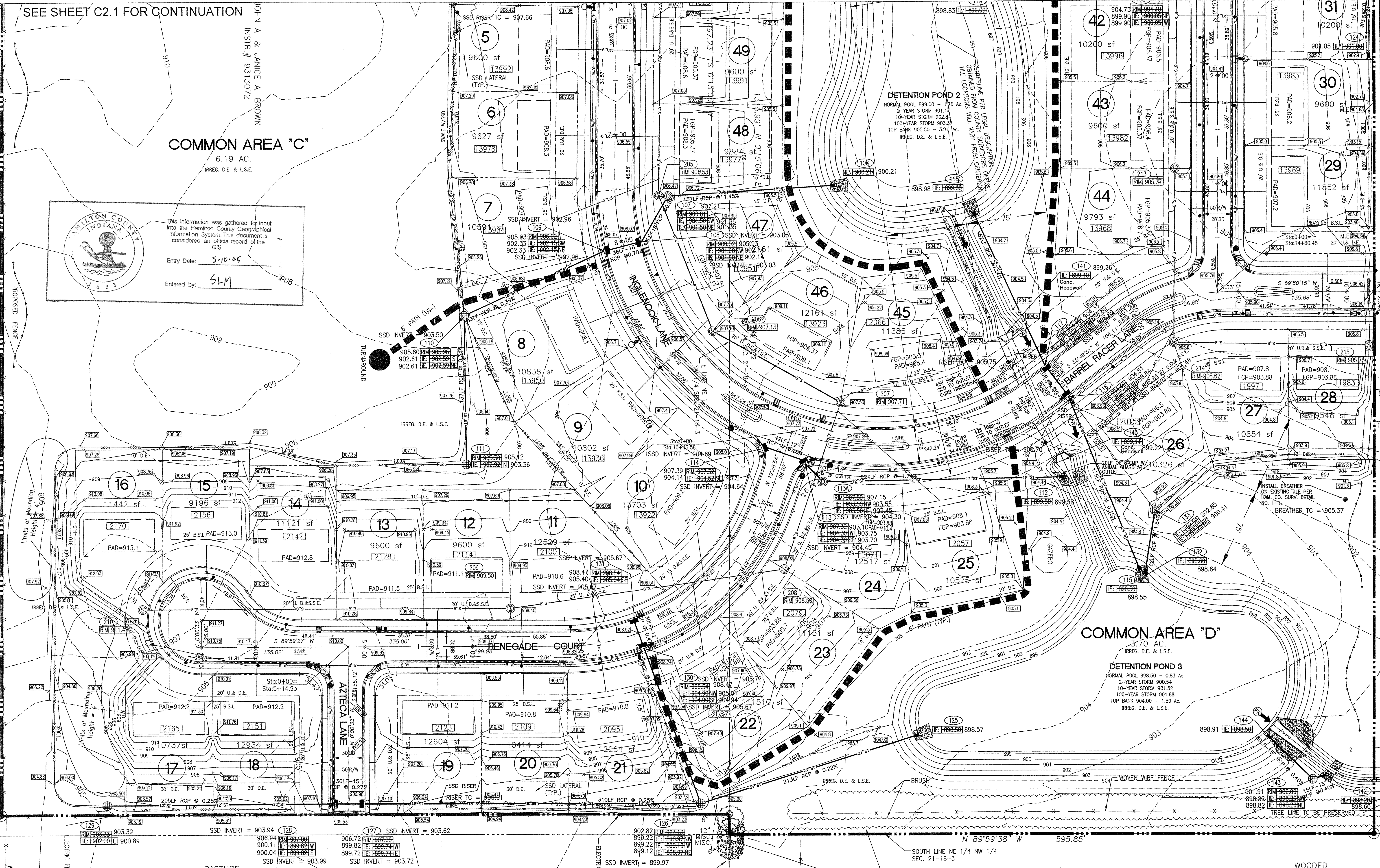
SEE SHEET C2.1 FOR CONTINUATION

JOHN A. & JANICE A. BROWN
INSTR. # 9313072

COMMON AREA "C"
6.19 AC.
IRREG. D.E. & L.S.E.



This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.
Entry Date: 5-10-05
Entered by: SLM

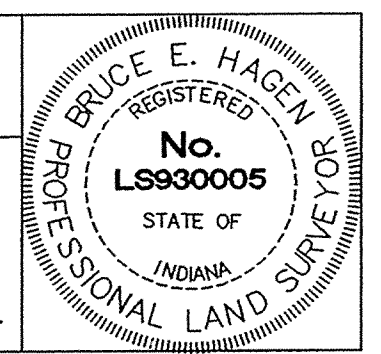


COMMON AREA "D"
3.70 AC.
IRREG. D.E. & L.S.E.

DETENTION POND 3
NORMAL POOL 898.50 - 0.83 Ac.
2-YEAR STORM 900.54
10-YEAR STORM 901.52
100-YEAR STORM 901.88
TOP BANK 904.00 - 1.50 Ac.
IRREG. D.E. & L.S.E.

AS BUILT

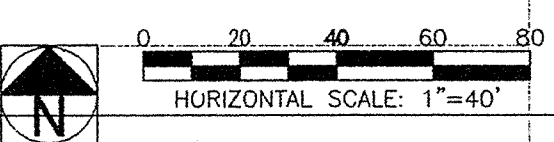
Sanitary Sewer Date: _____
Storm Sewer Date: 10/17/03
Date: _____
Approved By: *Sue Hoyle*



ANDREW W. &
RHONDA L. CROOK
INSTR. # 8711736

- NOTES:
- 1. DECORATIVE SIGNS, IRRIGATION SYSTEMS, TREES, LANDSCAPE MOUNDS, LIGHT POLES, AND OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT-OF-WAY.
 - 2. UTILITIES CROSSING BENEATH 141st STREET MUST BE PUSHED/BORED. ROAD CUTS ARE PROHIBITED.
 - 3. DRAINAGE STRUCTURES AND OTHER UTILITIES AFFECTED BY THE WIDENING OF 141st STREET WILL NEED TO BE EXTENDED.
 - 4. THE EXISTING REGULATED DRAIN TILE SHALL BE CONNECTED TO THE STORM DRAINAGE SYSTEM ON THE SOUTH SIDE OF 141st STREET. THE EXISTING DOWNSTREAM TILE SHALL BE CRUSHED AND ANY LATERALS SHALL BE CONNECTED TO THE PROPOSED STORM DRAINAGE SYSTEM.
 - 5. CURB RAMPS FOR THE MULTI-USE AND WALKING PATHS SHALL BE CONCRETE.

ROBERTA B FOSTER
DEED RECORD 343
PAGE 273-275



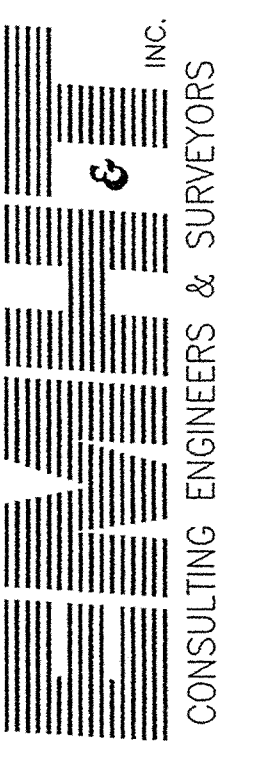
BENCHMARK DATA
PROJECT BENCHMARK:
U.S.C.S. Use stamped 93 RHP located at the southwest corner of the intersection of 146th Street and Ditch Road.
B.M. ELEVATION = 903.371
SITE BENCHMARK:
Railroad spike in East face of a fence corner post. Post located +/- 20' south of the centerline of 141st Street and +/- 35' west of the centerline of Beaumont Blvd.
B.M. ELEVATION = 905.77



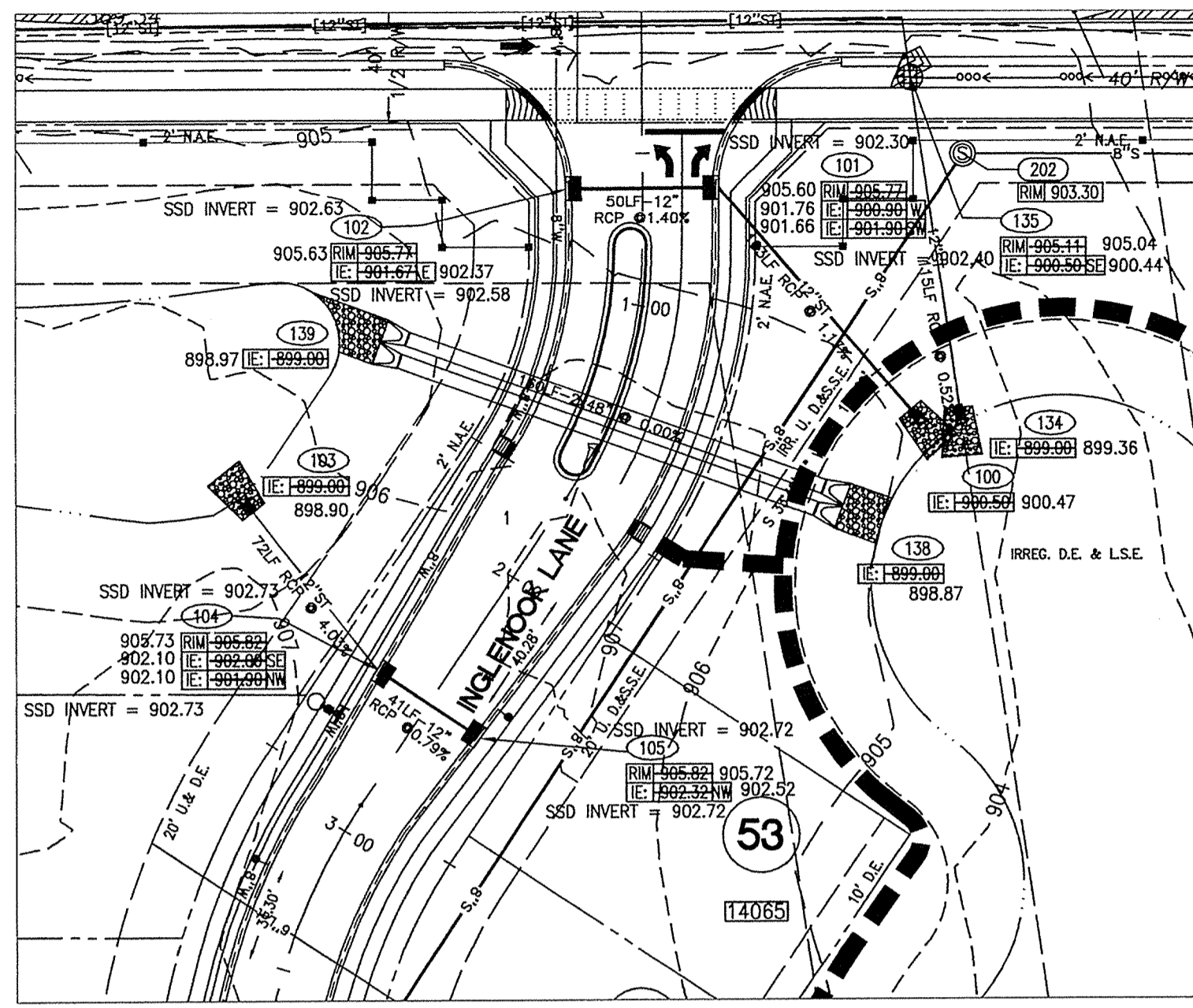
1-800-382-5544
CALL TOLL FREE
1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA

**AS-BUILT PLANS FOR
WESTWOOD ESTATES**
JUSTUS HOME BUILDERS, INC.
SITE DEVELOPMENT PLAN

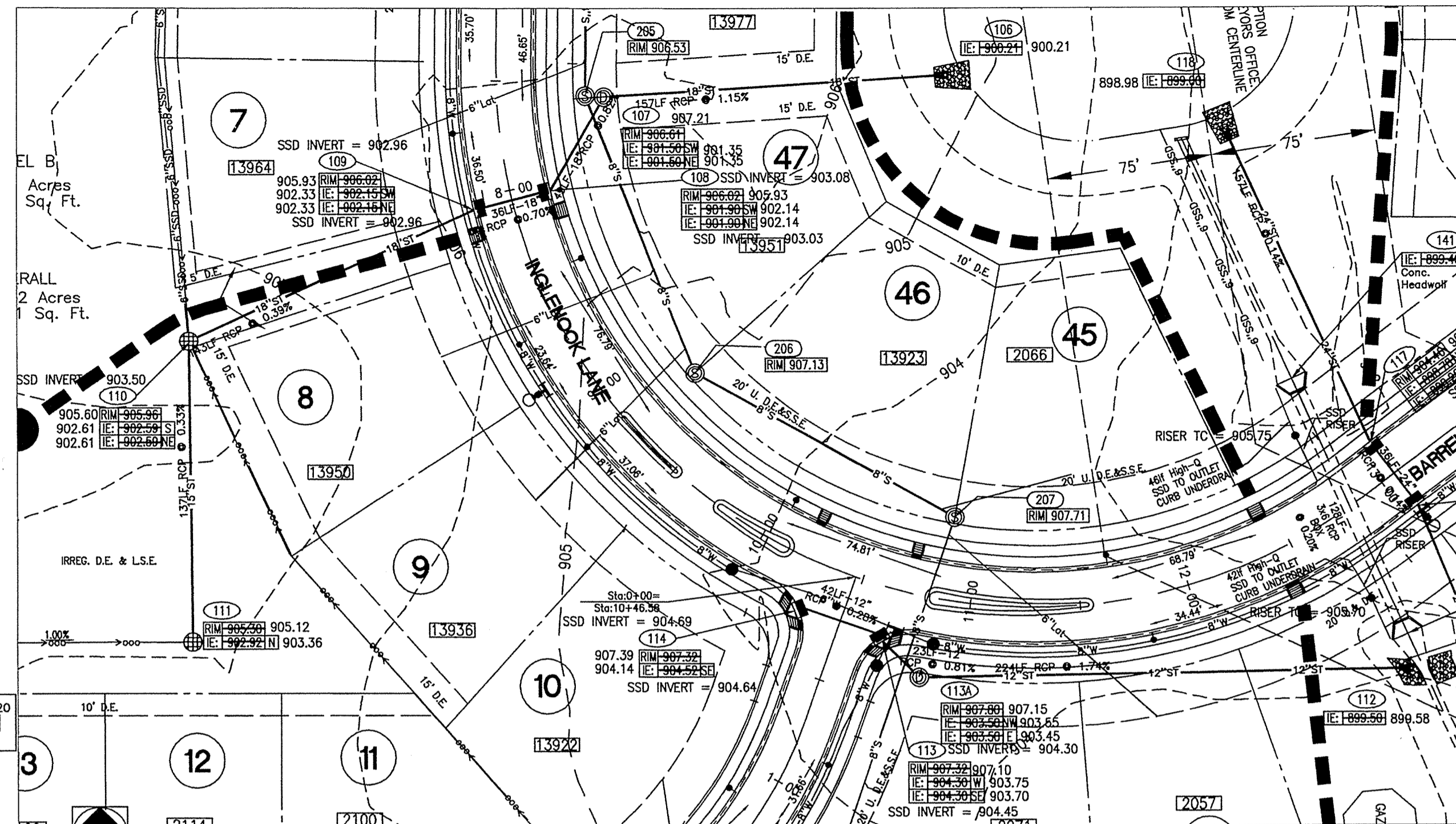
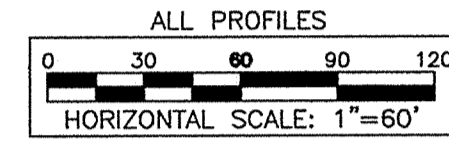
6994 HILLSDALE COURT
INDIANAPOLIS, IN 46250
Ph: 317-913-6930
FAX: 317-913-6928



