

Drain: SPRINGMILL VILLAGES DRAIN **Drain #:** 268
Improvement/Arm: MULBERRY FARMS - SECTION 2
Operator: SLM/JDH **Date:** 5-13-04
Drain Classification: Urban/Rural **Year Installed:** 1999

GIS Drain Input Checklist

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

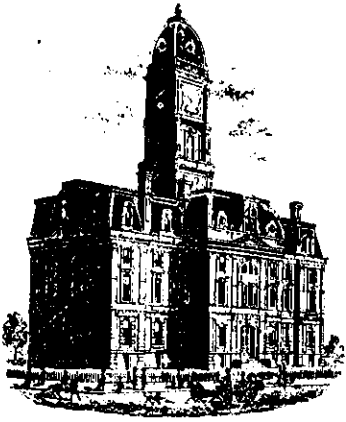
Gasb 34 Footages for Historical Cost
Drain Length Log

Drain-Improvement: SPRINGMILL VILLAGES DRAIN - MULBERRY FARMS - SECTION 2

Drain Type:	Size:	Length <i>Surveyed Revised</i>	Length (DB Query)	Length Reconcile	Price:	Cost:
SSD	6"	3254	3254	Ø		
RCP	12"	322	322	Ø		
	15"	438'	438'	Ø		
	24"	12'	12'	Ø		
Sum:		<u>4026</u>	<u>4026</u>	<u>Ø</u>		

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

September 21, 1999

Re: Springmill Villages Drain, Mulberry Farms, Section 2 Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Mulberry Farms, Section 2 Arm, Springmill Villages 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 – 3,254 Ft.	15" RCP – 438 Ft.
12" RCP – 322 Ft.	24" RCP – 12 Ft.

The total length of the drain will be 4,026 feet.

The retention pond (lake) located in Block L-2 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. Only the main SSD lines, which are located within the right of way, are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain.

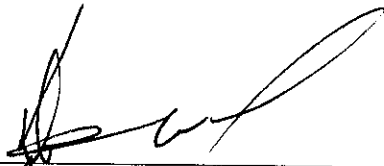
I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$30.00 per lot, \$5.00 per acre for roadways, with a \$30.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$969.95.

Parcels assessed for this drain may be assessed for the Overman-Harvey 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 - 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 Mulberry Farms, Section 2 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for October 25, 1999.



Kenton C. Ward
Hamilton County Surveyor

KCW/llm

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Mulberry Farms, Section Two

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: Leland D. Miller Jr. Date: December 17, 1999

Type or Print Name: Leland D. Miller Jr.

Business Address: 948 Conner Street

Noblesville, In. 46060

Telephone Number: (317) 773-2644

SEAL



INDIANA REGISTRATION NUMBER

S0083



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

September 11, 2002

Re: Springmill Villages Drain: Mulberry Farms 2

Attached are as-builts, certificate of completion & compliance, and other information for Mulberry Farms Section Two. 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 there were no significant changes made to the drainage plans submitted with my report for this drain dated September 21, 1999. The report was approved by the Board at the hearing held October 25, 1999. (See Drainage Board Minutes Book 5 Pages 249-250) Therefore, the length of the drain remains at **4,026 feet**.

The non-enforcement was approved by the Board at its meeting on October 25, 1999 and recorded under instrument #2000_00004045.

The bond or letter of credit from Frontier Insurance Co, number 143645; dated July 1, 1999; in the amount of \$62,246.00; was released August 28, 2000.

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

Sincerely,

Kenton C. Ward,
Hamilton County Surveyor

KCW/slm

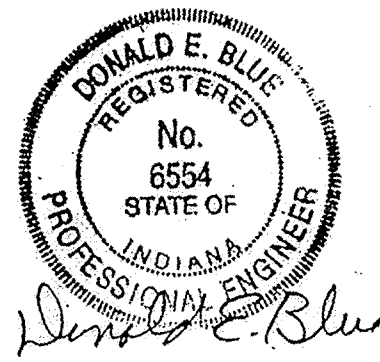
RECORD DRAWING

CERTIFICATION BY SURVEYOR

The attached ASBUILT DRAWINGS, page 2 & 9 through 12 are, to the best of my knowledge and belief a true and correct representation of the STORM SEWER SYSTEM installation.

Leland D. Miller, Jr. #S0083
Miller Surveying, Inc.

12-17-99
Date



CURVE	RADIUS	DELTA	TANGENT	LENGTH	CHORD	CH. BEARING
C1	750.00'	24°16'33"	161.31'	317.77'	315.40'	S 86°51'43" W
C2	150.00'	105°16'33"	196.46'	275.61'	238.45'	N 52°38'17" W

SEE RECORD PLAN & PROFILE SHEETS

STR. NO.	CASTING NO.	INV. IN	INV. OUT	GRADE	TYPE	TO
518	905.65	896.67 EX.	896.64 EX.	---	EXISTING MANHOLE	---
519	904.70±	897.47 EX.	897.47 E	-0.44%	C-4 M.H. W/ 182 L.F. 8" PVC PIPE	518
520	904.70±	898.06 W	898.06 W	-0.44%	C-4 M.H. W/ 133 L.F. 8" PVC PIPE	519
521	905.90±	898.56 W	898.56 W	-0.44%	C-4 M.H. W/ 114 L.F. 8" PVC PIPE	520
522	907.90±	899.60 W	899.60 W	-0.44%	C-4 M.H. W/ 237 L.F. 8" PVC PIPE	521
523	908.70±	900.83 S	900.83 S	-0.44%	C-4 M.H. W/ 107 L.F. 8" PVC PIPE	522
524	910.60±	901.83 E	901.83 E	-0.44%	C-4 M.H. W/ 169 L.F. 8" PVC PIPE	523
525	908.10±	904.00 S	904.00 S	-0.60%	C-4 M.H. W/ 189 L.F. 8" PVC PIPE	524
526	908.90±	903.53 W	903.53 W	-0.44%	C-4 M.H. W/ 387 L.F. 8" PVC PIPE	525

CONTRACTOR TO MAKE ALLOWANCE ON PRECAST STRUCTURES FOR FINAL CASTING ADJUSTMENT TO FINISHED GRADE TO BE ACCOMPLISHED BY UTILIZING CONCRETE ADJUSTING RINGS.

