



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*

March 24, 2003

To: Hamilton County Drainage Board

Re: J. W. Brendel Drain, Lakeside Park Section 2 Arm

Attached is a petition filed by Roehling Enterprises, Inc., non-enforcement request, plans, calculations, quantity summary and assessment roll for the Lakeside Park Section 2 Arm, J. W. Brendel 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 – 1,724 ft

12" RCP – 192 ft

The total length of the drain will be 1,916 feet.

The retention pond (Lake 2) located in Common Area 8 is 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), such as mowing, will be the responsibility of the Homeowners Association. The Board will also, 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 \$65.00 per lot, \$10.00 per acre for roadways and common areas, with a \$65.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$301.70.

The developer has submitted surety for the construction of the proposed regulated drain. The surety has been submitted for the entire Section 2 of Lakeside Park although the facilities are within two drainage sheds, Elliott Creek and Brendle Drain. The sureties from Gulf Insurance Group dated March 3, 2003 are as follows:


Bond Number	B2-1873923	Erosion Control	\$20,673.00
Bond Number	B2-1873918	Sec. 2 Storm & Subsurface Drains	\$58,927.00

Parcels assessed for this drain may be assessed for the Long Branch Drain at sometime in the future.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. This request is for the reduction of the regulated drain easement to those widths as shown on the secondary plat for Lakeside Park Section 2 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for April 28, 2003.



---

Kenton C. Ward  
Hamilton County Surveyor

KCW/llm

**CERTIFICATE OF COMPLETION AND COMPLIANCE**

To: Hamilton County Surveyor

Re: **Lakeside Park Subdivision, Section 2**

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: February 20, 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





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# Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

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One Hamilton County Square

Noblesville, Indiana 46060-2230

To: **Hamilton County Drainage Board**

**February 11, 2005**

**Re: JW Brendle Drain: Lakeside Park Sec. 2 Arm**

Attached are as-builts, certificate of completion & compliance, and other information for Lakeside Park 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 March 24, 2003. The report was approved by the Board at the hearing held April 28, 2003. (See Drainage Board Minutes Book 7, Pages 52-53)

The changes are as follows:

Structure:	T.C.:	I.E.:	Pipe:	Length:	Grade:	Original:	Difference:
257	912.35	909.25					
256	912.3	908.54	12	36	1.97		
256	912.3	908.54					
255		904.95	12	63	5.7	58	5
107	911.88	908.68					
106	911.9	908.14	12	36	1.5		
106	911.9	908.14					
105		904.95	12	68	4.69	62	6

**6" SSD Streets:**

Windy Knoll	367.5
Four Seasons	493

**Totalx2:** 1721

**RCP Pipe Totals:**

12	203
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**Total:** 203

The length of the drain due to the changes described above is now **1,924 feet**.

The non-enforcement was approved by the Board at its meeting on April 28, 2003 and recorded under instrument #200300116834.

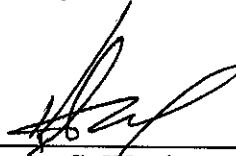
The following sureties were guaranteed by Gulf Insurance Group and released by the Board on its February 14, 2005 meeting.

**Insured For:** Erosion Control  
**Amount:** \$20,673.00  
**Issue Date:** March 3, 2003

**Insured For:** Storm Sewers, SSD  
**Amount:** \$58,297.00  
**Issue Date:** March 3, 2003

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

Sincerely,



---

Kenton C. Ward,  
Hamilton County Surveyor

KCW/slm

**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

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 AND/OR ASPHALT PATHS ADJACENT TO COMMON AREA TO BE INSTALLED BY CONTRACTOR.

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

NOTE: ALL CURB IN CENTER MEDIANS SHALL BE 2' CHAIRBACK CURB W/ REVERSE SLOPE.

