

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

October 12, 2005

RE: Lion Creek Drain, Long Ridge Estates Arm

Attached is a petition filed by Platinum Properties LLC along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Long Ridge Estates Arm, Lion Creek 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" SCH 40 PVC	60 ft.	15" RCP	629 ft.	27" RCP	999 ft.
6" SSD	10,682 ft.	18" RCP	631 ft.	30" RCP	656 ft.
12" CMP	60 ft.	21" RCP	677 ft.	Open Ditch	777 ft.
12" RCP	1,049 ft.	24" RCP	985 ft.		

The total length of the drain will be 17,205 feet.

The 60 feet of 12" CMP are two 30 foot culverts that cross Shelborne Road. The first culvert is approximately 2,050 feet south of the intersection of 141<sup>st</sup> Street and Shelborne Road and the second culvert is approximately 2,577 feet south of the intersection. The open ditch listed is three (3) separate segments of drain. The first being 25 feet from the western end of the north culvert to Structure 120. The second segment being 12 feet, from the western end of the southern culvert to Structure 120B.

The final segment is 740 feet of existing channel that is located within Common Area #1. The drain starts at the northern property line of Common Area #1 approximately 151 feet east of the northwest corner of the common area and follows the existing channel south, then turning east and turning back north to the shared property line between Long Ridge Estates and Edgewood Subdivision. This drain is to provide a future outlet point to the regulated drain if drainage improvements are made to Edgewood Subdivision at or near the southwest corner of Lot 6, Edgewood Subdivision. Although this open ditch does not drain to Lion Creek, it is included with the Drain at this time. As development occurs in the drainage shed for this unnamed tributary of Little Eagle Creek in the future, this drain should be included into the maintenance for that drain.

The Agri-Drain pond leveling structure, shown on the plans as Structures 97 to 99 and detailed on Sheet C602, is to be maintained as part of the regulated drain and is included in the footage calculations above. This structure is designed to control the water level between the retention pond and the existing

pond and the levels of the pond have an effect of the storage volume the ponds can hold. The control of the detention pond volume is the basis for this structure becoming part of the regulated drain, to ensure proper functionality and any required maintenance.

The retention ponds (lakes) located in Common Area #3 is to be considered part of the regulated drain. Pond maintenance shall include the inlet, outlet, sediment removal and erosion control along the banks as part of the regulated drain. The maintenance of the ponds (lakes), such as mowing and aquatic vegetation control, will be the responsibility of the Homeowners Association as set out on pages 6 and 21 in the Declaration of Covenants, Conditions and Restrictions of Long Ridge Estates. This document is recorded in the Office of the Hamilton County Recorder as Instrument Number 200500063315. The Board will also retain jurisdiction for ensuring the storage volume for which the ponds (lakes) were 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 and those main lines between lots or in rear yards. Only the main SSD lines which are located within the easement (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, \$65.00 per platted lot, \$10.00 per acre for roadways, with a \$65.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$4,553.90.

The petitioner has 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 are as follows:

Agent: Bond Safeguard Insurance Company	Agent: Bond Safeguard Insurance Company
Date: May 17, 2005	Date: May 17, 2005
Number: 5016607	Number: 5016606
For: Storm Sewers	For: Erosion Control
Amount: \$302,805.60	Amount: \$10,200.00

Parcels assessed for this drain may be assessed for the Little Eagle Creek 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. The request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Long Ridge Estates Section 1 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for December 22, 2005.



Kenton C. Ward  
Hamilton County Surveyor

KCW/pll

STATE OF INDIANA )  
 )  
COUNTY OF HAMILTON )

FILED  
JAN 06 2006  
RECORDED  
INDEXED

TO: HAMILTON COUNTY DRAINAGE BOARD  
% Hamilton County Surveyor  
One Hamilton County Square, Suite 188  
Noblesville, IN. 46060-2230

In the matter of LongRidge Estates 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 LongRidge Estates, Section 1, 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 benefited thereby. Petitioner believes the proposed improvements will:

- (a) improve public health
- (b) benefit a public street
- (c) be of public utility

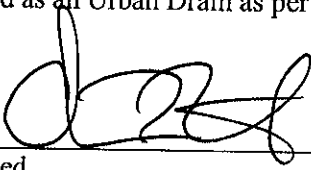
Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

The Petitioner also agrees to the following:

1. To provide the Drainage Board a Performance Bond or Non-Revocable Letter of Credit for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 120% of the Engineer's 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 Petitioners cost as per IC 36-9-27-46.

The Petitioner further requests that the Drain be classified as an Urban Drain as per IC 36-9-27-69(d).

Signed \_\_\_\_\_

  
Signed \_\_\_\_\_

Printed Name \_\_\_\_\_

CHRISTOPHER W. WERTH, MEMBER  
Printed Name BOOMERANG DEVELOPMENT, LLC

**RECORDED OWNER(S) OF LAND INVOLVED**


Date 1-7-04

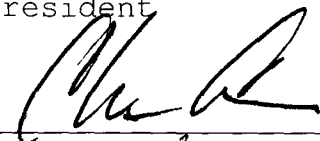
**FINDINGS AND ORDER**  
**CONCERNING THE MAINTENANCE OF THE**  
**Lion Creek Drain, Long Ridge Estates Arm**

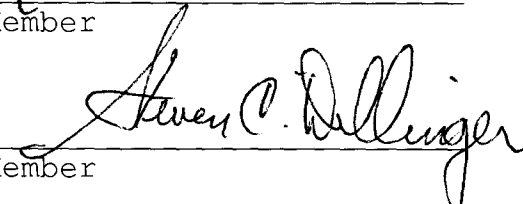
On this **22nd day of December 2005**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Lion Creek Drain, Long Ridge Estates Arm**

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.

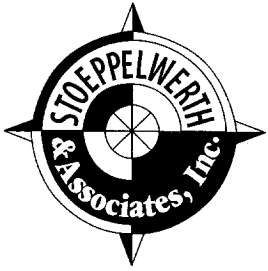
HAMILTON COUNTY DRAINAGE BOARD

  
\_\_\_\_\_  
President

  
\_\_\_\_\_  
Member

  
\_\_\_\_\_  
Member

Attest: 



# CONSULTING ENGINEERS • LAND SURVEYORS

David J. Stoeppelwerth, P.E., P.L.S.  
President, C.E.O.

Curtis C. Huff, P.L.S.  
Vice-President, C.O.O.

R.M. Stoeppelwerth, P.E., P.L.S.  
President Emeritus

## CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Longridge Estates, 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
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 24, 2006

Type or Print Name: Jeffery W. Darling

Business Address: Stoeppelwerth & Associates, Inc.

9940 Allisonville Road, Fishers, Indiana 46038

Telephone Number: (317) 849-5935

SEAL

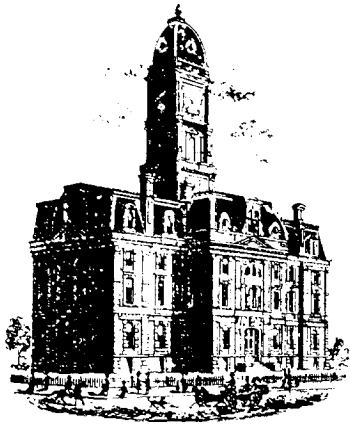
INDIANA REGISTRATION NUMBER

900017



EEF/jag

S:\47425S1\Blue\_Book\Applications - Notice\CERTIFICATE OF COMPLETION AND COMPLIANCE007-24-06.doc



SURVEYOR'S OFFICE

# Hamilton County

*Kenton C. Ward, CFM*  
 Surveyor of Hamilton County  
 Phone (317) 776-8495  
 Fax (317) 776-9628

Suite 188  
 One Hamilton County Square  
 Noblesville, Indiana 46060-2230

**To: Hamilton County Drainage Board**

**March 3, 2008**

**Re: Lion Creek Drain: Long Ridge Estates Sec. 1**

Attached are as-builts, certificate of completion & compliance, and other information for Long Ridge Estates Section 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 12, 2005. The report was approved by the Board at the hearing held December 22, 2005. (See Drainage Board Minutes Book 8, Pages 565-567)

The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn_Invert	Grade:	Changes(ft):
124-123	162	27	RCP	901.8	901.06	0.46	1
131-130a	51	12	RCP	905.96	905.45	1	1
130A-130	30	12	RCP	905.45	904.05	0.53	
130-129	58	24	RCP	904.05	903.79	0.45	
129-128	30	24	RCP	903.79	903.48	1.03	
128-126	161	24	RCP	903.48	902.74	0.46	
126-125	164	24	RCP	902.74	902.04	0.43	-1
125-124	30	24	RCP	902.04	901.8	0.8	
141-140	30	12	RCP	907.79	907.75	0.13	
140-139	75	15	RCP	907.75	906.97	1.04	-1
139-137	328	18	RCP	906.97	905.45	0.46	
137-136	56	18	RCP	905.45	905.38	0.13	1
136-134	58	18	RCP	905.38	905.25	0.22	
101-102	30	12	RCP	906.09	905.82	0.9	
102-103	145	15	RCP	905.82	904.47	0.93	3
135-134	30	12	RCP	906.8	906.35	1.5	
134-132	162	21	RCP	905.25	904.5	0.46	1
132-130	129	21	RCP	904.5	904.05	0.35	
133-132	108	12	RCP	907.1	905.79	1.21	1
127-126	66	12	RCP	907.01	906.56	0.68	1
120b-116	233	15	RCP	909.57	907.1	1.06	-5
116-115	152	24	RCP	907.1	906.5	0.39	-3