JOB NO.
2002-1226
DATE:
08-29-03
SCALE:
1" = 40'
SHEET No.
C2.2

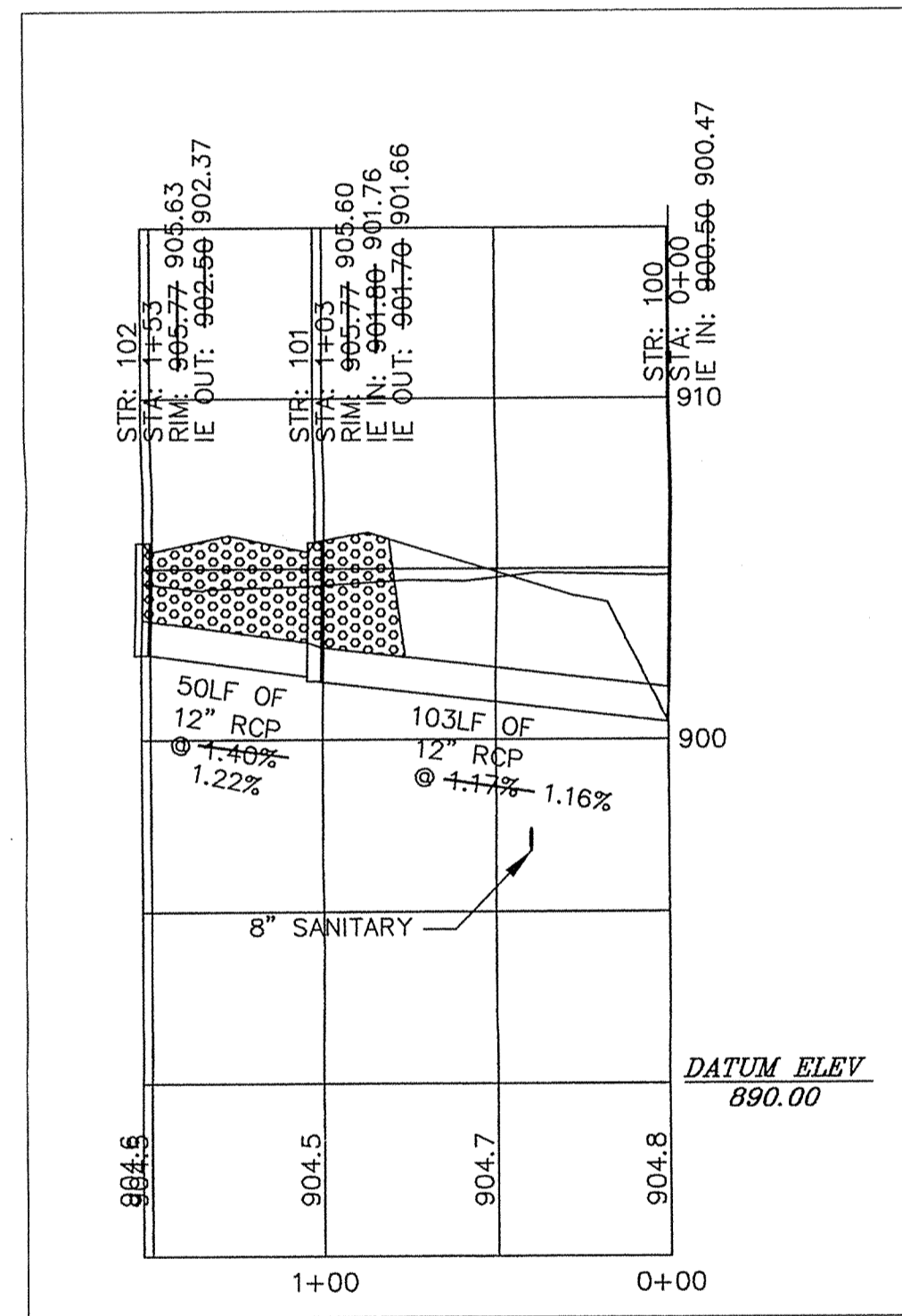


PLAN: STR: 100 TO 102 PLAN: STR: 103 TO 105

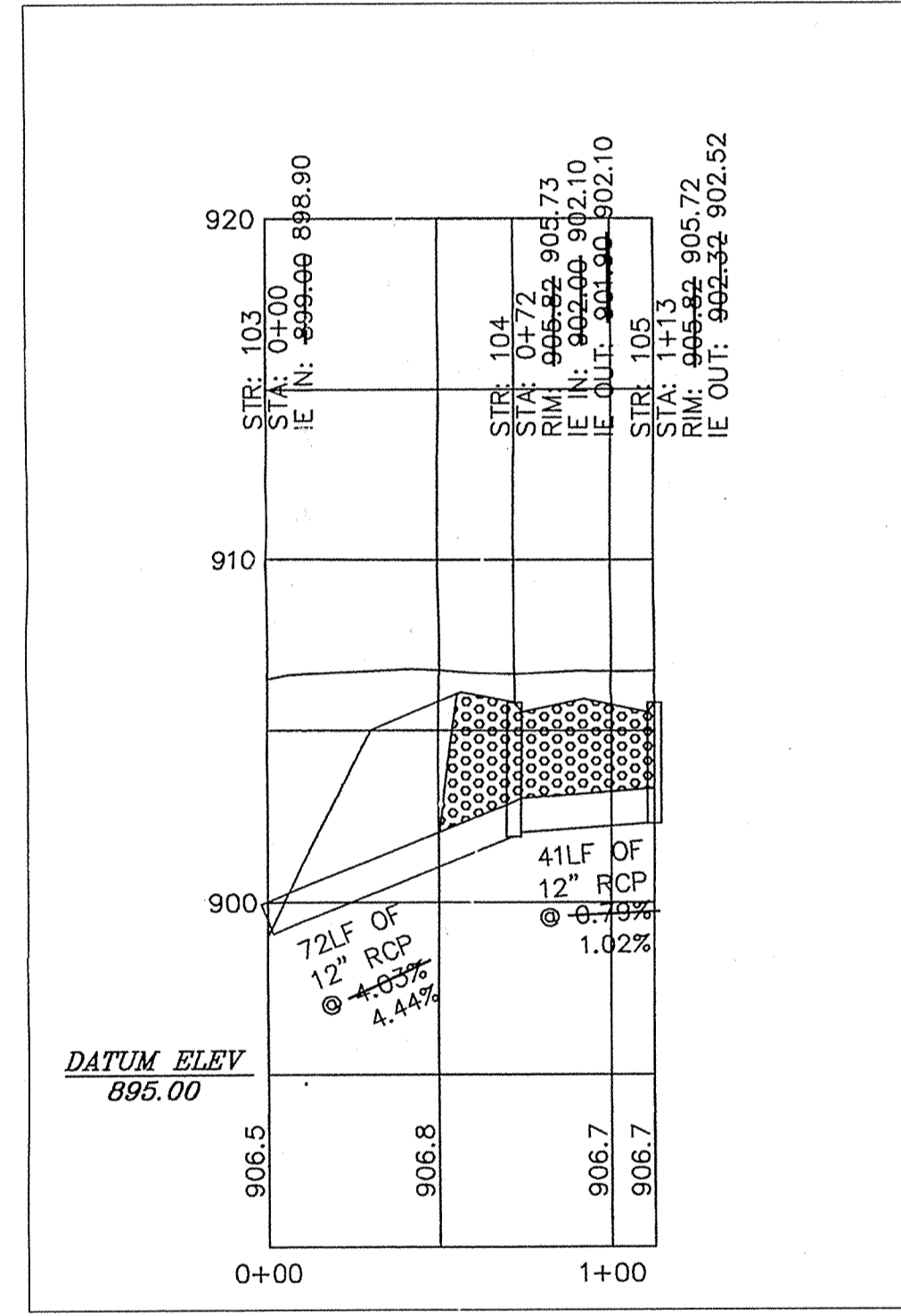


PLAN: STR: 106 TO 111

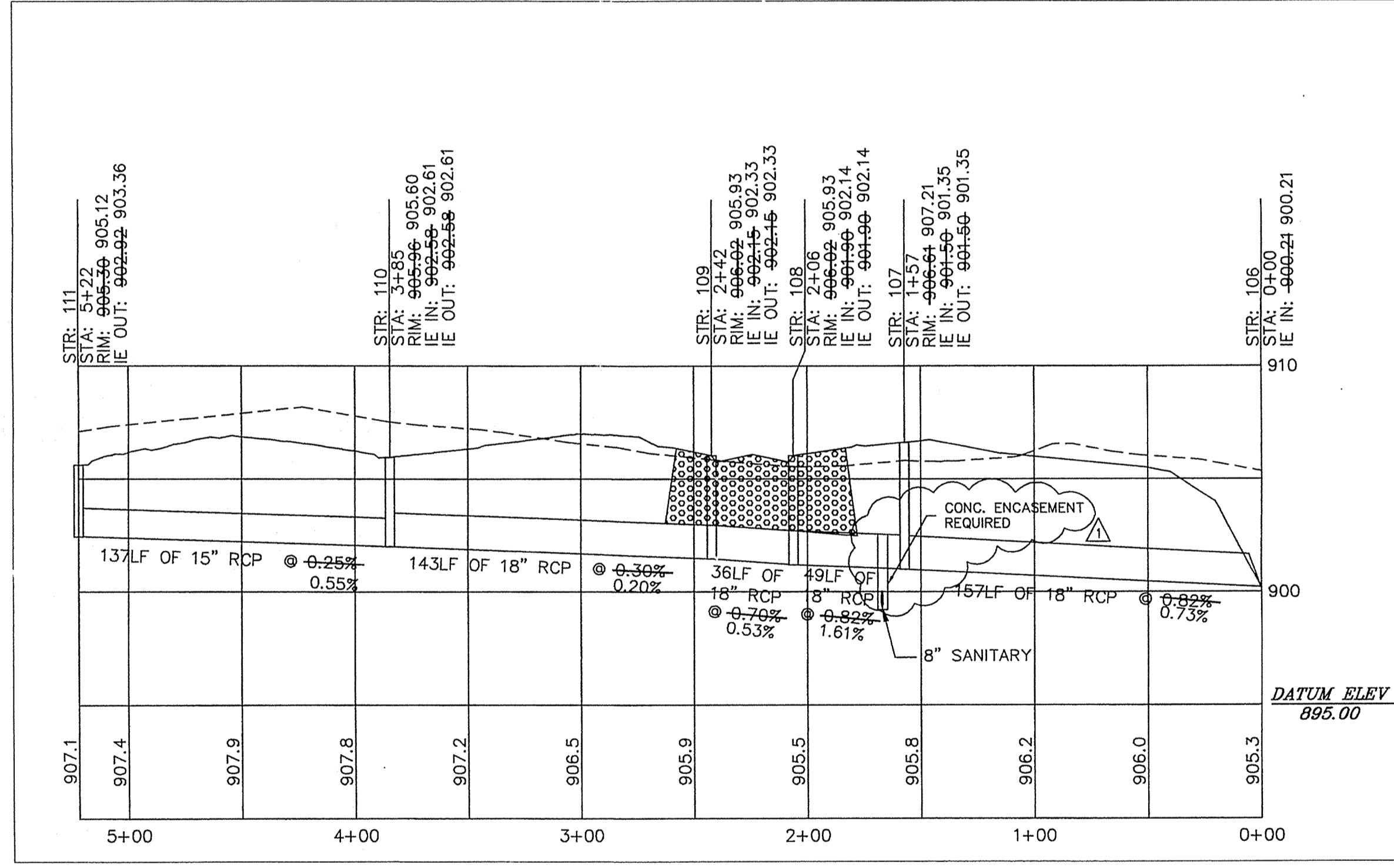
PLAN: STR: 112 TO 114



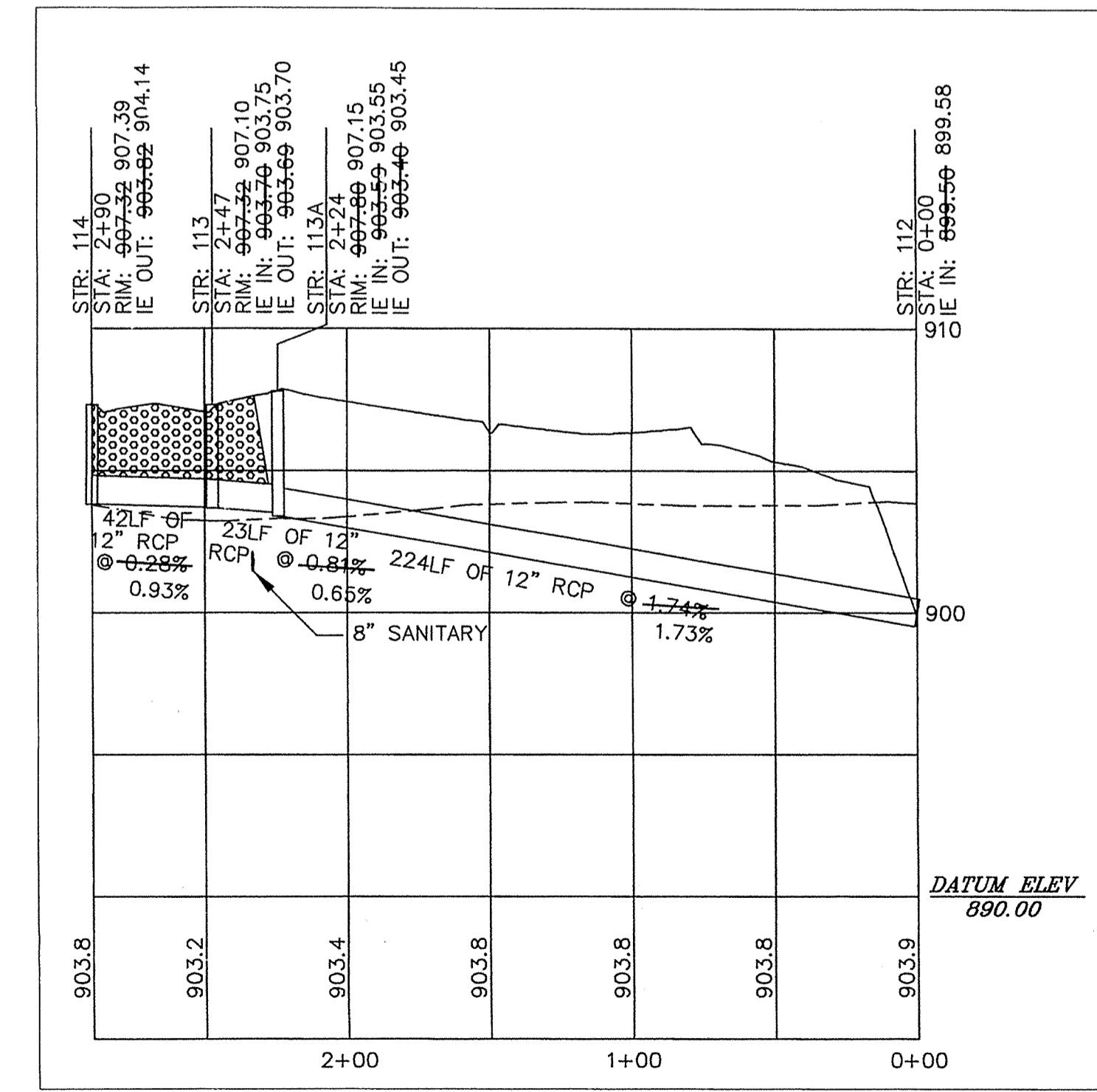
PROFILE: STR: 100 TO 102



PROFILE: STR: 103 TO 105



PROFILE: STR: 106 TO 111



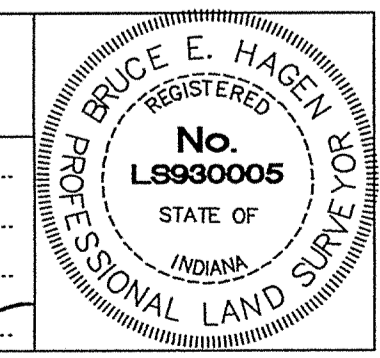
PROFILE: STR: 112 TO 114

STORM SEWER NETWORK DATA TABLE									
STRUCTURE (number)	STRUCTURE DATA			PIPE DATA					
	TYPE (detour)	DEPTH (feet)	CASTING (ft/branch)	STRUCTURE US	DS	SIZE (inches)	LENGTH (feet)	TYPE	
100	ST-4	-	END SECTION	-	-	12	-	-	RCP
101	MANHOLE	4.07	R-3501-TR	101	100	12	103	RCP	RCP
102	ST-4	3.27	R-3501-TR	102	101	12	50	RCP	RCP
103	ST-4	-	END SECTION	-	-	12	-	-	RCP
104	ST-1	3.92	R-3501-TR	104	103	12	72	RCP	RCP
105	ST-1	3.50	R-3501-TR	105	104	12	41	RCP	RCP
106	ST-4	-	END SECTION	-	-	18	-	-	RCP
107	MANHOLE	5.11	R-1772-A	107	106	18	157	RCP	RCP
108	MANHOLE	4.12	R-3501-TR	108	107	18	49	RCP	RCP
109	ST-1	3.87	R-3501-TR	109	108	18	36	RCP	RCP
110	ST-1	3.36	R-4342	110	109	18	143	RCP	RCP
111	ST-1	2.38	R-4342	111	110	15	137	RCP	RCP
112	ST-4	-	END SECTION	-	-	12	-	-	RCP
113A	MANHOLE	4.40	R-1772-A	113A	112	12	224	RCP	RCP
113	ST-1	3.63	R-3501-TR	113	113A	12	23	RCP	RCP
114	ST-1	3.50	R-3501-TR	114	113	12	42	RCP	RCP
115	ST-4	-	END SECTION	-	-	24	-	-	RCP
116	MANHOLE	5.73	R-3501-TR	116	115	24	176	RCP	RCP
117	MANHOLE	5.68	R-3501-TR	117	116	24	36	RCP	RCP
118	ST-4	-	END SECTION	-	-	24	157	RCP	RCP
119	ST-4	-	END SECTION	-	-	18	-	-	RCP
120	MANHOLE	3.90	R-1772-A	120	119	18	179	RCP	RCP
121	ST-1	3.88	R-3501-TR	121	120	18	26	RCP	RCP
122	ST-1	3.88	R-3501-TR	122	121	15	26	RCP	RCP
123	ST-1	2.17	R-4342	123	122	15	126	RCP	RCP
124	ST-4	-	END SECTION	-	-	12	65	RCP	RCP
125	ST-4	-	END SECTION	-	-	21	-	-	RCP
126	MANHOLE	4.16	R-4342	126	125	21	213	RCP	RCP
127	MANHOLE	7.26	R-3501-TR	127	126	18	310	RCP	RCP
128	MANHOLE	7.18	R-3501-TR	128	127	15	30	RCP	RCP
129	ST-1	3.00	R-4342	129	128	12	205	RCP	RCP
130	ST-1	3.84	R-3501-TR	130	128	15	152	RCP	RCP
131	ST-1	3.50	R-3501-TR	131	130	12	30	RCP	RCP
132	ST-4	-	END SECTION	-	-	12	-	-	RCP
133	ST-1	3.00	R-4342	133	132	12	62	RCP	RCP
134	ST-4	-	END SECTION	-	-	12	-	-	RCP
135	MANHOLE	5.51	R-4342	135	134	12	115	RCP	RCP
136	ST-4	-	END SECTION	-	-	18	-	-	RCP
137	MANHOLE	5.00	R-4342	137	136	18	72	RCP	RCP
138	ST-4	-	END SECTION	-	-	2 x 48"	-	-	RCP
139	ST-4	-	END SECTION	-	-	2 x 48"	160	RCP	RCP
140	-	-	HEADWALL	-	-	3' x 6'	-	-	RCP
141	-	-	HEADWALL	141	140	3' x 6'	128	RCP	RCP
142	ST-4	-	END SECTION	-	-	15	-	-	RCP
143	ST-1	3.74	R-4342	143	142	15	14	RCP	RCP
144	ST-4	-	END SECTION	-	-	15	60	RCP	RCP

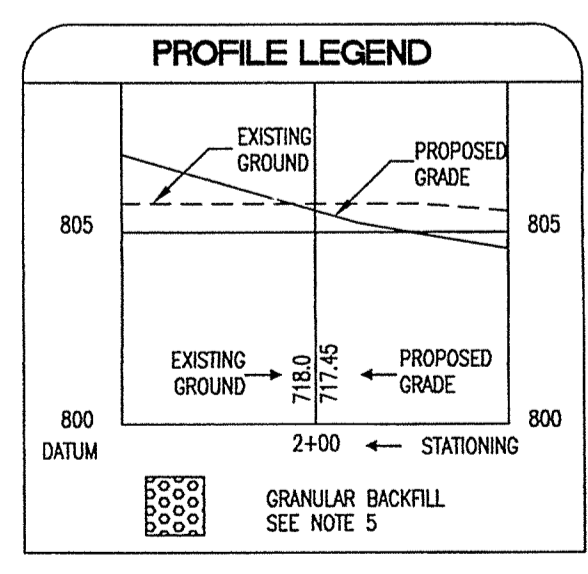
ST-11 STORM STRUCTURE DATA TABLE SCALE: NONE

NOTES:
 1. THE DEPTH OF THE STRUCTURE IS CALCULATED FROM THE TO OR RIM ELEVATION TO THE INVERT OUT.
 2. THE PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE THE LENGTH OF END SECTIONS.
 3. SEE STORM SEWER PLAN & PROFILES SHEETS TO CONFIRM PIPE LENGTHS AND STRUCTURE INFORMATION PRIOR TO FABRICATION.

AS BUILT
 Sanitary Sewer Date: / /
 Storm Sewer Date: 10 / 17 / 03
 Approved By: *Bruce E. Hagen*

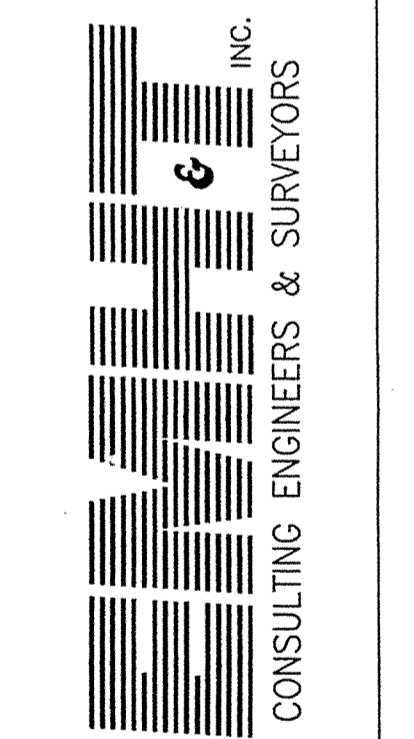


HAMILTON COUNTY INDIANA
 This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.
 Entry Date: 5-8-05
 Entered by: SLM