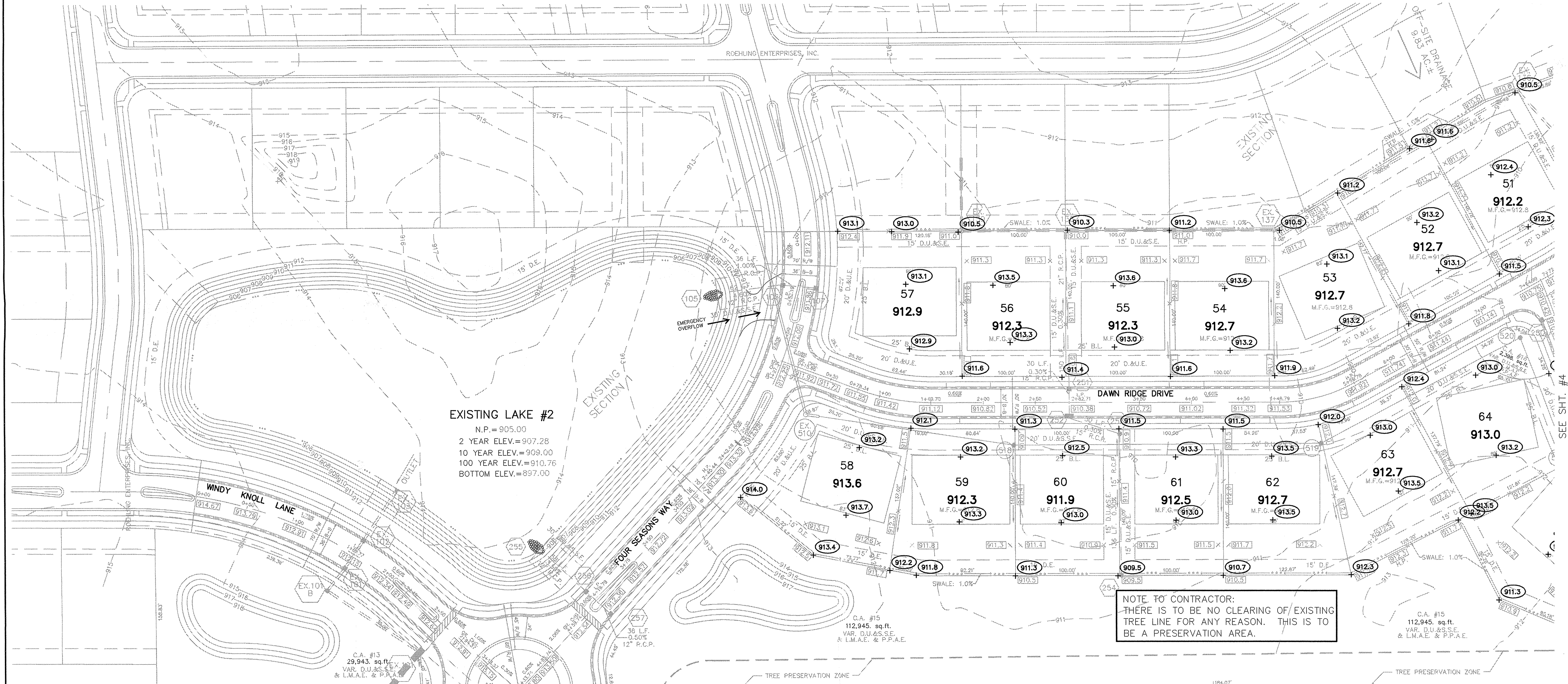
**LEGEND**

- 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)

**52** LOT NUMBER  
**911.7** PAD ELEVATION  
 ALL PADS 6" DEEP WITH WIDTHS AS LABELED

M.F.G. MINIMUM FINISH GRADE OR OPENING AROUND HOUSE (FLOOD PROTECTION GRADE)

SCALE: 1" = 50'



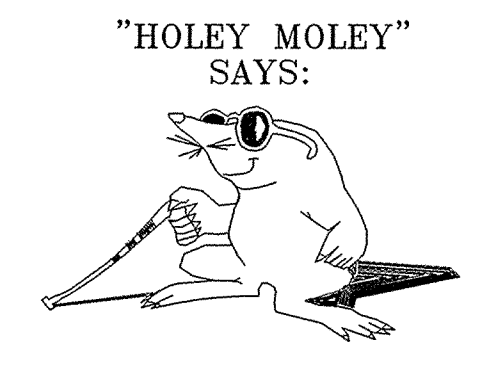
**EXISTING LAKE #2**  
 N.P. = 905.00  
 2 YEAR ELEV. = 907.28  
 10 YEAR ELEV. = 909.00  
 100 YEAR ELEV. = 910.76  
 BOTTOM ELEV. = 897.00

NOTE TO CONTRACTOR: THERE IS TO BE NO CLEARING OF EXISTING TREE LINE FOR ANY REASON. THIS IS TO BE A PRESERVATION AREA.

**RECORD DRAWING**

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

2/20/04  
 DATE



**"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.

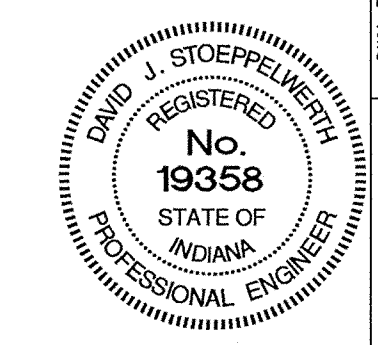
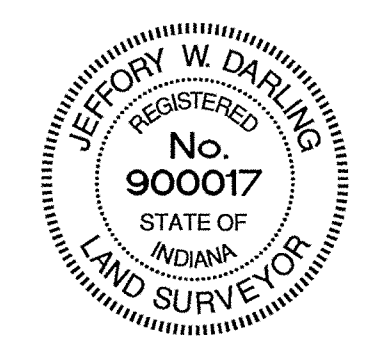
SITE DEVELOPMENT PLAN  
 LAKESIDE PARK SECTION 2  
 SHEET NO. 3  
 OF 21 SHEETS  
 JOB NO. 41760

CONSULTING ENGINEERS - LAND SURVEYORS  
 (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942  
 INDIANAPOLIS INDIANA  
 David J. Stoepelmeier  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 19358  
 STATE OF INDIANA  
 CERTIFIED: 11/4/02