115-114	30	24	RCP	906.5	906.41	0.3	
114-113	41	24	RCP	906.41	906.19	0.54	-1
113-112	231	24	RCP	906.19	905.35	0.36	2
112-111	161	27	RCP	905.35	904.76	0.37	1
111-110	31	27	RCP	904.76	904.61	0.48	
110-108	161	27	RCP	904.61	903.78	0.52	1
109-108	243	12	RCP	905.51	903.78	0.71	-2
108-107	159	27	RCP	903.78	903.27	0.32	-1
107-106	30	27	RCP	903.27	903.06	0.7	
106-105	49	30	RCP	903.06	902.83	0.47	1
105-104	138	30	RCP	902.83	902.06	0.56	-2
104-103	145	30	RCP	902.06	901.48	0.4	-1
103-101a	205	30	RCP	901.48	900.33	0.56	1
101A-100	104	30	RCP	900.33	899.97	0.35	-14
147-146	30	12	RCP	904.59	904.41	0.6	
146-145	201	12	RCP	904.41	900.06	2.16	-4
144-143	142	12	RCP	902.91	902.45	0.32	19
143-142	105	12	RCP	902.45	901.55	0.86	1
142-123	31	15	RCP	901.55	901.06	1.58	1
123-122	160	27	RCP	901.06	900.38	0.43	
122-121	77	30	RCP	900.38	900	0.49	-60
120A-120	23	12	RCP	910.04	908.53	6.56	-2
120-119	109	15	RCP	907	906.3	0.64	1
119-118	30	18	RCP	906.3	906.07	0.77	
118-112	159	18	RCP	906.07	905.35	0.45	-1
151-150	81	27	RCP	900.08	899.86	0.27	-5
148-149	361	21	RCP	897.1	894.91	0.61	-26

**6" SSD Streets:**

Fossil/Cunningham	1532.5
Akers/Monique	1613
Long Ridge	2066
x2	

**Total:** 10423

<b>Other Drain:</b>	
6" PVC	60
12" CMP	73
Open Ditch	773
<b>Total:</b>	<u>906</u>

**RCP Pipe Totals:**

12	1089
15	593
18	631
21	652
24	897
27	945
30	718

**Total:** 5525

The length of the drain due to the changes described above is now **16,854 feet**.



The non-enforcement was approved by the Board at its meeting on December 22, 2005 and recorded under instrument # 200500084918.

The following sureties were guaranteed by Bond Safeguard Insurance Company and released by the Board on its November 27, 2006 meeting.

**Bond-LC No:** 5016607  
**Insured For:** Storm Sewers  
**Amount:** \$302,805.60  
**Issue Date:** May 17, 2005

**Bond-LC No:** 5016606  
**Insured For:** Erosion Control  
**Amount:** \$10,200.00  
**Issue Date:** May 17, 2005

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

Sincerely,



---

Kenton C. Ward, CFM  
Hamilton County Surveyor

KCW/slm

REFERENCE BENCHMARK:

LEE 2 - THE STATION IS LOCATED APPROXIMATELY 2.5 MILES NORTHEAST OF ZIONSVILLE; AT THE INTERSECTION OF SHELBOURNE ROAD AND WEST 131ST STREET; IN THE SOUTHEAST QUADRANT 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".

TBM. NO.1

ELEVATION: 917.518' (NAVD 88)

A RAILROAD SPIKE, UP 1 FOOT ± ON THE EAST SIDE OF POWER POLE # 54-877, SAID POLE LOCATED 14.0 FEET WEST OF THE CENTERLINE OF SHELBOURNE ROAD AND IS 100 FEET ± SOUTH OF THE MAILBOX FOR ADDRESS NUMBER 13535 SHELBOURNE ROAD.

TBM. NO.2

ELEVATION: 918.94' (NAVD 88)

A RAILROAD SPIKE, UP 1 FOOT ± ON THE EAST SIDE OF POWER POLE # 189-815, SAID POLE LOCATED 14.0 FEET WEST OF THE CENTERLINE OF SHELBOURNE ROAD AND IS 40 FEET ± NORTH OF THE MAILBOX FOR ADDRESS NUMBER 13802 SHELBOURNE ROAD.

TBM. NO.3

ELEVATION: 913.60' (NAVD 88)

A RAILROAD SPIKE IN POWER POLE # 54-873, SAID POLE LOCATED ON THE WEST OF SHELBOURNE ROAD.

ELEVATION: 917.35' (NAVD 88)

TBM. NO.4

A RAILROAD SPIKE, UP 1 FOOT ± ON THE WEST SIDE OF POWER POLE # 193-337, SAID POLE LOCATED 25 FEET ± WEST OF CENTERLINE OF SHELBOURNE ROAD ON NORTH LINE OF THE BROWN TRACT.

ELEVATION: 913.24' (NAVD 88)

# RECORD DRAWING

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

7/24/06  
DATE



NOTE TO CONTRACTOR:  
CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ONSITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE IS NOT ANY CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

## LEGEND

- EXISTING EDGE OF WOODS
- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE
- MATCH EXISTING
- PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED 5' SIDEWALK (BY HOME BUILDER)  
(DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS)
- LOT NUMBER
- PAD ELEVATION
- PAD SIZE: 60'x60'  
(UNLESS OTHERWISE NOTED)
- MIN. FLOOD PROTECTION GRADE

SCALE: 1" = 60'

NOTE: MIN. FLOOD PROTECTION GRADES OF ALL STRUCTURES FRONTING POND #4 SHALL BE NO LESS THAN 2 FEET ABOVE ANY ADJACENT 100-YR. LOCAL OR REGIONAL FLOOD ELEVATION (WHICHEVER IS GREATER FOR ALL WINDOWS, DOORS, PIPE ENTRANCES, WINDOW WELLS, ETC.)

- PROPOSED 6" UNDERDRAINS
- DENOTES 4" SUBSURFACE DRAIN TO LOT
- DENOTES 6" SUBSURFACE DRAIN
- ROLL CURB
- RE: SURFACING LIMITS TO BE CONSTRUCTED

NOTE: THE EXISTING WELLS AND SEPTIC SYSTEMS WILL NEED TO BE PROPERLY LOCATED, ABANDONED IN ACCORDANCE WITH ALL APPLICABLE STANDARDS.

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

ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SEWER SYSTEM WITH A POSITIVE OUTFLOW

NOTE: EX. 12" C.M.P. TO BE CLEANED OUT TO ALLOW FOR DRAINAGE TO STR. #120.

NOTE: A 6" S.S.D IS TO BE INSTALLED UNDER TO THE STONE SHOULDER ALONG SHELBOURNE RD.

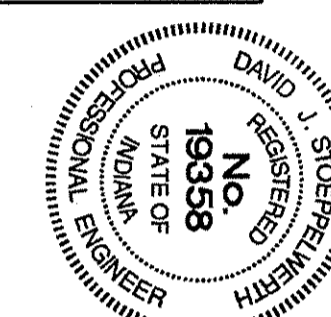
### EARTHWORK

1. EXCAVATION
  - A. Excavated material that is suitable (topsoil and/or clay) may be used for fills. All unsuitable material and all surplus excavated material not required shall be removed from the site.
  - B. Provide and place any additional fill material from offsite as may be necessary to produce the grades required on plans. Fill obtained from offsite shall be of quality as specified for fills herein and the source approved by the Developer. It will be the responsibility of the Contractor for any costs for fill needed.
2. REMOVAL OF TREES
  - A. All trees and stumps shall be removed from areas to be occupied by a road surface or structure area. Trees and stumps shall not be buried on site.
3. PROTECTION OF TREES
  - A. The Contractor shall, at the direction of the Developer, endeavor to save and protect trees of value and worth which do not impair construction of improvements as designed.
  - B. In the event cut or fill exceeds 0.5 foot over the root area, the Developer shall be consulted with respect to protective measure to be taken, if any, to preserve such trees.
- REMOVAL OF TOPSOIL
  - A. All topsoil shall be removed from all areas beneath future pavements or building. Topsoil removal shall be to a minimum depth of 6 inches or to the depth indicated in the geotechnical report provided by the Developer to be excavated or filled. Topsoil should be stored at a location where it will not interfere with construction operations. The topsoil shall be free of debris and stones.
- UTILITIES
  - A. Rules and regulation governing the respective utility shall be observed in executing all work under this section.
  - B. It shall be the responsibility of the Contractor to determine the location of existing underground utilities 2 working days prior to commencing work. For utility locations to be marked call Toll Free 1-800-382-5544 within Indiana or 1-800-428-5200 outside Indiana.
  - C. Contact Carmel Utilities at 571-2648 for location of all watermains.
- SITE GRADING
  - A. Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
  - B. The tolerance for paved areas shall not exceed 0.05 feet above established subgrade. All other areas shall not exceed 0.05 feet plus or minus the established grade. Provide roundings at top and bottom of banks and other breaks in grade.
  - C. The Engineer shall be notified when the Contractor has reached the tolerance as stated above, so that field measurements and spot elevations can be verified by the Engineer. The Contractor shall not remove his equipment from the site until the Engineer has verified that the job meets the above tolerance.

FORM EARTHWRK  
"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.

CONTACT: CARMEL UTILITIES  
(317) 571-2648  
FOR WATER LOCATES



This information was gathered for input into the system (GIS). This document is considered an official record of the GIS.  
Entry Date: 3-9-08  
Entered By: S-M-A

REV	DATE	BY	REVISIONS
AS BUILT			
17/05/05			
6/29/05			
5/25/05			
5/10/05			
4/30/05			
4/30/05			
2/20/05			
2/22/05			

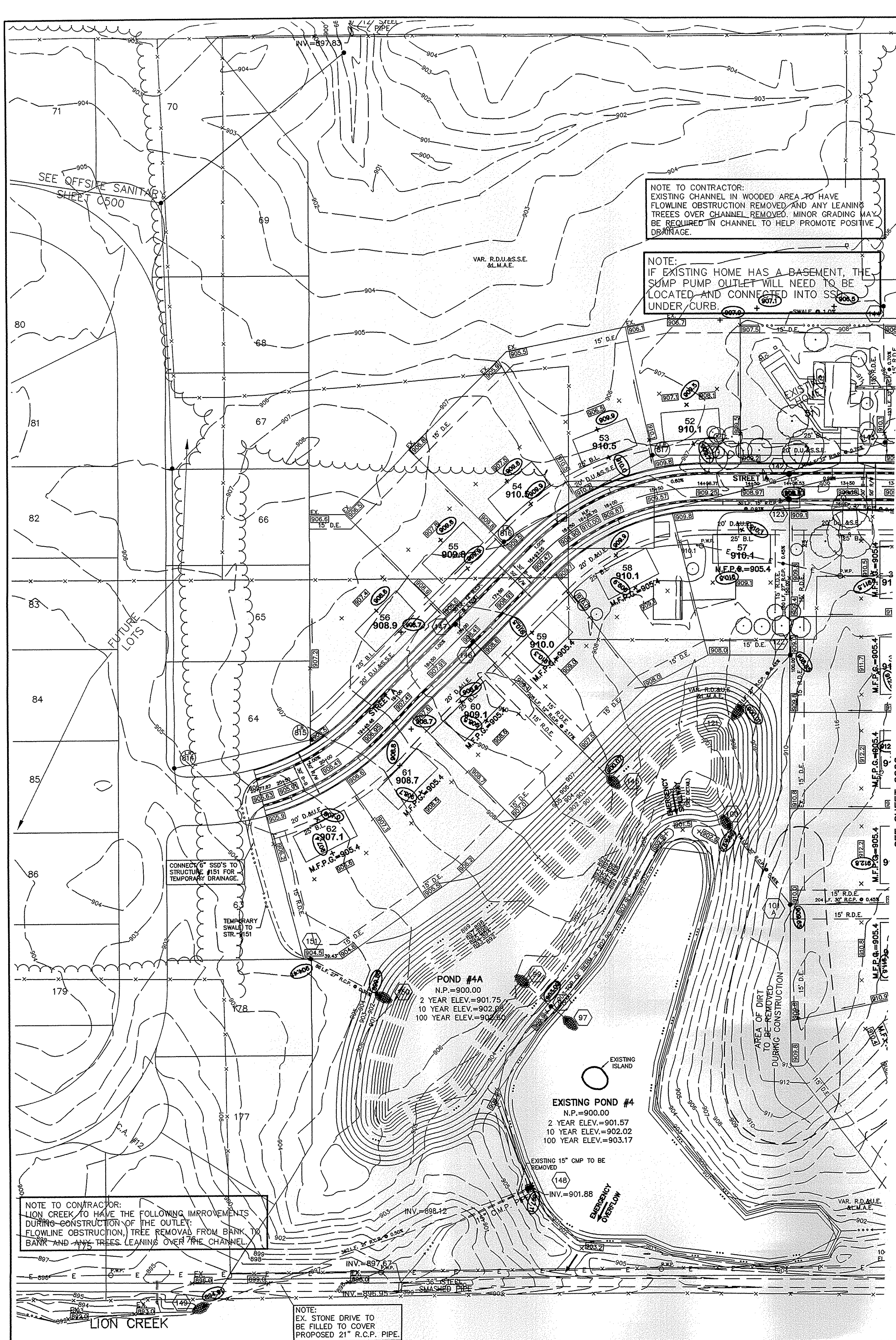
DATE	MARK	REVISIONS
07/04/05		

CERTIFIED:	07/04/05	DAVID J. STAPPERT
CONSULTING ENGINEERS - LAND SURVEYORS		
(317) 849-5935 1-800-728-6917 FAX: (317) 849-5942		
FISHERS INDIANA		

SITE DEVELOPMENT PLAN	
LONGRIDGE ESTATES	
SECTION ONE	
INDIANA	
CARMEL	
SHEET NO.	C200
JOB NO.	4742551



NOTE TO CONTRACTOR:  
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- REFERENCE BENCHMARK:  
LEE 2 - THE STATION IS LOCATED APPROXIMATELY 2.5 MILES NORTHEAST OF ZIONSVILLE; AT THE INTERSECTION OF SHELBOURNE ROAD AND WEST 131ST STREET; IN THE SOUTHEAST QUADRANT 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".
- ELEVATION: 917.518' (NAVD 88)
- TBM. NO.1  
A RAILROAD SPIKE, UP 1 FOOT ± ON THE EAST SIDE OF POWER POLE # 54-877, SAID POLE LOCATED 14.0 FEET WEST OF THE CENTERLINE OF SHELBOURNE ROAD AND IS 100 FEET ± SOUTH OF THE MAILBOX FOR ADDRESS NUMBER 13535 SHELBOURNE ROAD.
- ELEVATION: 918.94' (NAVD 88)
- TBM. NO.2  
A RAILROAD SPIKE, UP 1 FOOT ± ON THE EAST SIDE OF POWER POLE # 189-815, SAID POLE LOCATED 14.0 FEET WEST OF THE CENTERLINE OF SHELBOURNE ROAD AND IS 40 FEET ± NORTH OF THE MAILBOX FOR ADDRESS NUMBER 13502 SHELBOURNE ROAD.
- ELEVATION: 913.60' (NAVD 88)
- TBM. NO.3  
A RAILROAD SPIKE IN POWER POLE # 54-873, SAID POLE LOCATED ON THE WEST OF SHELBOURNE ROAD.
- ELEVATION: 917.35' (NAVD 88)
- TBM. NO.4  
A RAILROAD SPIKE, UP 1 FOOT ± ON THE WEST SIDE OF POWER POLE # 193-337, SAID POLE LOCATED 25 FEET ± WEST OF CENTERLINE OF SHELBOURNE ROAD ON NORTH LINE OF THE BROWN TRACT.
- ELEVATION: 913.24' (NAVD 88)

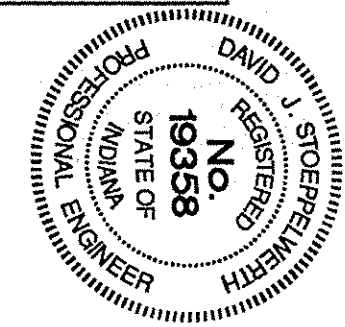
**LEGEND**

- EXISTING EDGE OF WOODS
- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE
- MATCH EXISTING
- PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED 5' SIDEWALK (BY HOME BUILDER) (DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS)
- LOT NUMBER
- PAD ELEVATION
- MIN. FLOOD PROTECTION GRADE

100  
874.1  
M.F.P.G. =

NOTE: MIN. FLOOD PROTECTION GRADES OF ALL STRUCTURES FRONTING POND #4 SHALL BE NO LESS THAN 2 FEET ABOVE ANY ADJACENT 100-YR. LOCAL OR REGIONAL FLOOD ELEVATION (WHICHEVER IS GREATER FOR ALL WINDOWS, DOORS, PIPE ENTRANCES, WINDOW WELLS, ETC.)

DATE	BY	REVISIONS
11/16/05	BAH	
9/12/05	BAH	CHANGE PIPE SIZE 15" TO 21" R.C.P.
7/17/05	BAH	REV. LANE INFO, NORMAL POOL, CARGO, OVERFLOW
6/4/05	BAH	REVISED PER ENGINEER COMMENTS
5/22/05	BAH	REVISED PER ENGINEER COMMENTS
5/10/05	BAH	REVISED PER CITY COMMENTS
4/29/05	BAH	REVISED PER DEVELOPER
2/10/05	BAH	REVISED PER C.E. COMMENTS
2/2/05	BAH	REVISED PER TAC COMMENTS
01/04/05	BAH	

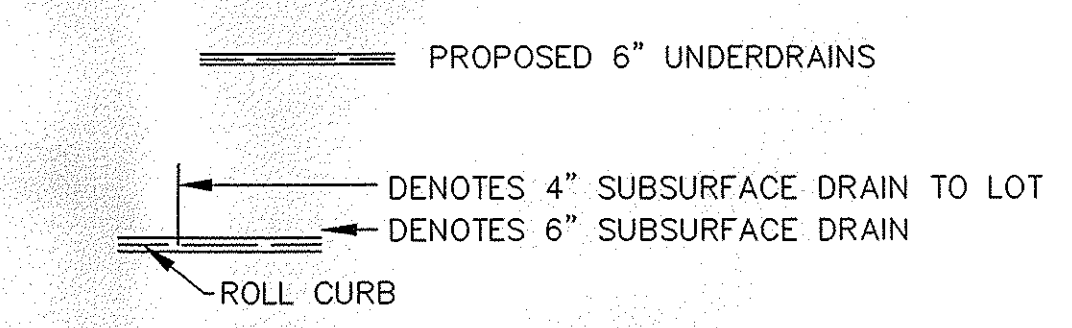


CERTIFIED: 01/04/05

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**AS BUILT**

STR. NO.	TYPE	T.C. / RIM	INVERT	DIRECTION
97	AGRI-DRAIN RAT GUARD		894.00	NW
98	AGRI-DRAIN STRUCTURE	903.09	898.25	NW&SE
99	AGRI-DRAIN RAT GUARD		898.00	SE
100	CONCRETE END SECTION		899.97	SE
101A	MANHOLE	909.65	900.33	NW&E
101	CURB INLET	909.48	906.09	NE
102	CURB INLET	909.76	905.82	SW&N
103	MANHOLE	911.84	904.47	W&S&E
104	YARD INLET	908.13	902.06	W&E
105	MANHOLE	910.49	902.83	W&NE
106	CURB INLET w/MH	909.85	903.06	SW&E
107	DOUBLE CURB INLET	908.22	903.27	W&E
108	YARD INLET	909.04	903.78	W&E&S
109	YARD INLET	907.98	905.51	N
110	DOUBLE CURB INLET	910.02	904.61	NE&W
111	DOUBLE CURB INLET	910.06	904.76	SW&E
112	YARD INLET	909.14	905.35	W&S&E
113	MANHOLE	913.87	906.19	N&SE
114	CURB INLET w/MH	913.77	906.41	NW&S
115	CURB INLET	913.64	906.50	N&S
116	YARD INLET	910.26	907.10	N&E
118	CURB INLET w/MH	913.62	906.07	E&W
119	CURB INLET w/MH	913.52	906.30	NE&W
120	YARD INLET	910.92	907.32	SW
120A	CONCRETE END SECTION		910.04	W
120B	YARD INLET	912.55	909.57	W
121	CONCRETE END SECTION		900.00	NE
122	MANHOLE	908.85	900.38	SW&N
123	CURB INLET w/MH	908.65	901.06	S&N&E
124	CURB INLET w/MH	909.56	901.80	E&W
125	CURB INLET w/MH	909.42	902.04	NE&W
126	MANHOLE	911.56	906.56	SW&S&NE
127	YARD INLET	909.98	907.01	N
128	CURB INLET w/MH	909.56	903.48	SW&NE
129	CURB INLET w/MH	909.54	903.79	SW&NE
130	CURB INLET w/MH	909.70	905.29	SW&E&N
130A	CURB INLET w/MH	909.58	905.45	S&N
131	YARD INLET	907.93	905.96	S
132	MANHOLE	910.87	905.28	E&W&S
133	YARD INLET	909.07	907.10	N
134	CURB INLET w/MH	910.40	906.35	NE&E&W
135	CURB INLET	910.39	906.80	W
136	CURB INLET w/MH	910.73	905.38	SW&NE
137	YARD INLET	908.48	905.45	SW&SE
139	CURB INLET w/MH	911.78	906.97	NW&SW
140	CURB INLET	911.39	907.75	NE&E
141	CURB INLET w/MH	911.29	907.79	W
142	CURB INLET w/MH	908.73	901.55	S&NE
143	MANHOLE	910.28	902.45	SW&N
144	YARD INLET	905.68	902.91	S
145	CONC. END SECTION		900.06	NW
146	CURB INLET	908.38	904.41	SE&NW
147	CURB INLET	908.32	904.59	SE
148	SPECIAL BOX STRUCTURE	901.39	897.10	SW
149	CONC. END SECTION		894.91	NE
150	CONC. END SECTION		899.86	NW
151	YARD INLET	904.41	900.08	SE



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

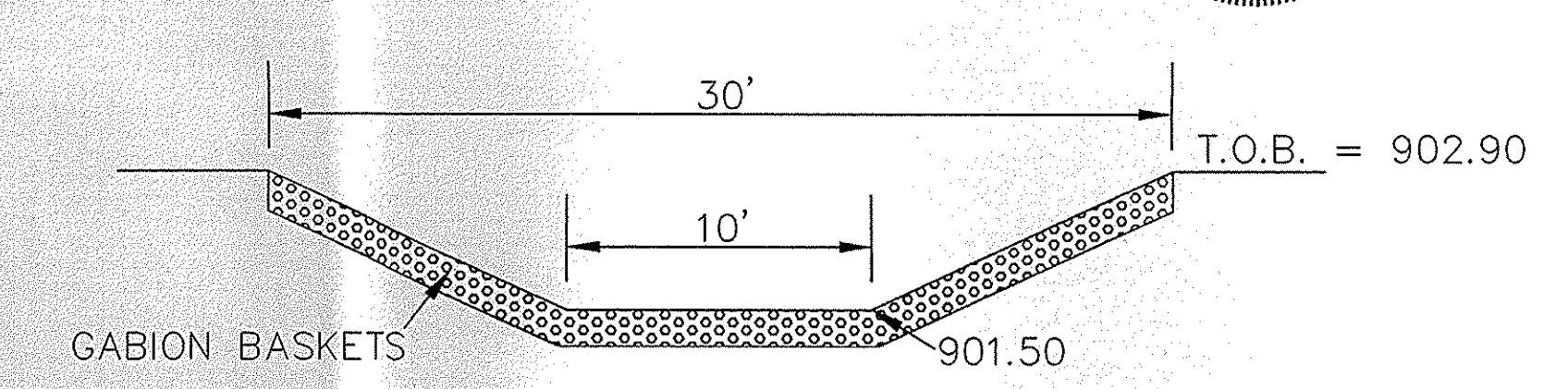
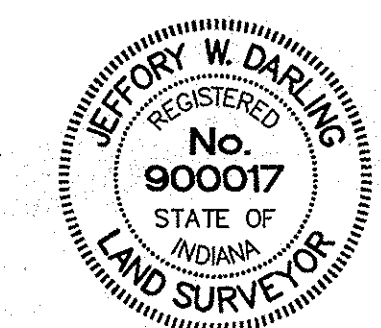
ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SEWER SYSTEM WITH A POSITIVE OUTFLOW

NOTE:  
A 6" S.S.D IS TO BE INSTALLED UNDER TO THE STONE SHOULDER ALONG SHELBOURNE RD.

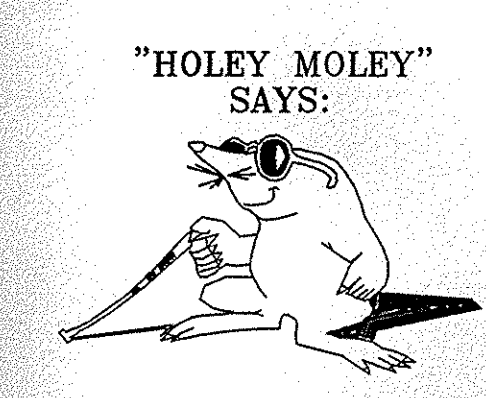
**RECORD DRAWING**

JEFFERY W. DARLING  
7/24/06  
DATE

Registered Land Surveyor  
No. 900017



**EMERGENCY SPILLWAY W/ GABION BASKETS N.T.S.**



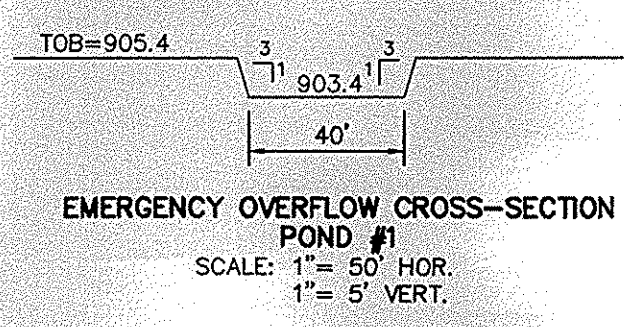
"HOLEY MOLEY" SAYS:  
1-800-382-5544  
CALL TOLL FREE  
1-800-428-5200  
FOR CALLS OUTSIDE OF INDIANA

**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.

This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.

Entry Date: 3-3-08

Entered by: SLM

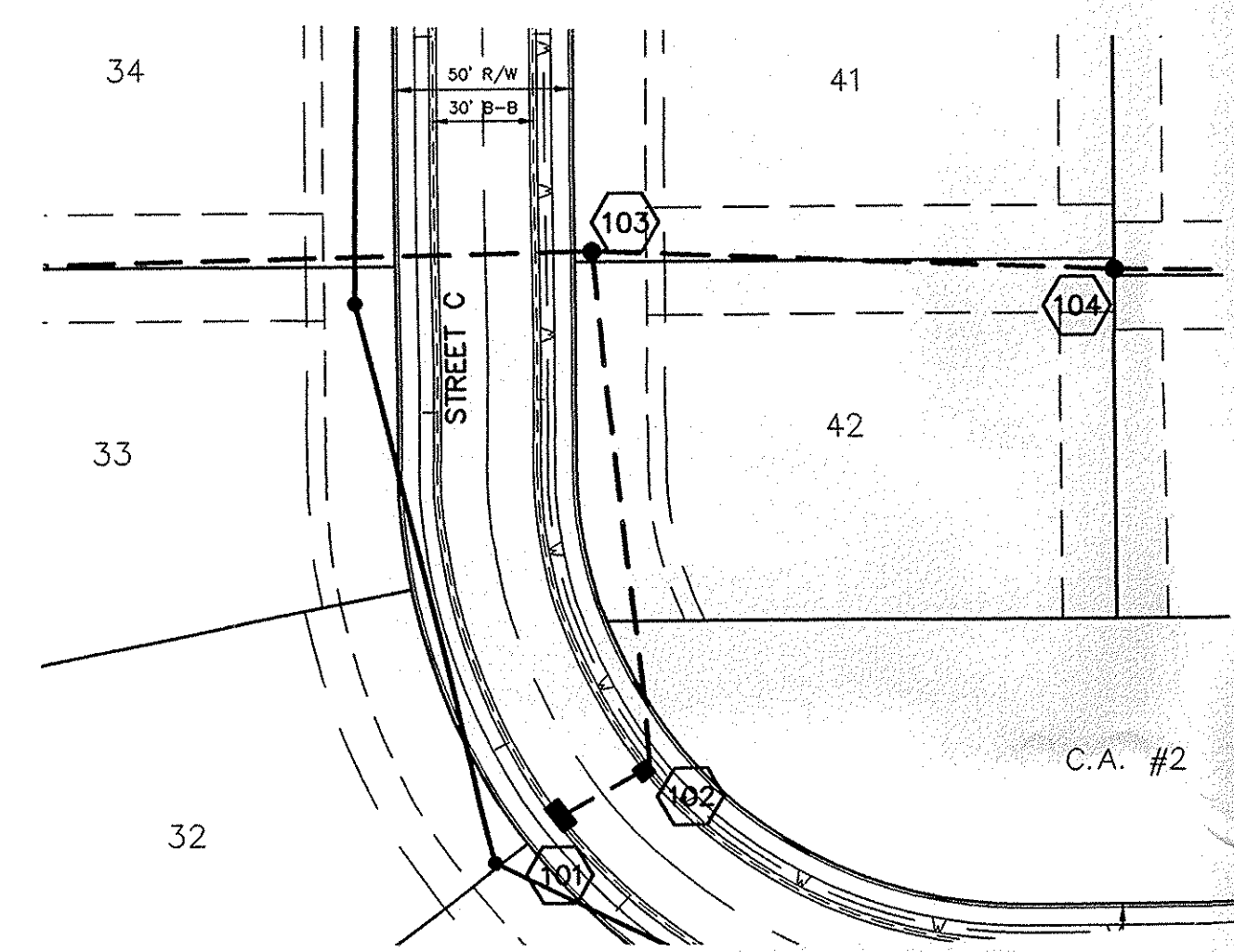
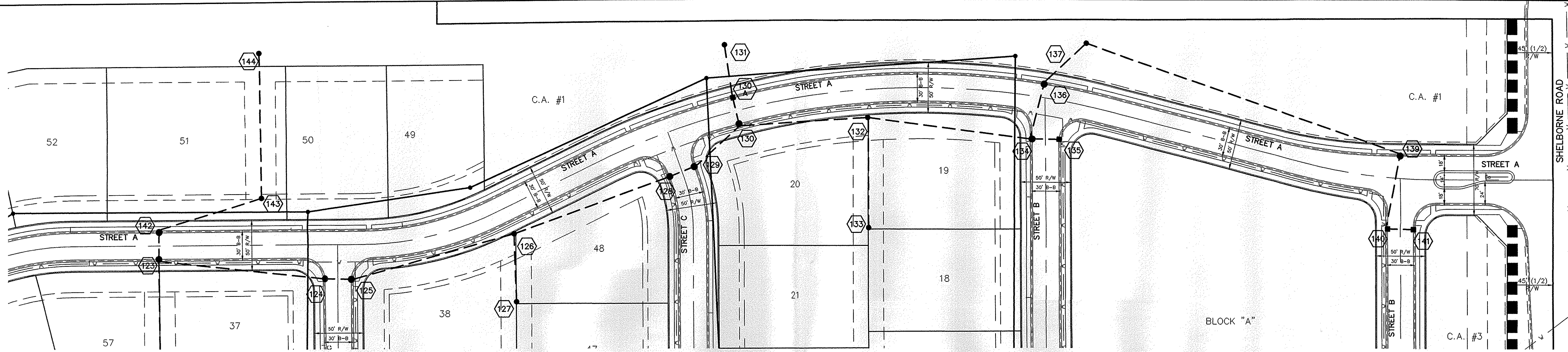


EMERGENCY OVERFLOW CROSS-SECTION POND #1  
SCALE: 1" = 50' HOR.  
1" = 5' VERT.

SITE DEVELOPMENT PLAN  
LONGRIDGE ESTATES  
SECTION ONE

INDIANA  
CARMEL

SHEET NO.  
**C201**  
JOB NO. 4742551



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 #5501 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		MH/BOX	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 MAX. 50" X 60" 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.

NOTE: CONSTRUCTION TOLERANCE FOR YARD INLETS WILL BE +0.0' TO -0.20'

NOTE: \*EXCEPT FOR FORCE MAINS, CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES AND STORM SEWERS IS 18" OR LESS.

ALL MANHOLES TO BE CONSTRUCTED WITH ONE 4" RISER RING (NO MORE, NO LESS) TO ESTABLISH PLAN CASTING GRADE.

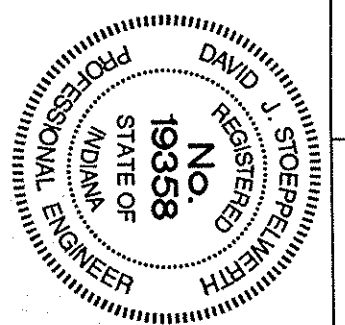
ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SEWER SYSTEM WITH A POSITIVE OUTFLOW

NOTE: ALL STORM SEWER CASTINGS SHALL BE LABELED "DUMP NO WASTE-DRAINS TO WATERWAY"

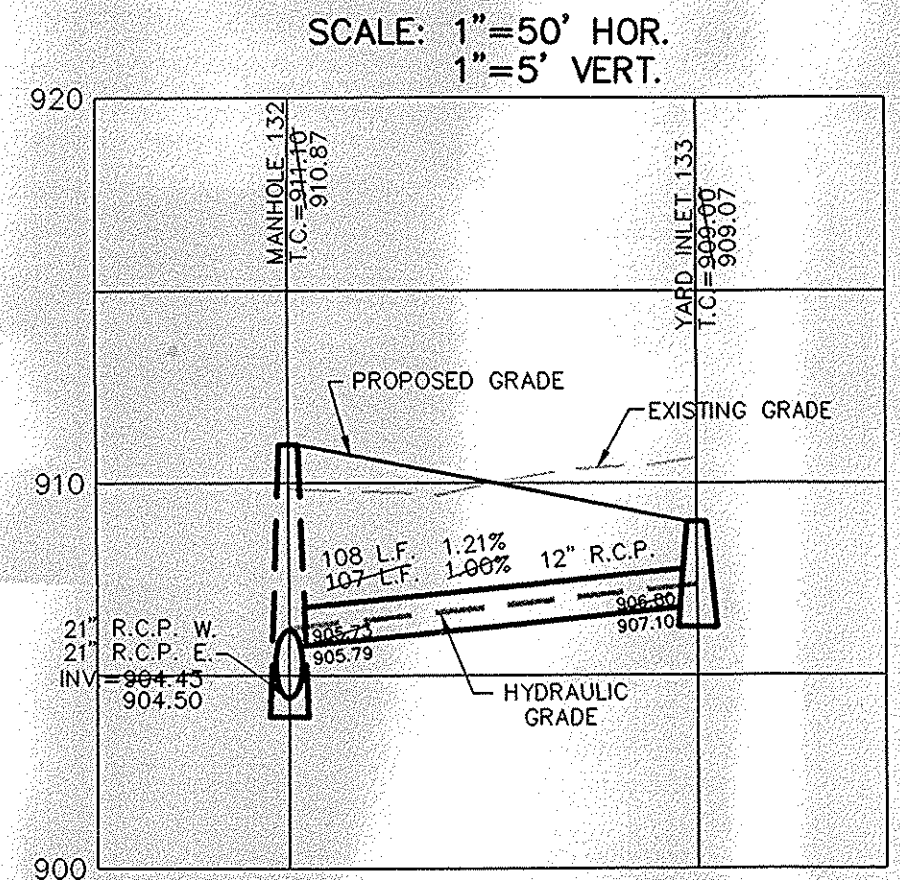
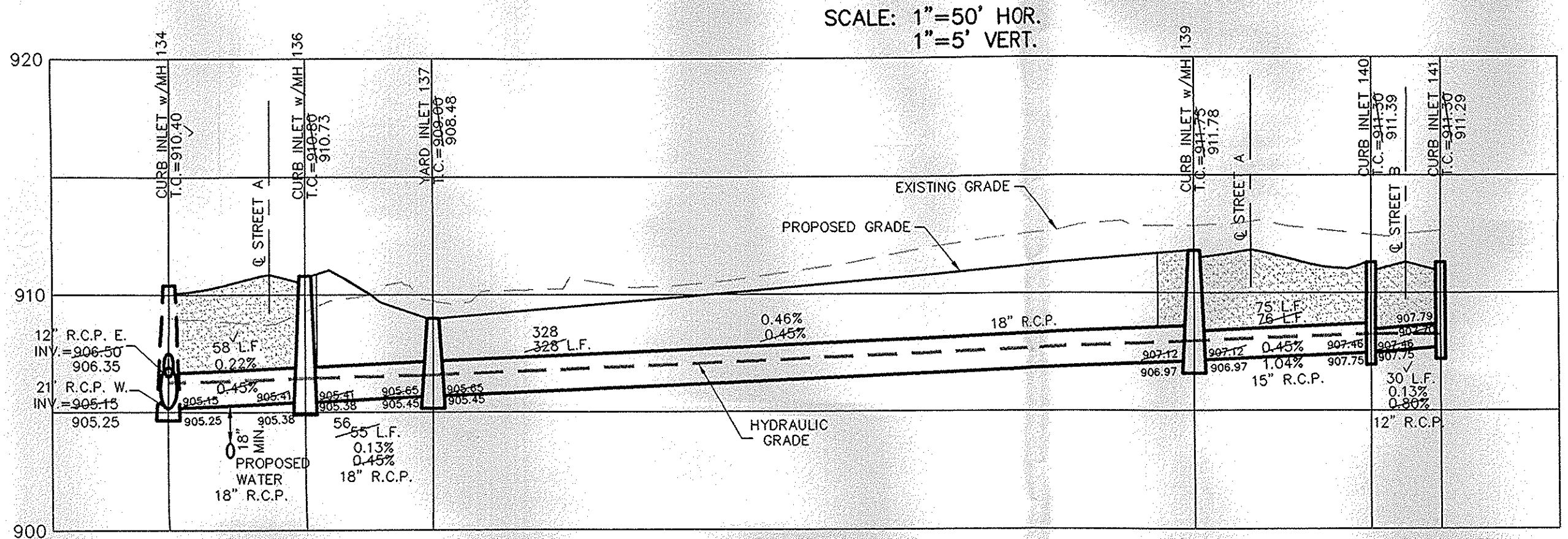
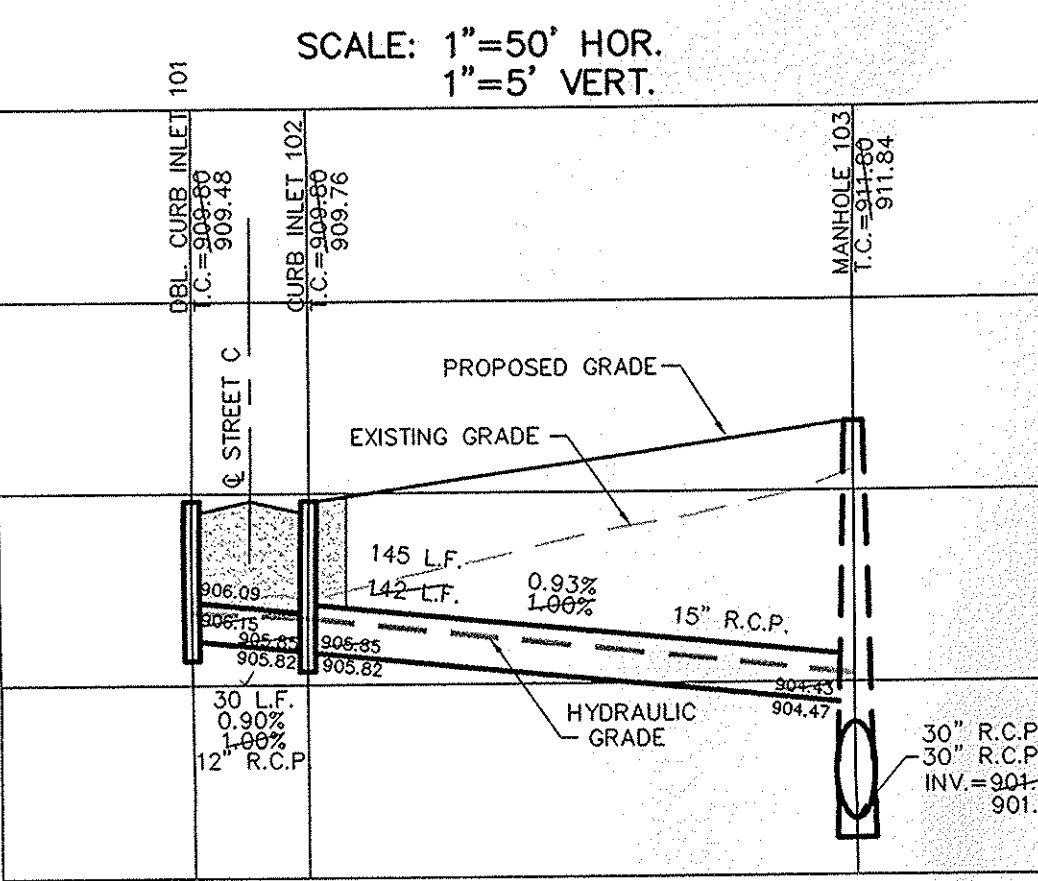
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 Entry Date: 3-3-08  
 Entered By: SLM

# RECORD DRAWING

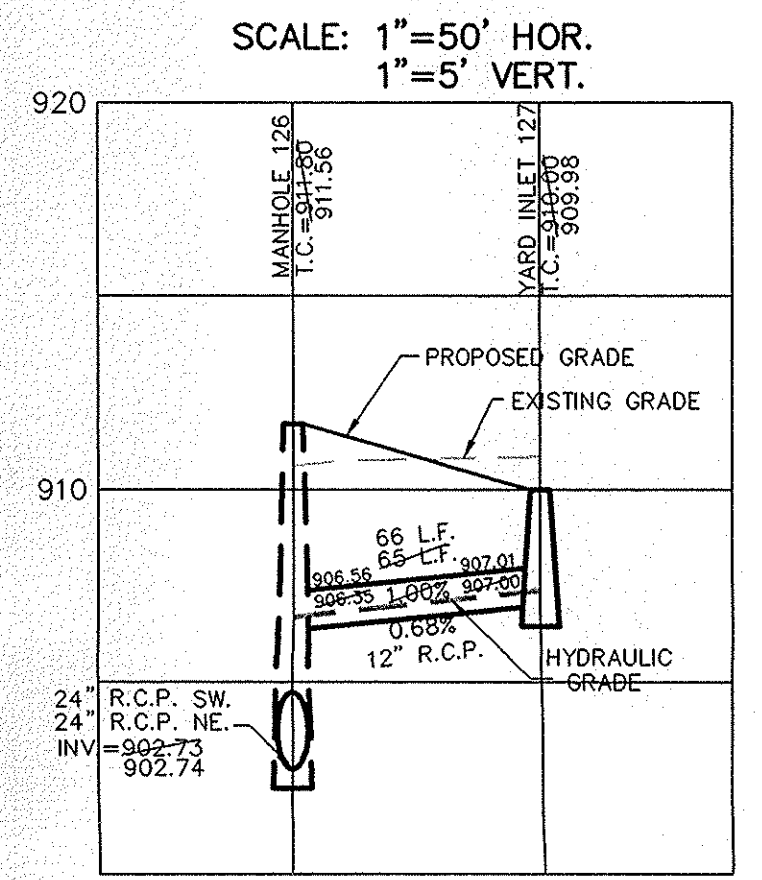
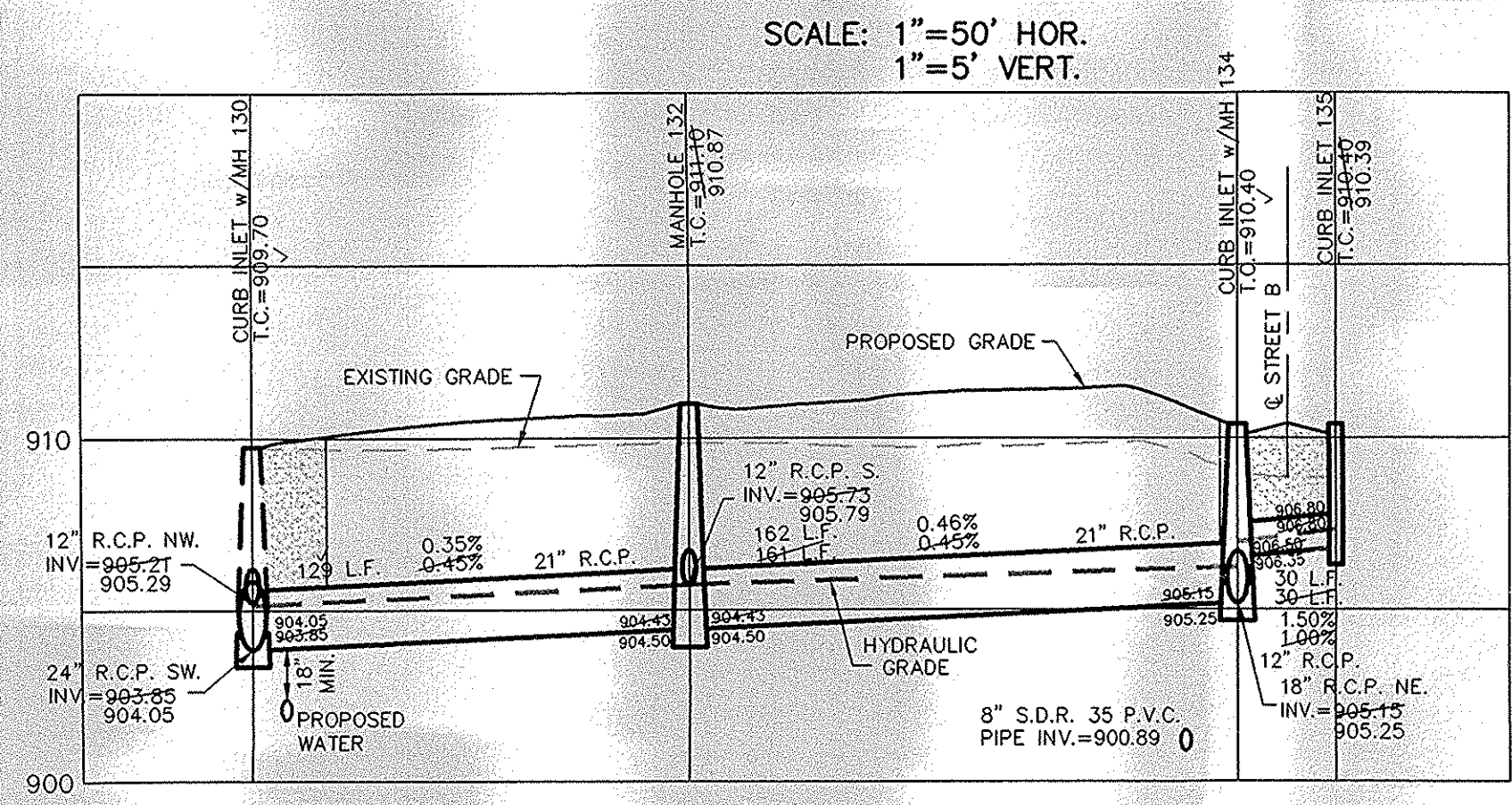
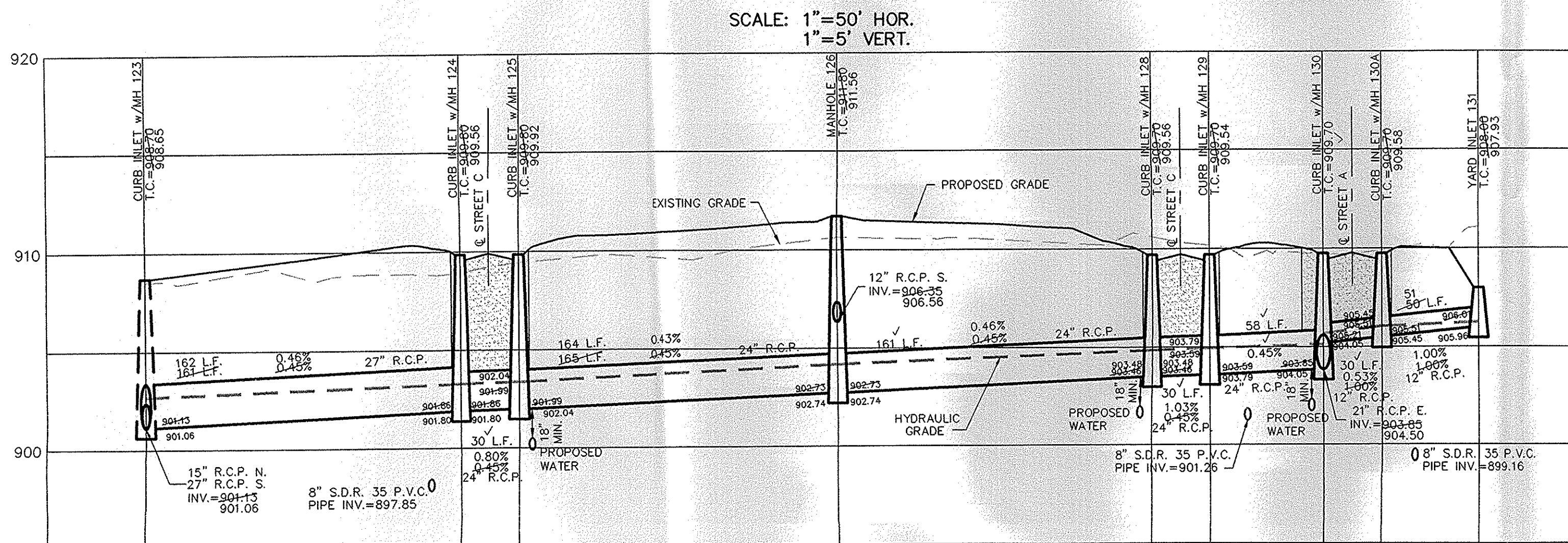
*Jeffrey W. Darling*  
 JEFFREY W. DARLING  
 Registered Land Surveyor  
 No. 900017



CERTIFIED: 01/04/05  
 DATE: 01/04/05  
 MARK: [Signature]  
 REVISIONS: [Table]

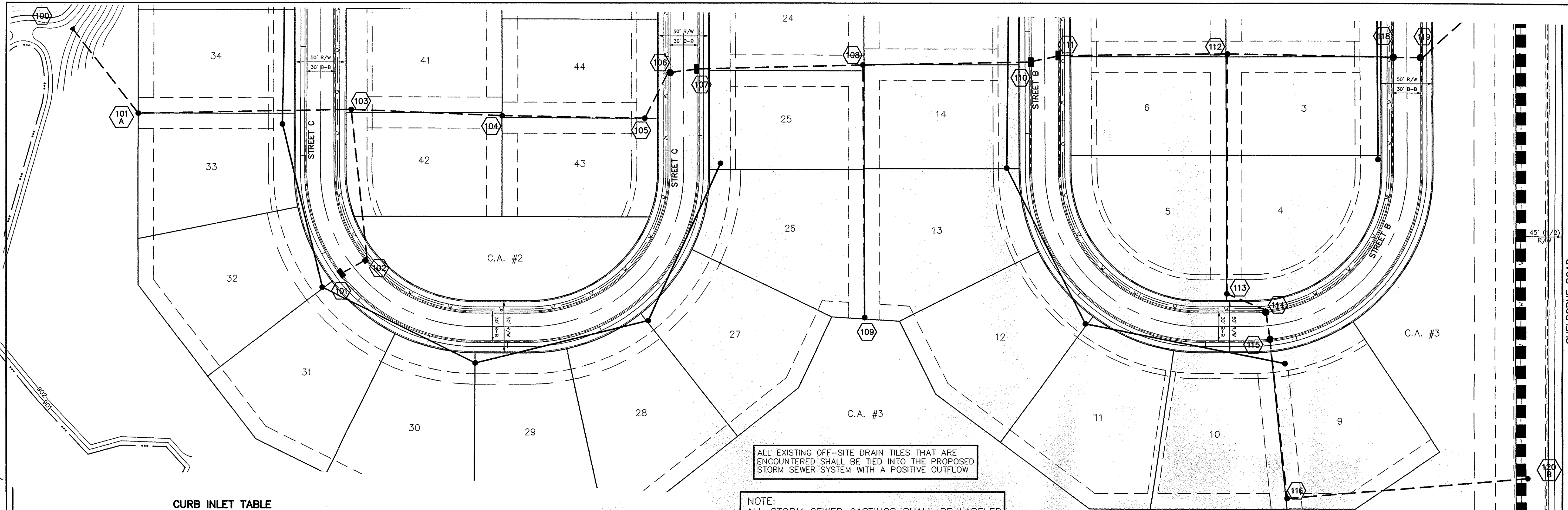


NOTE: FOR INSTALLATION OF STORM MAINS, WATER MAINS, SANITARY MAINS, WATER SERVICE LATERALS, SANITARY SERVICE LATERALS UNDER CITY STREETS, REGARDLESS OF THE JURISDICTION OF THE UTILITY, THE MINIMUM COVER FROM THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVEMENT SECTION THICKNESS (ALL BITUMINOUS AND AGGREGATE MATERIAL ABOVE THE SUBGRADE) PLUS 1'-0". IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS MORE STRINGENT COVER REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.



INDIANA  
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 FISHERS  
 STORM SEWER PLAN & PROFILE  
 LONGRIDGE ESTATES  
 SECTION ONE  
 CARMEL

SHEET NO. C600  
 JOB NO. 47425S1



CERTIFIED: 01/04/05  
 David J. Stapp  
 PROFESSIONAL ENGINEER

DATE	BY	REVISIONS
01/04/05	DAH	AS BUILT
11/14/05	EEF	REVISED FOR CITY COMMENTS
5/20/05	EEF	REVISED FOR DEVELOPER
4/20/05	EEF	REVISED FOR TAC COMMENTS
1/15/05	DAH	DATE
01/04/05	DAH	MARK

ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SEWER SYSTEM WITH A POSITIVE OUTFLOW

NOTE:  
 ALL STORM SEWER CASTINGS SHALL BE LABELED "DUMP NO WASTE-DRAINS TO WATERWAY"

CURB INLET TABLE

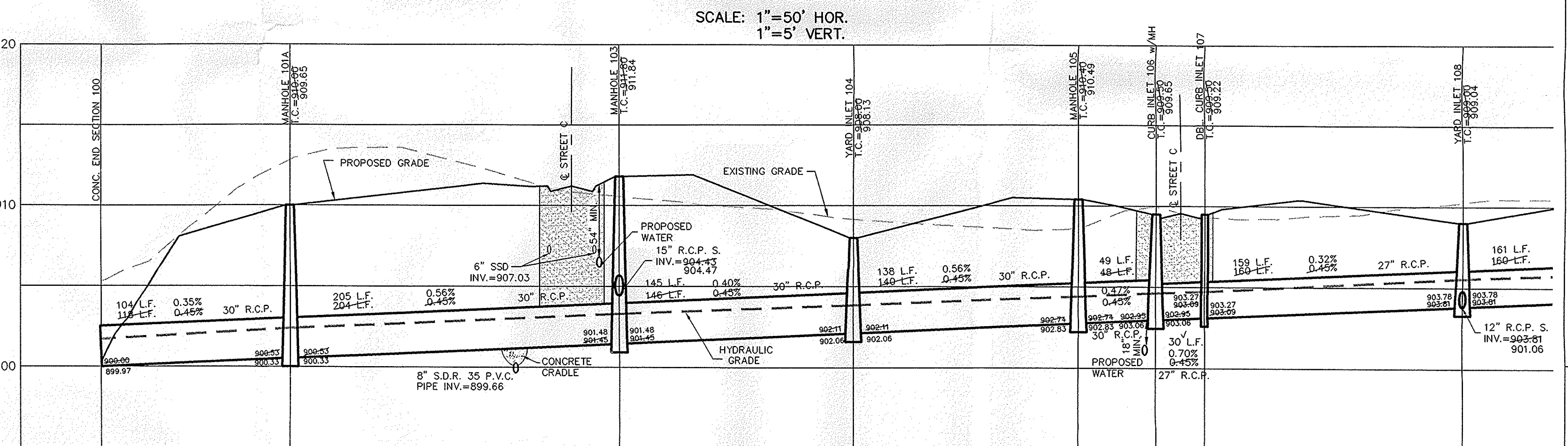
PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-3501 N	CASTING *3501 TL & TR
12" to 18"	24"x24"		DESIGN APPROVAL	No	Yes	Yes
12" to 21"	30"x30"		DESIGN APPROVAL	No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

NOTE:  
 CONSTRUCTION TOLERANCE FOR YARD INLETS WILL BE +0.0' TO -0.20'

NOTE:  
 \*EXCEPT FOR FORCE MAINS, CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES AND STORM SEWERS IS 18" OR LESS."

ALL MANHOLES TO BE CONSTRUCTED WITH ONE 4" RISER (NO MORE, NO LESS) RING TO ESTABLISH PLAN CASTING GRADE.