SEE RECORD PLAN & PROFILE SHEETS

STR. NO.	CASTING NO.	INV. IN	INV. OUT	GRADE	TYPE	TO
627	907.57	904.10 EX.	904.10 EX.	---	EXISTING E-7 INLET	---
632	904.91	899.61 EX.	899.61 EX.	-0.14%	EXISTING C-7 INLET W/ 166 L.F. 24" RCP	634
633	903.16	900.76 EX.	900.76 EX.	-0.40%	EXISTING E-7 INLET W/ 287 L.F. 12" RCP	632
634	906.97	899.37 EX.	899.37 EX.	-0.00%	EXISTING C-R3501-N INLET W/ 26 L.F. 24" RCP	635
635	906.92	899.37 EX.	899.37 EX.	-0.34%	EXISTING C-R3501-N INLET W/ 188 L.F. 24" RCP	636
636	---	898.73	898.73	---	EXISTING END SECTION	---
637	---	898.67	898.67	-0.07%	EXISTING END SECTION W/ 41 L.F. 24" RCP	638
638	905.78	898.64 EX.	898.64 EX.	-0.19%	EXISTING MANHOLE W/ 110 L.F. 24" RCP	639
639	904.98	898.43 EX.	898.43 EX.	---	EXISTING MANHOLE	---
640A	---	901.80	901.80	-1.61%	A-R3501-IR INLET W/ 192 L.F. 12" RCP	640A
642	905.21	901.90	901.90	-0.38%	A-R3501-IL INLET W/ 26 L.F. 12" RCP	641
643	---	898.70	898.70	---	EXISTING END SECTION	---
644	907.80±	900.49	900.49	-1.44%	C-4 M.H. W/ 124 L.F. 15" RCP	643
645	908.23	902.59	902.59	-1.44%	A-R3501-IR INLET W/ 146 L.F. 15" RCP	644
646	908.08	903.18	903.18	-1.44%	A-R3501-IL INLET W/ 41 L.F. 15" RCP	645
647	908.00	905.00	905.00	-1.43%	E-7 INLET W/ 107 L.F. 15" RCP	646
648	902.09	897.84	897.84	---	EXISTING INLET	---
649	902.21	899.20	899.20	-0.77%	A-R3501-N INLET W/ 26 L.F. 12" RCP	650
650	902.21	899.00	899.00	-0.50%	A-R3501-N INLET W/ 78 L.F. 12" RCP	649

TYPE A = 24"x24" BOX
TYPE C = 48" MANHOLE SECTION
TYPE E = 30"x30" BOX

* STR. NO. 637, 24" PIPE TO BE EXTENDED TWELVE (12) FEET AND END SECTION TO BE RELOCATED (SEE PROFILE, SHEET 7).

- NOTES:
1. OUTFALL STRUCTURES TO BE EQUIPPED WITH DEBRIS/ANIMAL GUARD.
 2. 6" SUBSURFACE DRAIN LOCATED UNDERNEATH CURBS.
 3. TWO FOOT HIGH LANDSCAPE MOUNDS TO BE PLACED ALONG THE WEST LINE OF LOTS 73 THROUGH 76 (SEE DETAIL, SHEET 16) ON THE WEST SIDE OF SWALE AND ON THE SOUTH END OF LOTS 67 THROUGH 72 (SEE DETAIL SHEET 16) ON THE SOUTH SIDE OF SWALE. MOUNDS TO BE FIELD ADJUSTED AND PLACED AS TO ALLOW FOR SURFACE DRAINAGE.

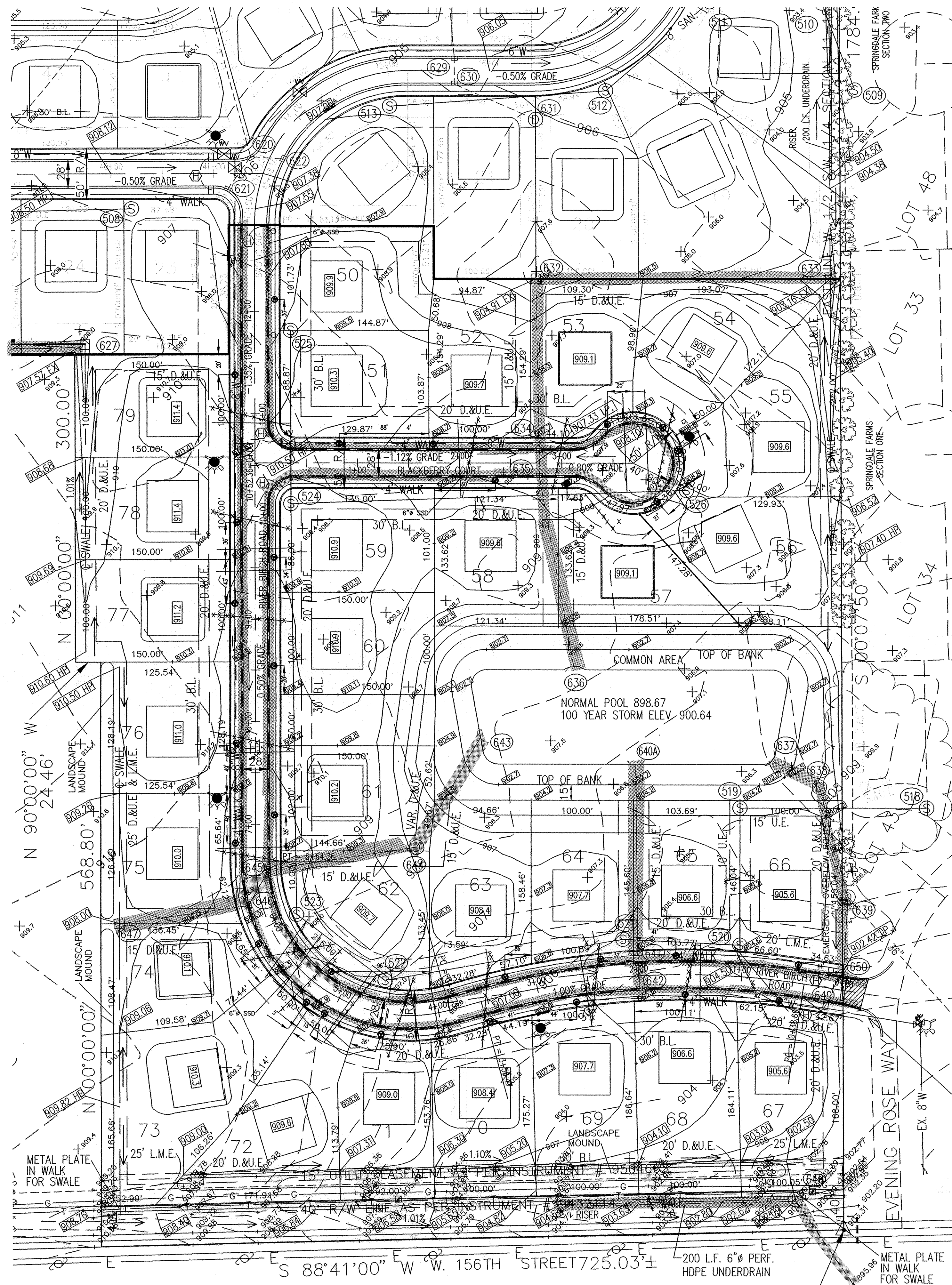
CONTRACTOR TO ASSUME THAT SOIL STABILIZATION WILL OCCUR AND THAT ADDITIONAL GRADING MAY BE REQUIRED AFTER STABILIZATION.