# RECORD DRAWING

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

2/20/04  
 DATE



SCALE: 1" = 50'

- LEGEND**
- EXISTING CONTOUR
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  - EXISTING STORM SEWER
  - PROPOSED GRADE
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  - PROPOSED 5' SIDEWALK (BY HOME BUILDER)
- 52** LOT NUMBER  
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**"AS-BUILT" STORM TABLE**

Str. No.	Type	Tc/Rim	Inverts	Dir.
105	CONCRETE END SECTION		904.95	(NE)
106	CURB INLET	911.90	908.14	(SE)(NE)
107	CURB INLET	911.88	908.68	(NW)
168	CONCRETE END SECTION		902.97	(SW)
169	YARD INLET	907.02	904.69	(NE)
249	CURB INLET	910.53	906.20	(NE)
250	CURB INLET	910.34	906.51	(NE)
251	CURB INLET	910.42	906.45	(N)(S)
252	DOUBLE CURB INLET	910.38	906.77	(N)(SE)
253	MANHOLE	911.71	906.91	(NW)(S)
254	YARD INLET	909.46	907.29	(N)
255	CONCRETE END SECTION		904.95	(SE)
256	CURB INLET	912.30	908.54	(NW)(SE)
257	CURB INLET	912.35	909.25	(NW)(NE)



