

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 2 Arm

Attached is a petition filed by Centex Homes along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for The Ridge at Hayden Run, Section 2 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	4,066 ft.	18" RCP	151 ft
12" RCP	507 ft.	24" RCP	432 ft.
15" RCP	573 ft.	27" RCP	140 ft.

The total length of the drain will be 5,869 feet.

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 \$ 2,023.80.


The petitioner has not submitted surety for the proposed drain at this time. Surety shall 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/Letter of Credit are as follows:

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. The 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 2 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/pll

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

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

In the matter of Hayden Run Subdivision, Section Two 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

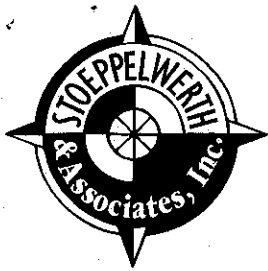
Centex Homes a Nevada General Partnership

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

December 2, 2003

Hamilton County Surveyor's Office
One Hamilton County Square
Suite 188
Noblesville, Indiana 46060

Attention: Jerry Liston

Re: The Ridge at Hayden Run, Section 2

Dear Mr. Liston:

Please accept the following Engineer's Estimate for The Ridge at Hayden Run, Section 2. The amounts are as follows:

Ridge at Hayden Run Section 2 Engineer's Estimate

Description	Quantity	Unit	Unit Price	Total
Storm Sewer				
Curb Inlets	6	EA	\$1,669.69	\$10,018.14
Double Curb Inlets	1	EA	\$2,304.75	\$2,304.75
Storm Manholes	2	EA	\$1,659.00	\$3,318.00
Yard Inlet	5	EA	\$1,165.00	\$5,825.00
12" RCP	519	LF	\$16.78	\$8,708.82
15" RCP	573	LF	\$20.17	\$11,557.41
18" RCP	151	LF	\$20.46	\$3,089.46
21" RCP	171	LF	\$25.50	\$4,360.50
24" RCP	261	LF	\$30.54	\$7,970.94
27" RCP	140	LF	\$35.99	\$5,038.60
15" CES	1	EA	\$510.00	\$510.00
27" CES	1	EA	\$2,131.00	\$2,131.00
6" SSD w/ Backfill	4,000	LF	\$5.10	\$20,400.00
Total				\$85,232.62
Erosion Control				
Common Area Seeding	89,544	SF	\$0.07	\$6,268.08
Swale Seeding		SF	\$0.05	\$1,818.00

Hamilton County Surveyor
 Jerry Liston
 December 2, 2003
 Page 2

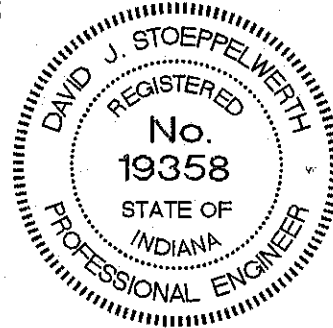
	36,360			
Swale Matting	1,818	LF	\$0.56	\$1,018.08
R/W Seeding	60,000	SF	\$0.04	\$2,400.00
Silt Fence	2,035	LF	\$1.25	\$2,543.75
Inlet Protection	14	EA	\$70.00	\$980.00
Rip Rap	10	TON	\$23.85	\$238.50
Stone Entrance	1	EA	\$1,600.00	\$1,600.00
Total				\$16,866.41
Monuments & Markers	12	EA	\$130.00	\$1,560.00
Total				\$1,560.00

Witness my signature this 2nd day of December, 2003.

David J. Stoepfelwerth

David J. Stoepfelwerth
 Professional Engineer
 No. 19358

S/42480S2/Agency/EngEst



CENTEX HOMES

Corporate Office

8440 Allison Pointe
Suite 200
Indianapolis, IN 46250

Phone: 317-915-2200

February 5, 2004

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

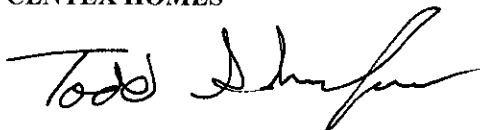
RE: Ridge @ Hayden Run Section 2 Performance bond

Dear Jerry,

Enclosed is performance bond # SU 5005254 in the amount of \$103,659.03 for Storm Sewer, Erosion Control, and Monumentation. Which matches the amount shown on the engineer's estimate.

Please call me if you have any questions.

Sincerely,
CENTEX HOMES



Todd Schaefer
Land Development Project Manager

Mobile phone # 714-4120

FILED

FEB 05 2004

OFFICE OF HAMILTON COUNTY SURVEYOR

SUBDIVISION BOND

Bond No. SU 5005254

He DB2004-00006

KNOW ALL MEN BY THESE PRESENTS, that we CENTEX HOMES, a Nevada General Partnership



as Principal, and ARCH INSURANCE COMPANY

authorized to do business in the State of INDIANA, as Surety, are held and firmly bound unto

HAMILTON COUNTY BOARD OF COMMISSIONERS

as Obligee, in the penal sum of One Hundred Three Thousand Six Hundred Fifty Nine and 03/100 -----
----- (\$ 103,659.03) DOLLARS, lawful money of

the United States of America, for the payment of which well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, CENTEX HOMES, a Nevada General Partnership

has agreed to construct in The Ridge at Hayden Run Section 2

the following improvements: Storm Sewer, Erosion Control, Monumentation and Markers

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall construct, or have constructed, the improvements herein described and shall save the Obligee harmless from any loss, cost or damage by reason of its failure to complete said work, then this obligation shall be null and void; otherwise to remain in full force and effect.

Signed, sealed and dated this 4th day of February, 2004.

CENTEX HOMES, a Nevada General Partnership
Principal

By:

ARCH INSURANCE COMPANY

By:
Allyson Dean Attorney-in-Fact

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

J. W. Brendle Drain, The Ridge at Hayden Run Section 2 Arm

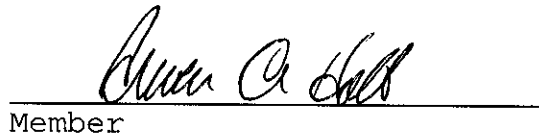
On this *24th day of November 2003*, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *J. W. Brendle Drain, The Ridge at Hayden Run Section 2 Arm*.

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 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: Jeffery W Darling Date: August 6, 2004

Type or Print Name: Jeffery W. Darling

Business Address: Stoepelwerth & Associates, Inc.

9940 Allisonville Road, Fishers, Indiana 46038

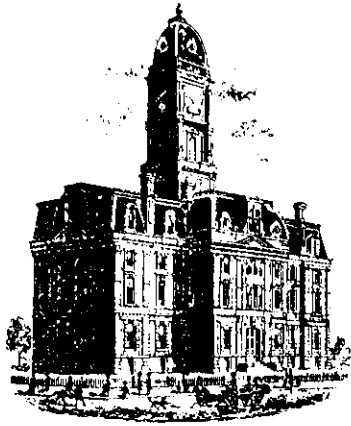
Telephone Number: (317) 849-5935

SEAL

INDIANA REGISTRATION NUMBER

900017





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 8, 2005

Re: JW Brendle: Ridge at Hayden Run Sec. 2

Attached are as-builts, certificate of completion & compliance, and other information for Ridge at Hayden Run Sec. 2. 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 262-263) The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:	Length Changes:
128-127	142	12	RCP	914.71	913.68	0.73	-1
127-126	30	12	RCP	913.58	913.29	0.97	
126-125	125	15	RCP	913.19	912.29	0.72	
125-124	281	15	RCP	912.19	909.97	0.79	18
136-135	121	12	RCP	914	913.13	0.72	-1
135-134	43	12	RCP	913.03	912.9	0.3	1
134-133	30	15	RCP	912.8	912.6	0.67	
133-132	151	18	RCP	912.5	911.91	0.39	
132-131	170	21	RCP	911.81	911.32	0.29	-1
131-130	253	24	RCP	911.22	910.53	0.27	-8
130-129	138	27	RCP	910.43	910.08	0.25	-2
139-130	154	12	RCP	913.88	910.73	2.05	2
138-137	30	12	RCP	912.46	912.33	1	
137-131	161	15	RCP	912.23	911.32	0.56	6

6" SSD Streets:

Cherub Ct	276
Primo Way	1474
Oliver Ln	313.5
TotalX2:	4127

RCP Pipe Totals:

12	520
15	597
18	151
21	170
24	253
27	138
Total:	1829

The length of the drain due to the changes described above is now **5,956 feet**.

The non-enforcement was approved by the Board at its meeting on November 24, 2003 and recorded under instrument #200400048562.

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

Bond-LC No: SU5005254

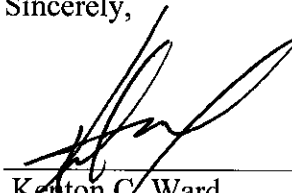
Insured For: Storm Sewers, Erosion Control

Amount: \$103,659.03

Issue Date: February 4, 2004

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

Sincerely,



Kenton C. Ward,
Hamilton County Surveyor

KCW/slm



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.

NOTE: STREETS THAT CONNECT TO EXISTING
 CURB AND PAVEMENT ARE TO BE SAWCUT.

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: rae

AS BULTS

STR. #	TYPE	RIM	INV.	DIR.	INV.	DIR.
124	END SECTION		909.97	W		
125	MANHOLE	918.08	912.29	W	912.19	E
126	CURB INLET	919.14	913.29	W	913.19	E
127	CURB INLET	919.23	913.68	W	913.58	E
128	YARD INLET	918.31	914.71	E		
129	END SECTION		910.08	SW		
130	YARD INLET	915.13	910.53	S	910.43	NE
131	YARD INLET	916.07	911.32	NW,S	911.22	NE
132	YARD INLET	916.11	911.91	W	911.81	SE
133	CURB INLET	918.35	912.60	W	912.50	E
134	CURB INLET	918.53	912.90	SW	912.80	E
135	MANHOLE	919.78	913.13	W	913.03	NE
136	YARD INLET	917.40	914.00	E		
137	CURB INLET	916.28	912.33	S	912.23	N
138	CURB INLET	916.21	912.46	N		
139	DOUBLE CURB INLET	917.63	913.88	SE		

SCALE: 1" = 50'

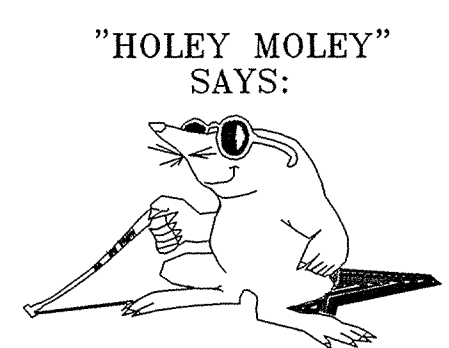
LEGEND

- 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)
- 11 LOT NUMBER
- 905.7 PAD ELEVATION
- PAD SIZE 50'x70'

--- DENOTES 4" SUBSURFACE DRAIN TO LOT
 --- DENOTES 6" SUBSURFACE DRAIN
 --- ROLL CURB

RECORD DRAWING

Jeffery W. Darling
 JEFFORY W. DARLING
 Registered Land Surveyor
 No. 900017
 DATE: 7/27/04



"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 (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.

OWN BY: []
 BAK BY: []
 EE: []
 SCALE: 1" = 50'
 DATE: 2/04/03

CERTIFIED: 2/04/03

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

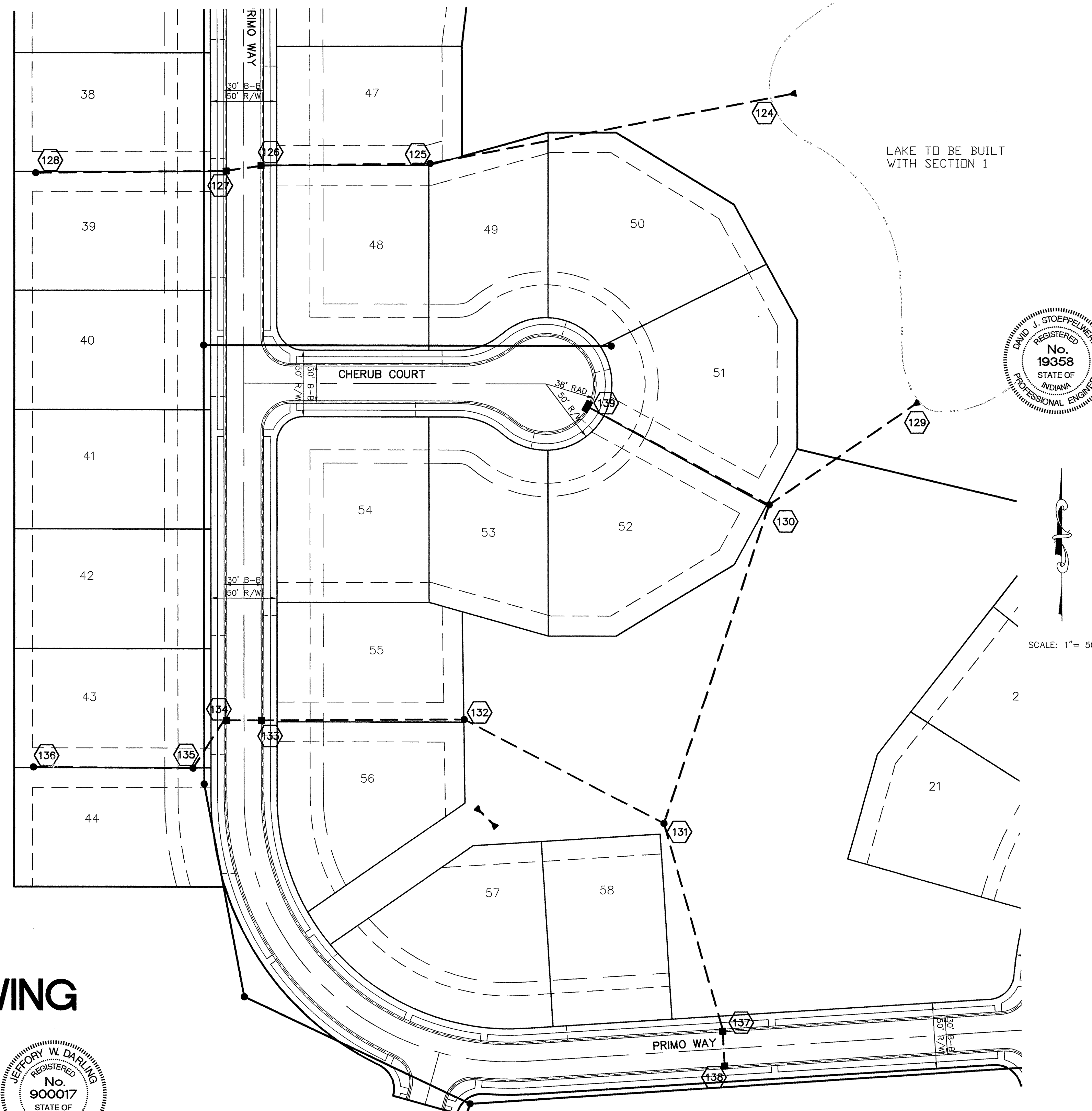
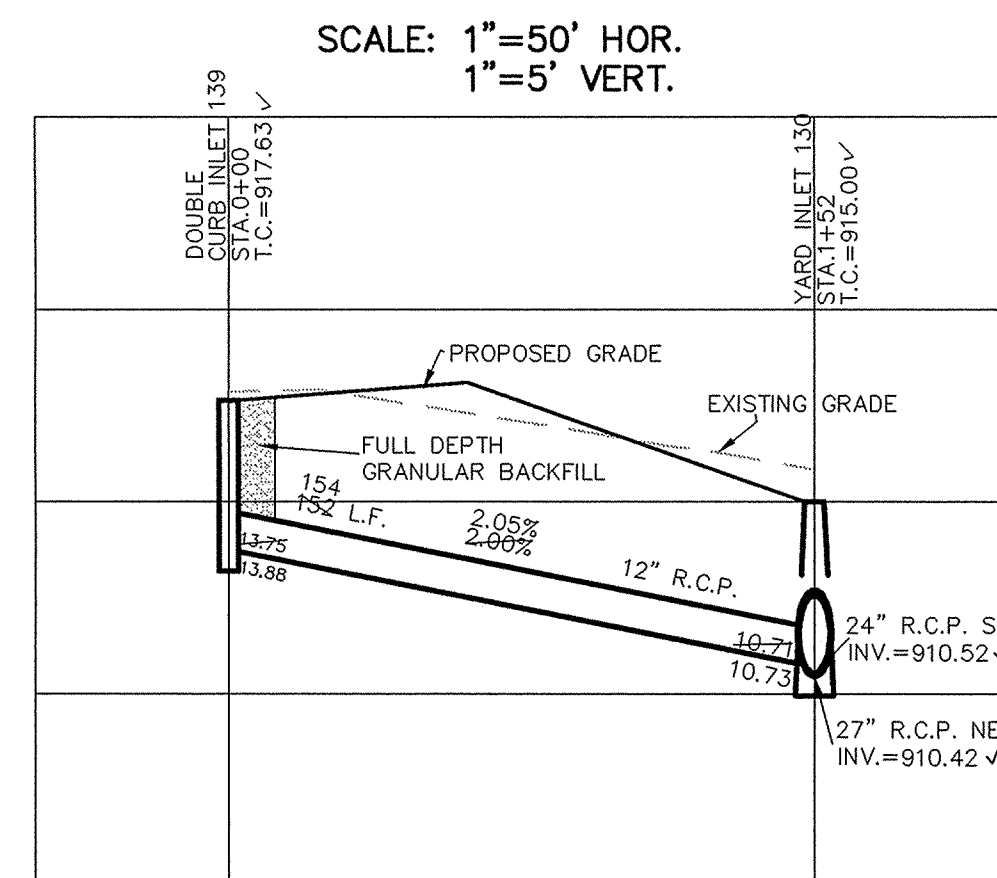
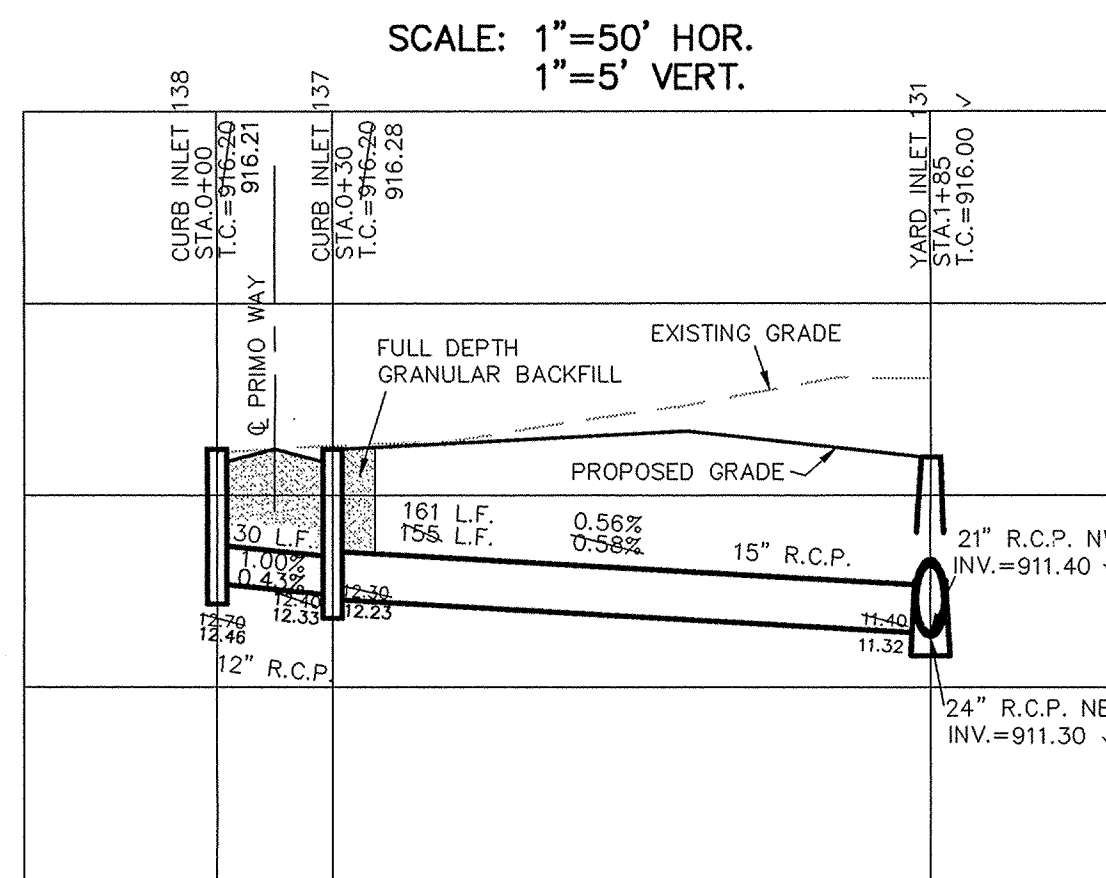
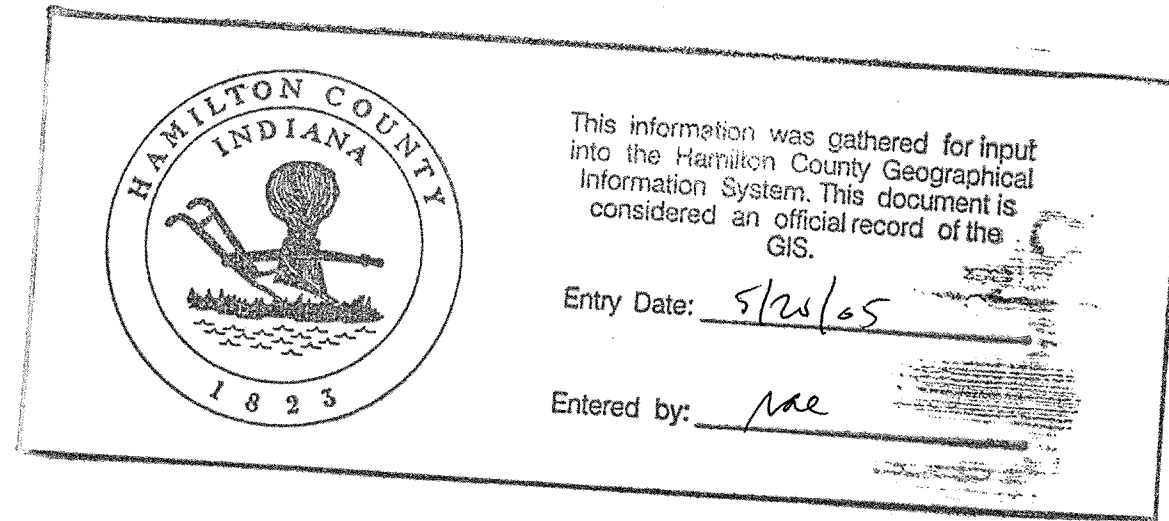
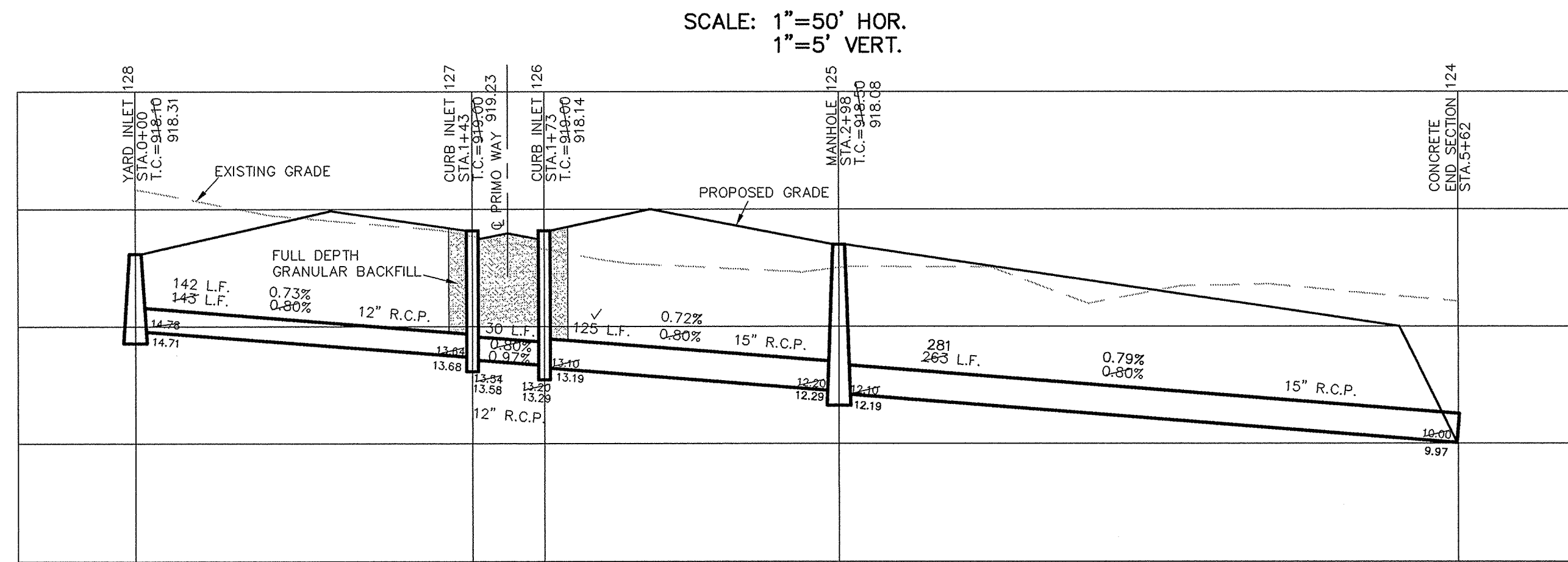
David J. Stapp

REVISIONS

NO.	DATE	MARK	BY
1	2/04/03		

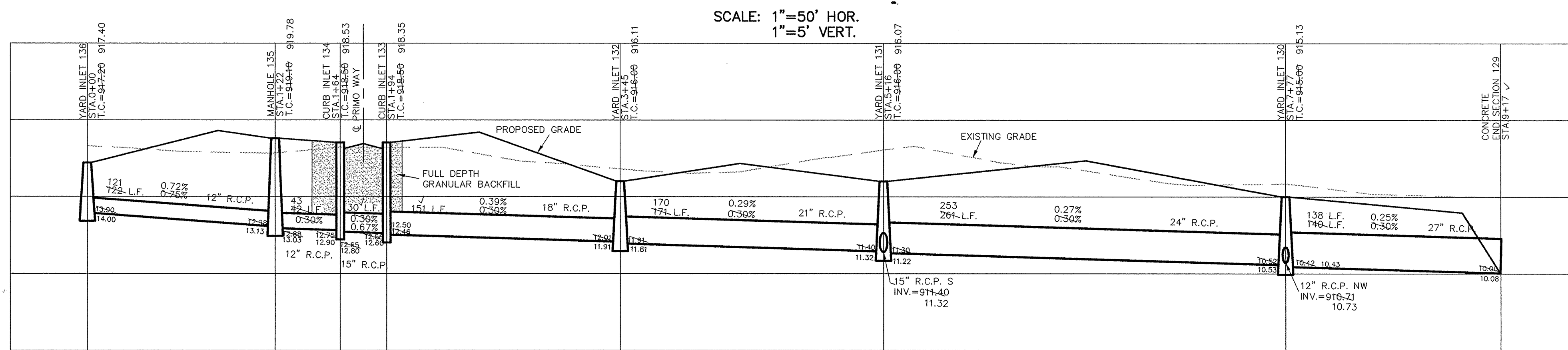
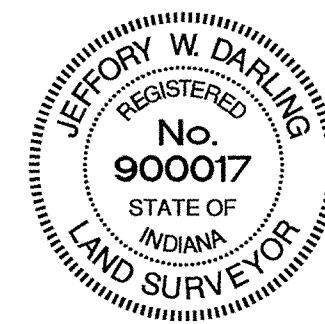
SITE DEVELOPMENT PLAN
THE RIDGE AT HAYDEN RUN
SECTION 2

SHEET NO. **3**
 OF 17 SHEETS
 JOB NO. 42480



RECORD DRAWING

Jeffery W. Darling
JEFFERY W. DARLING
Registered Land Surveyor
No. 900017
DATE 7/11/04



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"		DESIGN APPROVAL	No	Yes	Yes
18" 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 MH, 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.

OWN BY: [blank]
BAIK: [blank]
OK BY: [blank]
EFF: 7/22/04
SCALE: 1"=50'
DATE: 2/04/03

CERTIFIED: 2/04/03

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

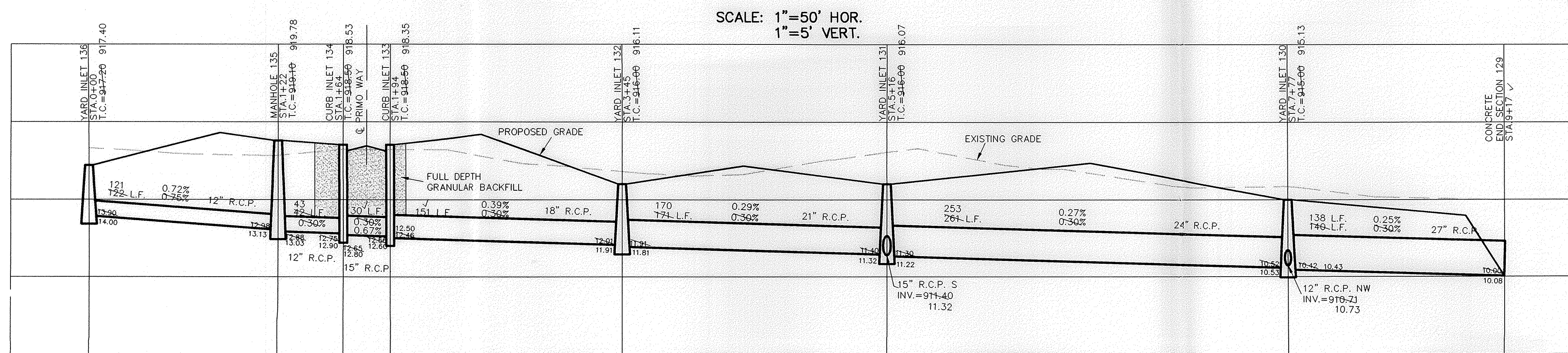
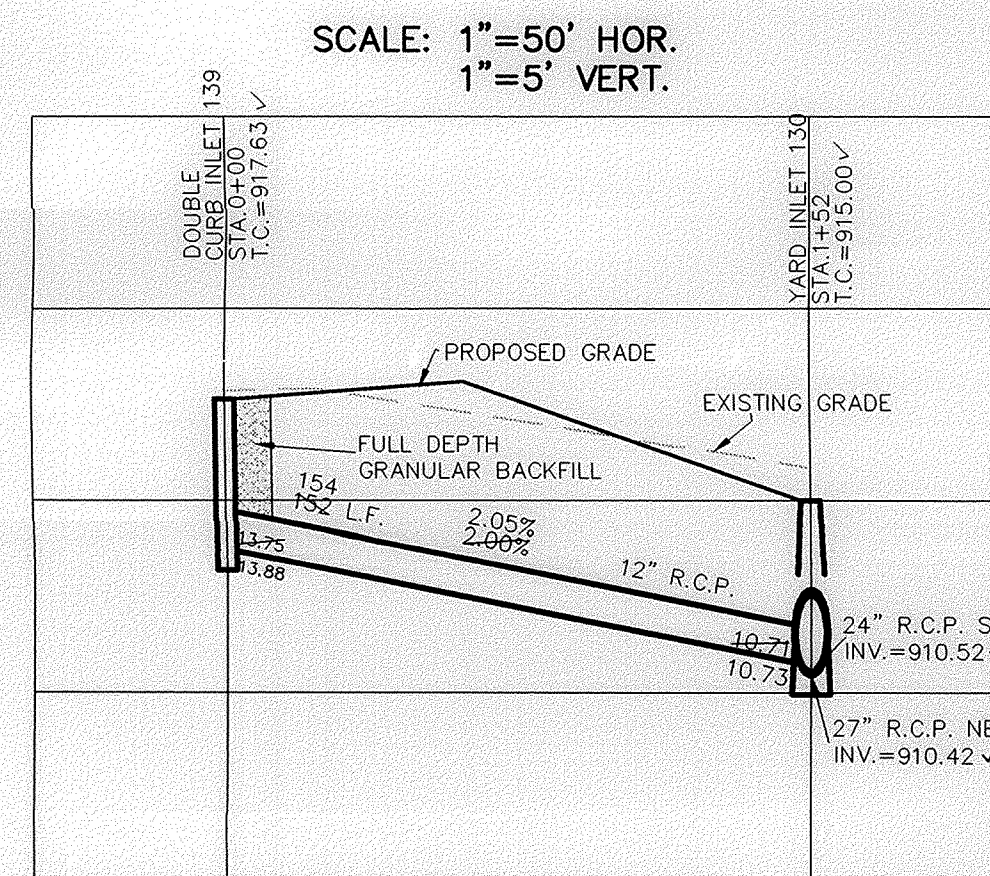
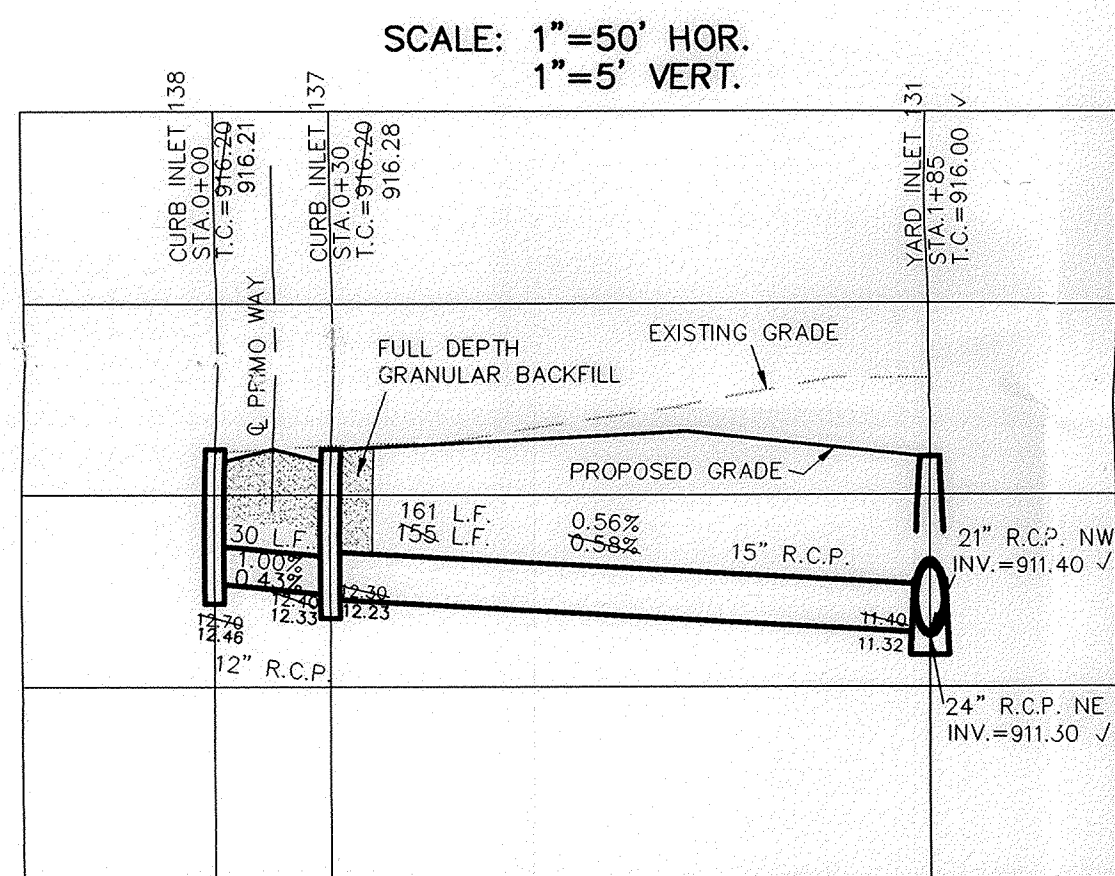
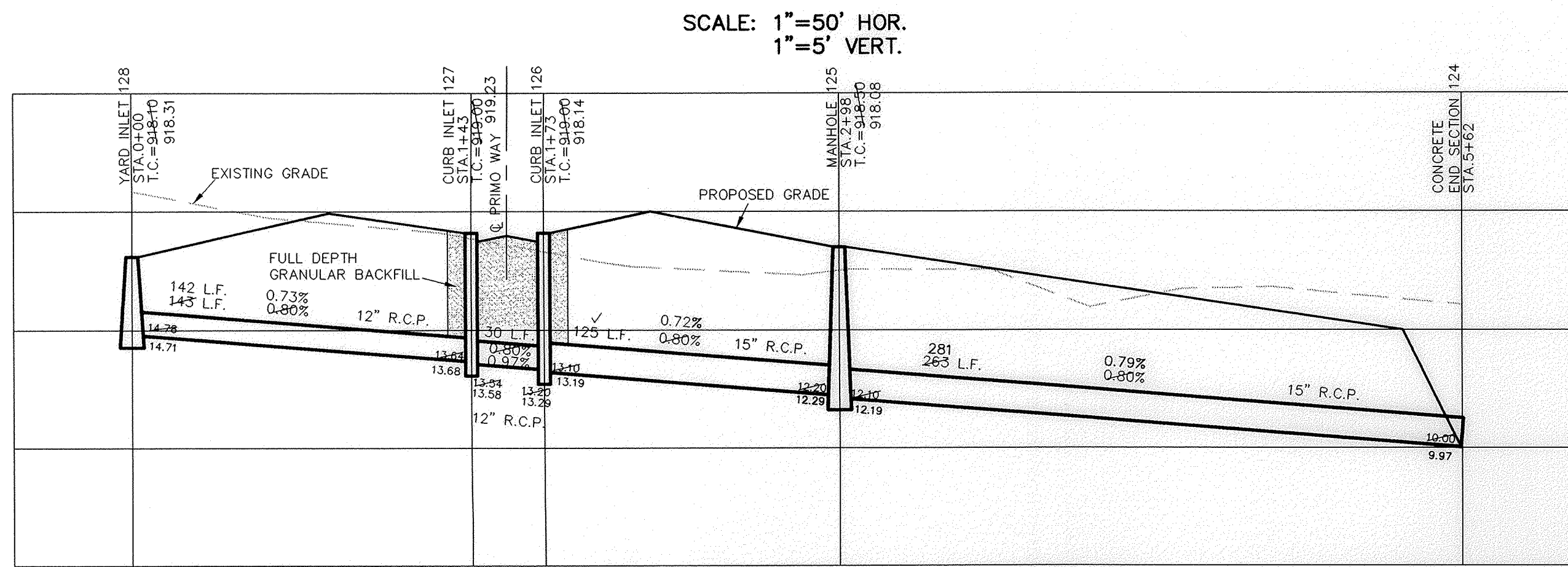
DAVID J. STOEPELBERG
REGISTERED
No. 19358
STATE OF INDIANA
PROFESSIONAL ENGINEER

DAVID J. STOEPELBERG

STORM SEWER PLAN & PROFILE
THE RIDGE AT HAYDEN RUN
SECTION 2

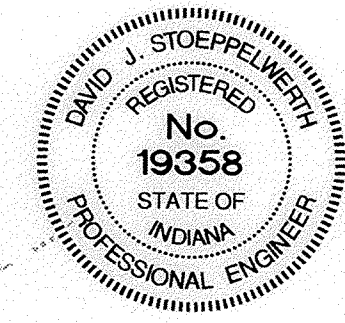
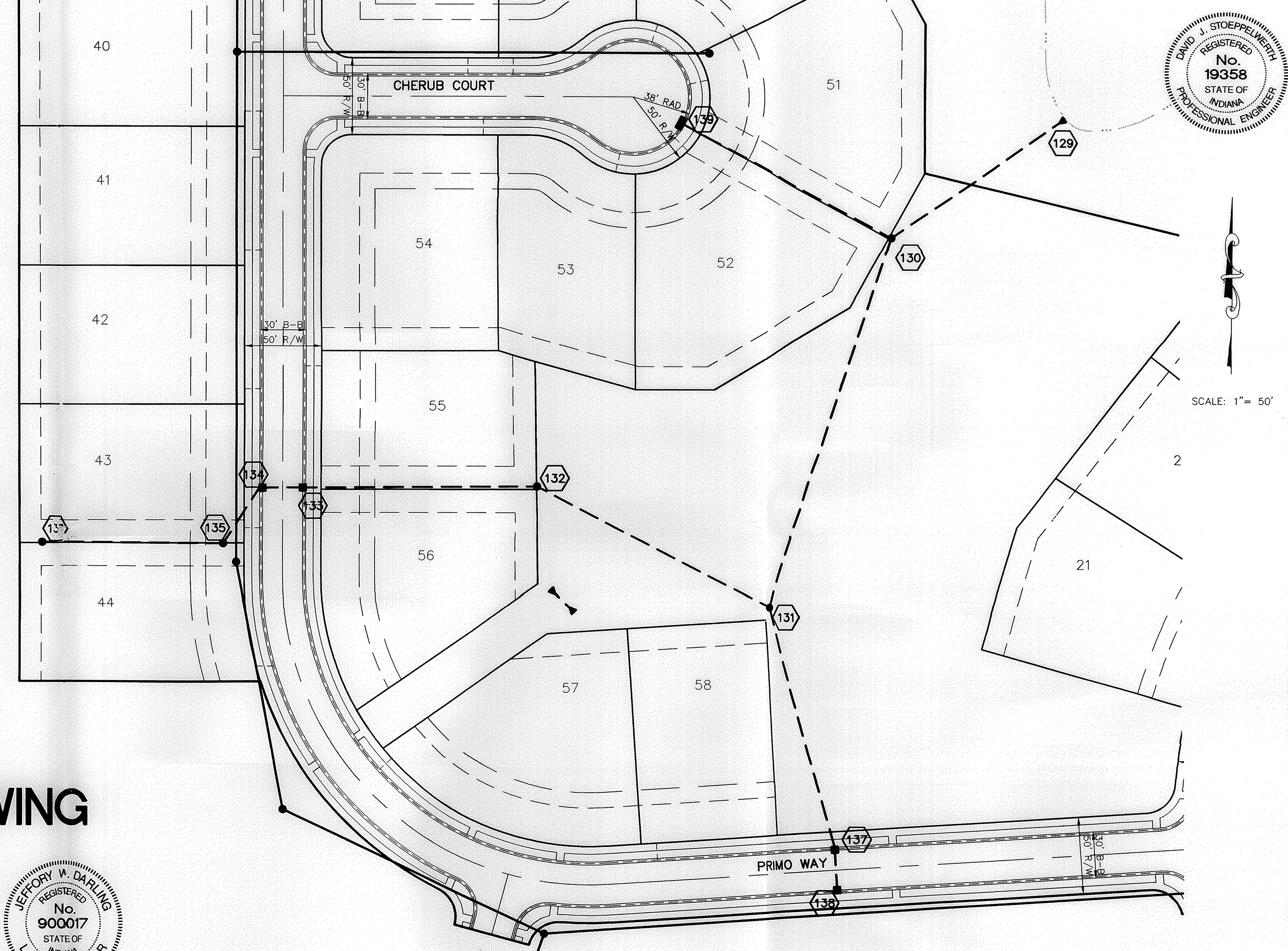
INDIANAPOLIS INDIANA

SHEET NO. 12
OF 17 SHEETS
JOB NO. 42480



RECORD DRAWING

Jeffrey W. Darling
JEFFREY W. DARLING
Registered Land Surveyor
No. 900017
DATE: 7/11/04



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 2

SHEET NO.
12
OF 17 SHEETS
JOB NO. 42480

CARMEL INDIANA

DWN BY: BJK
CHK BY: EEF
SCALE: 1"=50'
DATE: 2/04/03

CERTIFIED: 2/04/03
David J. Stappewest
REGISTERED PROFESSIONAL ENGINEER
No. 19358
STATE OF INDIANA

NO.	DATE	REVISIONS	BY

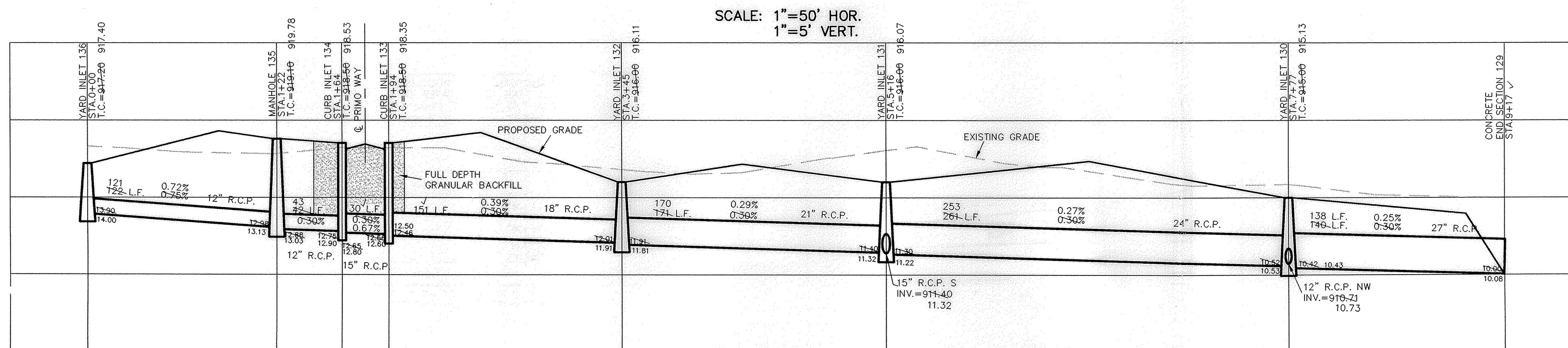
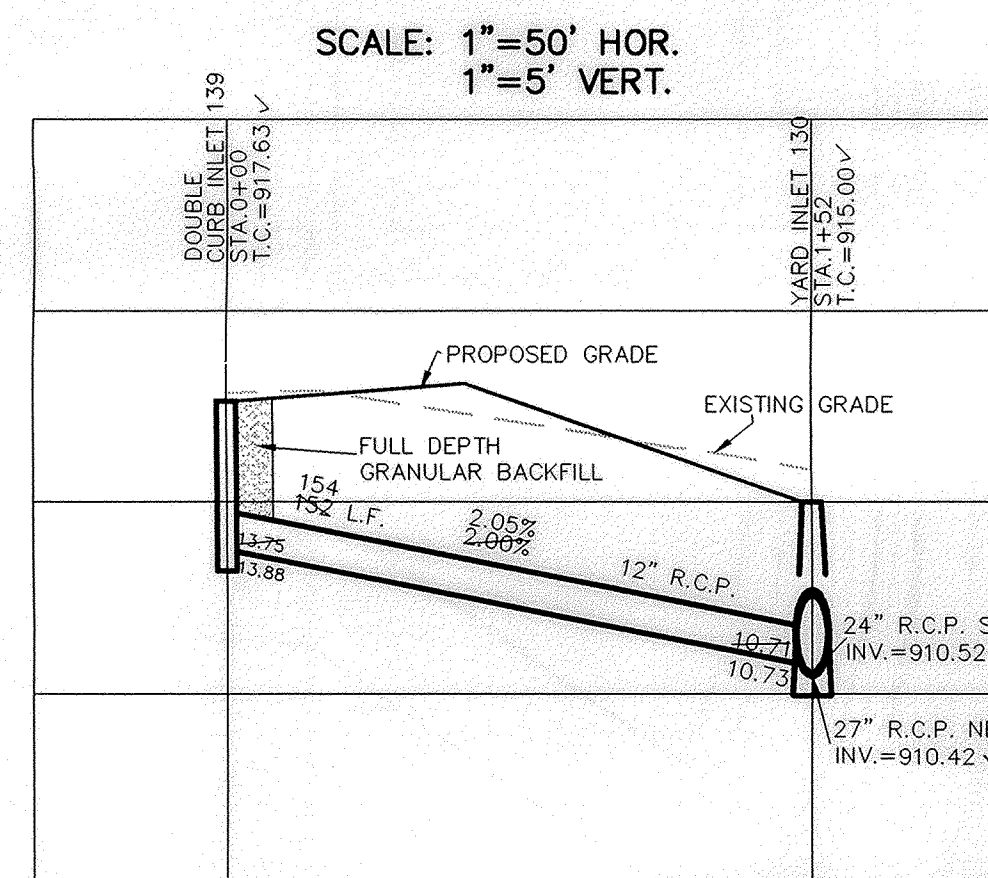
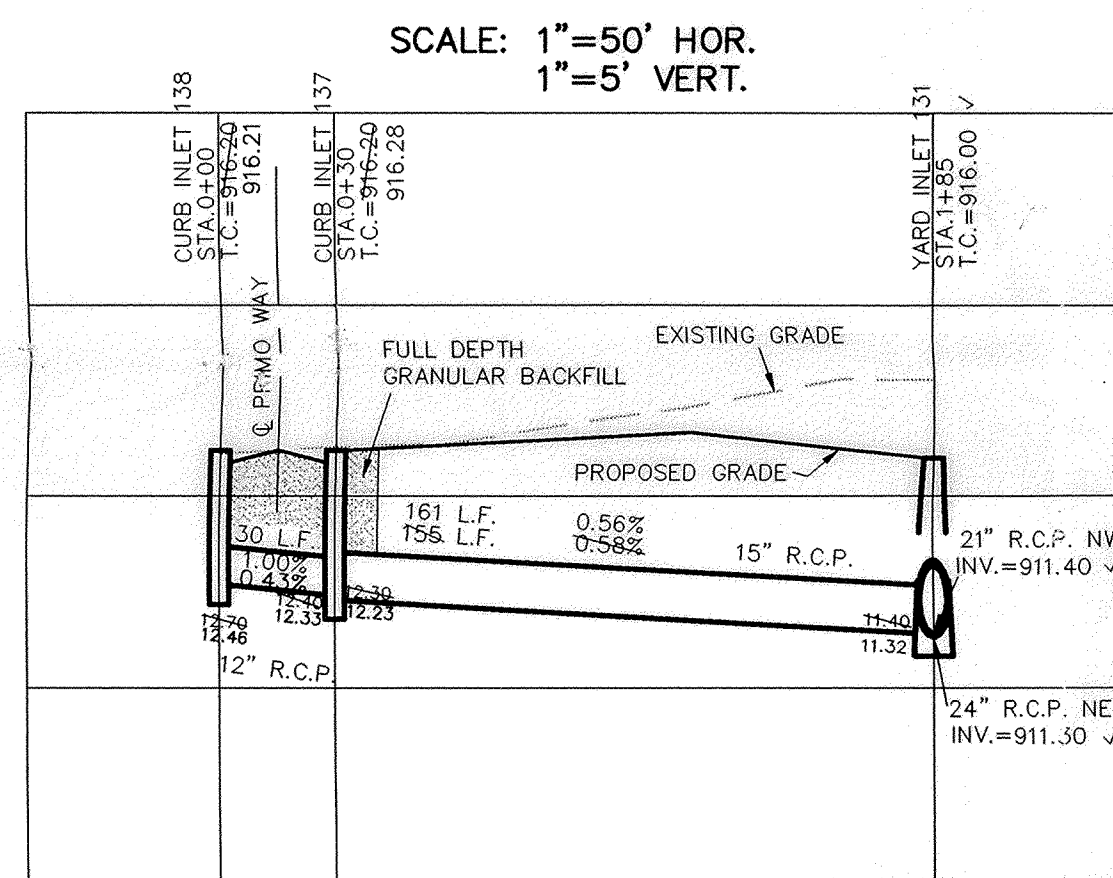
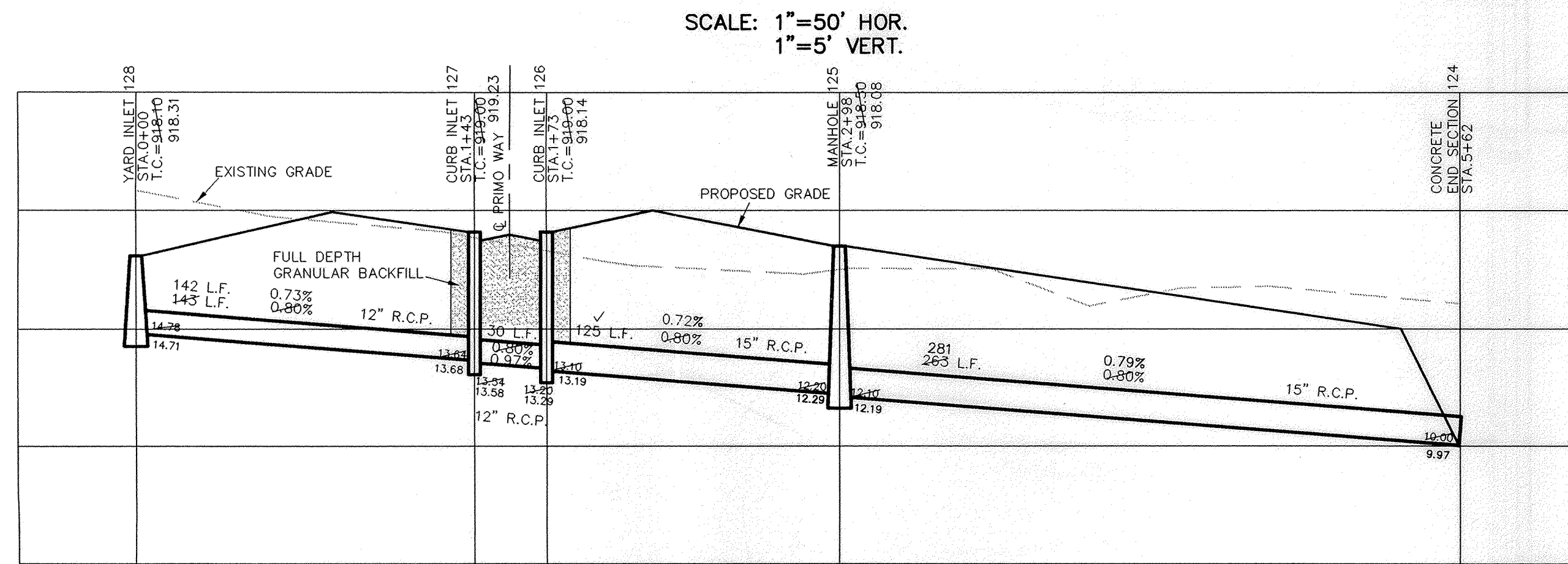
PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-3501 N	CASTING *3501 TL & TR
12" to 18"	24"x24"		DESIGN APPROVAL	No	Yes	Yes
12" to 21"	30"x30"		DESIGN APPROVAL	No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

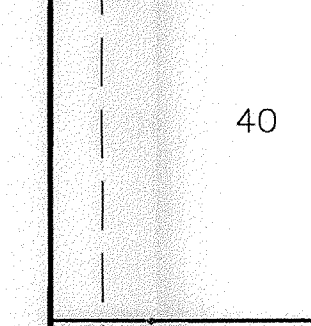
SPECIAL NOTE:
STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A MH OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED.

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

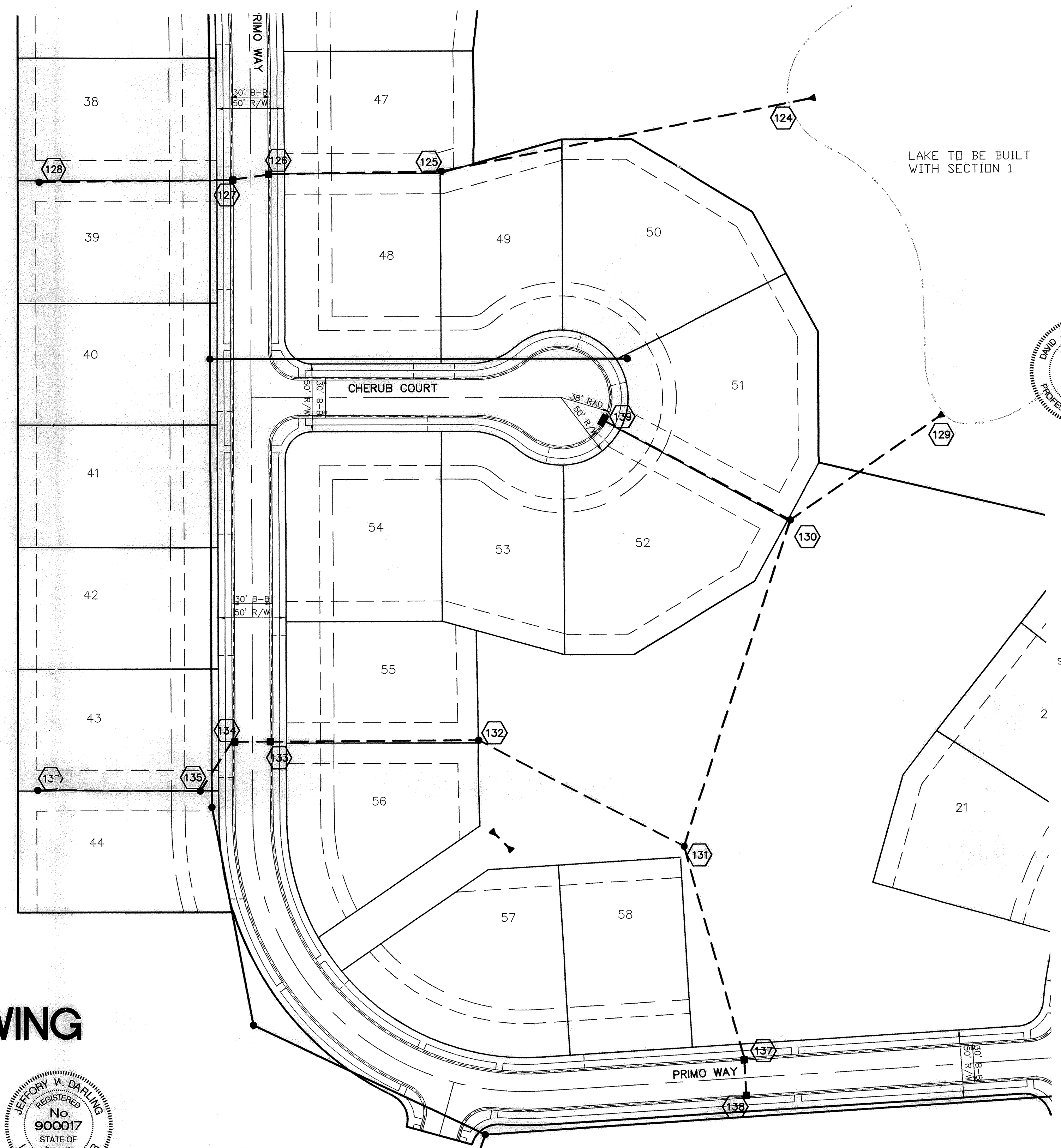
SPECIAL NOTE:
COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET TO IMPROVE ACCESS.



Jeffrey W. Darling
Registered Land Surveyor
No. 900017
DATE 7/11/04



CERTIFIED: 2/04/03
David J. Stoppelweh
REGISTERED PROFESSIONAL ENGINEER
No. 19358
STATE OF INDIANA



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"		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 GREATER 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.

STORM SEWER PLAN & PROFILE
THE RIDGE AT HAYDEN RUN
SECTION 2

CONSULTING ENGINEERS - LAND SURVEYORS
(317) 849-5935 1-800-728-8917 FAX: (317) 849-5942
INDIANAPOLIS INDIANA

SHEET NO. 12
OF 17 SHEETS
JOB NO. 42480

DATE 2/04/03
SCALE 1"=50'
REV. PER TAC COMMENTS