SITE NOT GUARANTEED TO "BALANCE" AS SOME ADDITIONAL FILL HAS BEEN ADDED TO THE SITE.

SUBGRADES AND BACKFILL

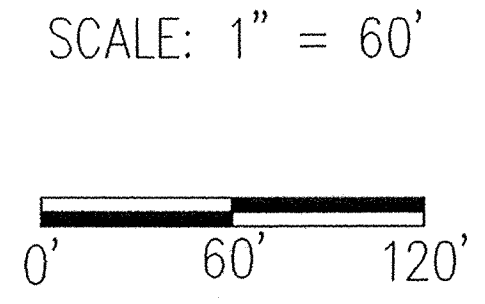
SUBGRADES SHALL BE PREPARED, AFTER THE INSTALLATION OF ALL UNDERGROUND UTILITIES TO BE LOCATED UNDER THE PAVEMENT, IN 6" LIFTS AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.

DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, OR OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT-OF-WAY.



This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an "as-built" record of the project.

Entry Date: 9-16-2002
Entered by: Suzanne L. Mills
JDH 5/2/04



- ### LEGEND
- PROPOSED GRADE
 - FIRE HYDRANT
 - WATER MAIN
 - STORM SEWER MANHOLE
 - CURB INLET
 - YARD/SWALE INLET
 - END SECTION
 - STORM SEWER STRUCTURE NUMBER
 - SUBSURFACE DRAIN LATERAL
 - STORM SEWER
 - SANITARY SEWER MANHOLE
 - SANITARY SEWER STRUCTURE NUMBER
 - SANITARY SEWER
 - HANDICAP ACCESSIBLE SIDEWALK RAMP
 - EXISTING TREE
 - EXISTING SPOT ELEVATION
 - PROPOSED SPOT ELEVATION
 - GAS LINE
 - UNDERGROUND TELEPHONE LINE
 - TELEPHONE PEDESTAL
 - WATER VALVE
 - AS-BUILT S.S.D. RISER

HATCHED AREA OF RIVER BIRCH ROAD IS TRANSITION ZONE, CONSTRUCTION TO MATCH EXISTING CURB AND PAVEMENT. SAWCUT EXISTING AS REQUIRED.

EMERGENCY OVERTFLOW ROUTE IS ALONG THE EAST LOT LINE OF LOT 66.

8" WATER MAIN ALONG NORTH SIDE OF 156TH STREET. EXACT LOCATION UNDETERMINED.

DATE	5/19/99	DUL DE SAC GRADES, NOTES ADDED, STORM TABLE UPDATED
DATE	6/16/99	NOTES AND CURVE TABLE ADDED, STORM TABLE UPDATED
DATE	7/19/99	ADDED L.M.E.'S
DATE	9/16/99	PER HAMILTON CO. SURVEYOR'S OFFICE LETTER DATED 8/12/99
DATE	4/20/99	AS SHOWN
DATE	4/20/99	AS SHOWN

REVISIONS

MILLER SURVEYING, INC.
948 CORNER STREET
NOBLESVILLE, INDIANA 46060
Ph. # (317) 773-2644 Fax # 773-2644

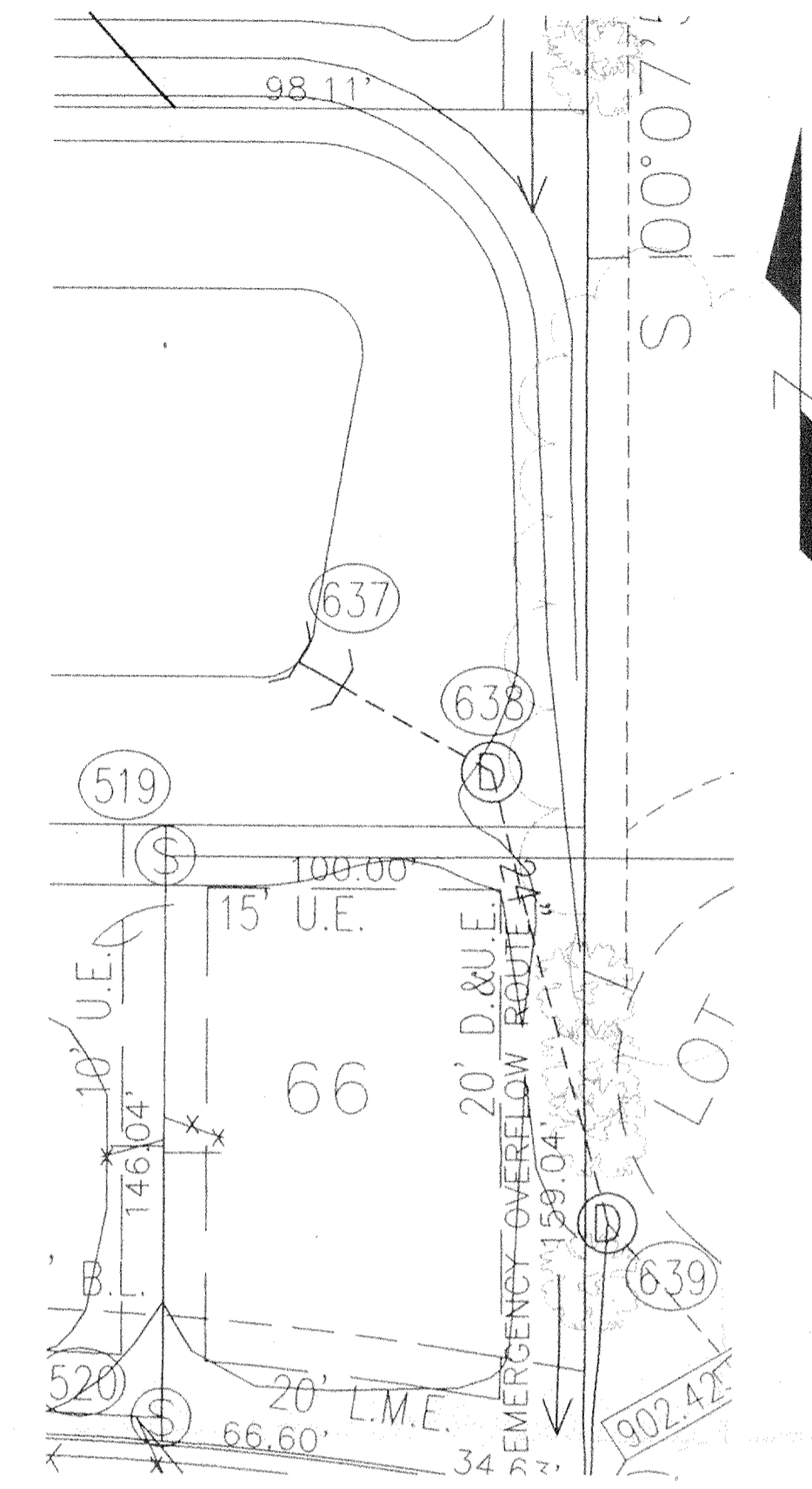
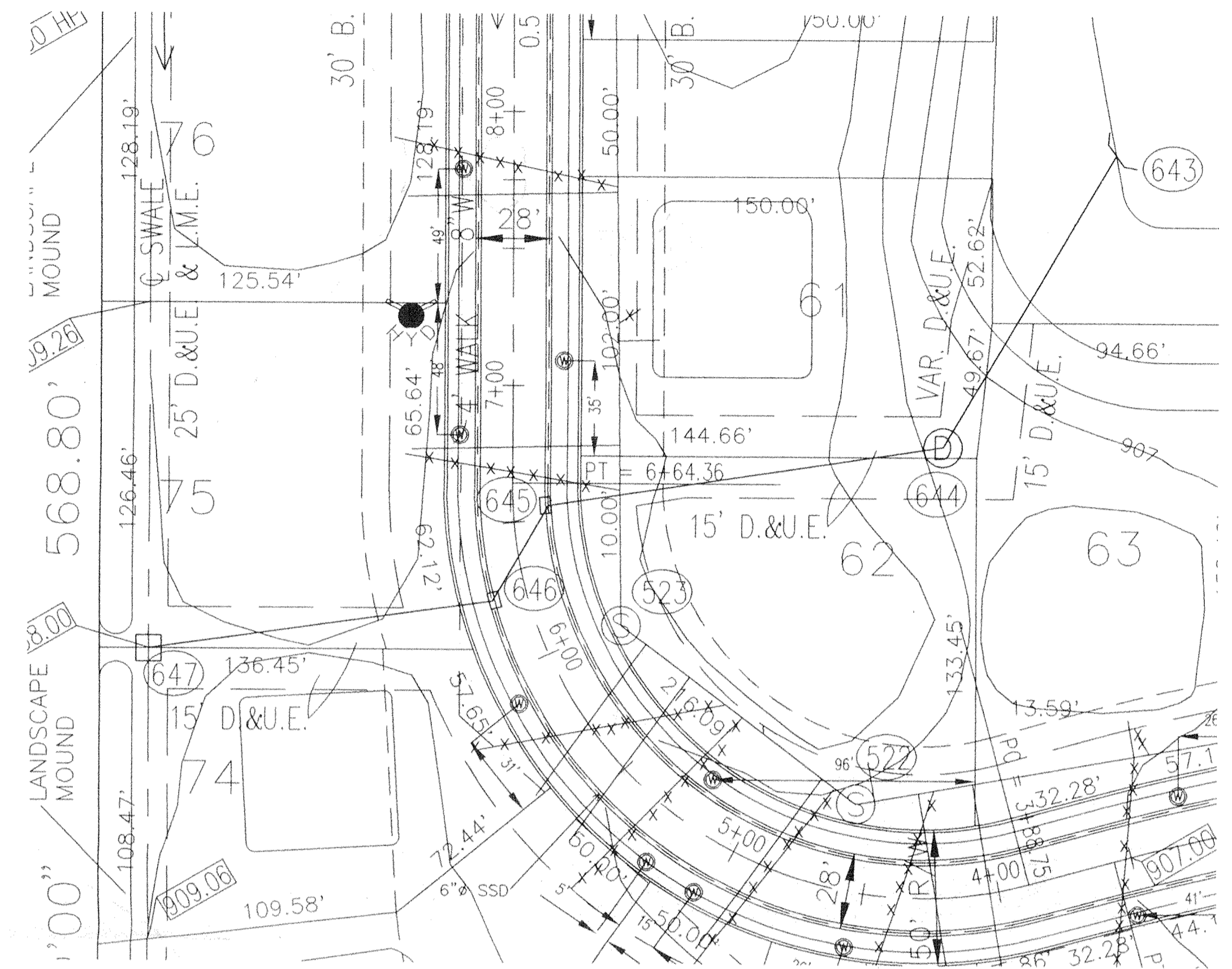
RAYL SURVEYING & ENGINEERING, INC.
1940 E. 63RD STREET
ANDERSON, INDIANA 46013
Ph. # (765) 943-1874 Fax # (765) 943-1874

DEVELOPMENT PLAN
MULBERRY FARMS
SECTION TWO

DATE: _____
JOB NO: B23927

SHEET 2 OF 21

SDSK\PROJ\780\DWG\DEV-SEC2.DWG



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

Entry Date: 5-16-2002

Entered by: Suzanne L. Mills

JDH SDW



CERTIFICATION BY SURVEYOR

The attached ASBUILT DRAWINGS, page 7 and 8 are, to the best of my knowledge and belief a true and correct representation of the STORM SEWER SYSTEM installation.

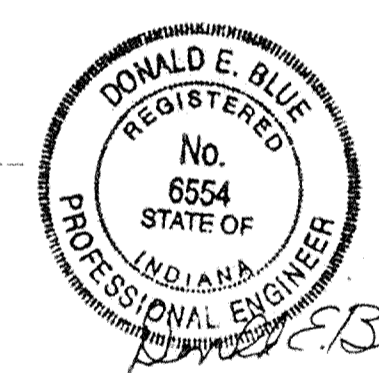
Leland D. Miller, Jr.

Leland D. Miller, Jr. #50083

Miller Surveying, Inc.

12-17-99

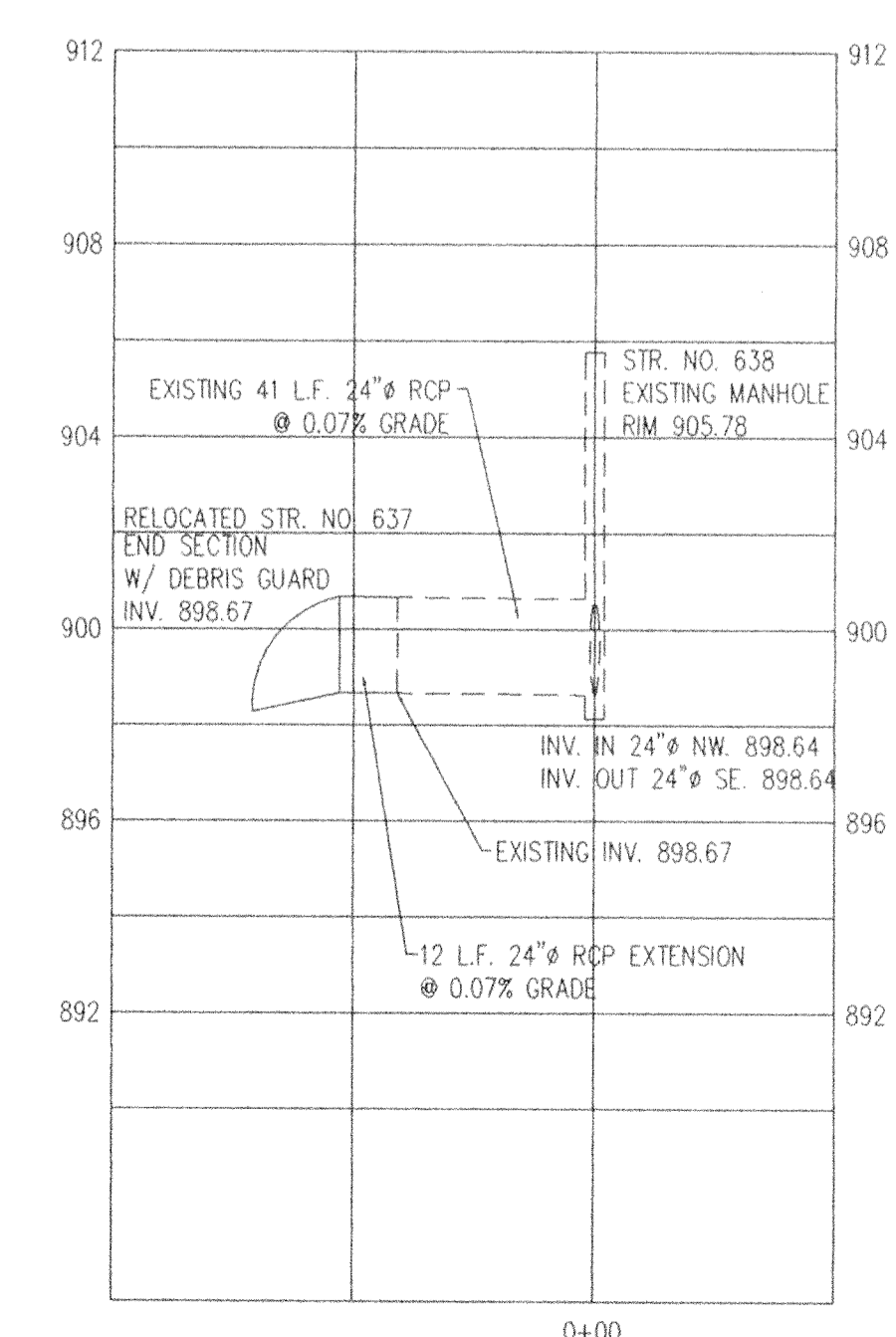
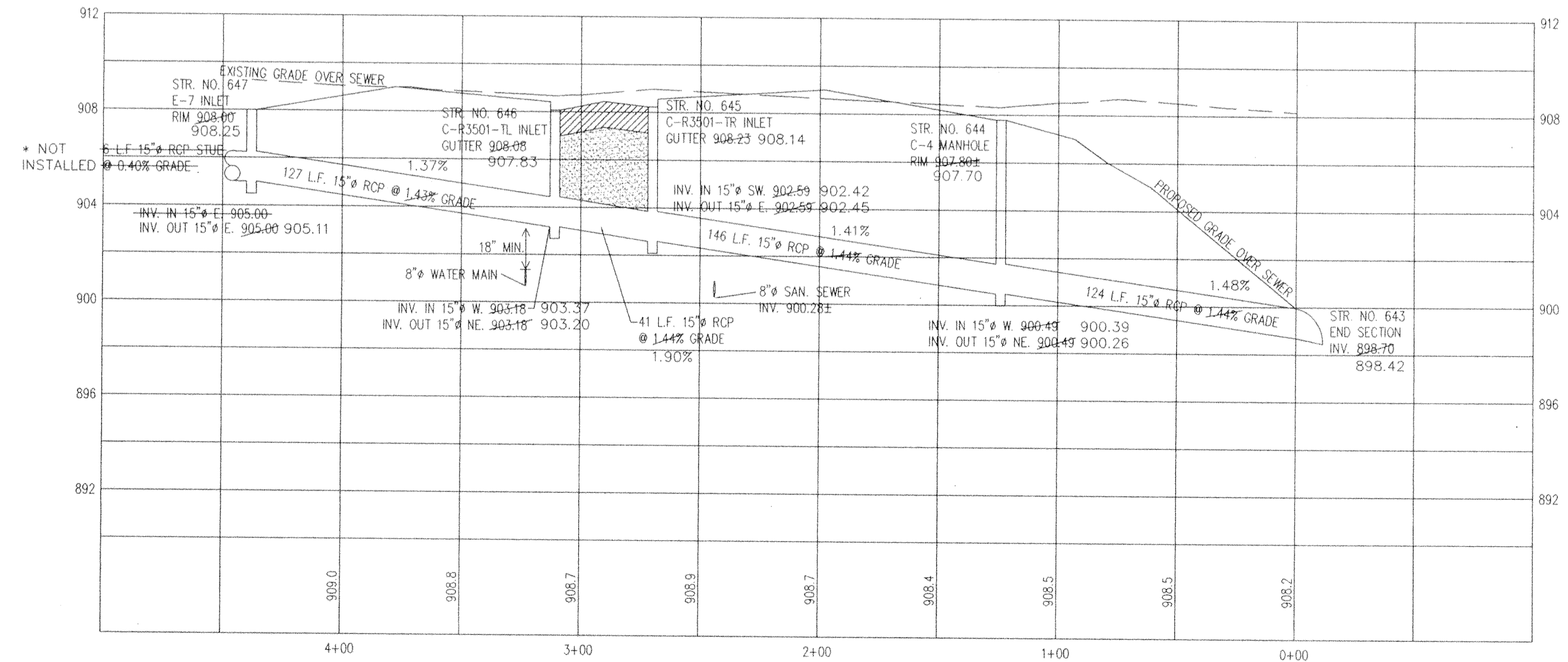
Date



LEGEND

⊙ = AS-BUILT SUBSURFACE DRAIN RISER

■ - FULL DEPTH GRANULAR BACKFILL



SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 4'

NOTE: PROFILE STATIONING APPLIES TO STORM SEWER ONLY.

FILED

MAY 01 2002

OFFICE OF HAMILTON COUNTY SURVEYOR

DATE	5/15/99	PROFILE ADDED	5/15/99
CHK. BY	7/15/99	PER HAMILTON CO. SURVEYOR'S OFFICE	
DATE	5/15/99	PER HAMILTON CO. SURVEYOR'S OFFICE LETTER DATED 6/12/99	
SCALE	AS SHOWN		
DATE	4/20/99		

MILLER SURVEYING, INC.
948 CONNER STREET
NOBLESVILLE INDIANA 46060
Ph. # (317) 773-3844 FAX 773-3894

RAYL SURVEYING & ENGINEERING, INC.
1940 E. 63RD STREET
ANDERSON INDIANA 46013
Ph. # (765) 843-5814
Fax # (765) 843-1874

AS-BUILT STORM SEWER PLAN & PROFILE

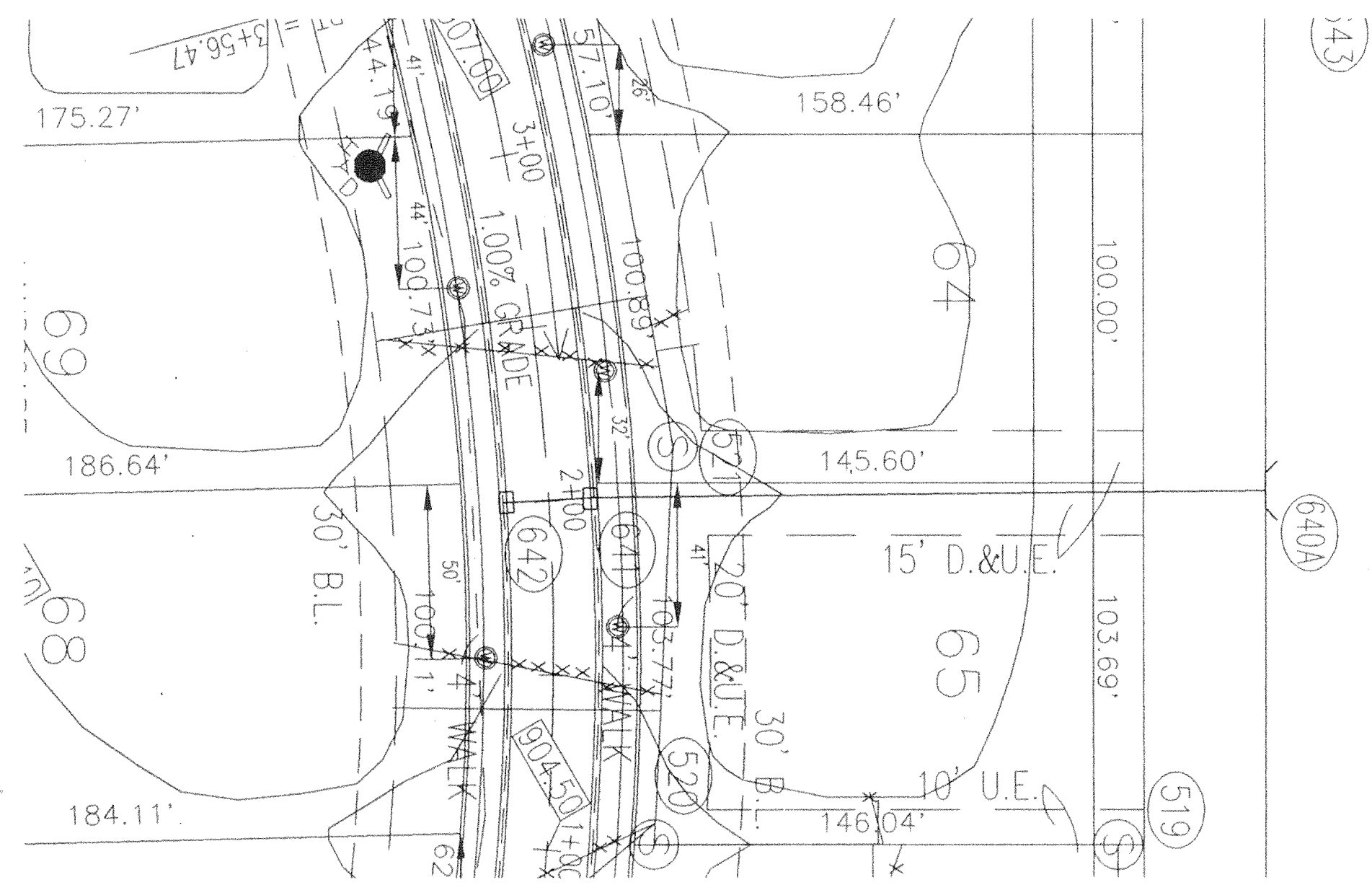
MULBERRY FARMS SECTION TWO

DATE: B23927

JOB NO: B23927

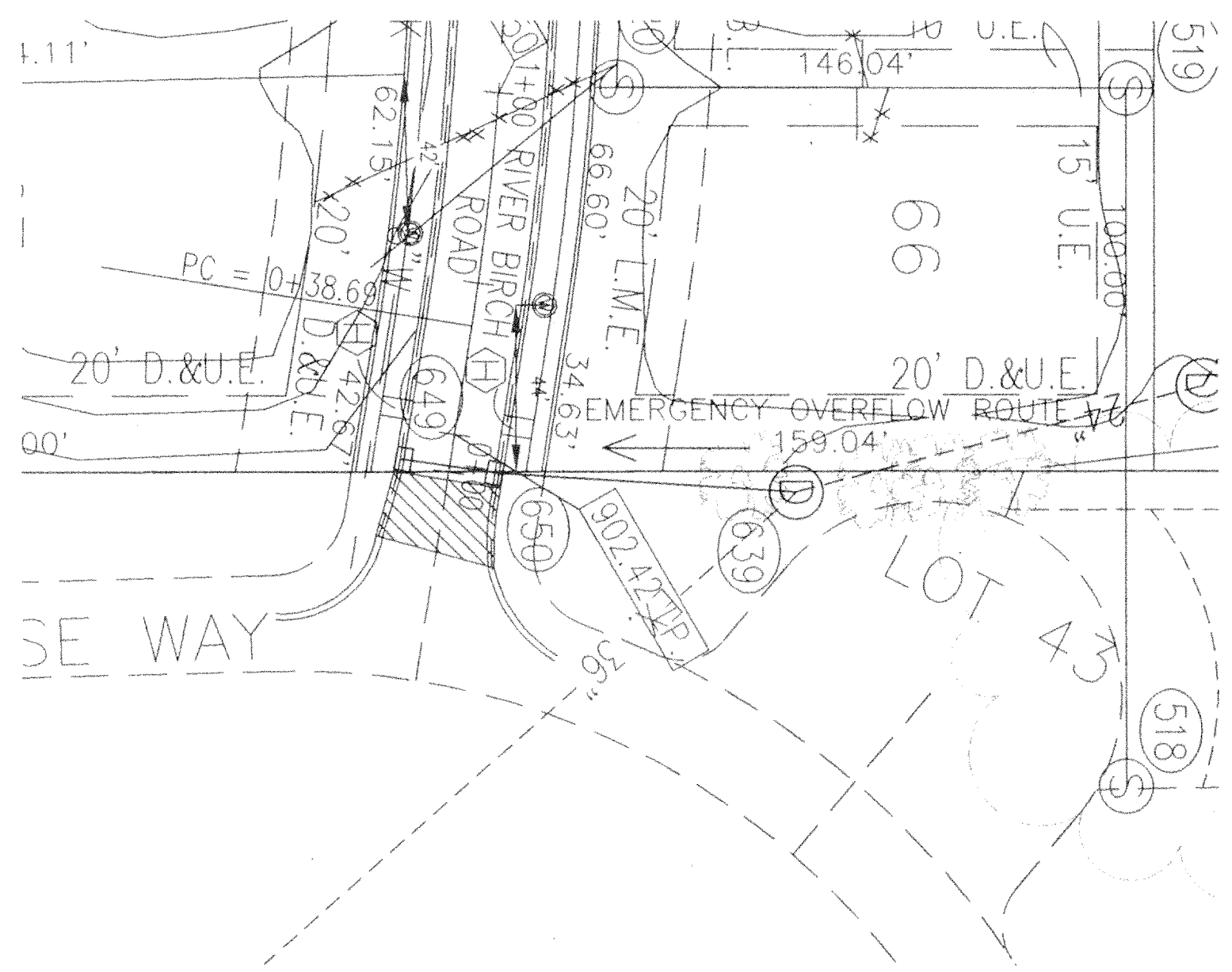
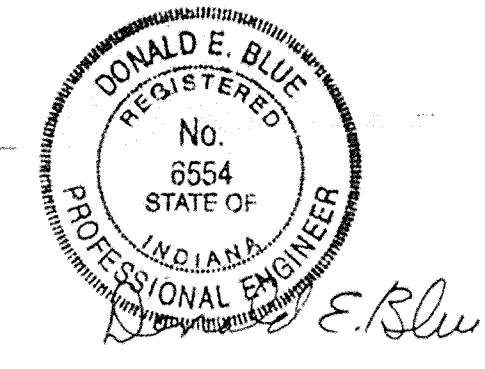
SHEET 7 OF 21

C:\WORK\proj\mulberry-2\storm10.dwg Wed Dec 08 09:16:10 1999 BY: JCH



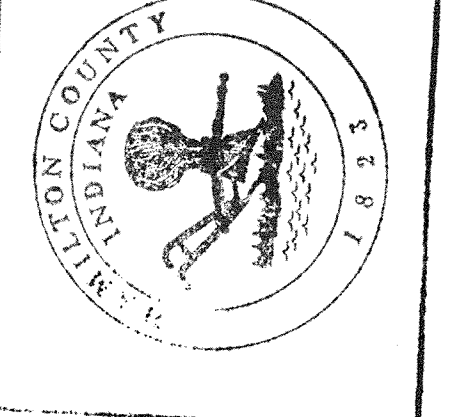
NORMAL POOL 898.67
100 YEAR STORM ELEV. 900.64

CERTIFICATION BY SURVEYOR
The attached ASBUILT DRAWINGS, page 7 and 8 are, to the best of my knowledge and belief a true and correct representation of the STORM SEWER SYSTEM installation.
Leland D. Miller, Jr.
Leland D. Miller, Jr. #50085
Miller Surveying, Inc. 12-17-99
Date

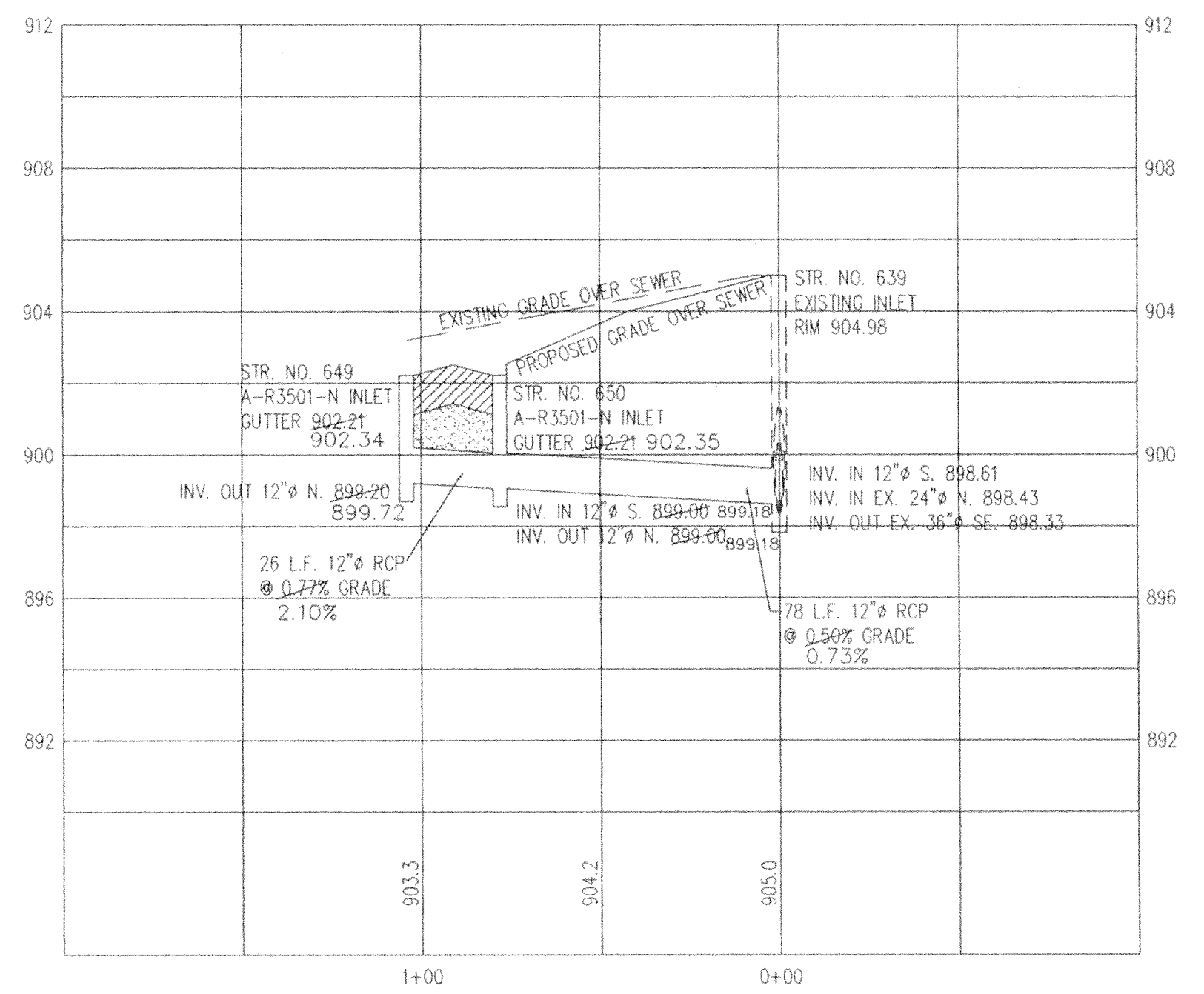
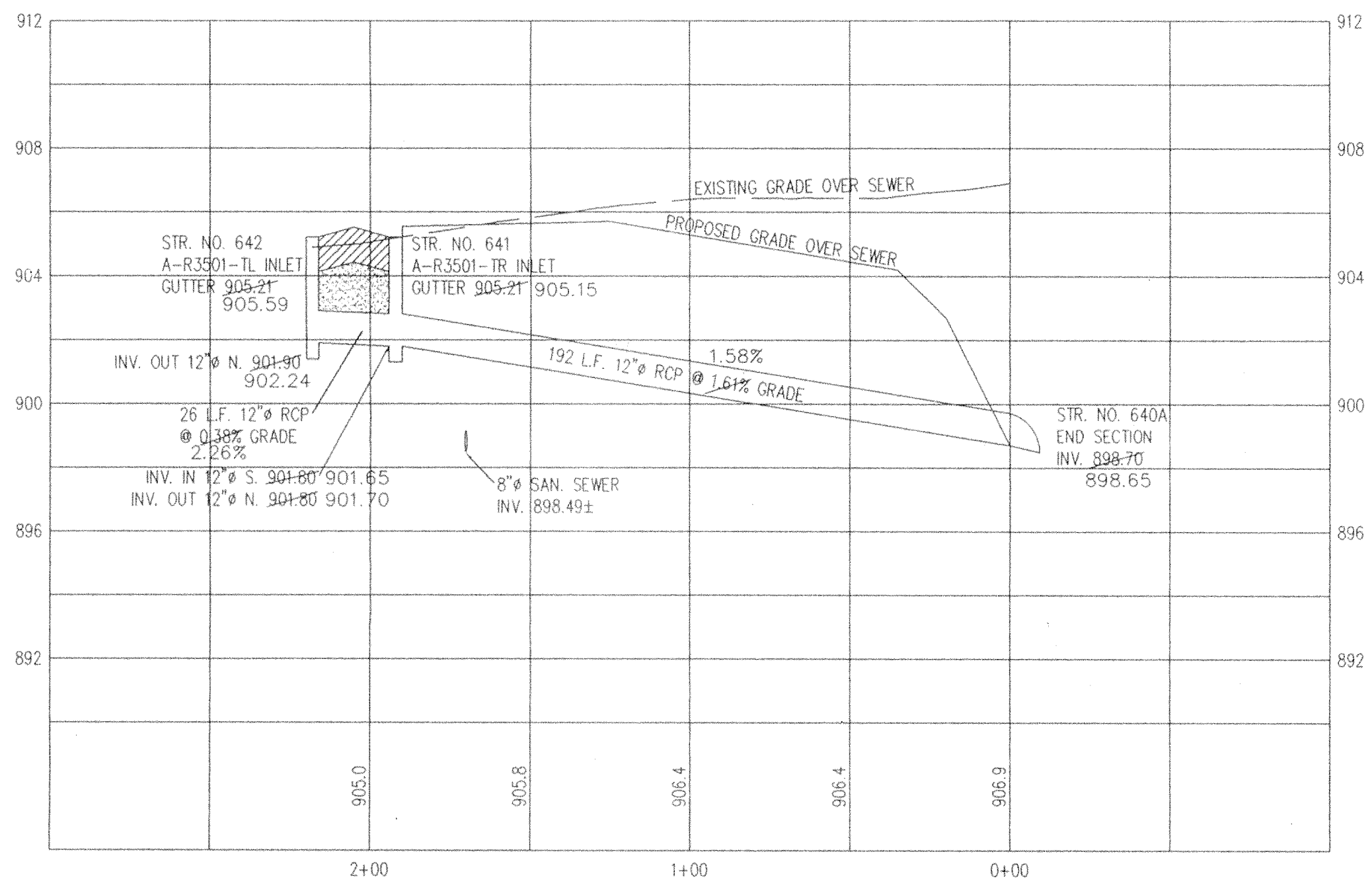


LEGEND
⊕ = AS-BUILT SUBSURFACE DRAIN RISER

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: 2-12-2002
Entered by: Suzanne L. Mills
JCH 5-18-04



■ FULL DEPTH GRANULAR BACKFILL



SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 4'

NOTES: 1. PROFILE STATIONING APPLIES TO STORM SEWER ONLY.
2. CONTRACTOR TO PERFORM ALL WORK NECESSARY TO CONNECT TO MANHOLE INCLUDING BUT NOT LIMITED TO CORING MANHOLE.

FILED
MAY 01 2002
OFFICE OF HAMILTON COUNTY SURVEYOR

AS-BUILT STORM SEWER
PLAN & PROFILE
MULBERRY FARMS
SECTION TWO

MILLER SURVEYING, INC.
948 CONNER STREET
NOBLESVILLE INDIANA 46060
PH. # (317) 773-2844 FAX 773-2844

RAYL SURVEYING & ENGINEERING, INC.
1940 E. 63RD STREET
ANDERSON, INDIANA 46013
PH. # (765) 643-9614
FAX # (765) 643-1974

DATE: MAY 01 2002
JOB NO: B23927
SHEET 8 OF 21

DATE	DWG. BY	REVISIONS
5/19/99		STORM GRADIES
6/16/99		CASTINGS STRS. 641-642, EXISTING INVERTS STR. 639
	CHK BY:	
	SCALE:	AS SHOWN
	DATE:	4/30/99