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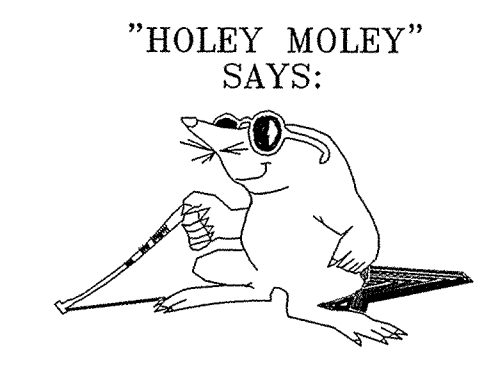
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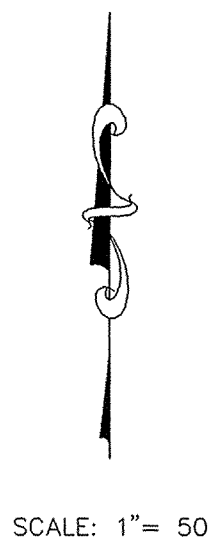
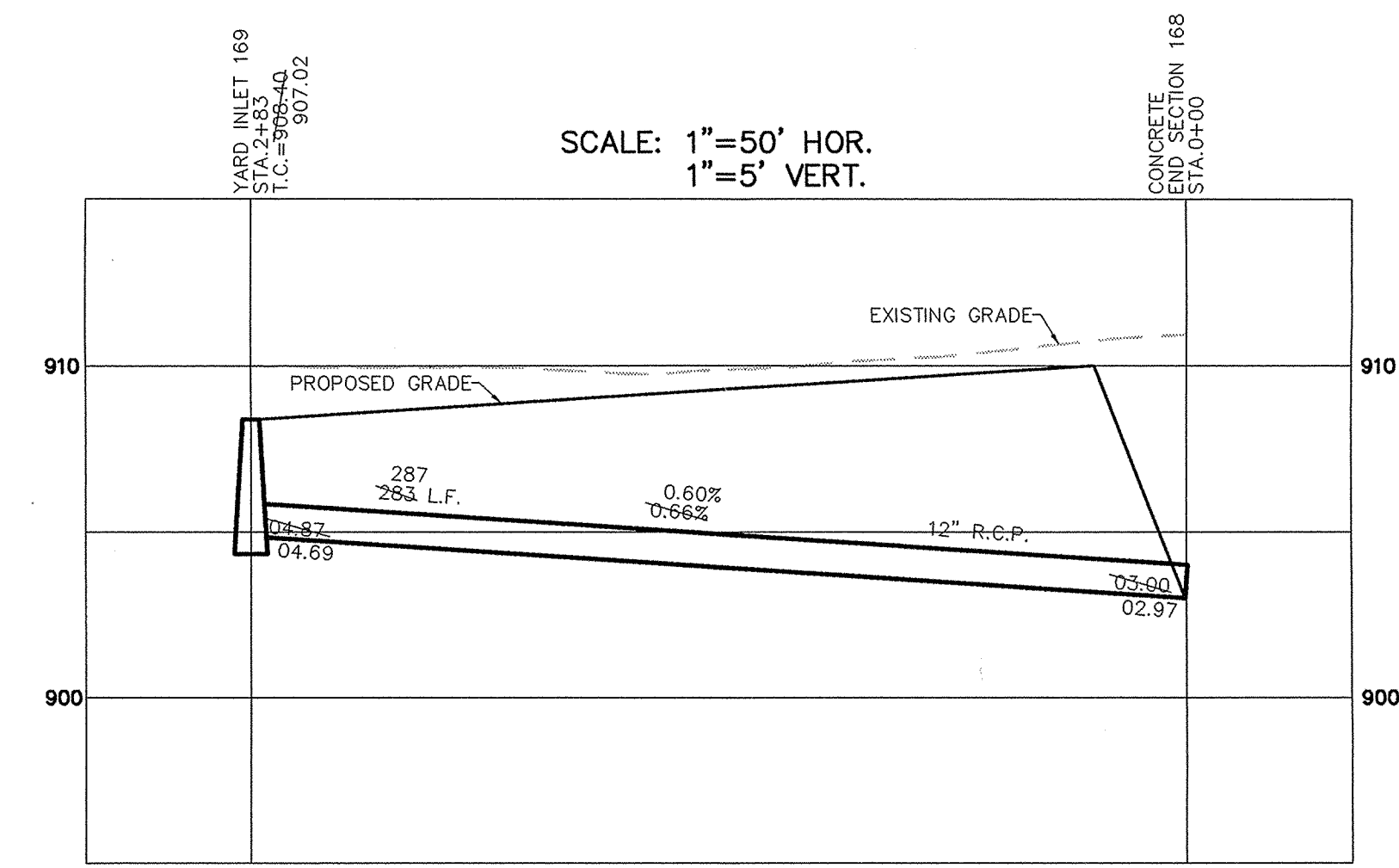
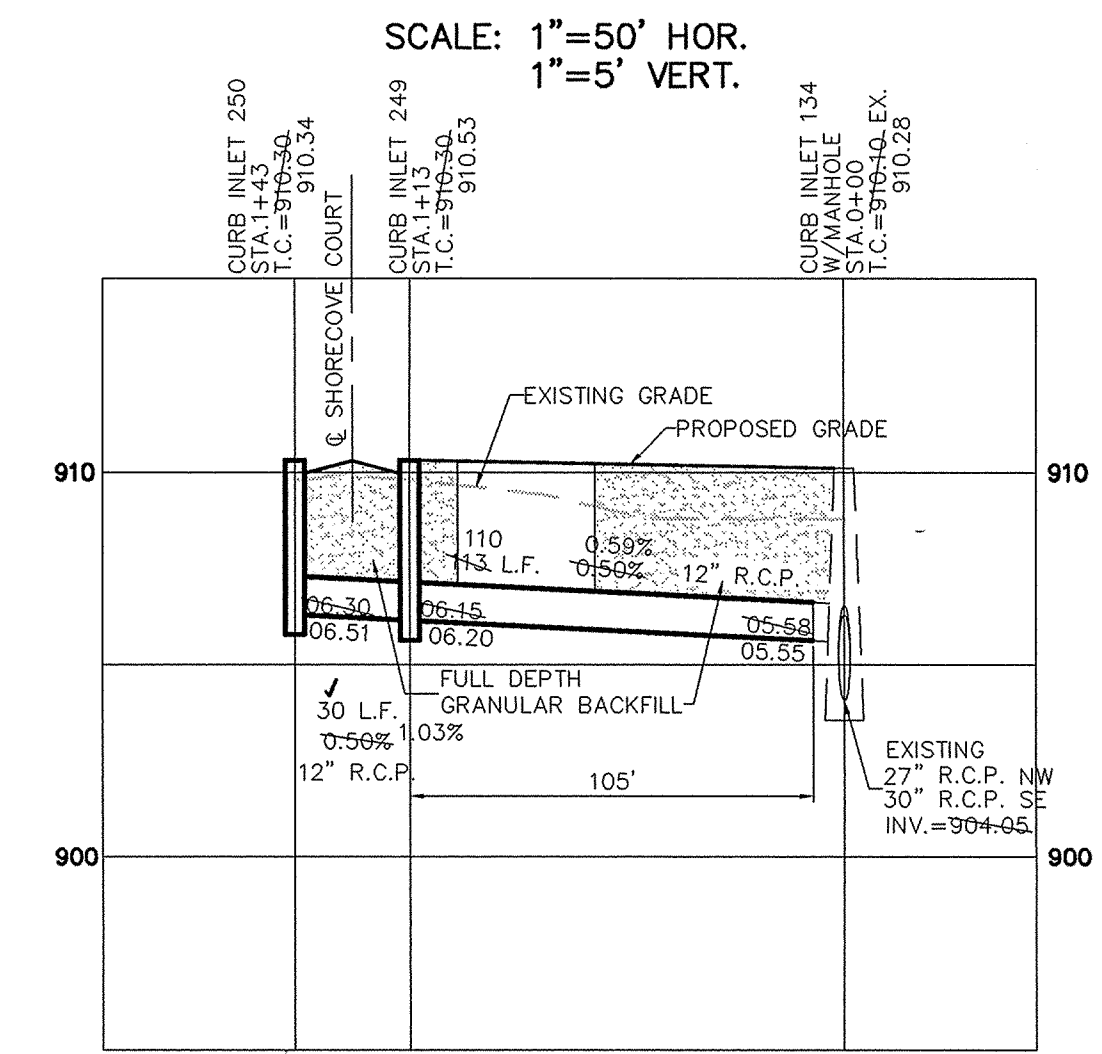
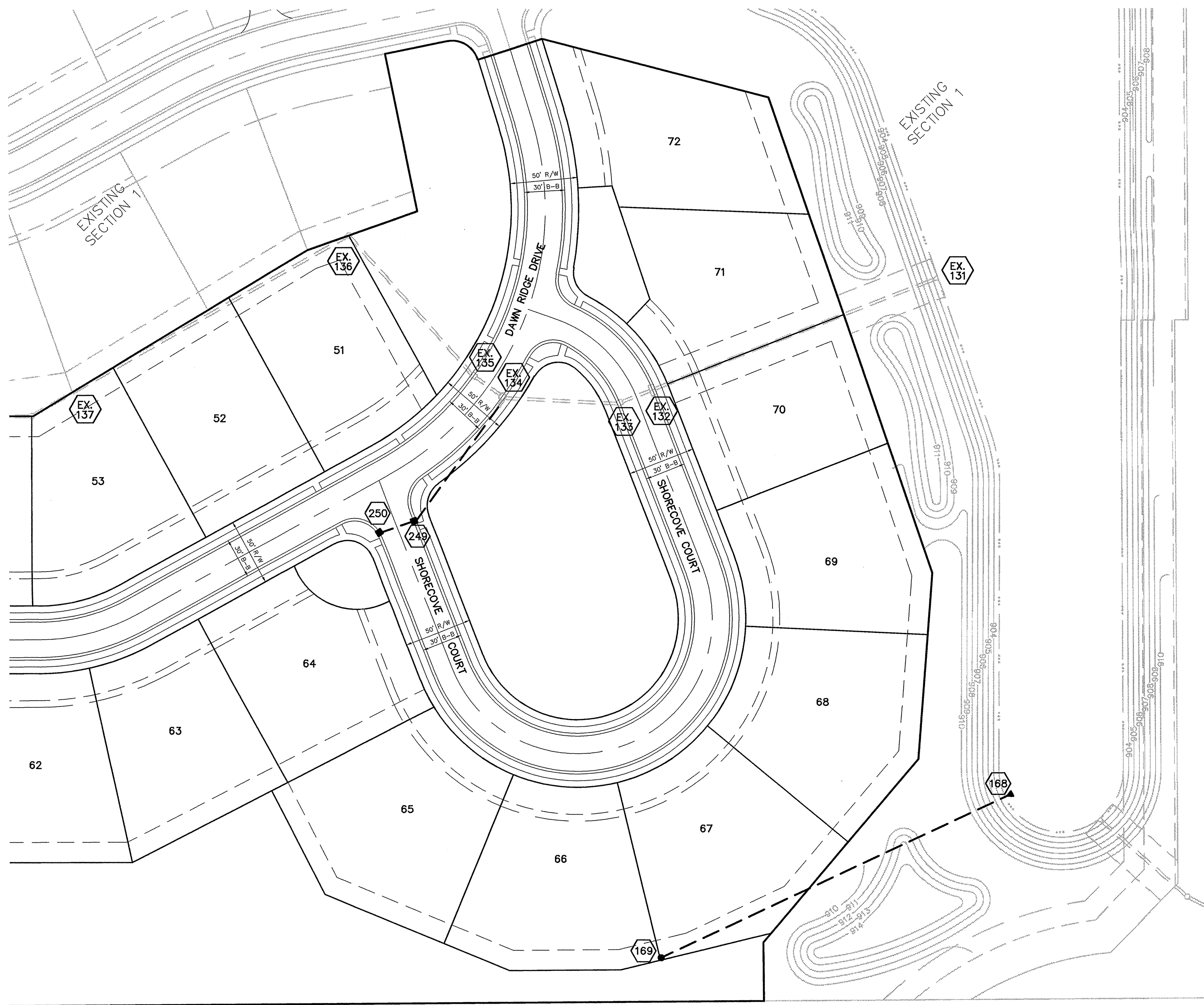
SITE DEVELOPMENT PLAN  
 LAKESIDE PARK SECTION 2  
 INDIANA  
 CARMEL