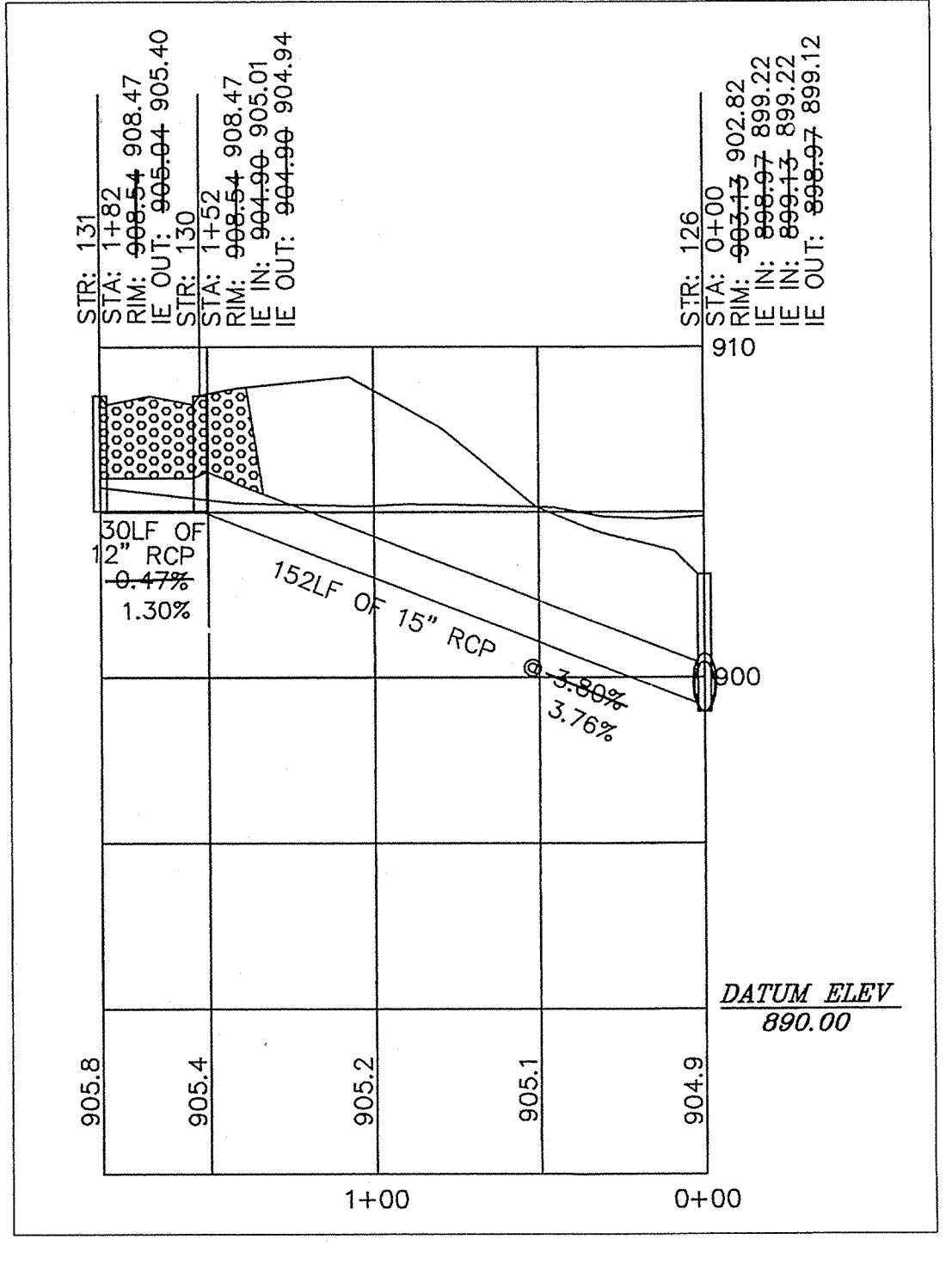
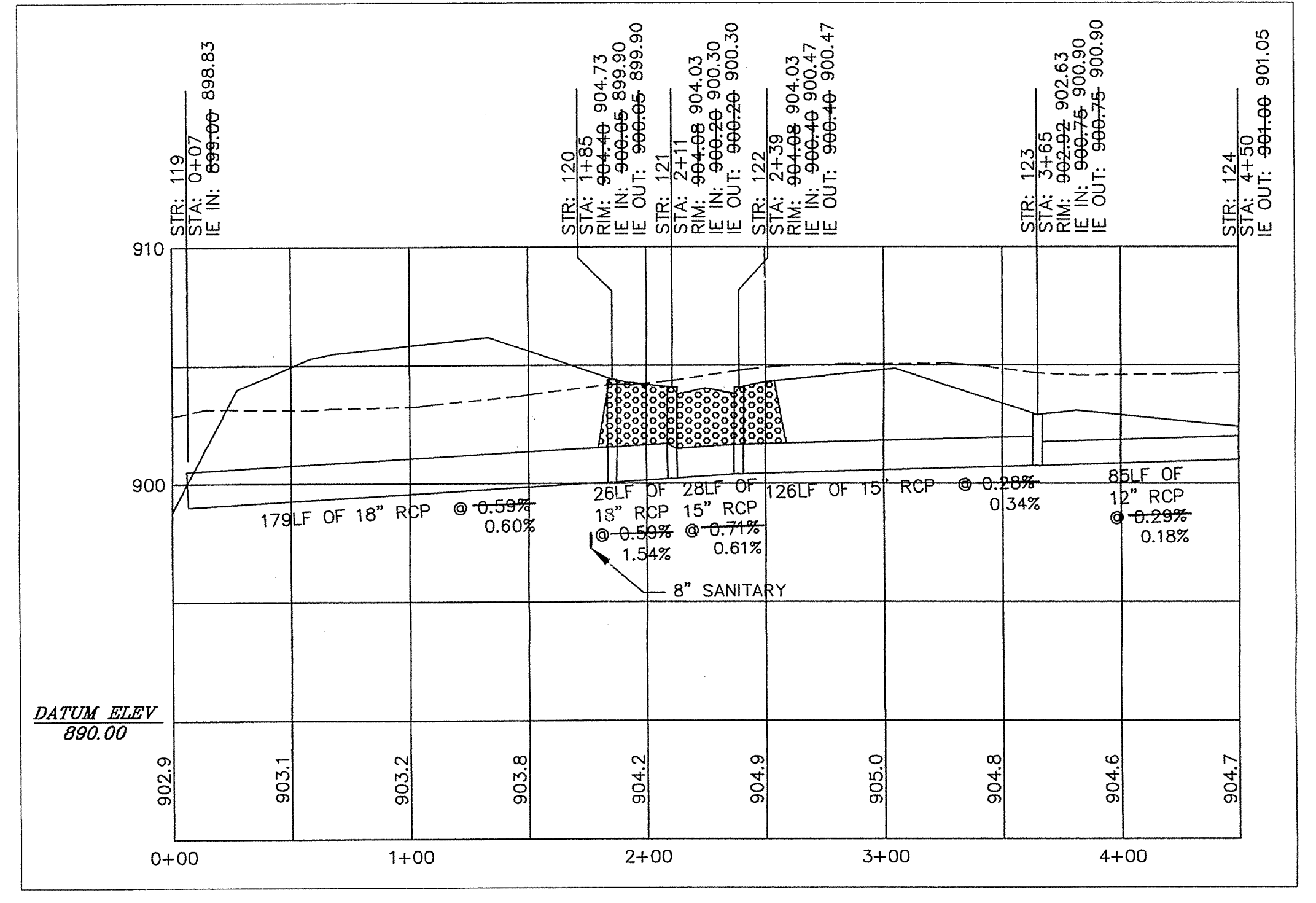
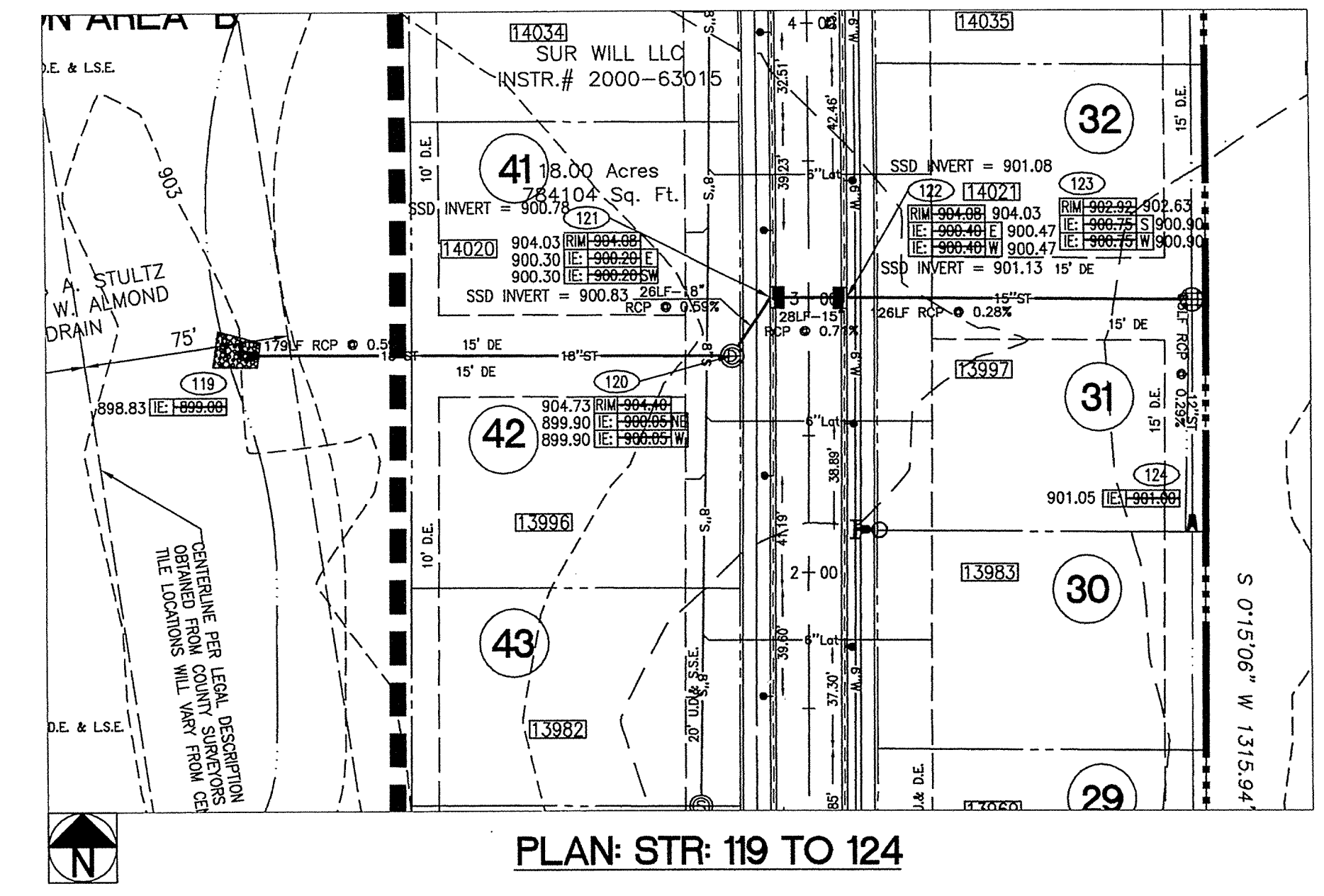
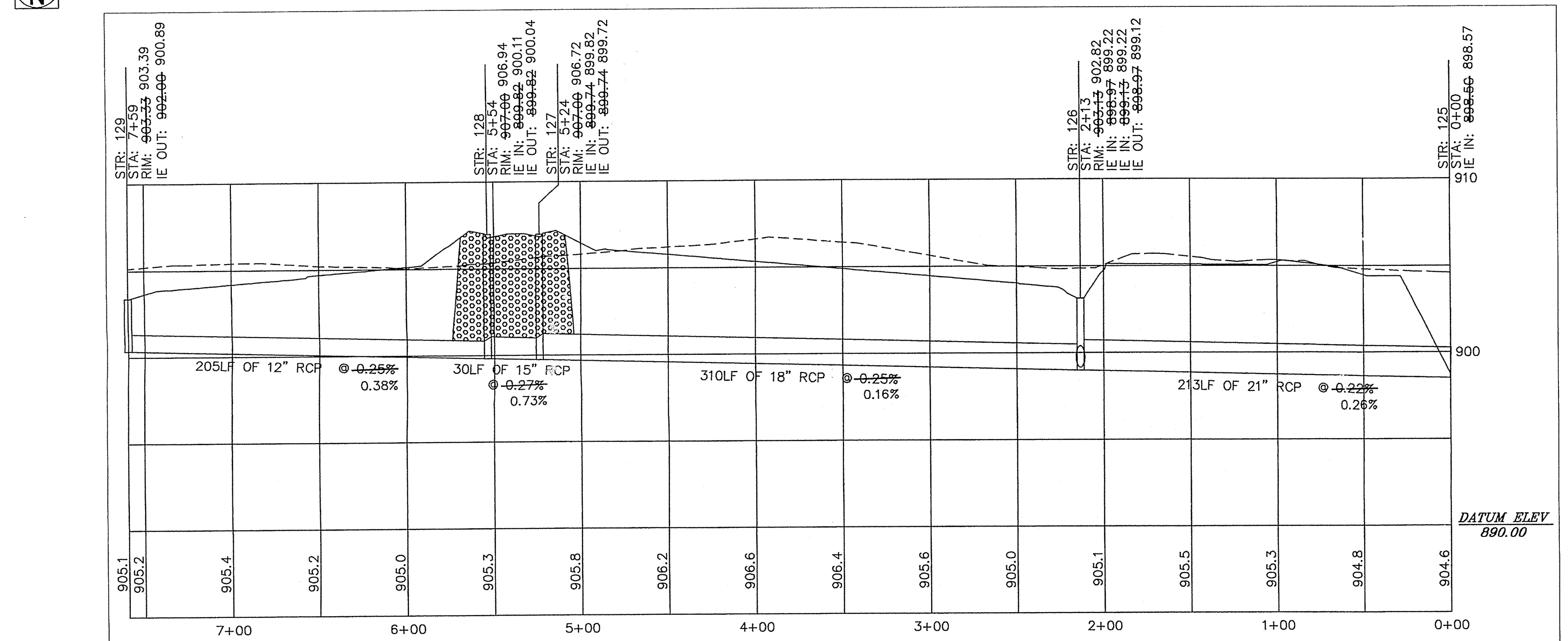
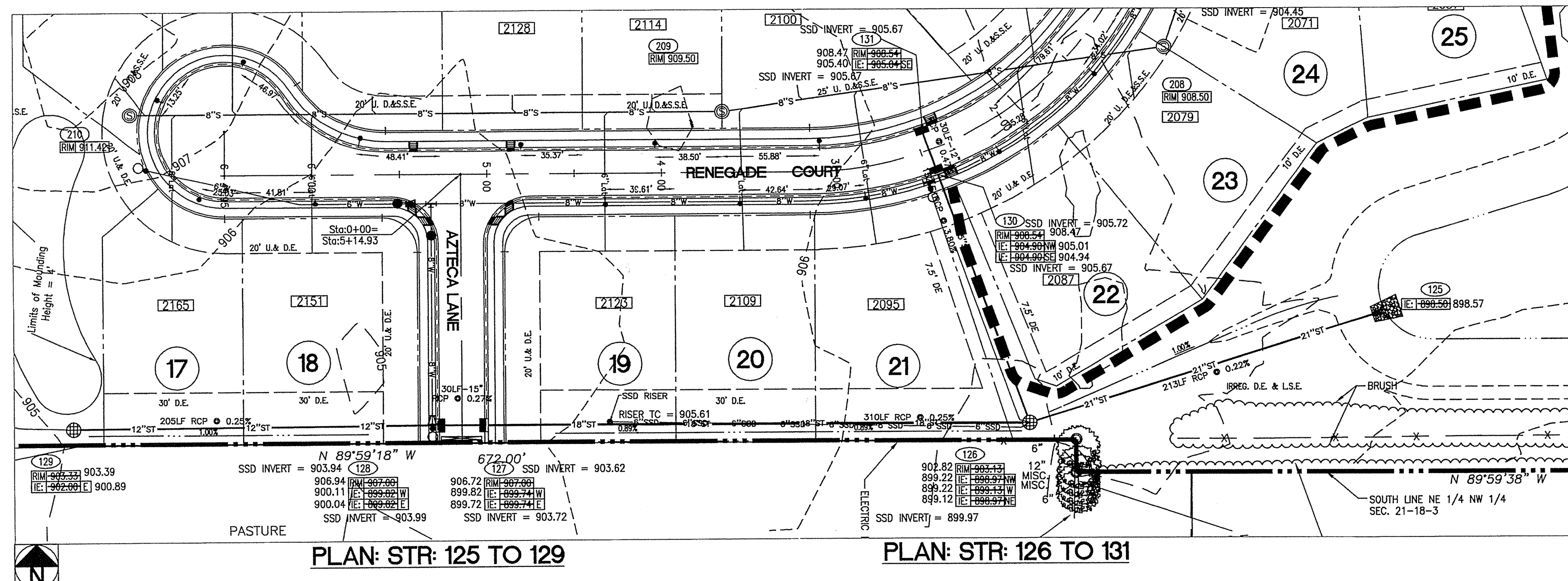


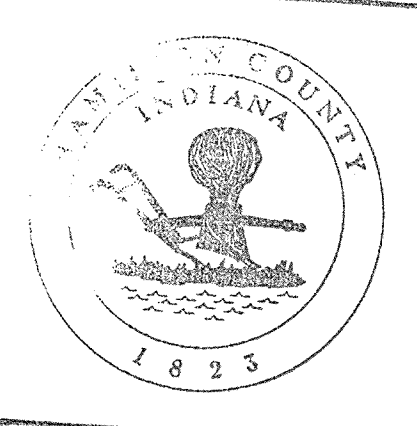
AS-BUILT PLANS FOR
 WESTWOOD ESTATES
 JUSTUS HOME BUILDERS, INC.
 STORM SEWER
 PLAN AND PROFILES

6994 HILLSDALE COURT
 INDIANAPOLIS, IN 46250
 Ph: 317-913-6930
 FAX: 317-913-6928

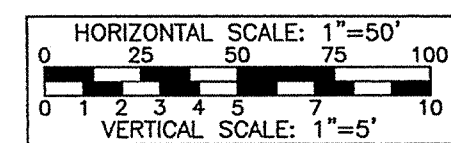
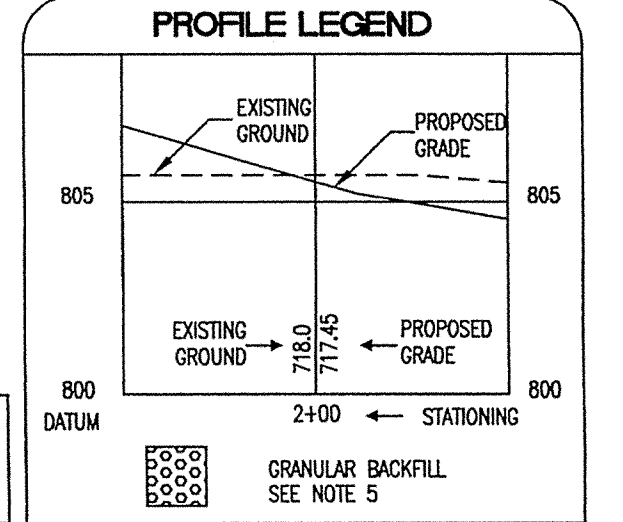


JOB NO.
 2002-1226
 DATE:
 08-29-03
 SCALE:
 1" = 50'
 SHEET No.
C5.0



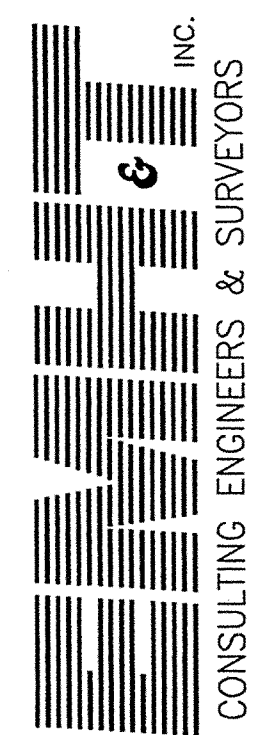

 This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.
 Entry Date: 7-10-05
 Entered by: SIM

AS BUILT
 Sanitary Sewer Date: _____
 Storm Sewer Date: 10/17/03
 Approved By: *Bruce E. Hagen*

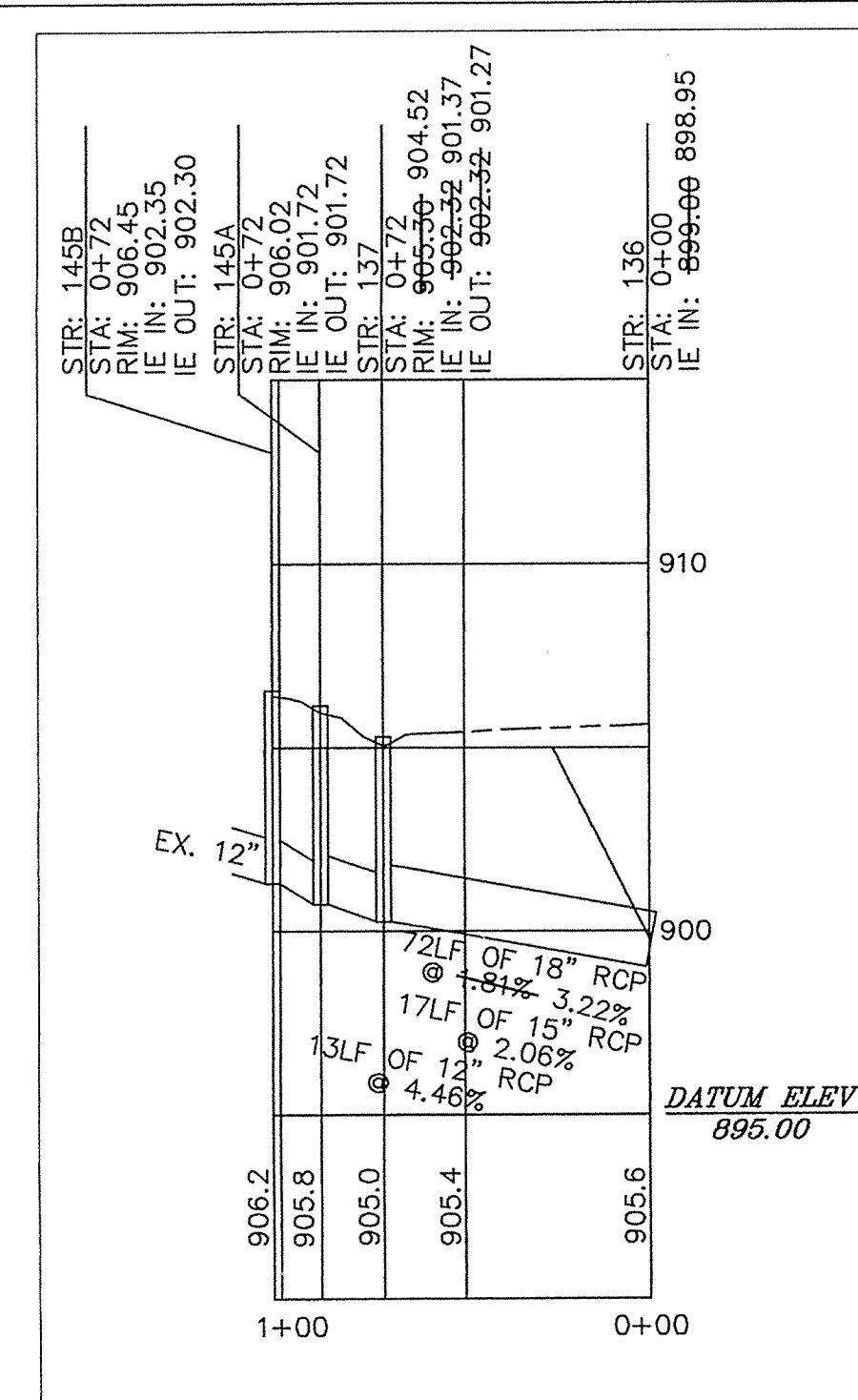


AS-BUILT PLANS FOR WESTWOOD ESTATES
 JUSTUS HOME BUILDERS, INC.
STORM SEWER PLAN AND PROFILE

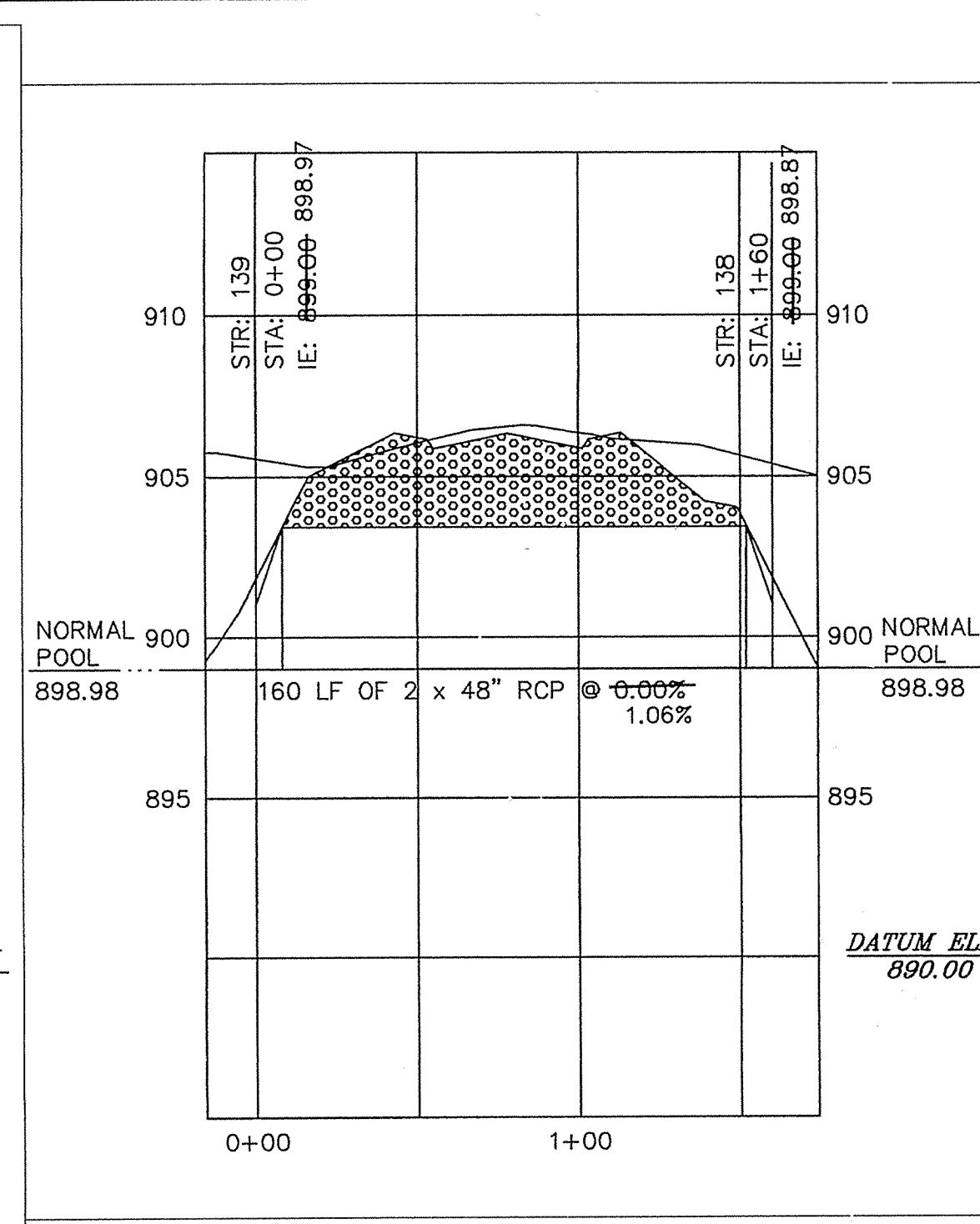
6994 HILLSDALE COURT
 INDIANAPOLIS, IN 46250
 Ph: 317-913-6930
 FAX: 317-913-6928


 CONSULTING ENGINEERS & SURVEYORS

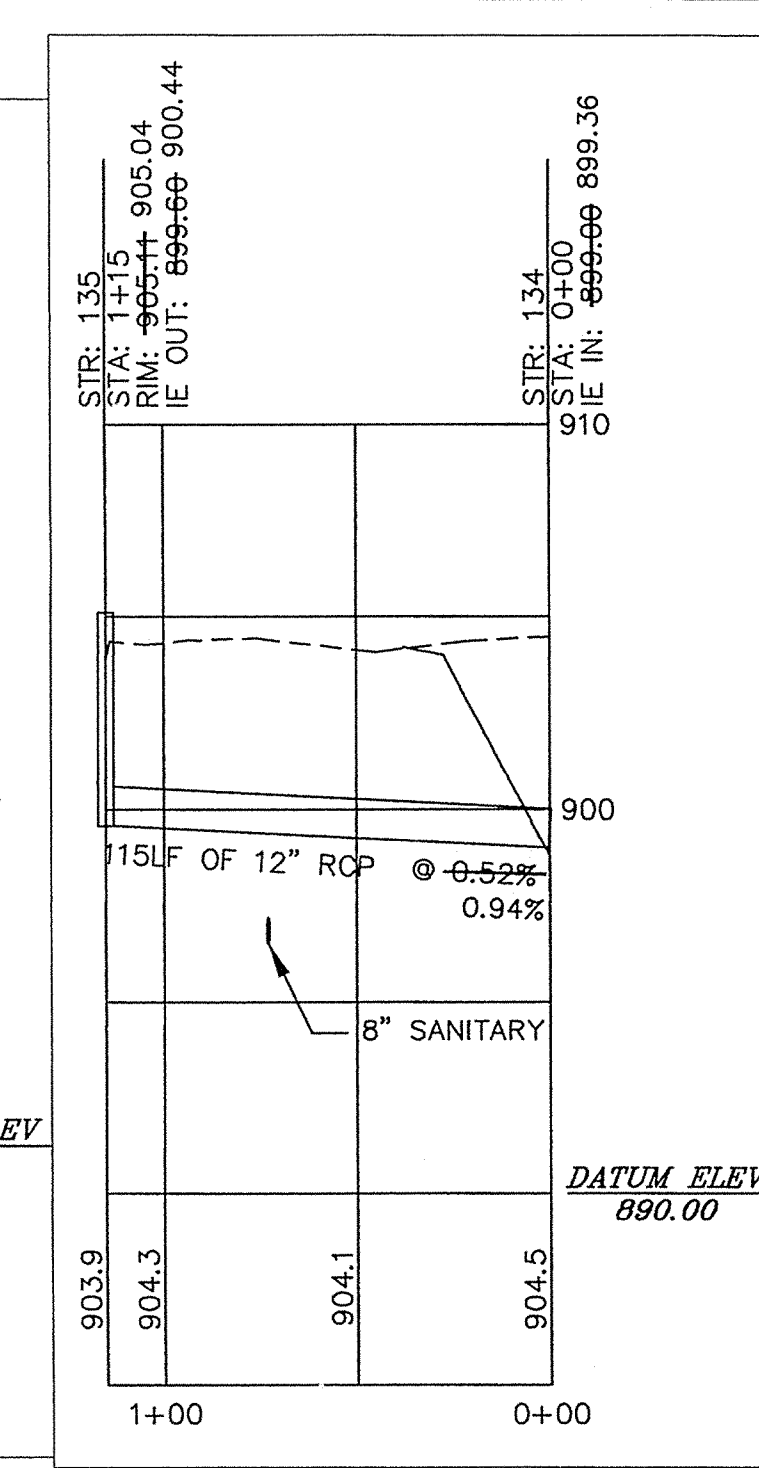
JOB NO. 2002-1226
 DATE: 08-29-03
 SCALE: 1" = 50'
SHEET No. C5.1



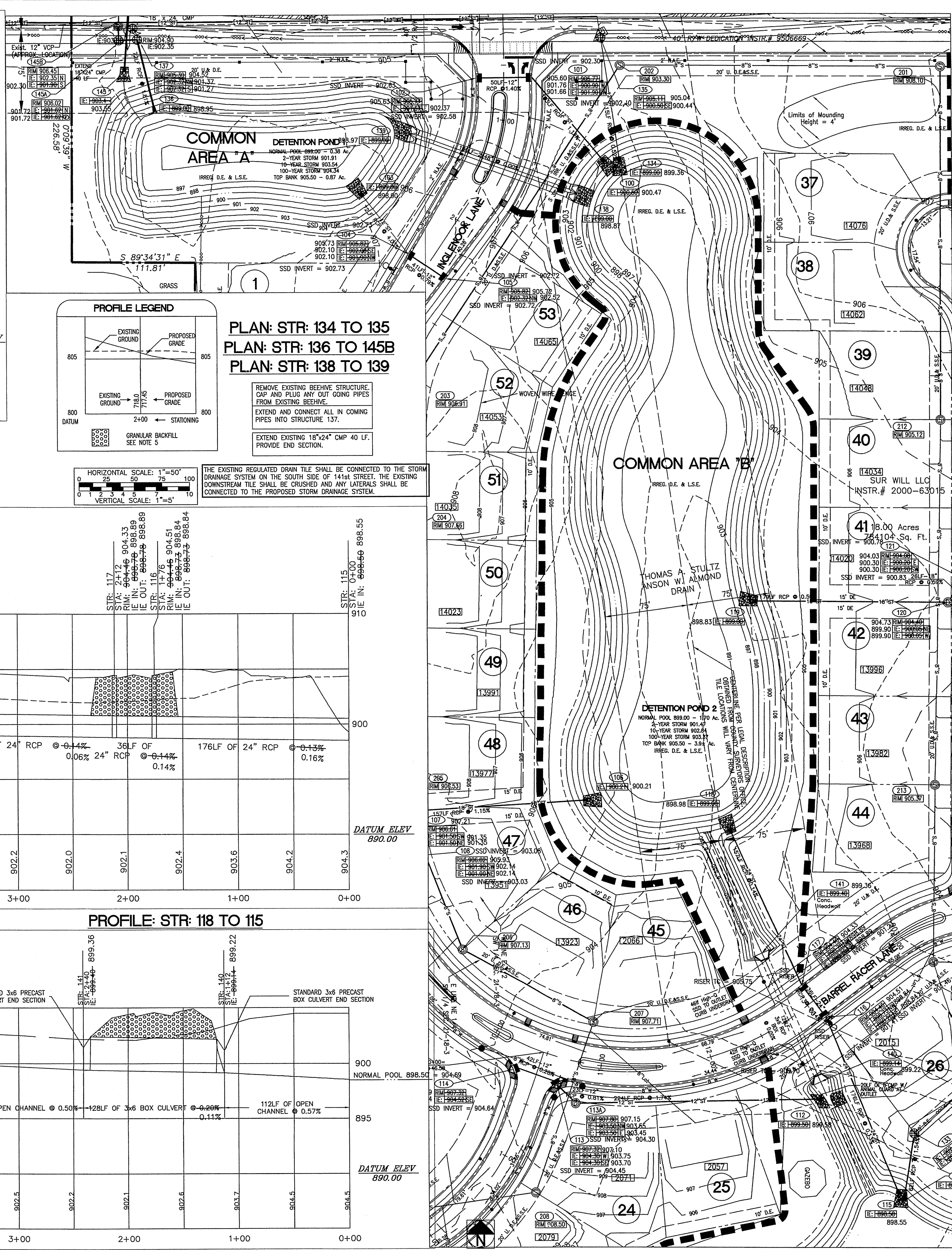
PROFILE: STR: 145B TO 136



PROFILE: STR: 139 TO 138



PROFILE: STR: 135 TO 134



PROFILE LEGEND

EXISTING GROUND
PROPOSED GRADE

EXISTING GROUND
PROPOSED GRADE

GRANULAR BACKFILL
SEE NOTE 5

PLAN: STR: 134 TO 135
PLAN: STR: 136 TO 145B
PLAN: STR: 138 TO 139

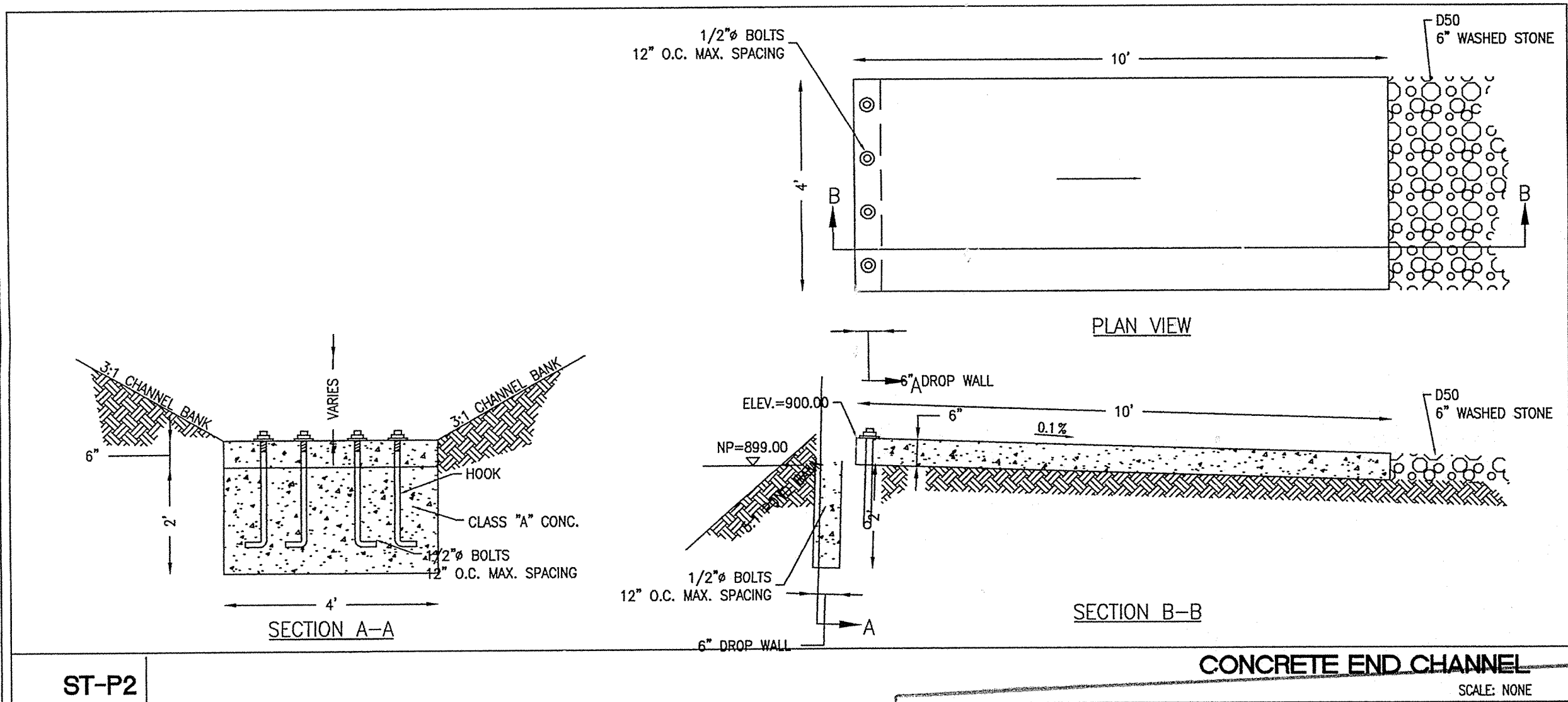
REMOVE EXISTING BEEHIVE STRUCTURE, CAP AND PLUG ANY OUT GOING PIPES FROM EXISTING BEEHIVE.

EXTEND AND CONNECT ALL IN COMING PIPES INTO STRUCTURE 137.

EXTEND EXISTING 18"x24" CMP 40 LF. PROVIDE END SECTION.

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

THE EXISTING REGULATED DRAIN TILE SHALL BE CONNECTED TO THE STORM DRAINAGE SYSTEM ON THE SOUTH SIDE OF 141ST STREET. THE EXISTING DOWNSIDE TILE SHALL BE CRUSHED AND ANY LATERALS SHALL BE CONNECTED TO THE PROPOSED STORM DRAINAGE SYSTEM.



AS BUILT

Sanitary Sewer Date: 10/17/03
Storm Sewer Date: 10/17/03

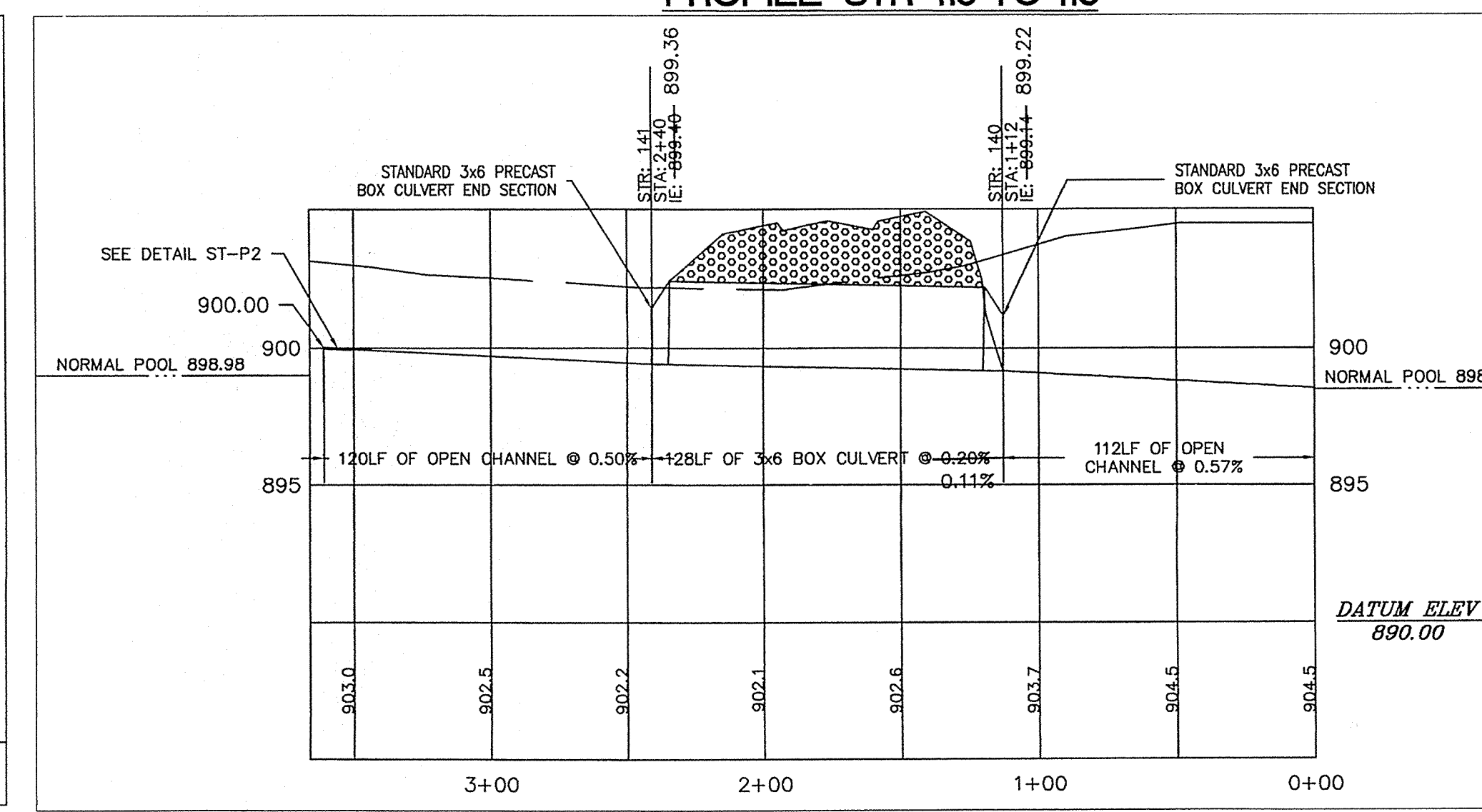
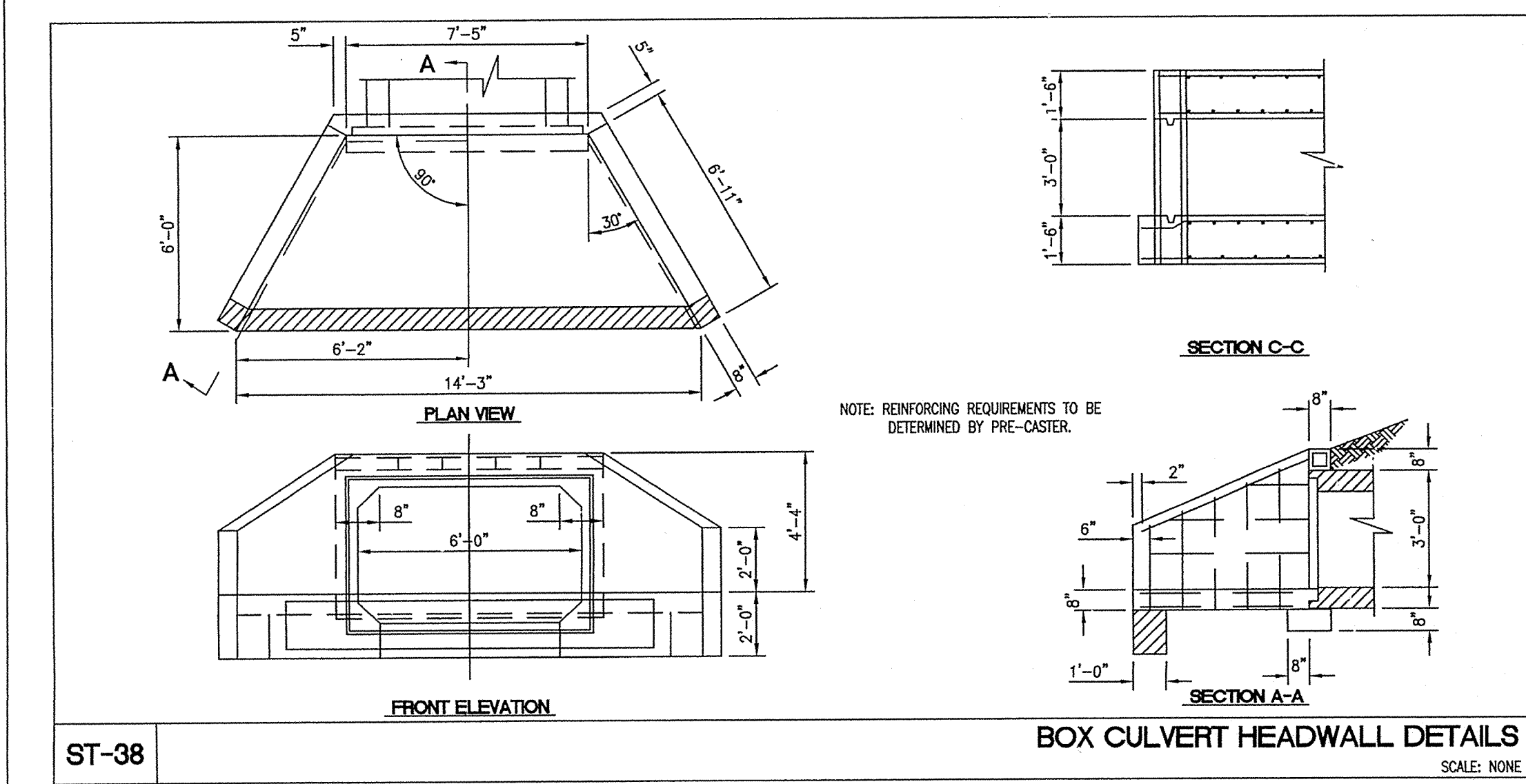
APPROVED BY: [Signature]

BRUCE E. HAGEM
REGISTERED PROFESSIONAL LAND SURVEYOR
No. LS930005
STATE OF INDIANA

HAMILTON COUNTY INDIANA

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 9-10-05
Entered by: SLM



PROFILE: STR: 141 TO 140

PLAN: STR: 118 TO 115 PLAN: STR: 141 TO 140

AS-BUILT PLANS FOR
WESTWOOD ESTATES
JUSTUS HOME BUILDERS, INC.

6994 HILLSDALE COURT
INDIANAPOLIS, IN 46250
Ph: 317-913-6930
FAX: 317-913-6928

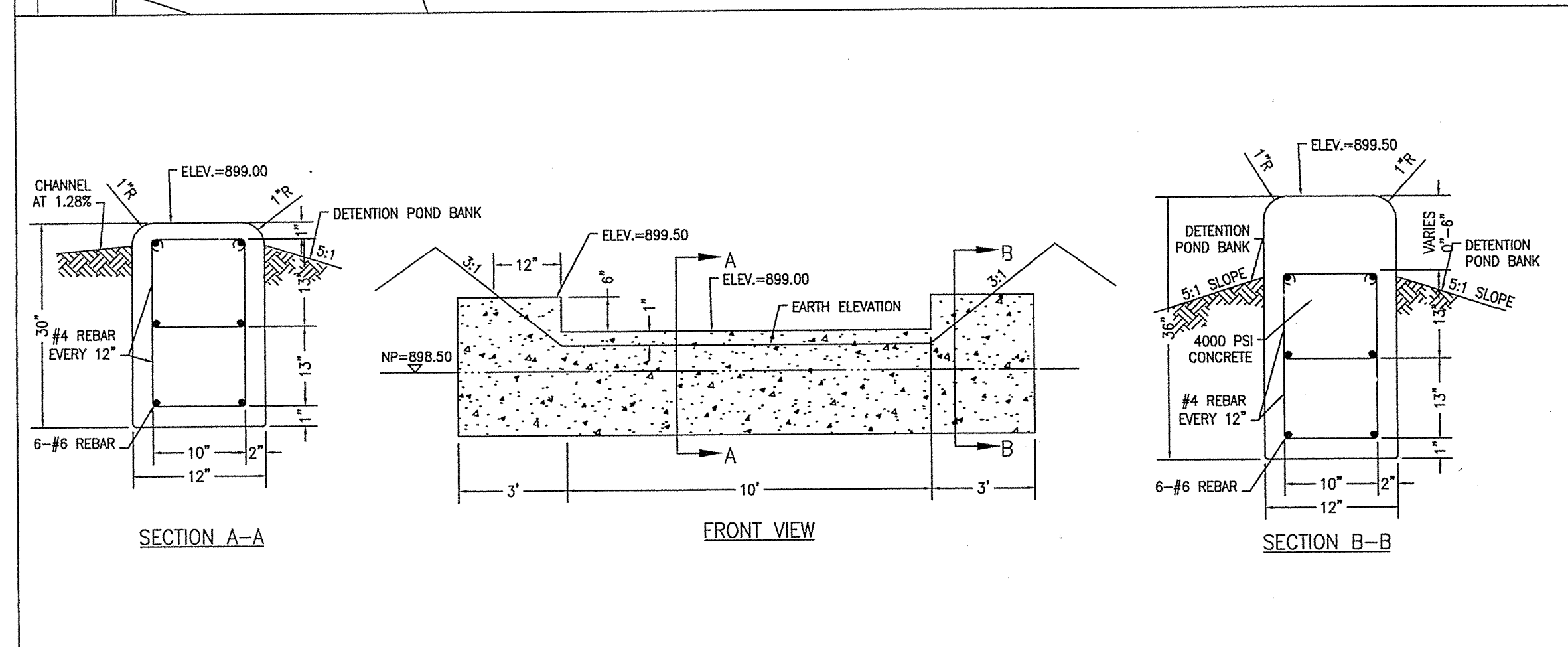
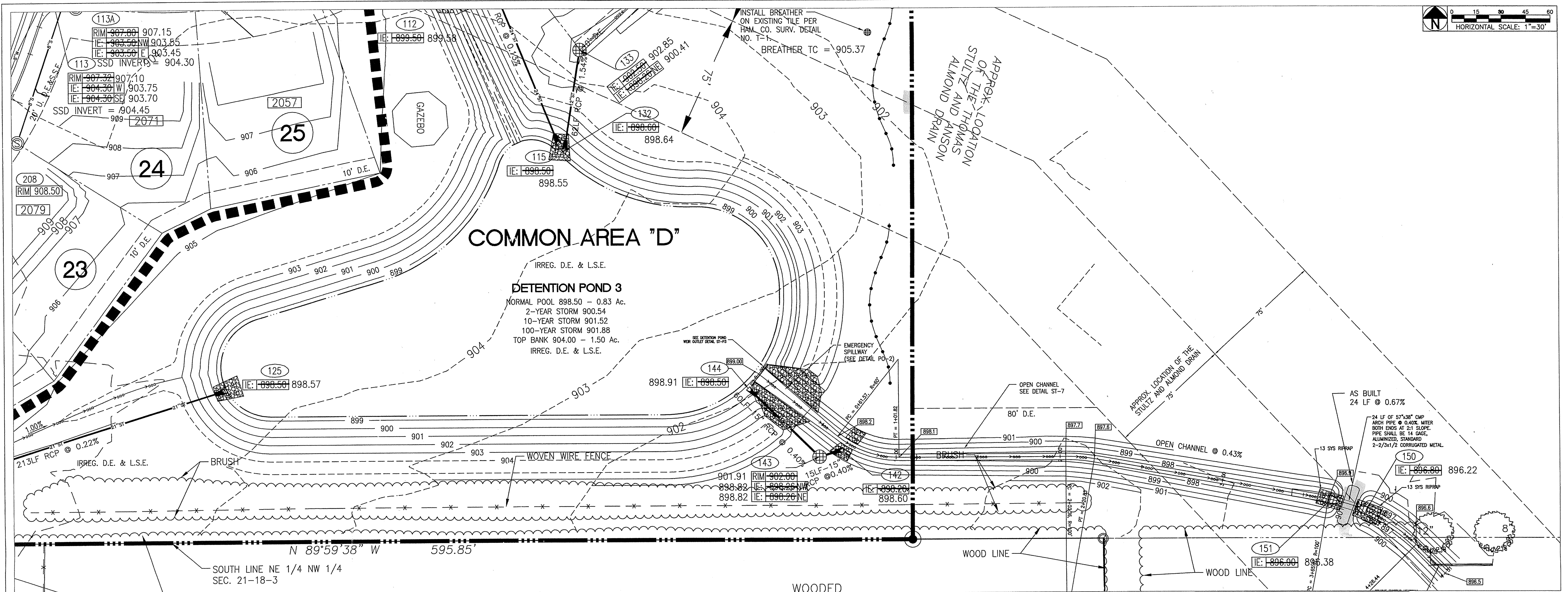
INC.

