

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*

October 17, 2003

To: Hamilton County Drainage Board

Re: J. W. Brendle Drain, The Ridge at Hayden Run Section 1 Arm

Attached is a petition filed by Centex Homes along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the The Ridge at Hayden Run Section 1 Arm, J. W. Brendle 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	6,266 ft	18" RCP	413 ft	27" RCP	736 ft
12" RCP	783 ft	21" RCP	372 ft	36" RCP	982 ft
15" RCP	827 ft	24" RCP	255 ft	Open Ditch	85 ft

The total length of the drain will be 10,719 feet.

The open ditch shown above is that drain between Structure 108 and the 12" RCP west of the structure. The above also includes 982 feet of offsite storm sewer being installed in the Lakeside Park Subdivision.

The retention ponds (lakes) located in Common Area #5 and Common Area #3 are to be considered part of the regulated drain. Only the inlet and outlet will be maintained as part of the regulated drain. The maintenance, such as mowing, of the ponds (lakes) 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 \$10.00 per acre for common areas and roadways, \$65.00 per lot, with a \$65.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$2,389.90.

The petitioner has 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. The sureties which are in the form of a Performance Bond are as follows:

Agent: Safeco Insurance Company of America  
Date: August 4, 2003  
Number: 6223330  
For: Storm Sewer  
Amount:\$153,287.57

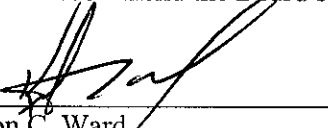
Agent: Safeco Insurance Company of America  
Date: August 4, 2003  
Number: 6223331  
For: Erosion Control  
Amount:\$51,256.65

Parcels assessed for this drain may be assessed for the Long Branch Drain at sometime in the future. Parcels assessed for this drain will be assessed as the J. W. Brendle Drain.

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 The Ridge at Hayden Run, Section 1 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 24, 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 The Ridge At  
Hayden Run Subdivision, Section One 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 The Ridge At  
Hayden Run, 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 benefitted 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.

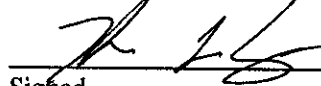
3. The Petitioner agrees to request in writing to the County Surveyor any changes from the approved plan and must receive written authorization from the County Surveyor prior to implementation of the change. All changes shall be documented and given to the Surveyor to be placed in the Drain File.
4. The Petitioner shall instruct his Engineer to provide a reproducible print on a 24" x 36" mylar of the final design of the Drainage System. This shall be submitted to the County Surveyor prior to the release of the Performance Bond.
5. The Petitioner shall comply with the Erosion Control Plan as specified on the construction plans. Failure to comply with the Erosion Control Plan shall be determined by the Board as being an obstruction to the drainage system. The County Surveyor shall immediately install or repair the needed measures at Petitioner cost as per IC 36-9-27-46.

The Petitioner further requests that the Drain be classified as an Urban Drain.

Thomas L. Kutz

Land Development Manager

Printed Name



Signed

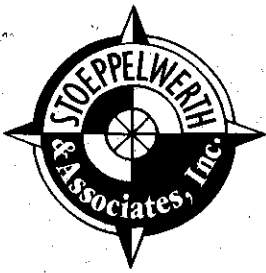
Centex Homes a Nevada General Partnership

By: Centex Real Estate Corporation a Nevada Corporation

Printed Name LTS: Managing General Partner

RECORDED OWNER(S) OF LAND INVOLVED

DATE \_\_\_\_\_



CONSULTING ENGINEERS  
LAND SURVEYORS

R.M. Stoepelwerth, PE, PLS • David J. Stoepelwerth, PE, PLS • Curtis C. Huff, PLS • Dennis D. Olmstead, PLS • Jeffery W. Darling, PLS

July 22, 2003

Hamilton County Surveyor  
One Hamilton County Square  
Suite 188  
Noblesville, Indiana 46060

FILED

JUL 24 2003

OFFICE OF HAMILTON COUNTY SURVEYOR

Attention: Jerry Liston

Re: Engineer's Estimate  
The Ridge at Hayden Run, Section 1

Dear Mr. Liston:

On behalf of the developer, Centex Homes, I wish to submit the following Engineer's Estimate for The Ridge at Hayden Run, Section 1.

Description	Quantity	Unit	Unit Price	Total
<b>Storm Sewer</b>				
12" RCP	783	LF	\$15.00	\$11,745.00
18" RCP	413	LF	\$20.25	\$8,363.25
21" RCP	66	LF	\$22.36	\$1,475.76
24" RCP	255	LF	\$25.56	\$6,517.80
27" RCP	530	LF	\$27.70	\$14,681.00
30" RCP	787	LF	\$28.00	\$22,036.00
36" RCP	982	LF	\$30.35	\$29,803.70
Storm Inlets	16	EA	\$1,388.00	\$22,208.00
Storm Manholes	2	EA	\$1,385.00	\$2,770.00
Yard Inlet	9	EA	\$986.00	\$8,874.00
6" SSD w/Backfill	4,903	LF	\$4.52	\$22,161.56
18" Conc End Section	7	EA	\$275.00	\$1,925.00
24" Conc End Section	1	EA	\$316.50	\$316.50
27" Conc End Section	1	EA	\$410.00	\$410.00
30" Conc End Section	1	EA	\$460.00	\$460.00
36" Conc End Section	1	EA	\$500.00	\$500.00
	<b>Total</b>			<b>\$153,287.57</b>
<b>Erosion Control</b>				
Common Area Seeding	581,305	SF	\$0.05	\$29,065.25
Pond Seeding w/ Blanket	57,500	SF	\$0.13	\$7,475.00
Swale Seeding	48,800	SF	\$0.05	\$2,440.00

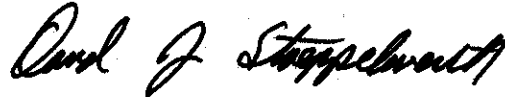
Hamilton County Surveyor  
Jerry Liston  
July 22, 2003  
Page 2

Swale Matting	9,760	LF	\$0.56	\$5,465.60
R/W Seeding	53,520	SF	\$0.04	\$2,140.80
Silt Fence	2,840	LF	\$1.25	\$3,550.00
Inlet Protection	16	EA	\$70.00	\$1,120.00
	<b>Total</b>			<b>\$51,256.65</b>
Monuments & Markers	15	EA	\$150.00	\$2,250.00

If you have any questions regarding this estimate, please contact Edward E. Fleming at (317) 849-5935, ext. 22.

Very truly yours,

STOEPPELWERTH & ASSOCIATES, INC.



David J. Stoepelwerth, P.E., P.L.S.

Cc: Todd Schaeffer  
S/42480/Agency

# CENTEX HOMES

Corporate Office

8440 Allison Pointe  
Suite 200  
Indianapolis, IN 46250

Phone: 317-915-2200

August 7, 2003

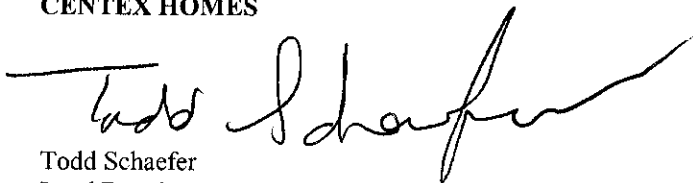
Jerry Liston  
Hamilton County Surveyor  
One Hamilton County Square  
Noblesville, IN 46060

RE: Ridge @ Hayden Run Section 1 Performance bond

Dear Jerry,

Enclosed is performance bond #6223330, #6223331, and 622332. The amounts for these bonds are respectively \$153,287.57, \$51,256.65, and 2,250.00, which match the amount, shown on the engineer's estimate. Please call me if you have any questions and I look forward to our pre-construction meeting tomorrow at 11am.

Sincerely,  
CENTEX HOMES



Todd Schaefer  
Land Development Project Manager

Mobile phone # 714-4120

**FOR SEC. 1 ONLY...**

FINDINGS AND ORDER

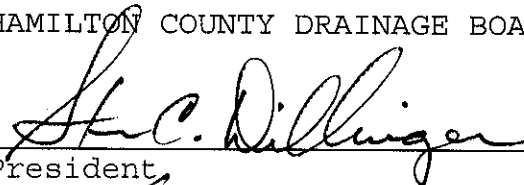
CONCERNING THE MAINTENANCE OF THE

J. W. Brendle Drain, The Ridge at Hayden Run Section 1 Arm

On this *24th day of November 2003*, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *J. W. Brendle Drain, The Ridge at Hayden Run Section 1 Arm*.

Evidence has been heard. Objections were presented and considered. The Board then adopted the original/amended Schedule of Assessments. The Board now finds that the annual maintenance assessment will be less than the benefits to the landowners and issues this order declaring that this Maintenance Fund be established.

HAMILTON COUNTY DRAINAGE BOARD

  
President

  
Member

  
Member

Attest: 



**CERTIFICATE OF COMPLETION AND COMPLIANCE**

To: Hamilton County Surveyor

Re: **The Ridge at Hayden Run, Section One**

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: *Jeffery W. Darling* Date: July 1, 2004

Type or Print Name: Jeffery W. Darling

Business Address: Stoepelwerth & Associates, Inc.

9940 Allisonville Road, Fishers, Indiana 46038

Telephone Number: (317) 849-5935

SEAL

INDIANA REGISTRATION NUMBER

900017



FILED  
JUL 06 2004

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, 2005**

**Re: Ridge at Hayden Run Sec. 1**

Attached are as-builts, certificate of completion & compliance, and other information for Ridge at Hayden Run Sec. 1. 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 October 17, 2003. The report was approved by the Board at the hearing held November 24, 2003. (See Drainage Board Minutes Book 7, Pages 260-261) The changes are as follows:

Structure:	Length:	Size	Material:	Up		Grade:	Changes:
				Invert:	Dn Invert		
108a-105	81	15	RCP	914.13	913.26	1.07	
108-107	66	12	RCP	915.05	914.71	0.52	
107-106	52	12	RCP	914.62	914.44	0.35	
106-105	64	12	RCP	914.32	913.77	0.86	
105-104	252	30	RCP	913.26	911.77	0.59	
104-103	145	30	RCP	911.72	911.35	0.26	-1
103-102	30	30	RCP	911.35	911.09	0.86	
102-101	151	30	RCP	910.98	910.61	0.26	-2
101-100	204	30	RCP	910.61	909.96	0.32	-2
105a-104a	52	12	RCP	913.42	912.83	1.13	
104a-103	119	12	RCP	912.78	911.35	1.2	
112-111	130	12	RCP	913.27	912.59	0.52	
111-110	30	12	RCP	912.52	912.39	0.43	
110-109	150	15	RCP	912.33	911.78	0.37	
109-101	162	15	RCP	911.66	910.61	0.65	
117-116	170	18	RCP	911.73	911.28	0.26	
116-115	36	21	RCP	911.01	910.87	0.39	
115-114	30	21	RCP	910.82	910.66	0.53	
114-113	255	24	RCP	910.66	909.82	0.33	
119-118	30	12	RCP	912.61	912.27	1.13	
118-116	65	12	RCP	912.19	911.09	1.69	-1
123-122	154	12	RCP	912.67	912.04	0.41	-2

122-121	38	15	RCP	911.94	911.52	1.11	2
121-120	243	18	RCP	911.44	910.01	0.59	
140-192a	216	27	RCP	909.98	909.7	0.13	-4
192a-192	49	27	RCP	909.65	909.48	0.35	6
192-193	30	27	RCP	909.2	908.93	0.9	
193-141	237	27	RCP	908.83	908.07	0.32	
206-207	165	36	RCP	908.21	907.99	0.13	-6
207-208	130	36	RCP	907.99	907.77	0.17	-1
208-209	33	36	RCP	907.77	907.68	0.27	-2
209-210	30	36	RCP	907.68	907.49	0.63	
210-211	143	36	RCP	907.49	907.39	0.07	
211-212	77	36	RCP	907.39	907.29	0.13	-3
212-213	148	36	RCP	907.29	906.93	0.24	-2
213-214	30	36	RCP	906.93	906.86	0.23	
214-215	206	36	RCP	906.86	906.53	0.16	-6
108b-108c	16	12	RCP			1	

**6" SSD Streets:**

Giovanni Dr	369.5
Ambleswind Pl	324.5
Primo Way	303
DaVinci Dr	598
Oliver Ln	786
<b>Totalx2:</b>	<u>4762</u>

<b>Other Drain:</b>	
open	85
<b>Total:</b>	<u>85</u>

**RCP Pipe Totals:**

12	774
15	431
18	413
21	66
24	255
27	532
30	782
36	962
<b>Total:</b>	<u>4215</u>

The length of the drain due to the changes described above is now **9,062 feet**.

The non-enforcement was approved by the Board at its meeting on November 24, 2003 and recorded under instrument #200400018962.

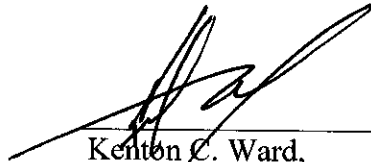
The following sureties were guaranteed by Safeco Insurance Company of America and released by the Board on its December 13, 2004 meeting.

**Bond-LC No:** 6223330  
**Insured For:** Storm Sewers  
**Amount:** \$153,287.57  
**Issue Date:** August 4, 2003

**Bond-LC No:** 6223331  
**Insured For:** Erosion Control  
**Amount:** \$51,256.65  
**Issue Date:** August 4, 2003

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

Sincerely,



---

Kenton C. Ward,  
Hamilton County Surveyor

KCW/slm

**RECORD  
DRAWING**

JEFFORY W. DARLING  
Registered Land Surveyor  
No. 900017

6/23/04  
DATE



**'AS-BUILT'  
STORM CHART**

STR. #	TYPE	RIM	INV.	DIR.	INV.	DIR.
100	END SECTION		910.00	N		
101	YARD INLET	914.40	910.61	N,W	910.61	S
102	CURB INLET	916.50	911.09	N	910.98	S
103	CURB INLET W/MH	916.61	911.35	N,W	911.35	S
104	YARD INLET	915.20	911.77	N	911.72	S
104A	CURB INLET	916.68	912.78	E	912.83	W
105	YARD INLET	918.03	913.77	W	913.26	S
105A	CURB INLET	916.56	913.42	E		
106	CURB INLET	919.62	914.44	W	914.32	E
107	CURB INLET	919.73	914.71	W	914.62	E
108	YARD INLET	916.95	915.05	N,E		
108A	YARD INLET	917.52	914.13	S		
109	YARD INLET	914.96	911.66	E	911.78	W
110	CURB INLET W/MH	918.23	912.33	E	912.39	W
111	CURB INLET W/MH	918.20	912.52	E	912.59	W
112	YARD INLET	915.99	913.27	E		
113	END SECTION		909.82	N		
114	CURB INLET W/MH	916.07	910.66	N	910.66	S
115	CURB INLET W/MH	916.05	910.87	E	910.82	S
116	MANHOLE	916.56	911.28	N,SE	911.01	W
117	YARD INLET	914.06	911.73	S		
118	CURB INLET	916.22	912.27	SE	912.19	NW
119	CURB INLET	916.11	912.61	NW		
120	END SECTION		910.01	E		E
121	CURB INLET	915.72	911.52	NE	911.44	W
122	CURB INLET	915.82	912.04	E	911.94	SW
123	YARD INLET	914.84	912.67	W		
140	END SECTION		909.98	SE		
141	END SECTION		908.22	NW		
192	DOUBLE CURB INLET	914.83	909.20	SE	909.48	N
192A	MANHOLE	915.75	909.65	S	909.70	NW
193	DOUBLE CURB INLET	914.66	908.83	SE	908.93	NW

NOTE:  
ALL OFF-SITE DRAIN TILES SHALL BE TIED INTO THE PROPOSED STORM SYSTEM OF THIS SECTION (WHERE APPLICABLE)

NOTE: DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, LANDSCAPING MOUNDS, LIGHT POLES, OR OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT OF WAY.

ALL PADS SHOULD BE TESTED TO ASSURE A COMPACTION OF AT LEAST 95% OF THE MAXIMUM DRY DENSITY USING THE STANDARD PROCTOR TEST METHOD.

NOTE: SIDEWALK ADJACENT TO COMMON AREA TO BE INSTALLED BY CONTRACTOR.

**BENCHMARKS:**

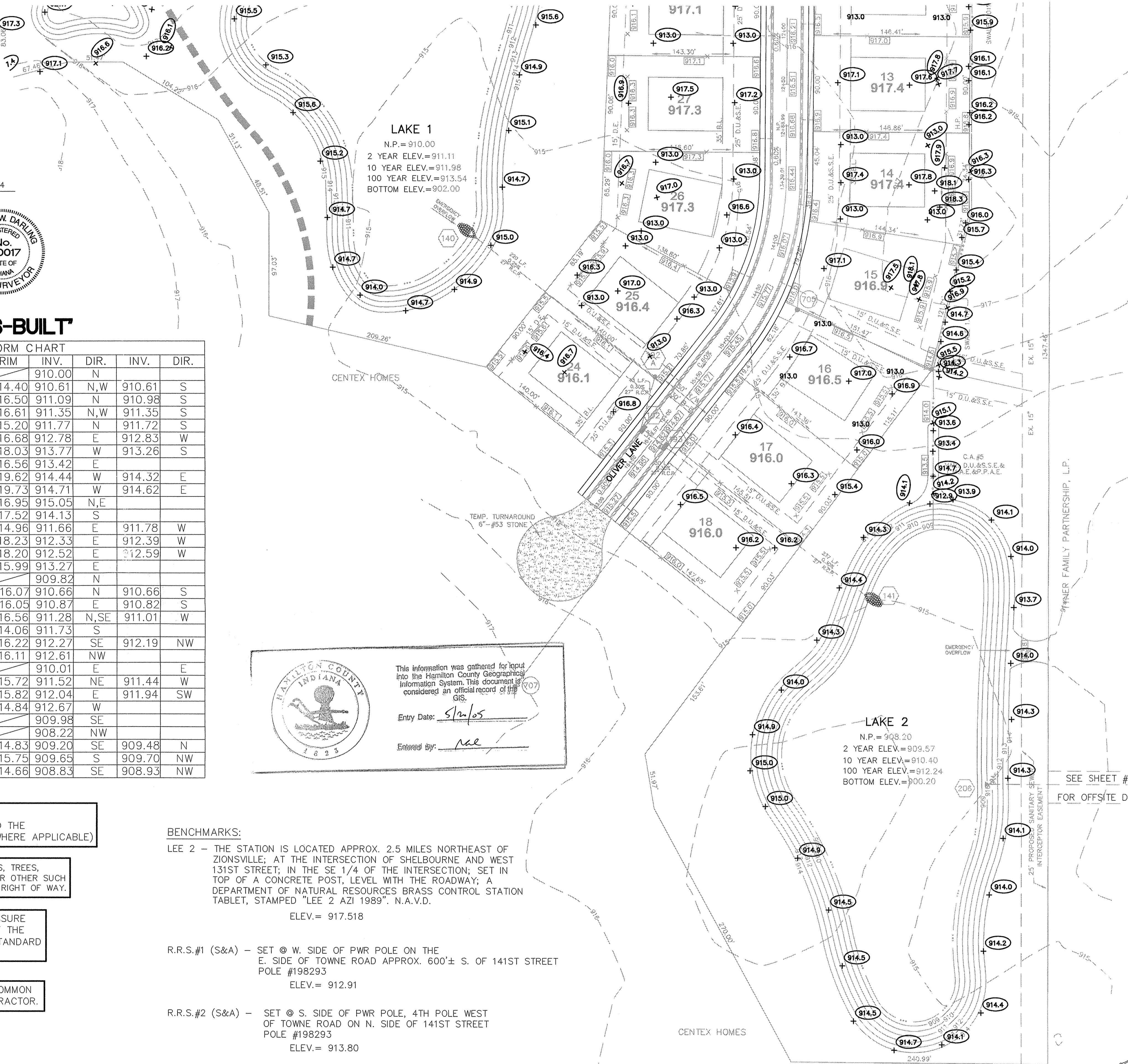
- LEE 2 - THE STATION IS LOCATED APPROX. 2.5 MILES NORTHEAST OF ZIONSVILLE; AT THE INTERSECTION OF SHELBOURNE AND WEST 131ST STREET; IN THE SE 1/4 OF THE INTERSECTION; SET IN TOP OF A CONCRETE POST, LEVEL WITH THE ROADWAY; A DEPARTMENT OF NATURAL RESOURCES BRASS CONTROL STATION TABLET, STAMPED "LEE 2 AZI 1989". N.A.V.D.  
ELEV.= 917.518
- R.R.S.#1 (S&A) - SET @ W. SIDE OF PWR POLE ON THE E. SIDE OF TOWNE ROAD APPROX. 600'± S. OF 141ST STREET POLE #198293  
ELEV.= 912.91
- R.R.S.#2 (S&A) - SET @ S. SIDE OF PWR POLE, 4TH POLE WEST OF TOWNE ROAD ON N. SIDE OF 141ST STREET POLE #198293  
ELEV.= 913.80

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: 5/20/05  
Entered by: nce



**LAKE 1**  
N.P.= 910.00  
2 YEAR ELEV.=911.11  
10 YEAR ELEV.=911.98  
100 YEAR ELEV.=913.54  
BOTTOM ELEV.=902.00

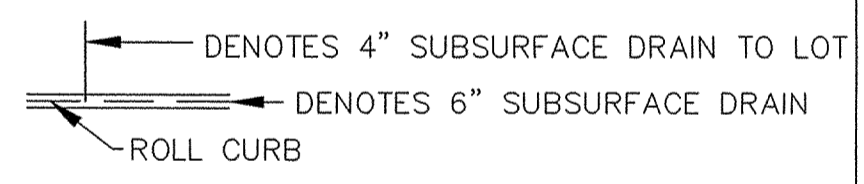
**LAKE 2**  
N.P.= 908.20  
2 YEAR ELEV.=909.57  
10 YEAR ELEV.=910.40  
100 YEAR ELEV.=912.24  
BOTTOM ELEV.=900.20



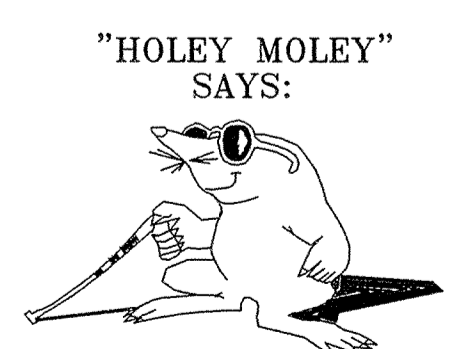
SCALE: 1"= 50'

**LEGEND**

- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE
- PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED 5' SIDEWALK (BY HOME BUILDER)
- LOT NUMBER
- PAD ELEVATION
- PAD SIZE 50'x70'



- NOTES:
- ALL CURB IN CENTER MEDIANS SHALL BE 2' CHAIRBACK CURB W/REVERSE SLOPE.
  - ALL LOTS AROUND PROPOSED LAKES TO HAVE AN OPENING NO LOWER THAN 2 FEET ABOVE THE 100 YEAR ELEVATION.



**"HOLEY MOLEY" SAYS:**

**CAUTION**  
LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE. (including, but not limited to, manholes, inlets, valves, & marks made upon the ground by others.) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

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



CERTIFIED: 2/04/03

CONSULTING ENGINEERS - LAND SURVEYORS  
(317) 849-5935 1-800-728-6917 FAX: (317) 849-5942  
INDIANAPOLIS INDIANA

**DAVID J. STOPPELMEIER**  
REGISTERED PROFESSIONAL ENGINEER  
No. 19358  
STATE OF INDIANA

**THE RIDGE AT HAYDEN RUN  
SECTION 1**

JUL 06 2004 SHEET NO. 4  
of 23 SHEETS  
JOB NO. 42480

REV.	DATE	MARK	REVISIONS
AS BUILTS	6/23/04		
AS BUILTS	7/7/04		
REVISED PER TRAILS SUBMISSION	7/7/03		
ADD STREET NAMES	7/13/03		
REV. PER IAC COMMENTS	7/13/03		
DATE	2/04/03		

EX. 18" PIPE TO BE FILLED AND ABANDONED OR REMOVED. THOMAS M. KING

NOTE: ALL OFF-SITE DRAIN TILES SHALL BE TIED INTO THE PROPOSED STORM SYSTEM OF THIS SECTION (WHERE APPLICABLE)

NOTE: DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, LANDSCAPING MOUNDS, LIGHT POLES, OR OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT OF WAY.

ALL PADS SHOULD BE TESTED TO ASSURE A COMPACTION OF AT LEAST 95% OF THE MAXIMUM DRY DENSITY USING THE STANDARD PROCTOR TEST METHOD.

NOTE: SIDEWALK ADJACENT TO COMMON AREA TO BE INSTALLED BY CONTRACTOR.

BENCHMARKS:

LEE 2 - THE STATION IS LOCATED APPROX. 2.5 MILES NORTHEAST OF ZIONSVILLE; AT THE INTERSECTION OF SHELBOURNE AND WEST 131ST STREET; IN THE SE 1/4 OF THE INTERSECTION; SET IN TOP OF A CONCRETE POST, LEVEL WITH THE ROADWAY; A DEPARTMENT OF NATURAL RESOURCES BRASS CONTROL STATION TABLET, STAMPED "LEE 2 AZI 1989". N.A.V.D. ELEV. = 917.518

R.R.S.#1 (S&A) - SET @ W. SIDE OF PWR POLE ON THE E. SIDE OF TOWNE ROAD APPROX. 600'± S. OF 141ST STREET POLE #198293 ELEV. = 912.91

R.R.S.#2 (S&A) - SET @ S. SIDE OF PWR POLE, 4TH POLE WEST OF TOWNE ROAD ON N. SIDE OF 141ST STREET POLE #198293 ELEV. = 913.80



Table with columns: REG, BY, DATE, MARK, REVISIONS. Includes entries for AS BUILTS, AS BUILT, REVISED PER TRAILS SUBVISION, REVISED PER TRAILS, REVISED PER HIGHWAY COMMENTS, REV. PER TAC COMMENTS.

SCALE: 1" = 50'

LEGEND section containing symbols for existing contours, existing sanitary sewer, existing storm sewer, proposed grade, proposed contour, proposed sanitary sewer, proposed storm sewer, proposed swale, proposed 5' sidewalk, lot number, pad elevation, pad size, handicap ramp, and subsurface drains.

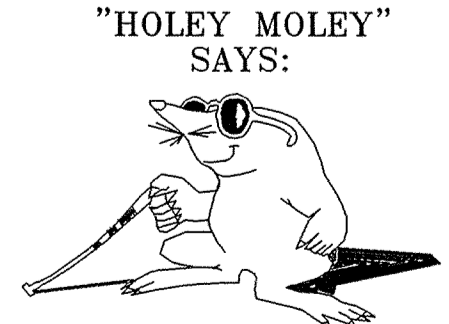
NOTES: 1. ALL CURB IN CENTER MEDIANS SHALL BE 2' CHAIRBACK CURB W/REVERSE SLOPE. 2. ALL LOTS AROUND PROPOSED LAKES TO HAVE AN OPENING NO LOWER THAN 2 FEET ABOVE THE 100 YEAR ELEVATION.

RECORD DRAWING

Jeffery W. Darling Registered Land Surveyor No. 900017



Hamilton County Indiana seal and GIS information box with fields for Entry Date and Entered by.

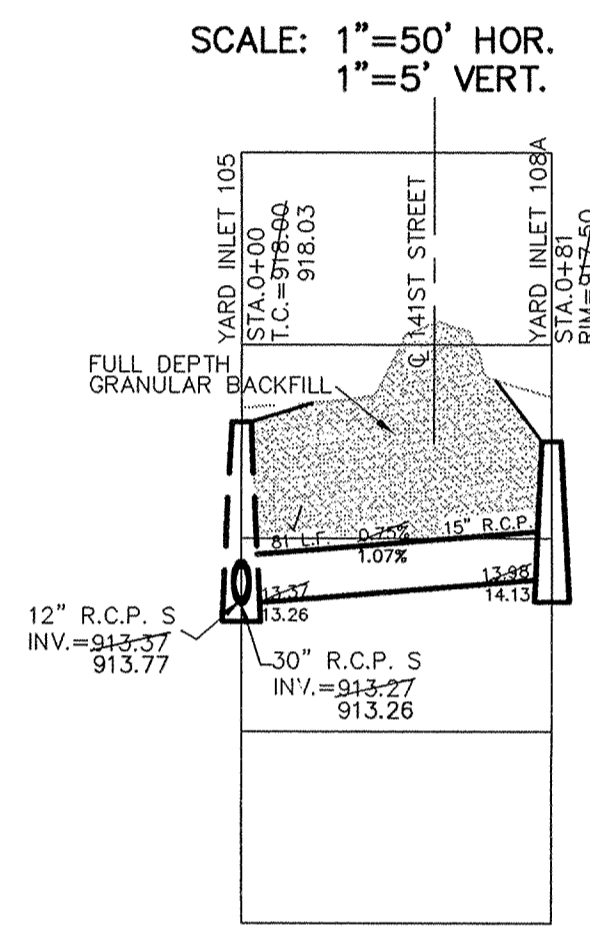


"HOLEY MOLEY" SAYS: 1-800-382-5544 CALL TOLL FREE 1-800-428-5200 FOR CALLS OUTSIDE OF INDIANA

CAUTION LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE...

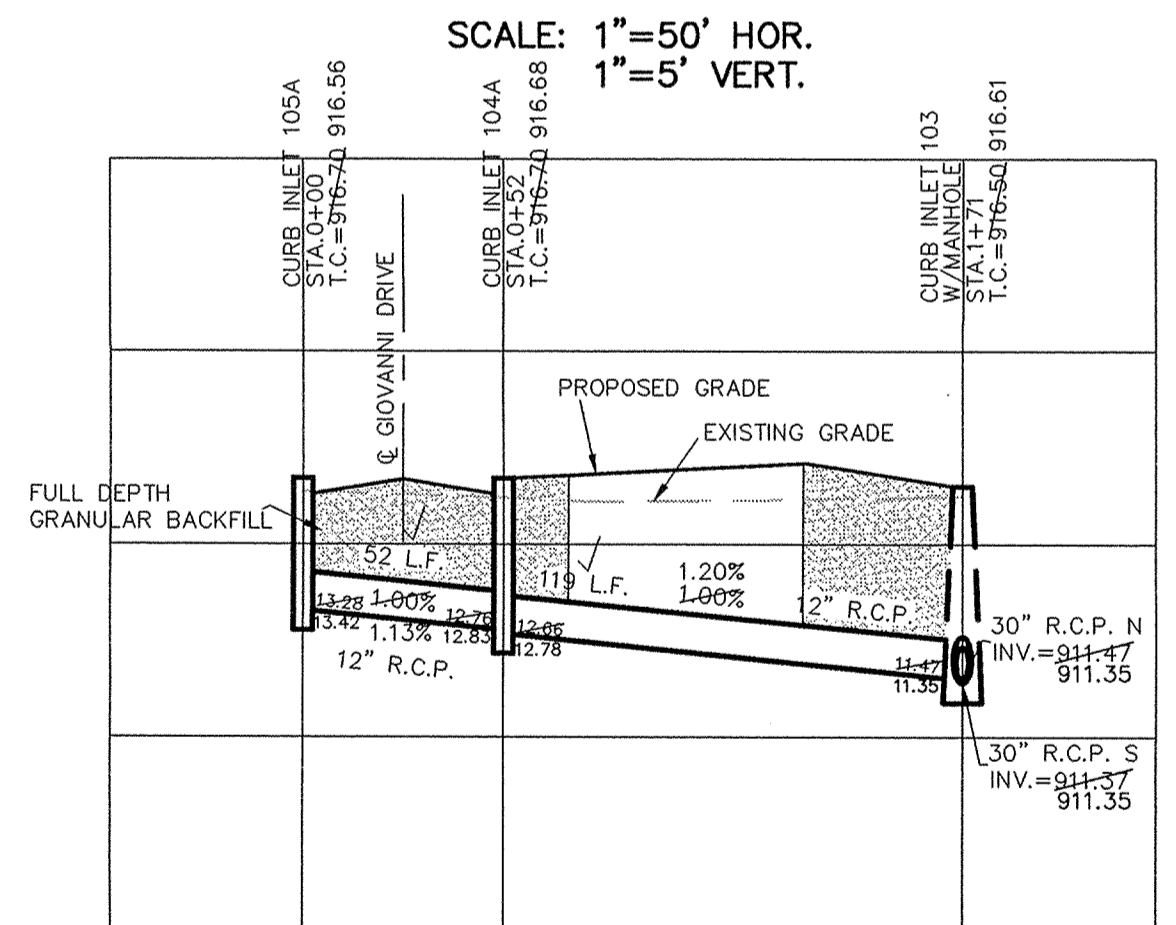
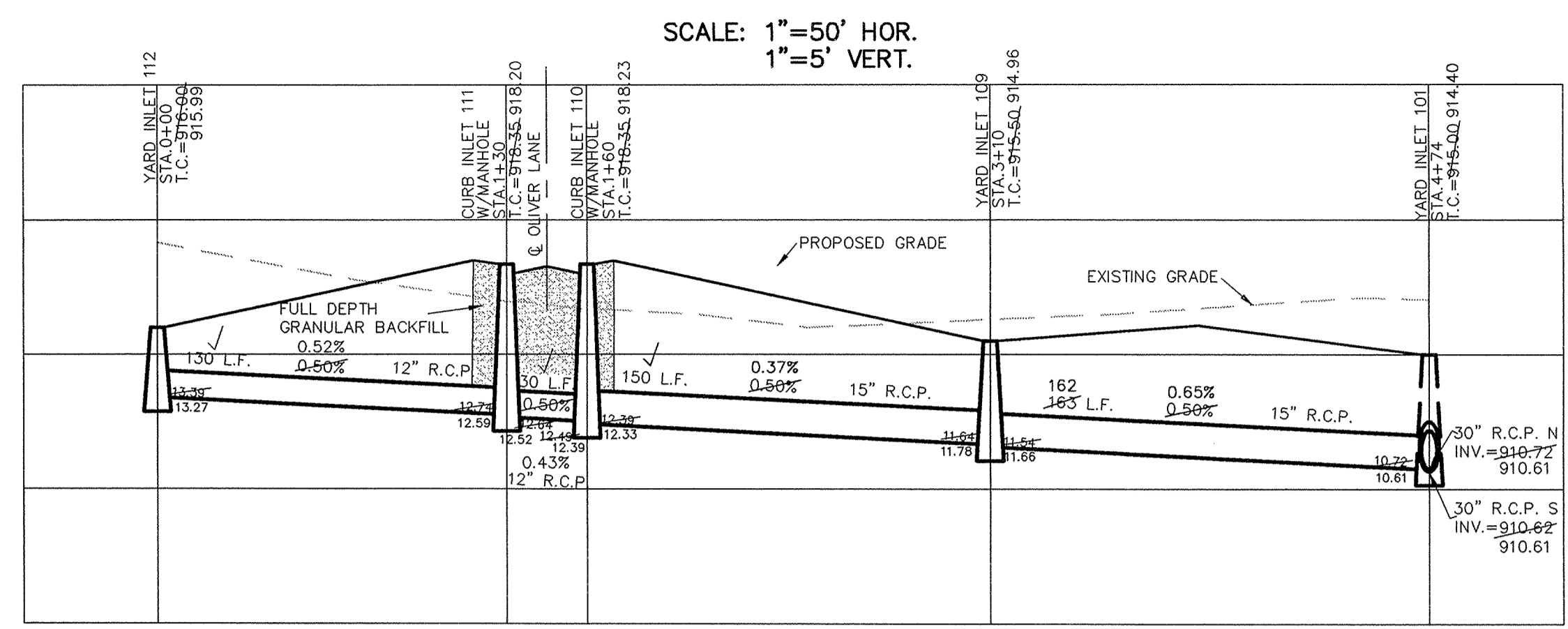
CONSULTING ENGINEERS - LAND SURVEYORS (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942 INDIANAPOLIS INDIANA

SITE DEVELOPMENT PLAN THE RIDGE AT HAYDEN RUN SECTION 1



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

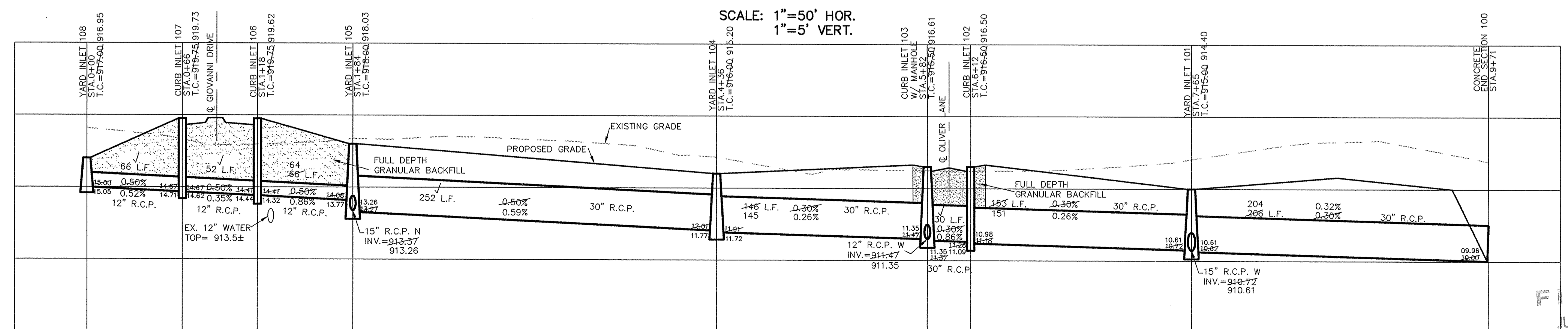
Entry Date: 3/12/04  
Entered by: JWD



# RECORD DRAWING

*Jeffery W. Darling*  
JEFFERY W. DARLING  
Registered Land Surveyor  
No. 900017

3/12/04  
DATE



PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING #R-3501 N	CASTING #3501 TL & TR
12" to 18"	24"x24"			No	Yes	Yes
12" to 21"	30"x30"			No	Yes	Yes
18" to 21"		MH/BOX		Yes	Yes	Yes
21" to 27"	24"x36"			No	No	Yes
12" to 24"	36"x36"			No	Yes	Yes
24" OR LARGER				No	No	Yes
24" OR LARGER		MH/BOX		Yes**	Yes	Yes

\* PIPES NO LARGER THAN 18" CAN BE USED IN THE 2' SIDE OF THIS BOX

\*\* INCOMING AND OUT GOING PIPES EFFECT STEPS IN THIS STRUCTURE

SPECIAL NOTE:  
STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A M.H. OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED.

SPECIAL NOTE:  
STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES

SPECIAL NOTE:  
COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET, TO IMPROVE ACCESS.



CERTIFIED: 2/04/03

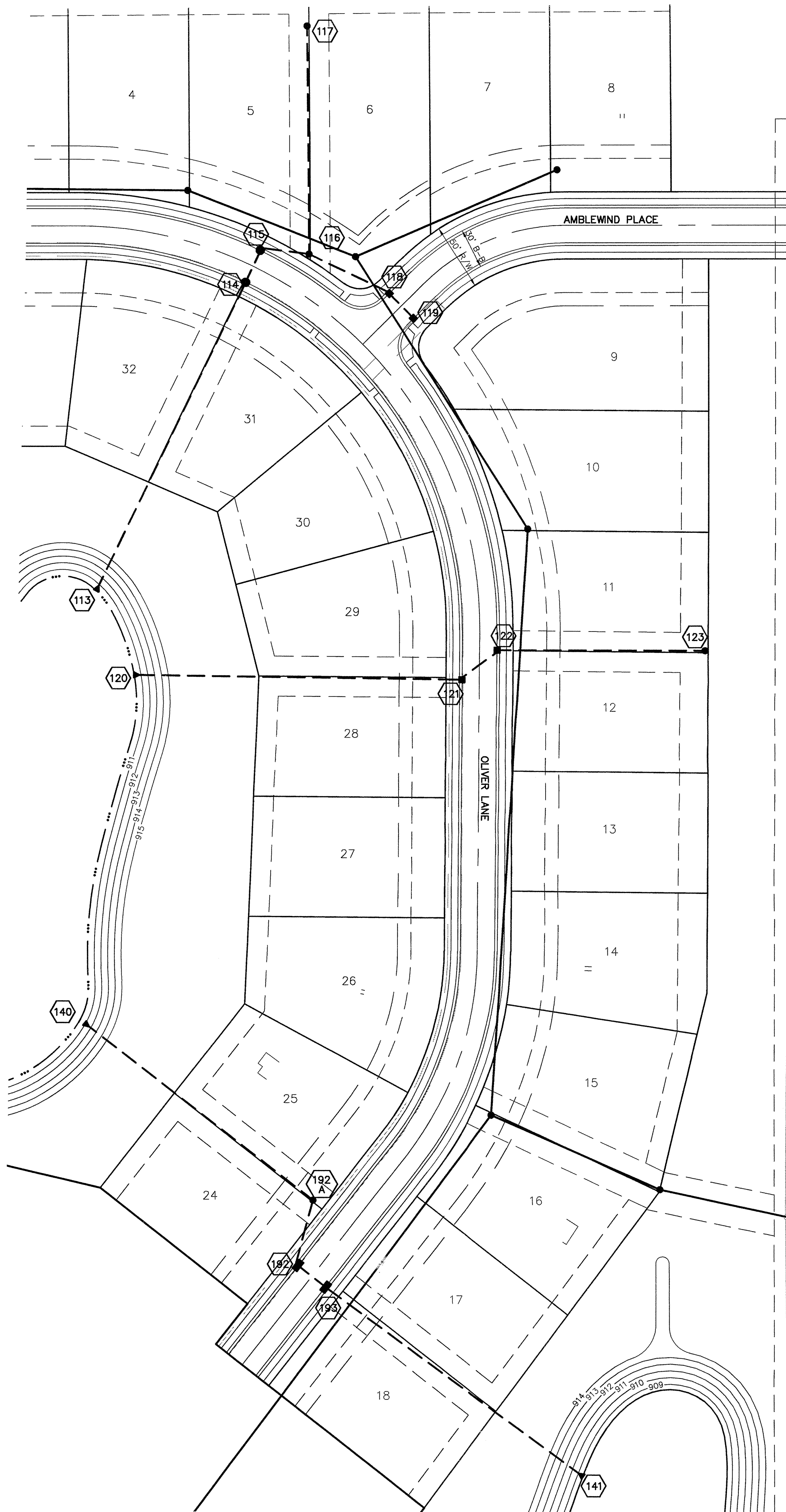
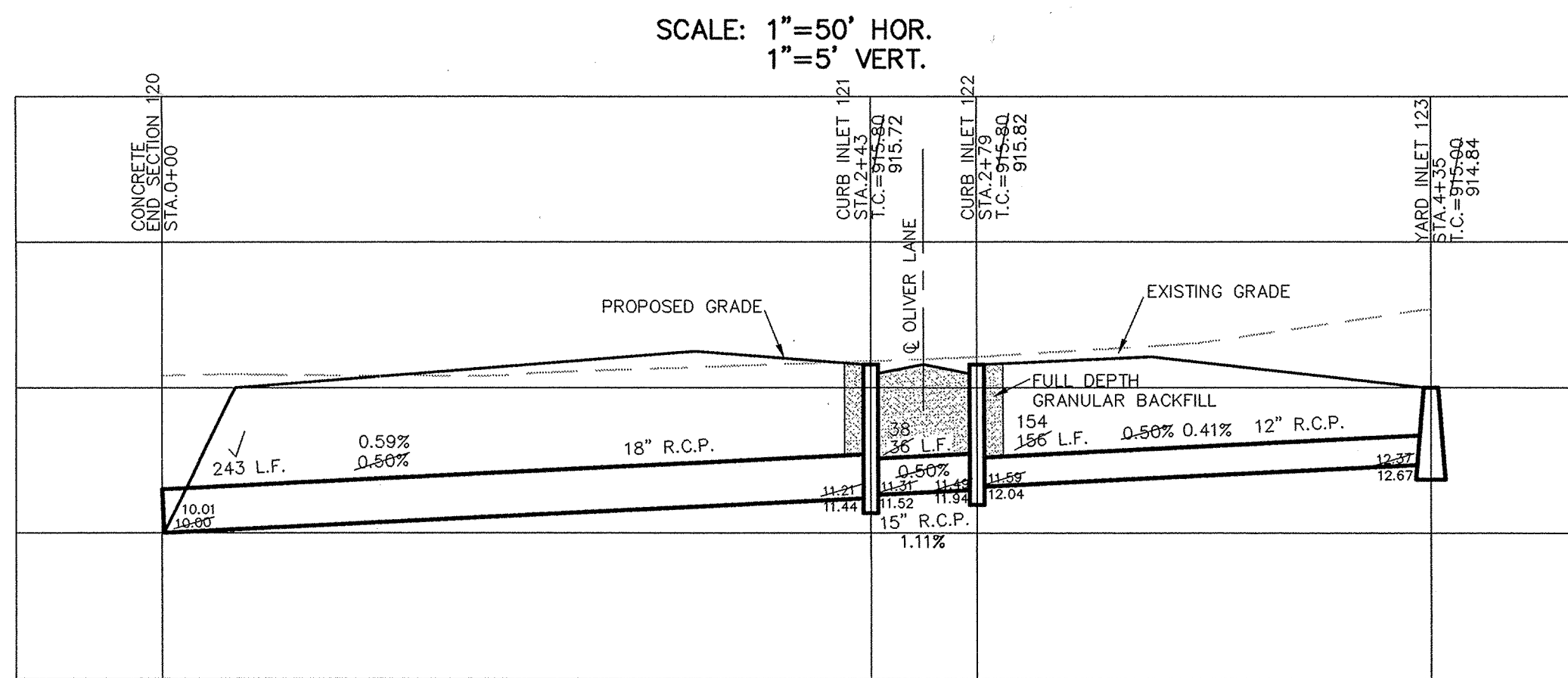
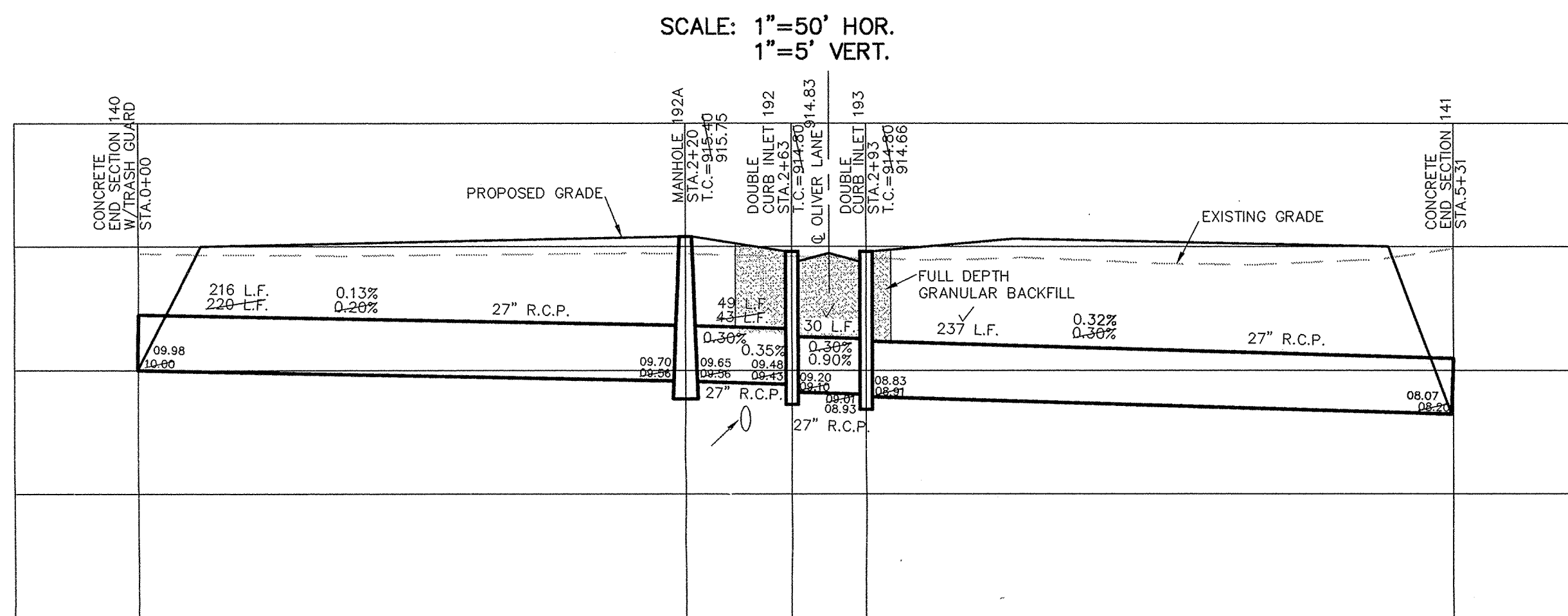
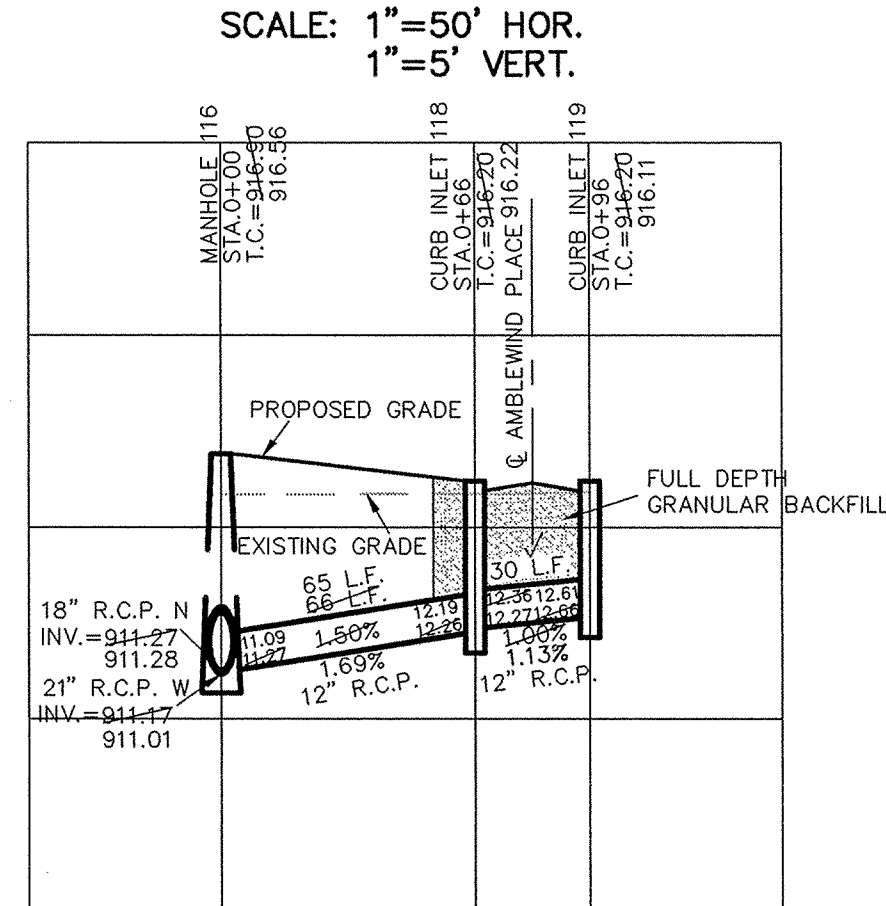
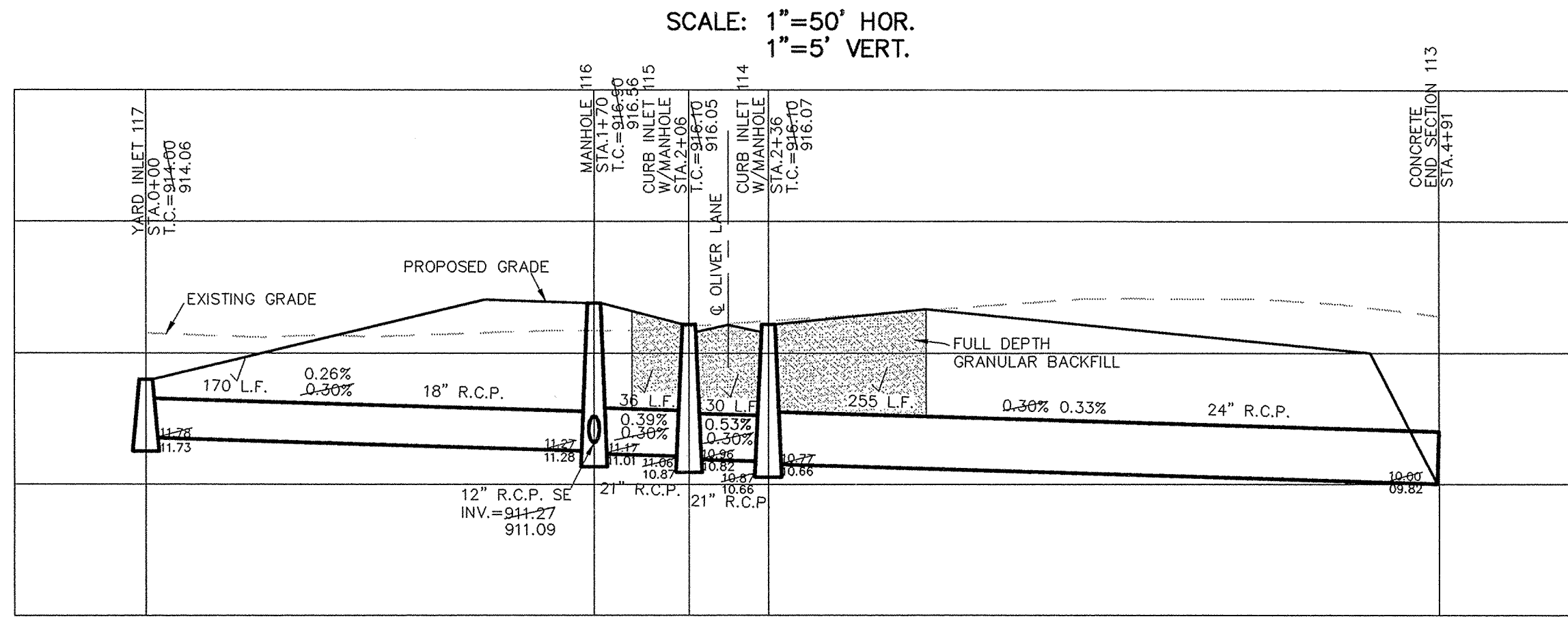
David J. Stoppelworth

CONSULTING ENGINEERS - LAND SURVEYORS  
(317) 849-5935 1-800-728-6917 FAX: (317) 849-5942  
INDIANAPOLIS INDIANA



STORM SEWER PLAN & PROFILE  
THE RIDGE AT HAYDEN RUN  
SECTION 1  
CARMEL INDIANA

FILED  
JUL 06 2004  
SHEET NO. 15  
23 SHEETS  
OFFICE OF HAMILTON COUNTY SURVEYOR  
JOB NO. 42480



This information was prepared for input into the Hamilton County Geographic Information System. This information is considered an official record of the County.

Entry Date: 7/2/04  
Entered by: rae

PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-3501 N	CASTING *3501 TL & TR
12" to 18"	24"x24"		DESIGN APPROVAL	No	Yes	Yes
12" to 21"	30"x30"		DESIGN APPROVAL	No	Yes	Yes
18" to 21"		MH/BOX	DESIGN APPROVAL	Yes	Yes	Yes
21" to 27"	24"x36"		DESIGN APPROVAL	No	No	Yes
12" to 24"	36"x36"		DESIGN APPROVAL	No	Yes	Yes
24" OR LARGER	DESIGN APPROVAL		DESIGN APPROVAL	No	No	Yes
24" OR LARGER		MH/BOX	DESIGN APPROVAL	Yes**	Yes	Yes

\* PIPES NO LARGER THAN 18" CAN BE USED IN THE 2' SIDE OF THIS BOX  
\*\* INCOMING AND OUT GOING PIPES EFFECT STEPS IN THIS STRUCTURE

SPECIAL NOTE:  
STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A MAN OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED.

SPECIAL NOTE:  
STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES

SPECIAL NOTE:  
COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET, TO IMPROVE ACCESS.

# RECORD DRAWING

*Jeffery W. Darling*  
JEFFERY W. DARLING  
Registered Land Surveyor  
No. 900017

3/12/04  
DATE



DATE	BY	REVISIONS
2/04/03	DMK	AS BUILTS
3/12/04	DMK	REV. INVERTS STR. 140 TO STR. 192
7/12/03	DMK	REVISED PER TRAILS SUPERVISION
5/12/03	DMK	ADD STREET NAMES
3/12/03	DMK	REV. PER TAC COMMENTS
2/04/03	DMK	

CERTIFIED: 2/04/03  
CONSULTING ENGINEERS - LAND SURVEYORS  
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INDIANAPOLIS INDIANA



STORM SEWER PLAN & PROFILE  
THE RIDGE AT HAYDEN RUN  
SECTION 1  
INDIANA  
CARMEL

FILED  
JUL 06 2004

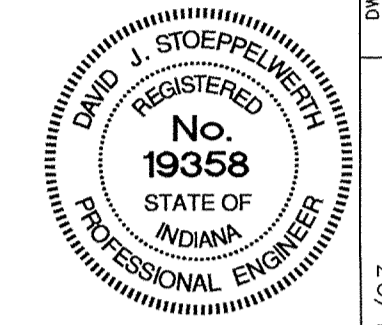
SHEET NO.  
**16**  
of 23 SHEETS  
JOB NO. 42480





**LAKE 2**  
 N.P.=908.22  
 2 YEAR ELEV.=909.57  
 10 YEAR ELEV.=910.40  
 100 YEAR ELEV.=912.24  
 BOTTOM ELEV.=900.22

**EX. LAKE**  
 N.P.=908.5  
 2 YEAR ELEV.=908.06  
 10 YEAR ELEV.=909.37  
 100 YEAR ELEV.=911.13  
 BOTTOM ELEV.=898.5



SCALE: 1"= 50'

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: 5/20/05

Entered by: RME

*Jeffery W. Darling*  
 JEFFERY W. DARLING  
 Registered Land Surveyor  
 No. 900017

3/15/04  
 DATE



**CURB INLET TABLE**

PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING #R-3501 N	CASTING #3501 TL & TR
12" to 18"	24"x24"			No	Yes	Yes
12" to 21"	30"x30"			No	Yes	Yes
18" to 21"		MH/BOX		Yes	Yes	Yes
21" to 27"	24"x36"			No	No	Yes
12" to 24"	36"x36"			No	Yes	Yes
24" OR LARGER	DESIGN APPROVAL			No	No	Yes
24" or LARGER		MH/BOX		Yes**	Yes	Yes

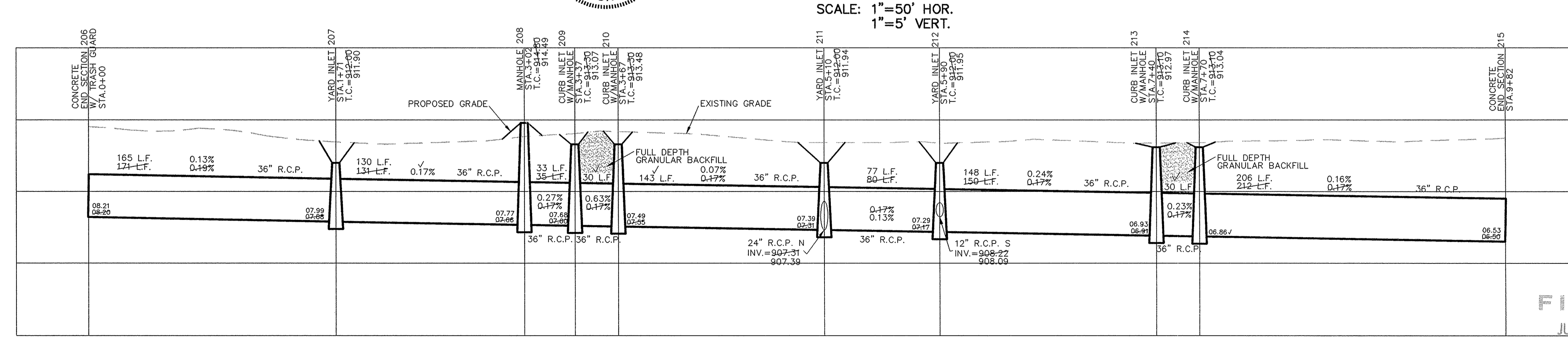
\* PIPES NO LARGER THAN 18" CAN BE USED IN THE 2' SIDE OF THIS BOX

\*\* INCOMING AND OUT GOING PIPES EFFECT STEPS IN THIS STRUCTURE

**SPECIAL NOTE:** STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A 34" OR A 30" WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED.

**SPECIAL NOTE:** STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES

**SPECIAL NOTE:** COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET, TO IMPROVE ACCESS.



FILED  
 JUL 06 2004  
 OFFICE OF HAMILTON COUNTY SURVEYOR

OFFSITE DRAINAGE PLAN  
 THE RIDGE AT HAYDEN RUN  
 SECTION 1

CONSULTING ENGINEERS - LAND SURVEYORS  
 (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942  
 INDIANAPOLIS INDIANA

CERTIFIED: 2/04/03  
 David J. Stoepelwirth  
 PROFESSIONAL ENGINEER

NO.	DATE	MARK	REVISIONS