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 (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942  
 INDIANAPOLIS INDIANA

CERTIFIED: 11/4/02  
 David J. Stappert

NO.	DATE	BY	REVISIONS

SHEET NO. 4  
 OF 21 SHEETS  
 JOB NO. 41760



# RECORD DRAWING

*Jeffery W. Darling*  
 JEFFERY W. DARLING  
 Registered Land Surveyor  
 No. 900017  
 DATE 2/20/04



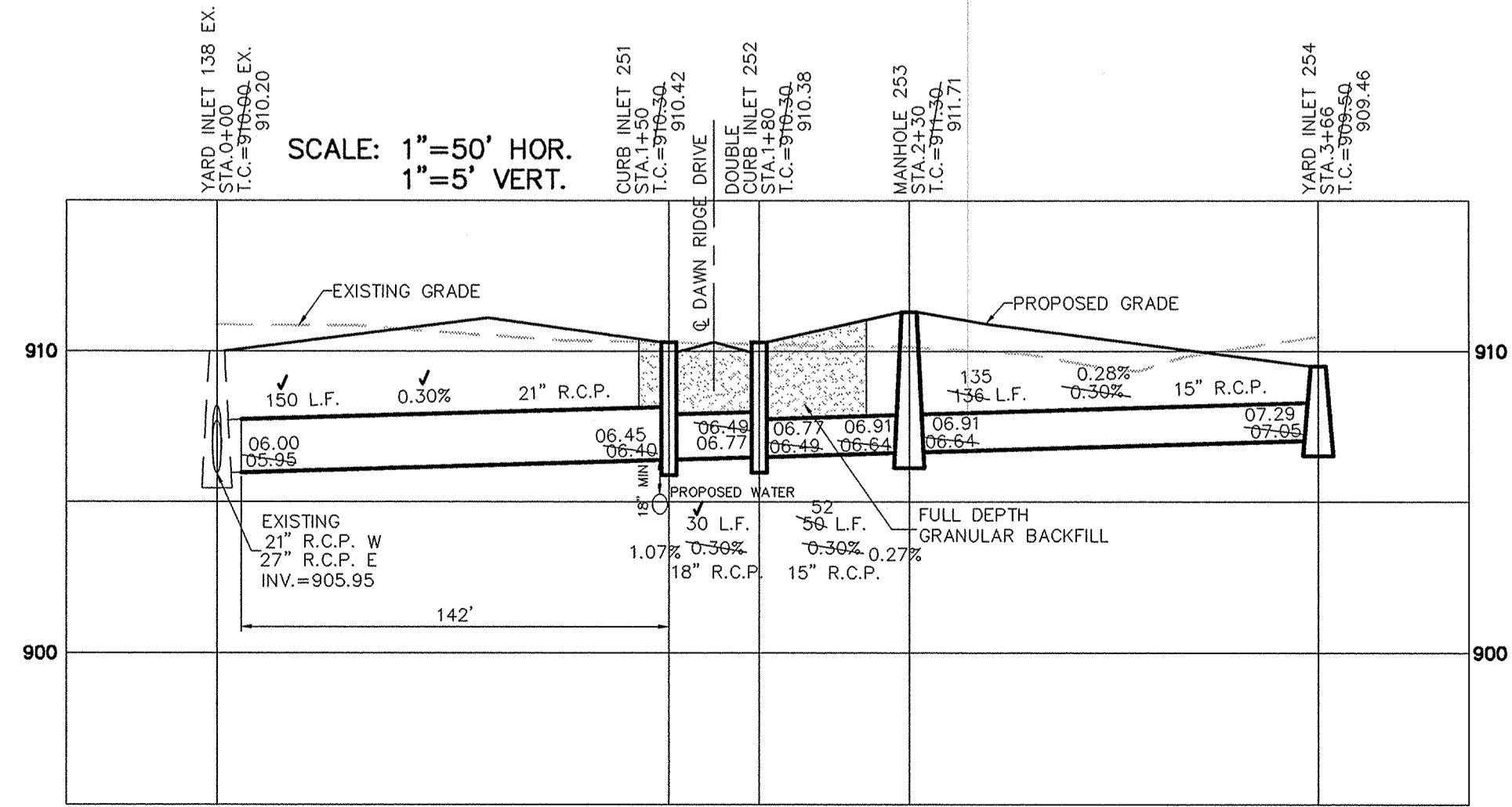
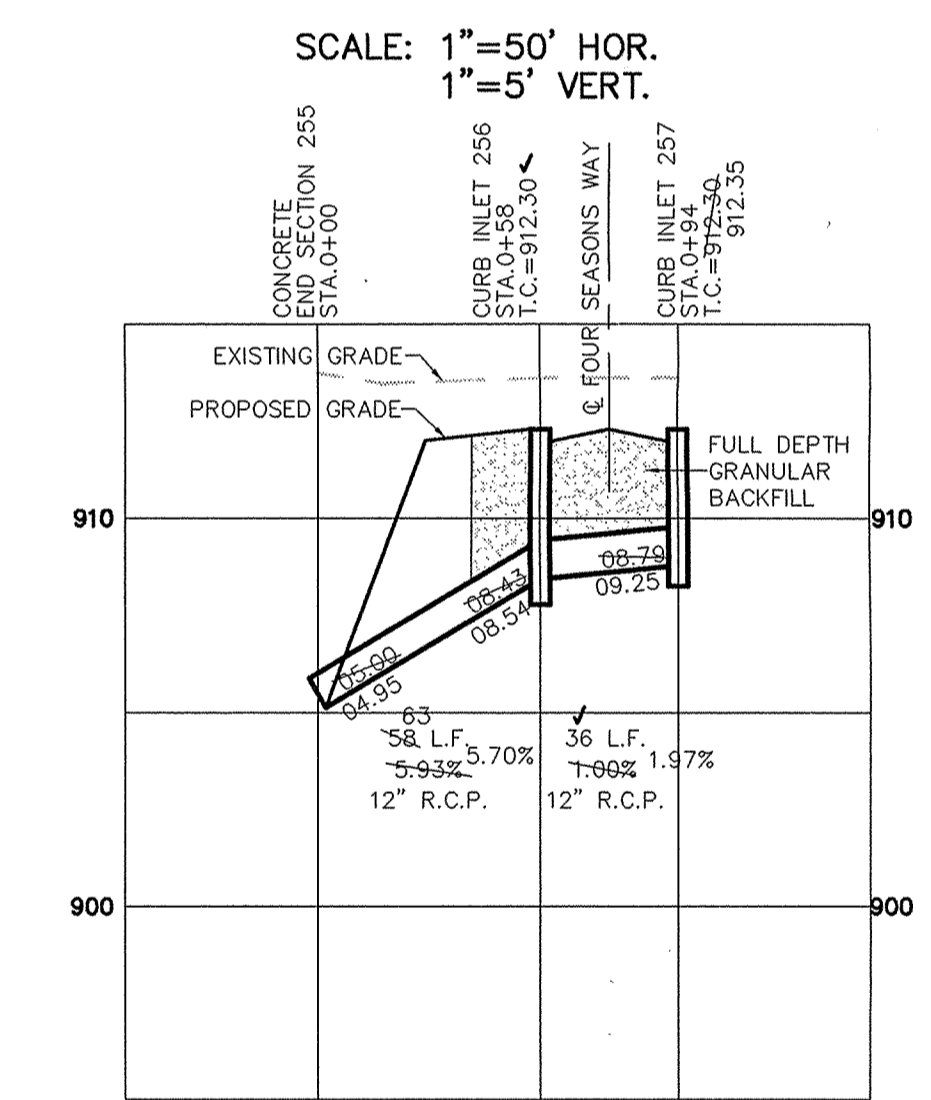
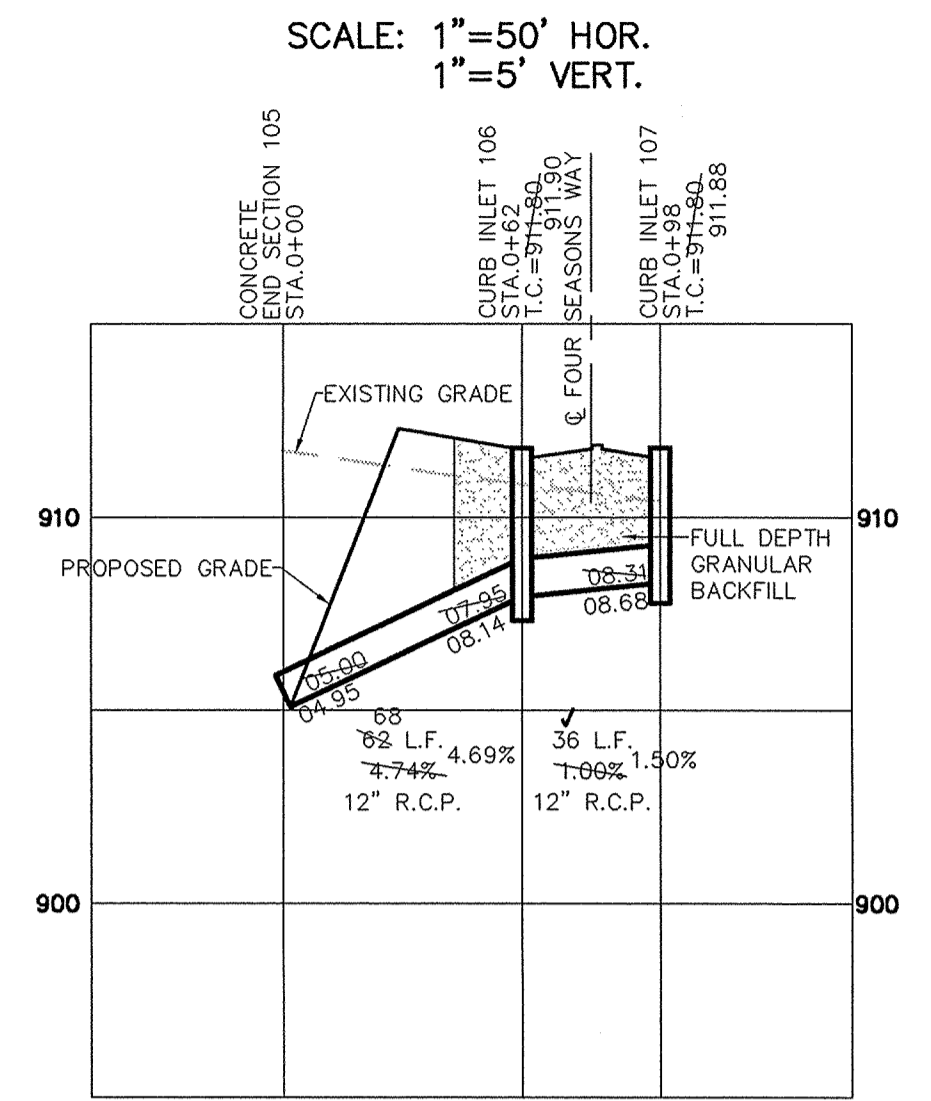
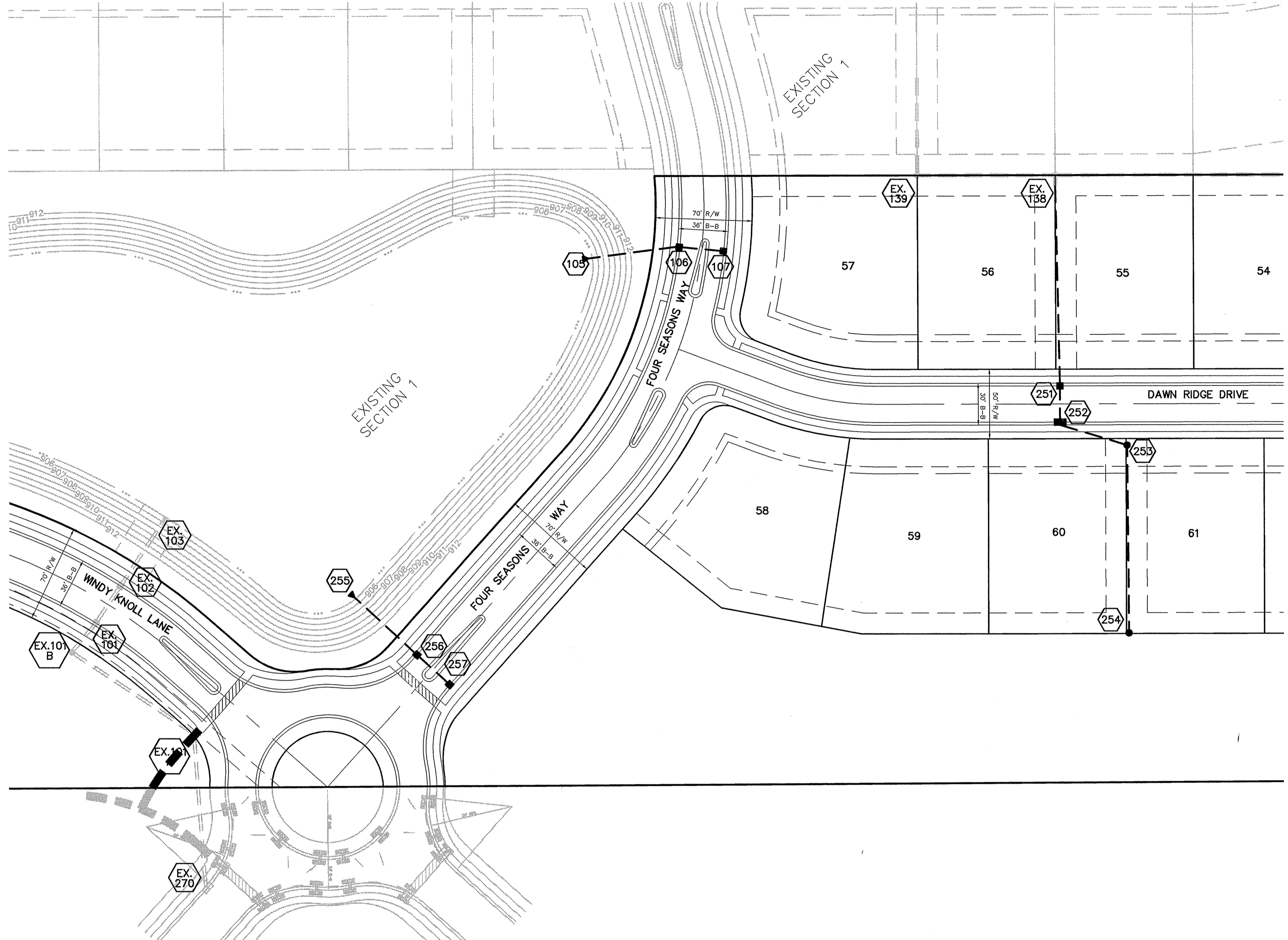
PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING #R-3501 N	CASTING #3501 TL & TR
12" to 18"	24"x24"		DESIGN APPROVAL	No	Yes	Yes
12" to 21"	30"x30"		DESIGN APPROVAL	No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



CONSULTING ENGINEERS - LAND SURVEYORS  
 (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942  
 INDIANAPOLIS INDIANA  
 INDIANAPOLIS INDIANA  
 STORM SEWER PLAN & PROFILE  
 LAKESIDE PARK SECTION 2  
 CARMEL INDIANA  
 SHEET NO. 15 OF 21 SHEETS  
 JOB NO. 41760





**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	No	No	Yes
24" OR LARGER		MH/BOX	DESIGN APPROVAL	Yes**	Yes	Yes

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# RECORD DRAWING

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

2/20/04  
 DATE



**STORM SEWER PLAN & PROFILE**

**LAKESIDE PARK SECTION 2**

INDIANA  
 CARMEL

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

SHEET NO.  
**14**  
 OF 21 SHEETS  
 JOB NO. 41760

DATE	BY	REVISIONS
11/4/02	AS BLS/JS	
10/29/02		
11/4/02		

DWN. BY: CRM  
 CHK. BY: EFF  
 SCALE: 1"=50'  
 DATE: 11/4/02  
 MARK: DATE: 11/4/02  
 REVISIONS: BY: