
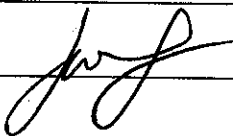
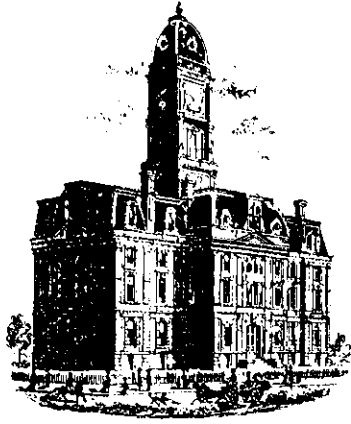


**Drain:** STULTZ; ALMENDO      **Drain #:** 45  
**Improvement/Arm:** WESTLCON ESTATES RELOCATION  
**Operator:** J. LIVINGSTON      **Date:** 6-25-04  
**Drain Classification:** Urban/Rural      **Year Installed:** 2003

### GIS Drain Input Checklist

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



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*

*April 23, 2003*

To: Hamilton County Drainage Board

Re: Stultz & Almond Drain

Attached is a petition and plans for the proposed relocation of the Stultz & Almond Drain. The relocation is being proposed by Justus Home Builders through the Westwood Estates Subdivision. The proposal is to intercept the main drain at or near Sta. 51 + 36 of the Thomas Stultz Drain within the south right-of-way for 141<sup>st</sup> street and reconstruct the drain to Sta. 72 + 00 of the Thomas Stultz Drain, which is the current beginning of the open ditch portion of the drain. (Sta. 4 + 00 of the Almond Drain).

This line will consist of the following:

15" RCP	75 ft	24" RCP	369 ft	Open Ditch	1,368 ft
18" RCP	72 ft	2 - 48" RCP	180 ft		

The total length of new drain shall be 2,064 feet. The 2,064 feet of original drain between Sta. 51 + 36 and 72 + 00 shall be vacated. This proposal will not change the current drains total length.

The open ditch listed above is that section from Detention Pond 3 to Sta. 72 + 00 of the existing Thomas Stultz Drain and between Detention Pond 2 and 3. It also includes the sections through the Detention Ponds 1, 2, and 3 by straight lines between Str. 136 and 139, 138 and 118, and 115 and 144.

The cost of the relocation is to be paid by Justus Home Builders. The Developer has obtained an easement from the adjoining property owner to the east, Surwill, LLC. A copy of the easement is attached. Easements for the portion of the drain to be relocated through Westwood Estates are shown on the secondary plat for the subdivision.

I recommend the Board set a hearing for this matter on May 27, 2003.

Sincerely,

Kenton C. Ward  
Hamilton County Surveyor

Hamilton County Drainage Board  
Court House  
Noblesville, Indiana

IN RE: \_\_\_\_\_

Hamilton County, Indiana


PETITION FOR RELOCATION AND RECONSTRUCTION

Justus Home Builders (hereinafter "Petitioner"),

hereby petitions the Hamilton County Drainage Board for authority to relocate and improve a section of the Thomas A. Stultz  
Anson W. Almond Drain,  
and in support of said petition advises the Board that:

1. Petitioner owns real estate through which a portion of the Thomas A. Stultz  
Anson W. Almond Drain runs.
2. Petitioner plans to develop its real estate with roads, buildings, utilities, storm drains, sanitary sewers and other structures.
3. Petitioner's proposed development of its real estate will require relocation and reconstruction of a portion of the Thomas A. Stultz  
Anson W. Almond Drain, as specifically shown on engineering plans and specifications filed with the Hamilton County Surveyor.
4. The work necessary for the proposed relocation and reconstruction will be undertaken at the sole expense of the Petitioner and such work will result in substantial improvement to the Thomas A. Stultz  
Anson W. Almond Drain, without cost to other property owners on the watershed of the Thomas A. Stultz  
Anson W. Almond Drain.

WHEREFORE, Petitioner requests that an Order issue from the Hamilton County Drainage Board authorizing relocation and reconstruction of the Thomas A. Stultz  
Anson W. Almond Drain, in conformance with applicable law and plans and specifications on file with the Hamilton County Surveyor.

  
Signed

WALTER JUSTUS  
Printed Name



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., Inc.  
Westwood Estates Subdivision

Gentlemen:

We hereby establish our Irrevocable Standby Letter of Credit No. **10244-4-LC3** in your favor, at the request of and for the account of Justus Homes Builders, Inc., for any sum or sums not exceeding **\$19,458.00** (Nineteen Thousand Four Hundred Fifty Eight 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 Off-Site Drainage 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-LC3 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

STATE OF INDIANA     )  
                              ) ss:  
COUNTY OF HAMILTON )

BEFORE THE HAMILTON COUNTY  
DRAINAGE BOARD  
NOBLESVILLE, INDIANA

IN THE MATTER OF THE  
RECONSTRUCTION OF THE  
*Stultz & Almond Drain*

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the *Stultz & Almond* came before the Hamilton County Drainage Board for hearing on **May 27, 2003** on the Reconstruction Report consisting of the report and the Schedule of Damages and Assessments. The Board also received and considered the written objection of an owner of certain lands affected by the proposed Reconstruction, said owner being:

Evidence was heard on the Reconstruction Report and on the aforementioned objections.

The Board, having considered the evidence and objections, and, upon motion duly made, seconded and unanimously carried, did find and determine that the costs, damages and expenses of the proposed Reconstruction will be less than the benefits accruing to the owners of all land benefited by the Reconstruction.

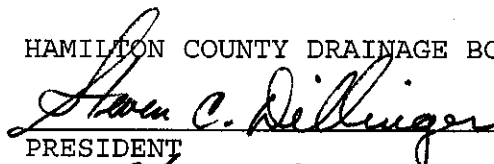
The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included or omitted from the Schedule of Assessments.

The Board further finds that it has jurisdiction of these proceedings and that all required notices have been duly given or published as required by law.

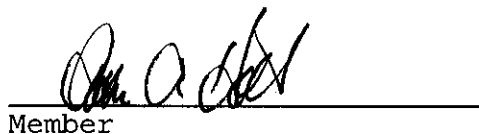
Wherefore, it is ORDERED, that the proposed Reconstruction of the **Stultz & Almond Drain** be and is hereby declared established.

Thereafter, the Board made inspection for the purpose of determining whether or not the lands of any owners had been erroneously included or excluded from the Schedule of Assessments. The Board finds on the basis of the reports and findings at this hearing as follows:

HAMILTON COUNTY DRAINAGE BOARD

  
PRESIDENT

  
Member

  
Member

ATTEST:

  
Executive Secretary

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 Hillside Ct., Indianapolis, IN 46250

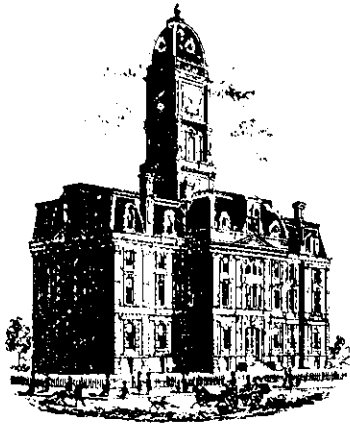
Telephone Number: (317) 913-6930

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 Relocation**

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 61-62)

The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:
118-117	157	24	RCP	898.98	898.89	0.06
117-116	36	24	RCP	898.89	898.84	0.14
116-115	176	24	RCP	898.84	898.55	0.16
139-138	160	48	RCP	898.97	898.87	1.06
144-143	60	15	RCP	898.91	898.82	0.15
143-142	15	15	RCP	898.82	898.6	1.46
145B-145A	13	12	RCP	902.3	901.72	4.46
145A-137	17	15	RCP	901.72	901.37	2.06
137-136	72	18	RCP	901.27	898.95	3.22

**RCP Pipe Totals:**

12	13
15	92
18	72
24	369
2 ROWS-48"	160

**Total:** 706

<b>Other Drain:</b>	
OPEN	1453
<b>Total:</b>	<u>1453</u>

The length of the drain due to the changes described above is now **2,159 feet**.

Note: This project removed an additional 25 feet of 12" tile from Arm 1 and 15 feet of 10" tile from the main tile of the Thomas Stultz.

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.

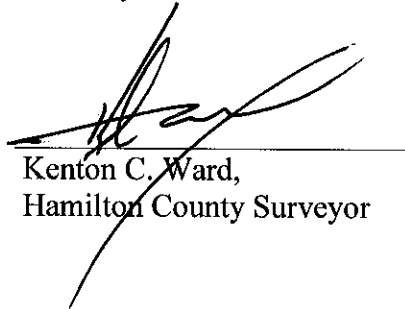
**Bond-LC No:** 10244-4-LC4  
**Insured For:** Storm Sewers  
**Amount:** \$252,485  
**Issue Date:** April 22, 2003

**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,



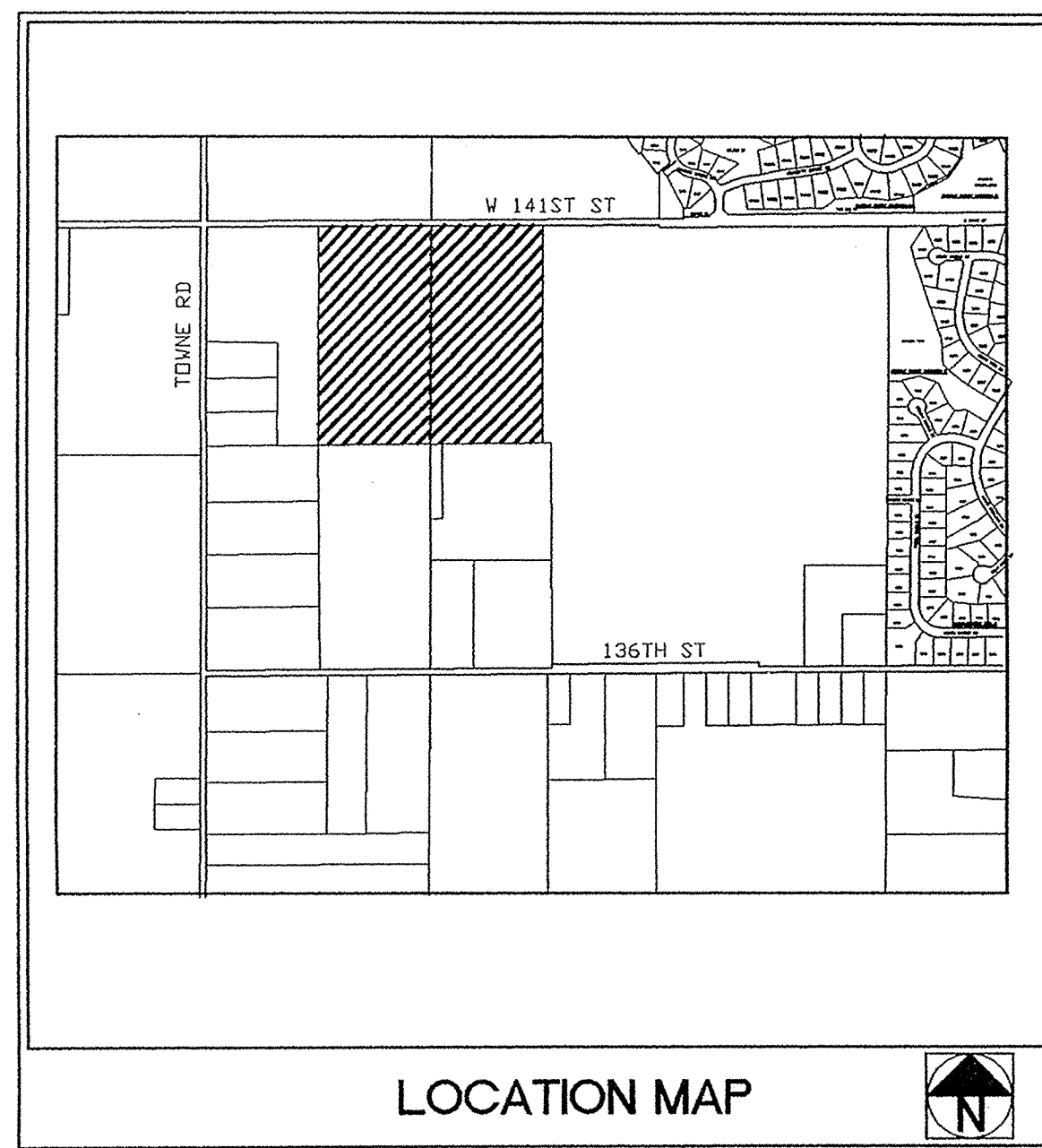
Kenton C. Ward,  
Hamilton County Surveyor

KCW/slm

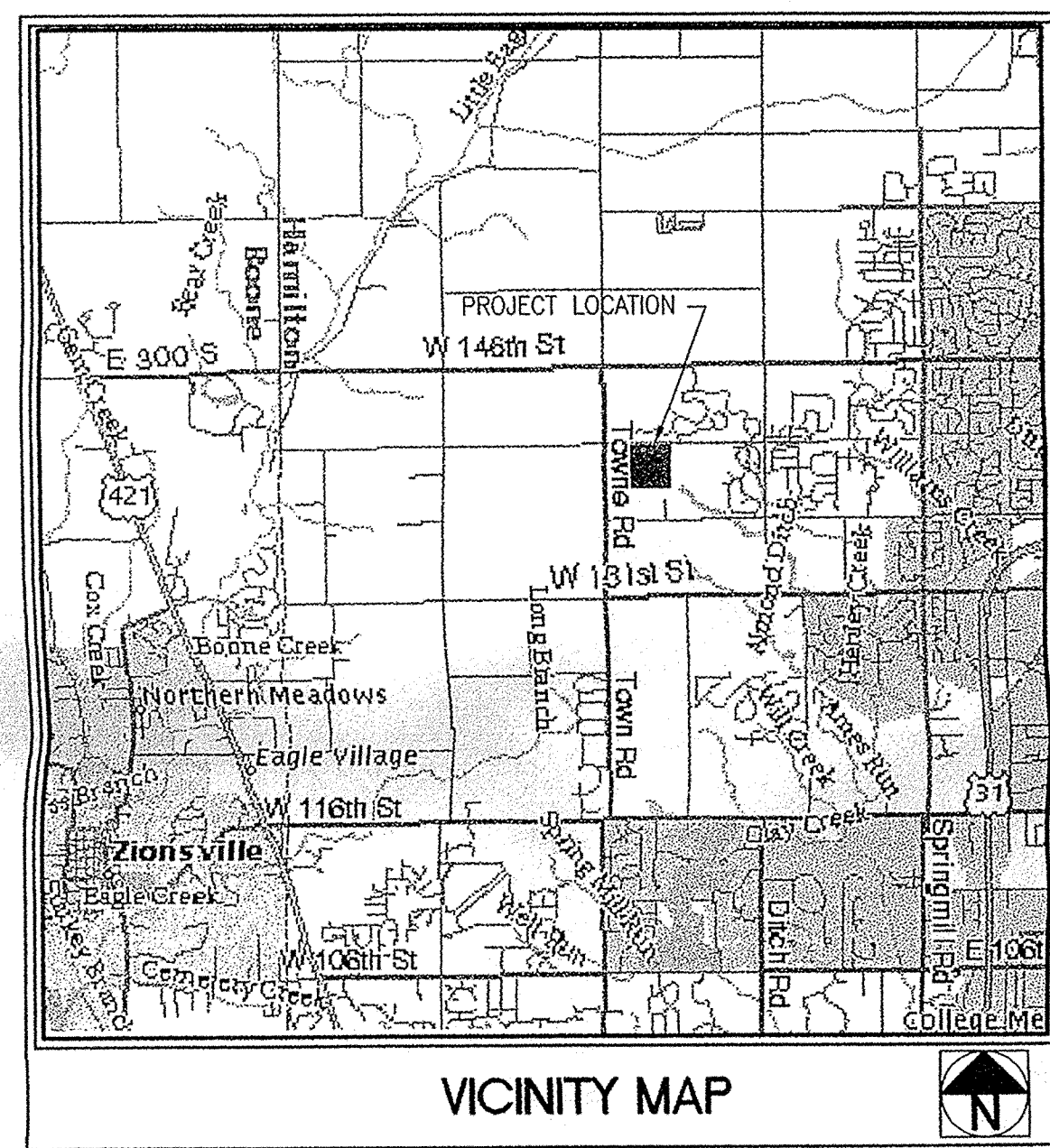


# CONSTRUCTION PLANS FOR WESTWOOD ESTATES

## 141st STREET AND TOWNE ROAD

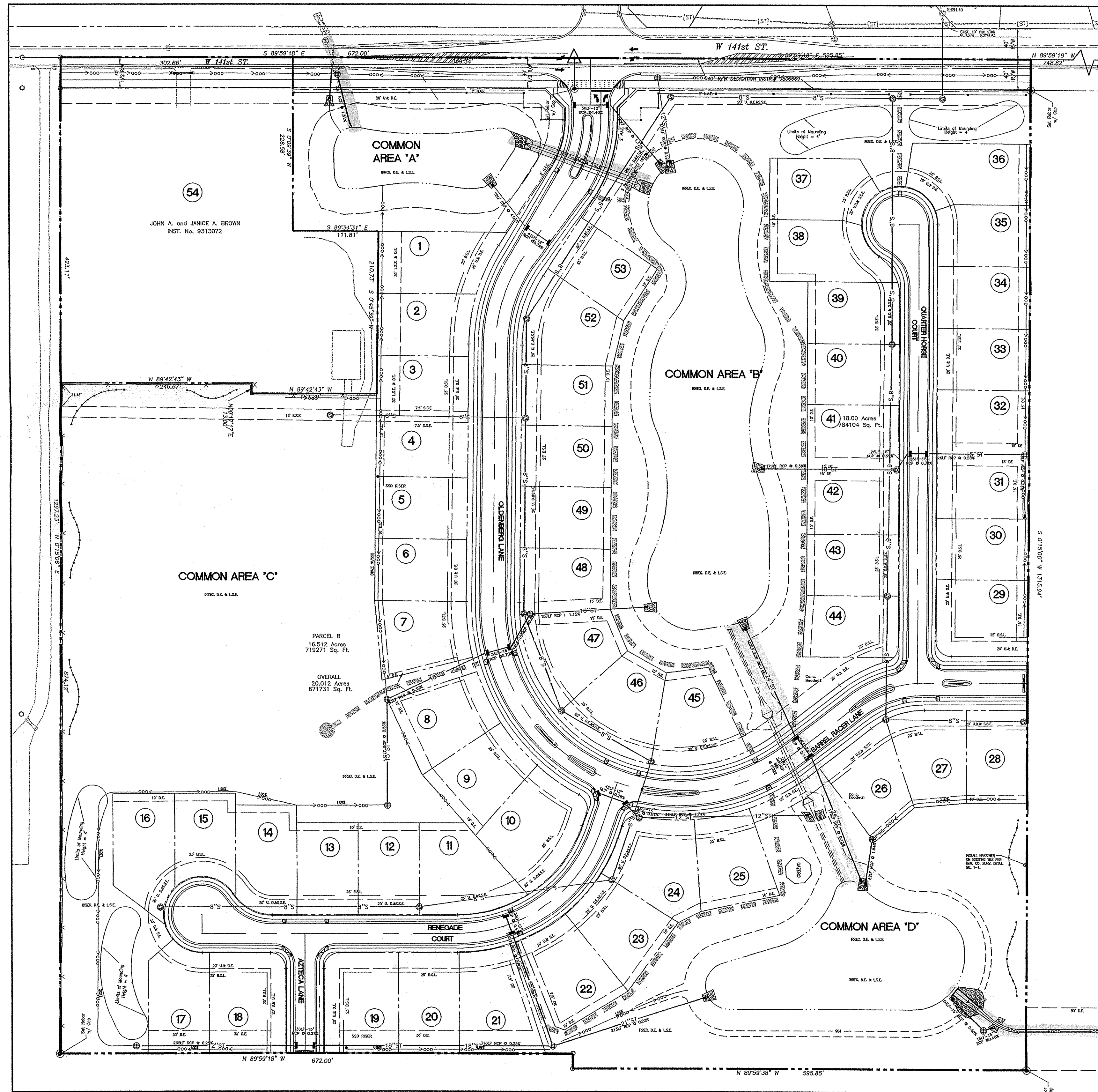


LOCATION MAP



VICINITY MAP

STREET INVENTORY			
	LENGTH	WIDTH	R/W WIDTH
OLDENBERG LANE	1000 LF	36' B-B	70' R/W
BARREL RACER LANE	625 LF	36' B-B	70' R/W
RENEGADE COURT	650 LF	30' B-B	50' R/W
QUARTER HORSE CT.	599 LF	28' B-B	50' R/W
AZTECA LANE	155 LF	30' B-B	50' R/W



PROJECT MAP

This copy printed from the Digital Archive of the Hamilton County Surveyor's Office, One Hamilton Co. Square, Ste. 188, Noblesville, In 46060

### PROJECT DATA

Section: 21 Township: 18 N Range: 3 E  
 County: HAMILTON Township: CLAY  
 Location: 0.26 miles East of 141st Street and Towne Road.  
 Project Title: WESTWOOD ESTATES  
 Project Area: 38.012  
 Residential Lots: 54  
 Lot Area: 16.16 Acres  
 Right-of-Way: 5.52 Acres  
 Common Area: 16.33 Acres  
 Project Density: 1.42 Lots per Acre  
 Zoning: S-1 Residential Estates  
 Designed Open Space: Greens, Paths  
 Lot Size: 80' width x 120' depth typ.  
 141st Street Frontage: 1268 LF  
 141st Street Posted Speed: 45 mph  
 Internal Street Lengths: 3029 LF - 0.57 miles  
 Internal Design Speed: 25 mph

### SHEET INDEX

SHT No.	DESCRIPTION
C1.0	COVER SHEET
C1.1	EXISTING CONDITIONS AND DEMOLITION PLAN
C2.0	OVERALL SITE PLAN
C2.1	SITE DEVELOPMENT PLAN
C2.2	SITE DEVELOPMENT PLAN
C2.3	EROSION CONTROL PLAN - INITIAL MEASURES
C2.4	EROSION CONTROL PLAN - FINAL MEASURES
C2.5	EROSION CONTROL DETAILS
C2.6	SITE DETAILS
C2.7	SITE DETAILS
C3.0	ENTRANCE DETAIL
C3.1	STREET PLAN AND PROFILE OLDENBERG LANE
C3.2	STREET PLAN AND PROFILE BARREL RACER LANE
C3.3	STREET PLAN AND PROFILE RENEGADE CT. AND AZTECA LANE
C3.4	STREET PLAN AND PROFILE QUARTER HORSE COURT
C3.5	INTERSECTION AND CUL-DE-SAC DETAILS
C3.6	TRAFFIC MAINTENANCE PLAN
C3.7	TRAFFIC CONTROL PLAN
C3.8	OFF-SITE ROAD IMPROVEMENTS
C4.0	SANITARY SEWER PLAN AND PROFILES
C4.1	SANITARY SEWER PLAN AND PROFILES
C4.2	SANITARY SEWER DETAILS
C5.0	STORM SEWER PLAN AND PROFILES
C5.1	STORM SEWER PLAN AND PROFILES
C5.2	DETENTION OUTLET PLAN AND PROFILES
C5.3	DETENTION OUTLET PLAN AND PROFILES
C5.4	OFFSITE DRAINAGE IMPROVEMENTS
C6.0	WATER DISTRIBUTION PLAN
C7.0	WATER DETAILS
C7.1	UTILITY DETAILS
C7.2	UTILITY DETAILS
C8.0	SPECIFICATIONS AND DRAINAGE DETAILS
L1.0	LANDSCAPE PLAN
L1.1	LANDSCAPE DETAILS

### LEGAL DESCRIPTION

Situated in the State of Indiana, County of Hamilton, containing 18.00 acres of land, more or less, said 18.00 acres being located in the East Half of the Southwest Quarter of Section 21 Township 18 North, Range 3 East being more particularly bounded and described as follows:

Commencing at the Northeast corner of the Southwest Quarter of said Section 21, thence North 89°59'18" West, a distance of 748.82 feet along the north line of said Southwest Quarter to the Point of Beginning; thence, from said Point of Beginning, South 00°15'06" West, parallel to the west line of the East 1/2 of said Southwest Quarter, a distance of 1315.94 feet to a rebar; thence North 89°59'38" West, a distance of 595.85 feet to a rebar on the West line of said East 1/2; thence North 00°15'06" East along said West line a distance of 1315.99 feet to the Northwest Corner of the East 1/2 of said Southwest Quarter; thence South 89°59'18" East along the North line of said Southwest Quarter a distance of 595.85 feet to the Point of Beginning and containing 18.00 acres of land, more or less.

Together with:

Situated in the State of Indiana, County of Hamilton, containing 20.012 acres of land, more or less, said 20.012 acres being located in the Northwest Quarter of the Southwest Quarter of Section 21 Township 18 North, Range 3 East being more particularly bounded and described as follows:

Commencing at the Northwest corner of the Southwest Quarter of said Section 21, thence South 89°59'18" East, a distance of 672.07 feet along the north line of said Southwest Quarter to the Point of Beginning, said point lying North 89°59'18" West a distance of 672.00 feet from the Northeast corner of the Northwest Quarter of said Southwest Quarter; thence continuing South 89°59'18" East along said north line a distance of 672.00 feet to the Northeast corner of the Northwest Quarter of said Southwest Quarter; thence South 00°15'16" West along the east line of said Southwest Quarter of the Southwest Quarter a distance of 1297.23 feet; thence North 89°59'18" West parallel to said north line of the Southwest Quarter a distance of 672.00 feet; thence North 00°15'06" East parallel to the east line of said Northwest Quarter of the Southwest Quarter a distance of 1297.23 feet to the Point of Beginning and containing 20.012 acres of land, more or less.

Subject, however, to all legal rights-of-ways and/or easements, if any, of previous record.

The sources of recorded survey data are the records of the Hamilton County, Indiana, Recorder, referenced in the foregoing description.

### PREPARED FOR:

Justus Home Builders, Inc.  
 1398 N. Shadeland Ave.  
 Indianapolis, IN 46219  
 (317) 353-8311  
 CONTACT: Mr. Walt Justus

### BENCHMARK DATA

PROJECT BENCHMARK:  
 U.S.G.S. Disc stamped 89 RHP located at the southwest corner of the intersection of 141st Street and Ditch Road.  
 B.M. ELEVATION = 903.371

SITE BENCHMARK:  
 Robbed 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 Document Blvd.  
 B.M. ELEVATION = 905.77

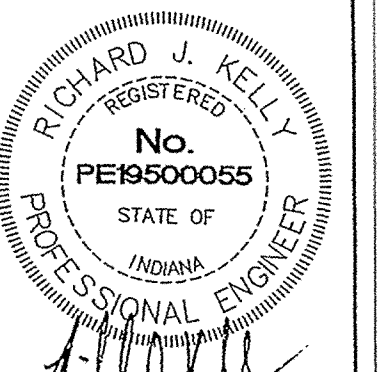
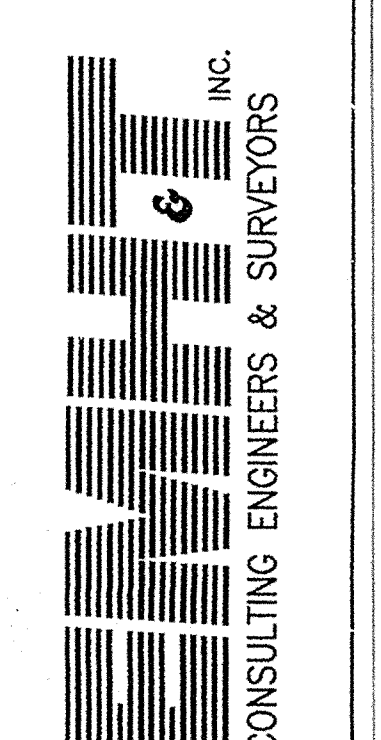
"HOLEY MOLEY" SAYS CALL AT LEAST TWO WORKING DAYS BEFORE YOU DIG IT'S THE LAW!

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



CONSTRUCTION PLANS FOR  
**WESTWOOD ESTATES**  
 JUSTUS HOME BUILDERS, INC.

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



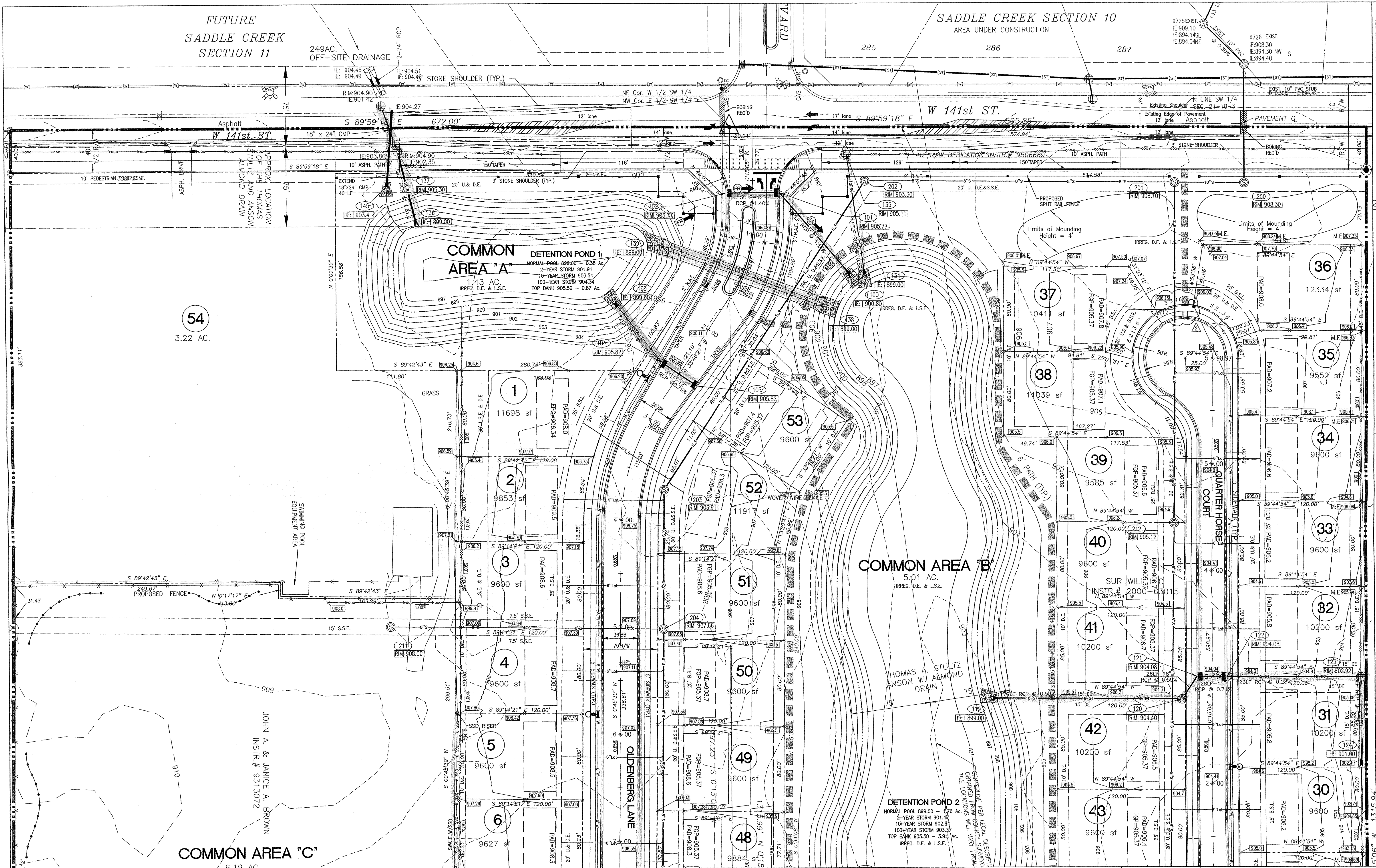
FILED  
 MAY 19 2002  
 HAMILTON COUNTY SURVEYOR'S OFFICE  
 01-31-03  
 SCALE:  
 N.T.S.

SHEET No.  
**C1.0**

REV. DATE DESCRIPTION

FUTURE  
SADDLE CREEK  
SECTION 11

SADDLE CREEK SECTION 10  
AREA UNDER CONSTRUCTION



54  
3.22 AC.

COMMON AREA "C"  
6.19 AC.

COMMON AREA "B"  
5.01 AC.

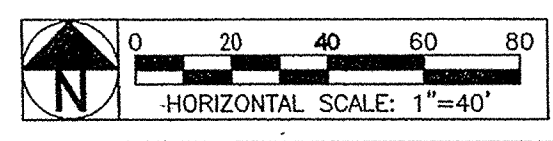
COMMON  
AREA "A"  
1.43 AC.

- 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.

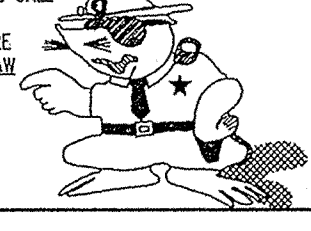
NOTES:

1. THE THOMAS A. STULTZ AND ANSON W. ALMOND LEGAL DRAIN IS TO BE CRUSHED AND DESTROYED AND NO WORK IS TO OCCUR WITHIN THE EXISTING REGULATED DRAIN EXEMPTION UNTIL PLANS ARE APPROVED AND THE HEARING IS HELD BEFORE THE HAMILTON COUNTY DRAINAGE BOARD.
2. ANY PRIVATE FIELD TILES FOUND ARE TO BE OUTLETTED INTO AN ACCEPTABLE OUTLET.

SEE SHEET C2.2 FOR CONTINUATION



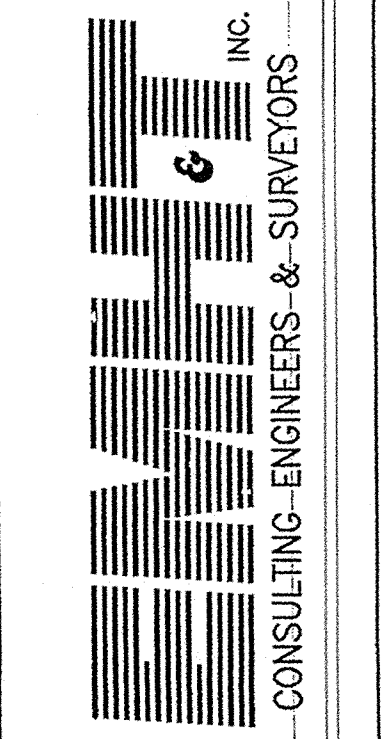
**BENCHMARK DATA**  
PROJECT BENCHMARK: U.S.G.S. Disc stamped 93 RHP located at the southwest corner of the intersection of 140th Street and Dish Road. B.M. ELEVATION = 903.371  
SITE BENCHMARK: Rebar set in East face of a fence corner post, Post located 4'-20" south of the centerline of 141st Street and +/- 35'-west of the centerline of Benchmark Blvd. B.M. ELEVATION = 905.77  
"HOLEY MOLEY" SAYS CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU DIG IT'S THE LAW



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CONSTRUCTION PLANS FOR  
**WESTWOOD ESTATES**  
JUSTUS HOME BUILDERS, INC.  
SITE DEVELOPMENT PLAN

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



DATE: 01-31-03  
JOB NO. 2002-1226  
SHEET No. C2.1

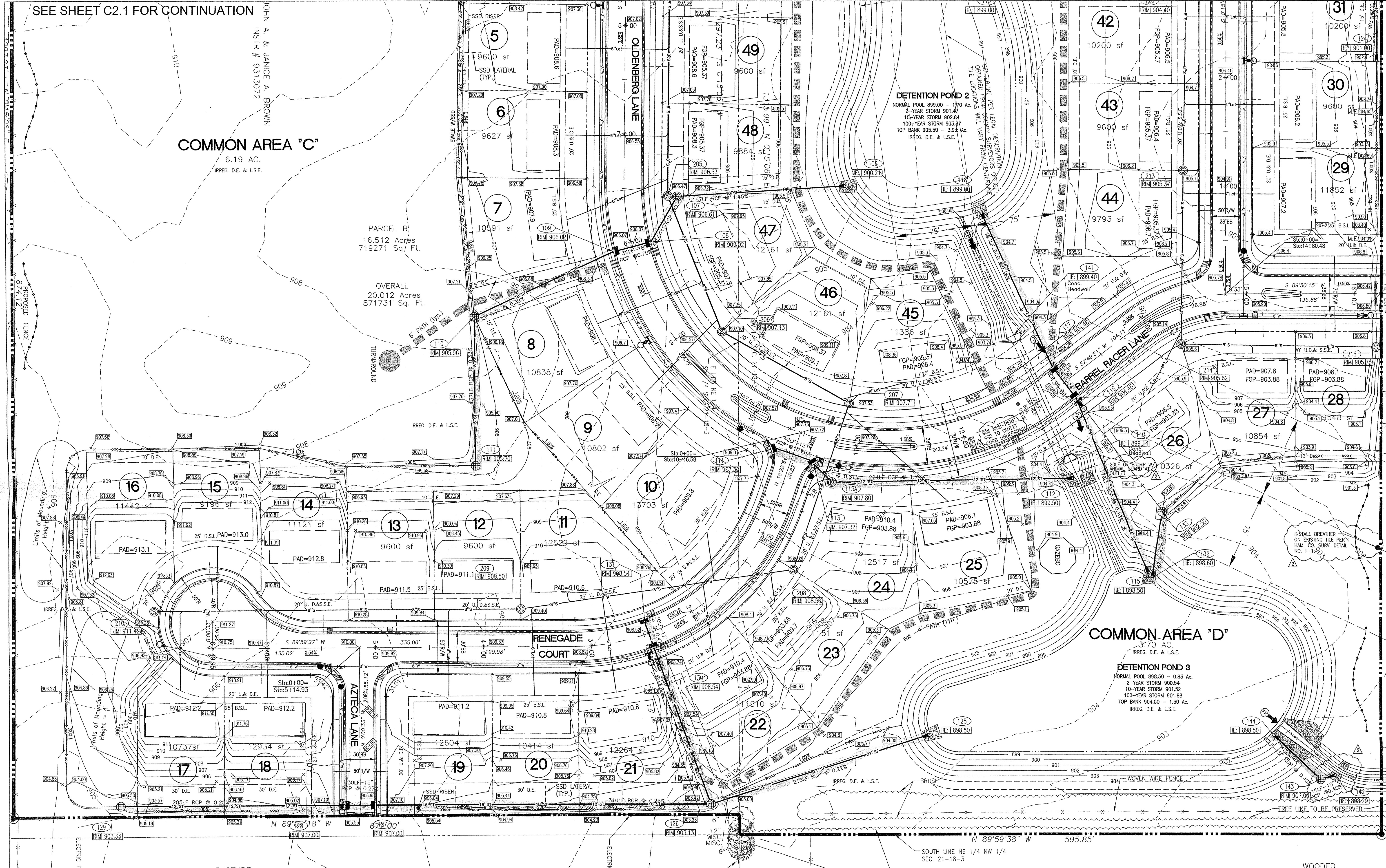
SEE SHEET C2.1 FOR CONTINUATION

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

**COMMON AREA 'C'**

6.19 AC.  
IRREG. D.E. & L.S.E.

PARCEL B  
16.512 Acres  
719271 Sq. Ft.  
  
OVERALL  
20.012 Acres  
871731 Sq. Ft.



**COMMON AREA 'D'**

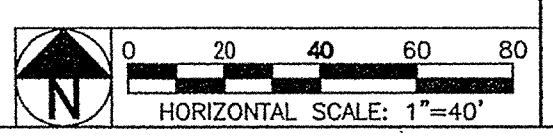
3.70 AC.  
IRREG. D.E. & L.S.E.

**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.

NOTES:  
1. THE THOMAS A. STULTZ AND ANSON W. ALMOND LEGAL DRAIN IS TO BE CRUSHED AND DESTROYED AND NO WORK IS TO OCCUR WITHIN THE EXISTING REGULATED DRAIN EASEMENT UNTIL PLANS ARE APPROVED AND THE HEARING IS HELD BEFORE THE HAMILTON COUNTY DRAINAGE BOARD.  
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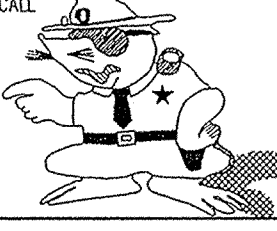
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1. DECORATIVE SIGNS, IRRIGATION SYSTEMS, TREES, LANDSCAPE MOUNDS, LIGHT POLES, AND OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT-OF-WAY.  
2. UTILITIES CROSSING BENEATH 141st STREET MUST BE PUSHED/BORED. ROAD CUTS ARE PROHIBITED.  
3. DRAINAGE 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 RAMP 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.G.S. Disc stamped 93 RHP located at the southwest corner of the intersection of 146th Street and Ditch Road.  
B.M. ELEVATION = 903.371  
  
SITE BENCHMARK:  
Reinforced 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 Groundwork Blvd.  
B.M. ELEVATION = 905.77

"MOLEY MOLEY" SAYS CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU GO TO THE LAW



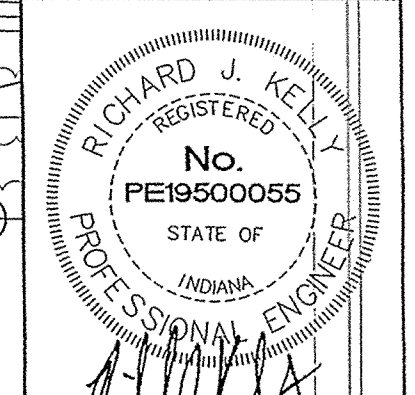
1-800-382-5544  
1-800-428-5200  
FOR CALLS OUTSIDE OF INDIANA

REV.	DATE	DESCRIPTION
02-10-03		ISSUED SANITARY LATERAL REVISION FOR LOTS # 16, 20, 24, 26, & 45 PER IDEA
03-17-03		ADDED NOTES, ADJUSTED ANGLE, AND LENGTH OF PIPE BETWEEN STRUCTURES
03-17-03		ADDED NOTES, PIPE MATERIAL, SSD STUDS, AND RISED SSDS TO 6" DIAMETER PER H.M. CO. SURVEYOR

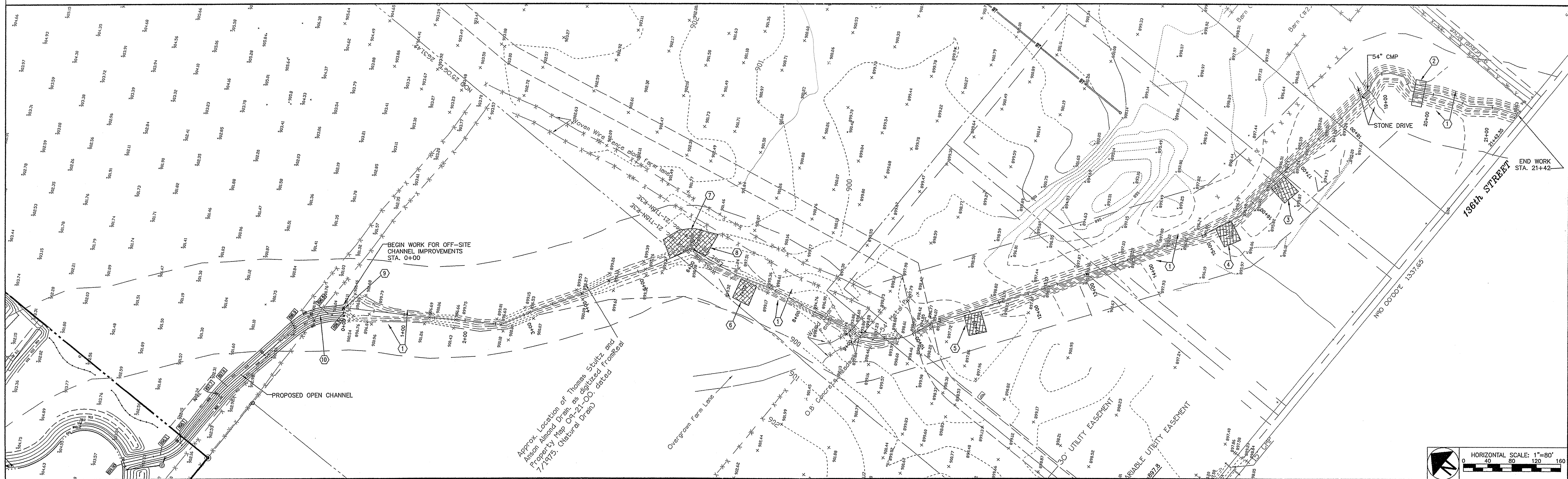
**CONSTRUCTION PLANS FOR  
WESTWOOD ESTATES**  
JUSTUS HOME BUILDERS, INC.  
**SITE DEVELOPMENT PLAN**

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

**CONSULTING ENGINEERS & SURVEYORS**



DATE: 10-31-03  
JOB NO. 2002-1226  
SCALE: 1"=40'  
**SHEET No. C2.2**

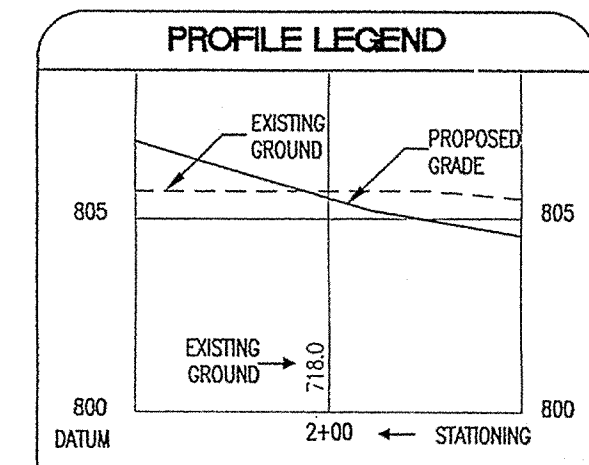
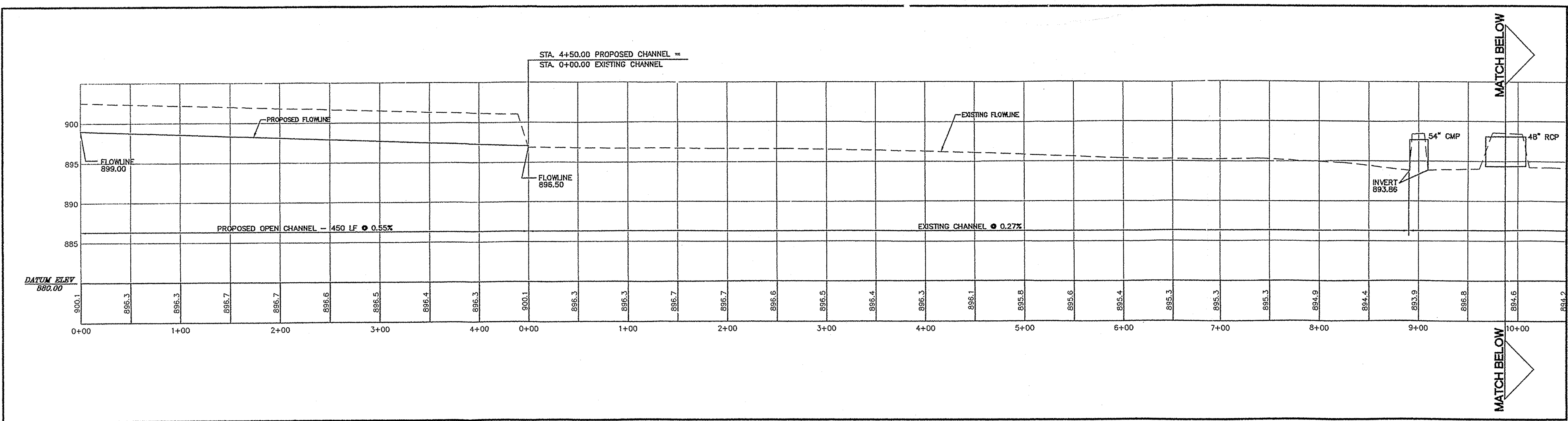


10-17-03 SHEET REVISED PER SURVEY AND WALK THRU OF DRAIN WITH HAMILTON COUNTY SURVEYOR

**CONSTRUCTION PLANS FOR WESTWOOD ESTATES**  
**JUSTUS HOME BUILDERS, INC.**  
**OFF-SITE DRAINAGE IMPROVEMENTS**

REV. DATE DESCRIPTION

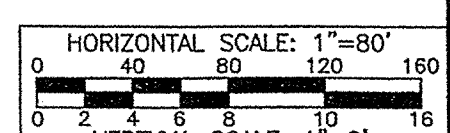
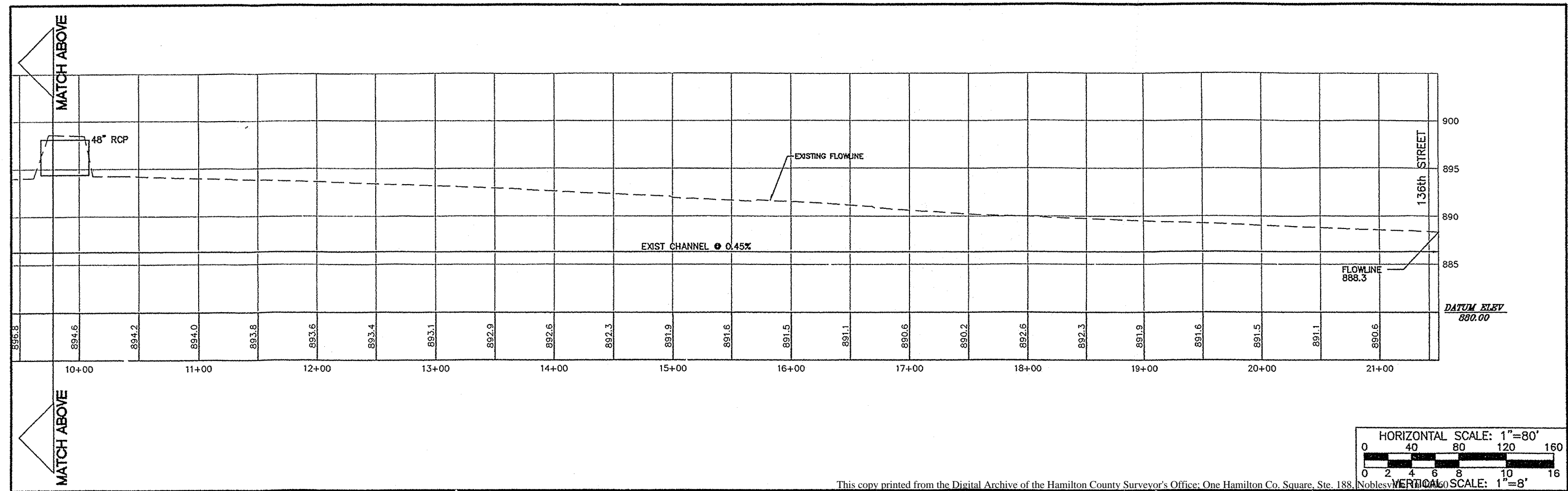
**OFF-SITE DRAINAGE IMPROVEMENTS**



- NOTES:**
1. SURVEY INFORMATION OBTAINED FROM SITE DEVELOPMENT PLAN FOR SWEET CHARITY FARMS PREPARED BY WEIHE ENGINEERS INC. DATED JANUARY 16, 1995.
  2. ADDITIONAL WORK BEYOND THAT SPECIFIED MAY BE REQUIRED AT THE DISCRETION OF THE INSPECTOR REPRESENTING THE HAMILTON COUNTY SURVEYORS OFFICE.

**SCOPE OF WORK**

1. STA. 0+00 TO STA. 21.42: REMOVE FLOWLINE OBSTRUCTIONS; CLEAR TREES AND VEGETATION FROM TOP OF BANK TO TOP OF BANK; CLEAR SOUTH AND WEST BANK TO 25 FEET FROM TOP OF BANK PER HAMILTON COUNTY SURVEYORS OFFICE DETAIL OD-3. LARGE QUALITY TREES MAY REMAIN AT THE INSPECTOR'S DISCRETION.
2. STA. 19+75 (APPROX.): REMOVE EXISTING WOOD FOOT BRIDGE AND STEEL SUPPORT RAILS. CONCRETE ABUTMENTS TO REMAIN.
3. STA. 16+50 (APPROX.): INSTALL APPROX. 50 SQ. YARDS OF N.A.G. C350 PERMANENT EROSION CONTROL BLANKET WITH SEED AT LOCATION OF EXISTING WASHOUT.
4. STA. 15+40 (APPROX.): INSTALL APPROX. 50 SQ. YARDS OF N.A.G. C350 PERMANENT EROSION CONTROL BLANKET WITH SEED AT LOCATION OF EXISTING WASHOUT. INSTALL CMP DRAIN OUTLET AND ANIMAL GUARD ON EXISTING 6 INCH DRAIN TILE PER HAMILTON COUNTY SURVEYORS OFFICE DETAIL O-1 AND O-2.
5. STA. 11+00 (APPROX.): INSTALL APPROX. 50 SQ. YARDS OF N.A.G. C350 PERMANENT EROSION CONTROL BLANKET WITH SEED AT LOCATION OF EXISTING WASHOUT.
6. STA. 7+00 (APPROX.): INSTALL APPROX. 50 SQ. YARDS OF N.A.G. C350 PERMANENT EROSION CONTROL BLANKET WITH SEED AT LOCATION OF EXISTING WASHOUT.
7. STA. 6+00: INSTALL APPROX. 80 SQ. YARDS OF N.A.G. C350 PERMANENT EROSION CONTROL BLANKET WITH SEED AT LOCATION OF EXISTING WASHOUT. INSTALL APPROX. 60 LF. OF BANKSAVER FIBER PLANT LOG AS MANUFACTURED BY KINGSBEE CORP. ALONG TOE OF ERODED BANK SLOPE. INSTALL FIBER PLANT LOG PER MANUFACTURER'S RECOMMENDATIONS.
8. STA. 6+00 (APPROX.): CUT AND REMOVE APPROX. 3 FEET OF EXISTING 6 INCH STEEL DRAIN TILE. INSTALL CMP DRAIN OUTLET AND ANIMAL GUARD ON EXISTING DRAIN TILE PER HAMILTON COUNTY SURVEYORS OFFICE DETAILS O-1 AND O-2.
9. STA. 0+00 TO STA. 0+60 (APPROX.): FILL EXISTING CHANNEL ALONG EAST BANK TO PRODUCE CHANNEL CROSS SECTION THAT MATCHES DOWN STREAM CONDITIONS. INSTALL APPROX. 100 SQ. YARDS OF N.A.G. SC150 EROSION CONTROL BLANKET WITH SEED ALONG RECONSTRUCTED BANK.
10. INSTALL TEMPORARY SILT BASIN UPSTREAM OF EXISTING OPEN CHANNEL PER HAMILTON COUNTY SURVEYORS OFFICE DETAIL OD-5 (1=50', H=10'). REMOVE COLLECTED SEDIMENT AS REQUIRED THROUGHOUT THE DURATION OF THE PROJECT.



03-18-03 ENTIRE SHEET REVISED

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

**WEIHE ENGINEERS & SURVEYORS**  
 CONSULTING ENGINEERS & SURVEYORS

**RICHARD J. KELLY**  
 REGISTERED PROFESSIONAL ENGINEER  
 No. PE1950055  
 STATE OF INDIANA

JOB NO. 2002-1226  
 DATE: 01-31-03  
 SCALE: Horiz.: 1" = 80'

**SHEET No. C5.4**