CONSULTING ENGINEERS & SURVEYORS

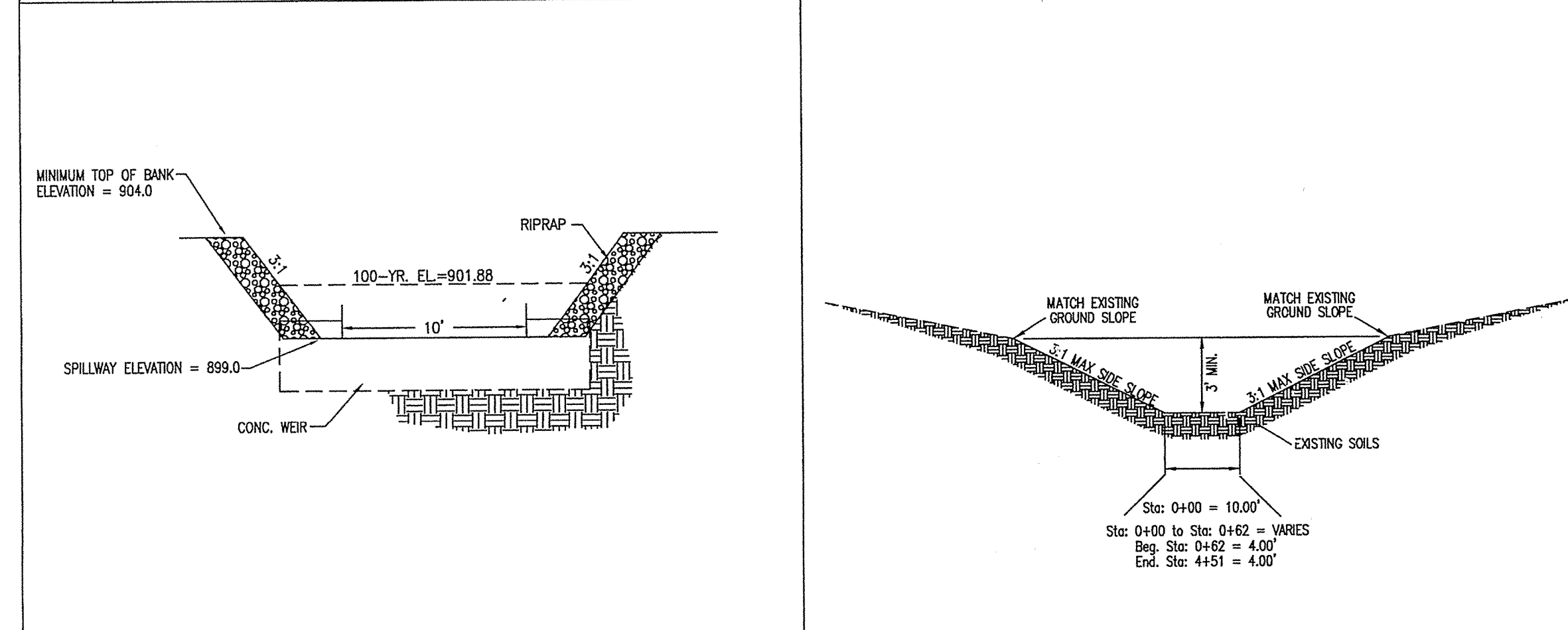
JOB NO. 2002-1226
DATE: 08-29-03
SCALE: 1" = 50'

SHEET No. C5.2

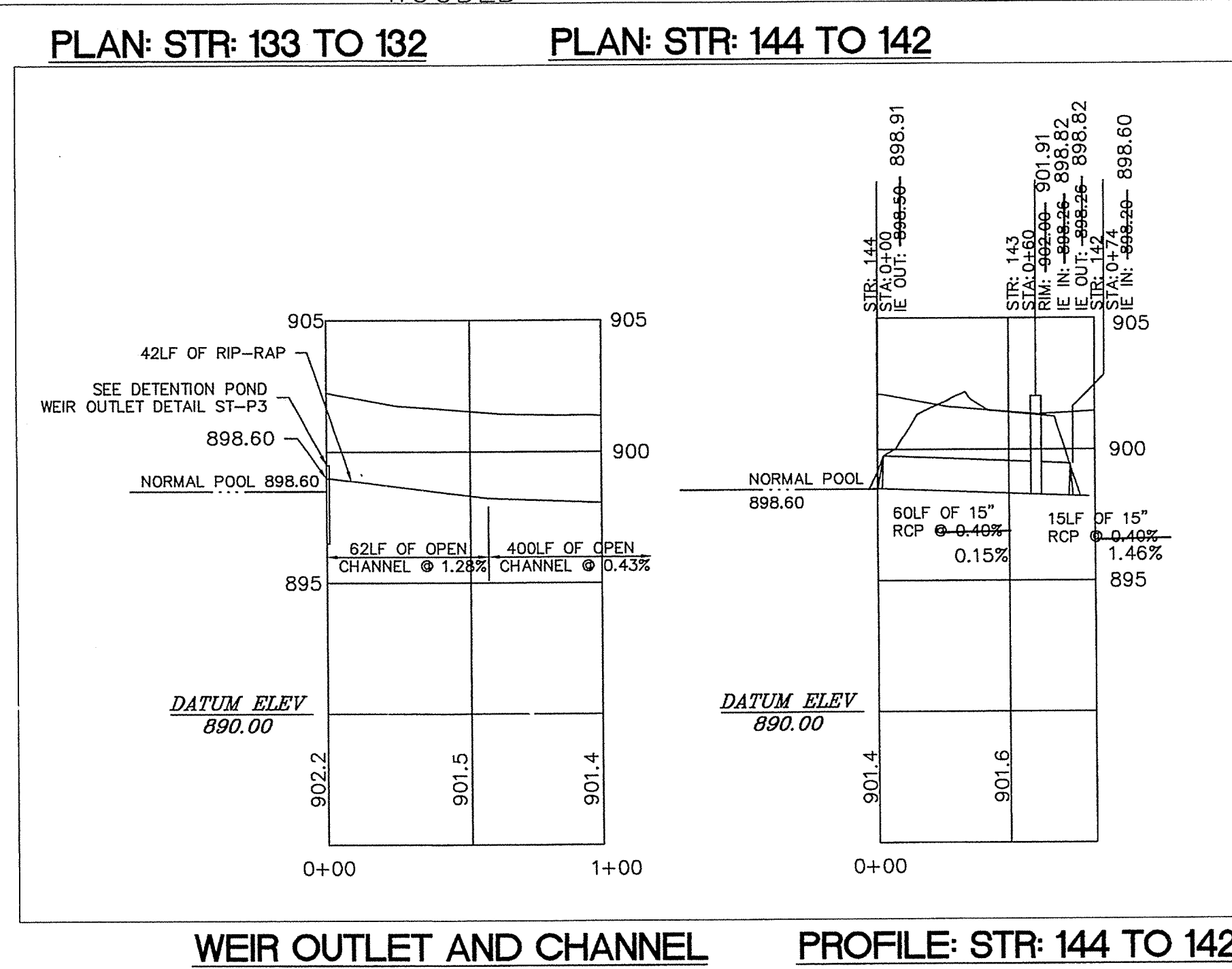
DESCRIPTION
REVISION DATE



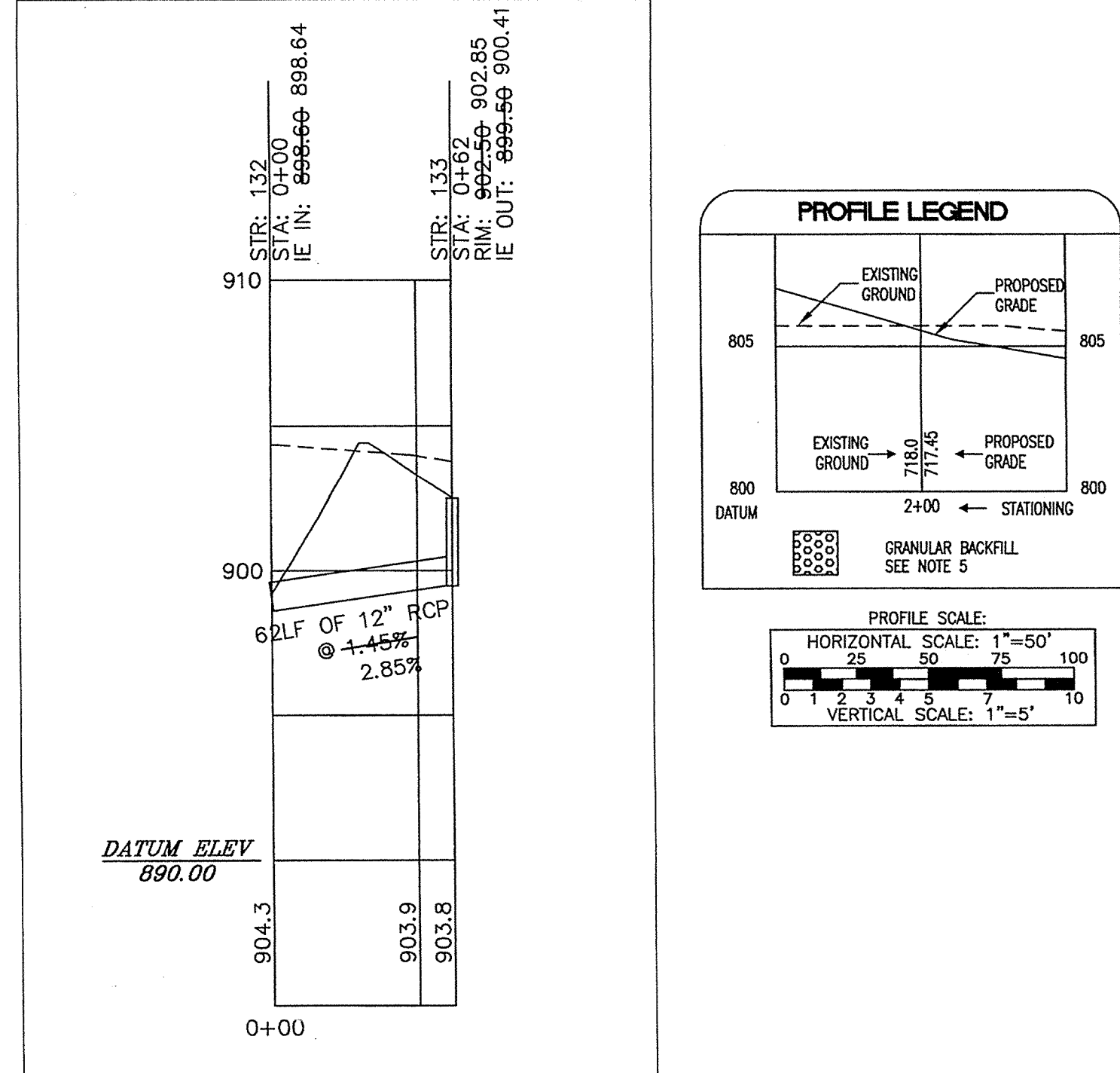
ST-P3 DETENTION POND WIER OUTLET SCALE: NONE



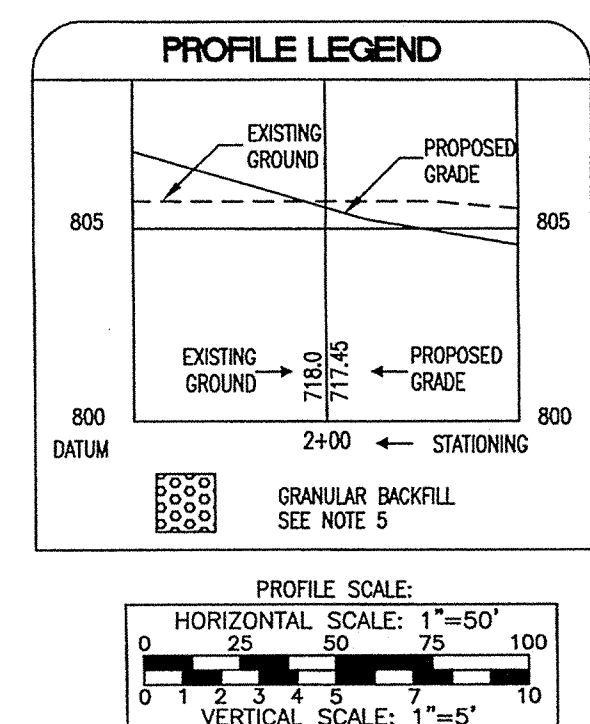
PO-2 POND EMERGENCY SPILLWAY SCALE: NONE ST-7 TYPICAL OPEN CHANNEL DETAIL SCALE: NONE



WEIR OUTLET AND CHANNEL PROFILE: STR: 144 TO 142



PROFILE: STR: 133 TO 132



INDIANA COUNTY
INDIANA

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 5-10-05

Entered by: SIM

AS BUILT

Sanitary Sewer Date: _____
Storm Sewer Date: 10/17/05

Approved By: *Bruce E. Hagen*

BRUCE E. HAGEN
REGISTERED
No. LS990005
STATE OF INDIANA
PROFESSIONAL LAND SURVEYOR

AS-BUILT PLANS FOR
WESTWOOD ESTATES
JUSTUS HOME BUILDERS, INC.

DETENTION OUTLET
PLAN AND PROFILES

6994 HILLSDALE COURT
INDIANAPOLIS, IN 46250
Ph: 317-913-6930
FAX: 317-913-6928

CONSULTING ENGINEERS & SURVEYORS

JOB NO.
2002-1226

DATE:
08-29-03

SCALE:
1" = 50'

SHEET No.
C5.3