\* 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.  
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 STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES  
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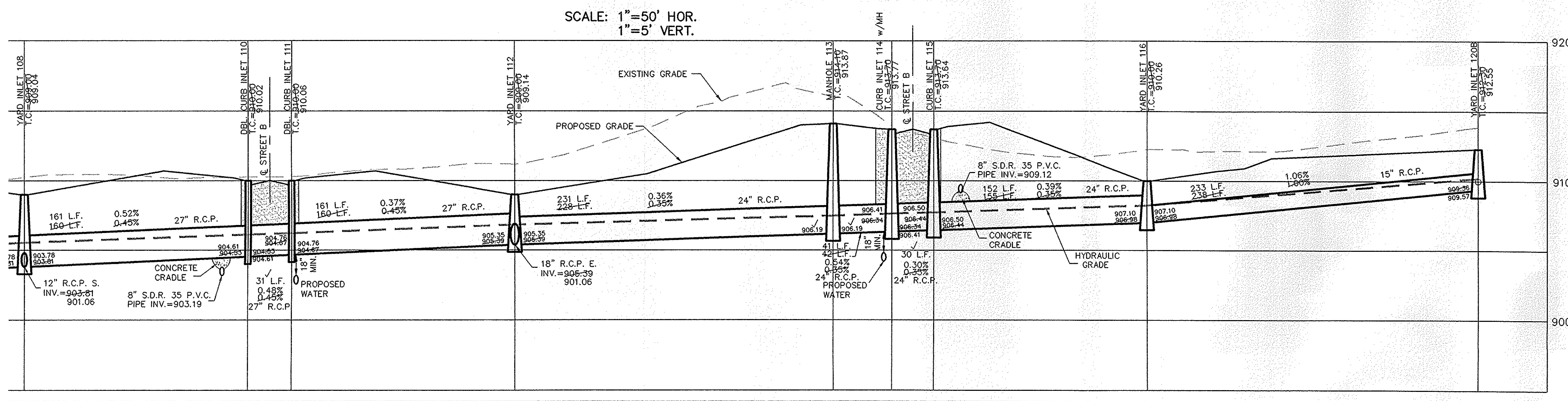
SCALE: 1"=50' HOR.  
 1"=5' VERT.

RECORD DRAWING

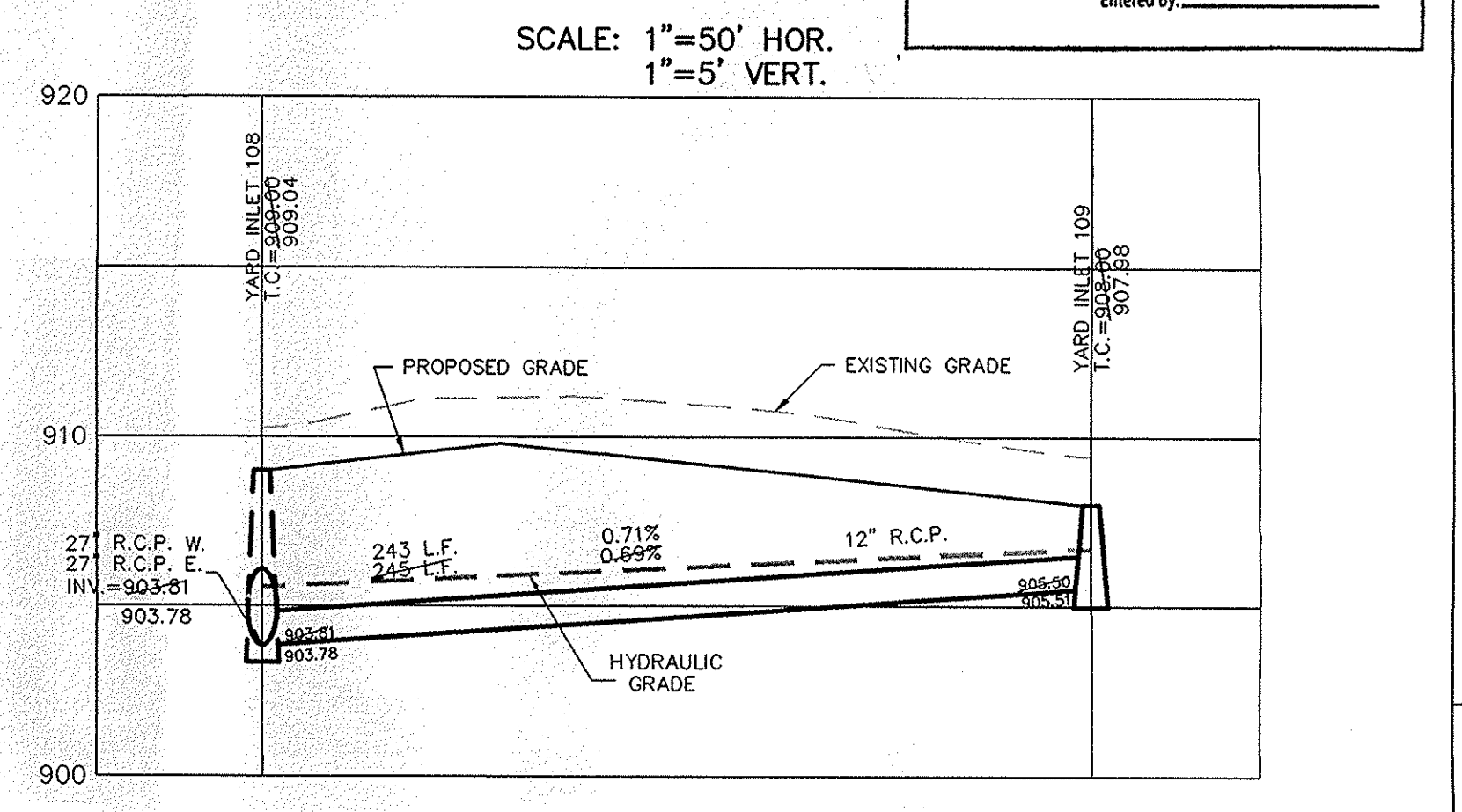
Jeffery W. Darling  
 JEFFERY W. DARLING  
 Registered Land Surveyor  
 No. 900017



NOTE:  
 FOR INSTALLATION OF STORM MAINS, WATER MAINS, SANITARY MAINS, WATER SERVICE LATERALS, SANITARY SERVICE LATERALS UNDER CITY STREETS, REGARDLESS OF THE JURISDICTION OF THE UTILITY, THE MINIMUM COVER FROM THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVEMENT SECTION THICKNESS (ALL BITUMINOUS AND AGGREGATE MATERIAL ABOVE THE SUBGRADE) PLUS 1'-0", IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS MORE STRINGENT COVER REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.



SCALE: 1"=50' HOR.  
 1"=5' VERT.



SCALE: 1"=50' HOR.  
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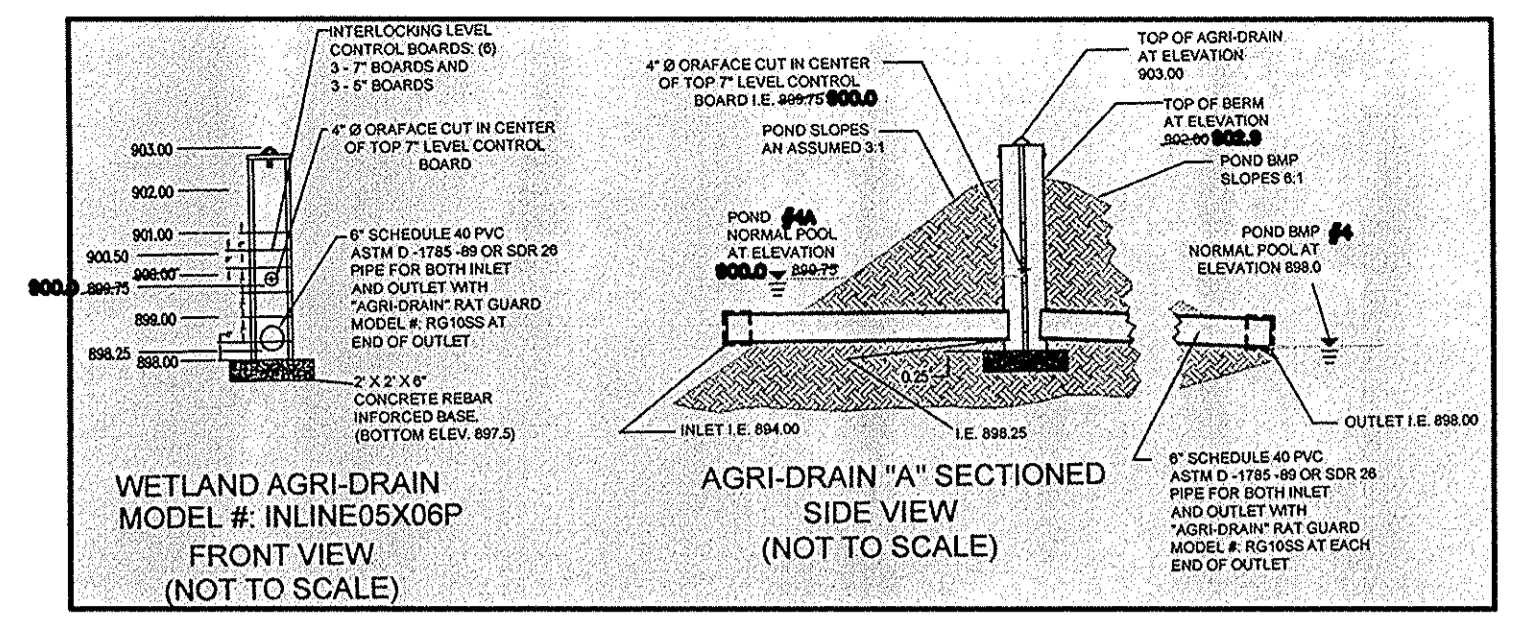
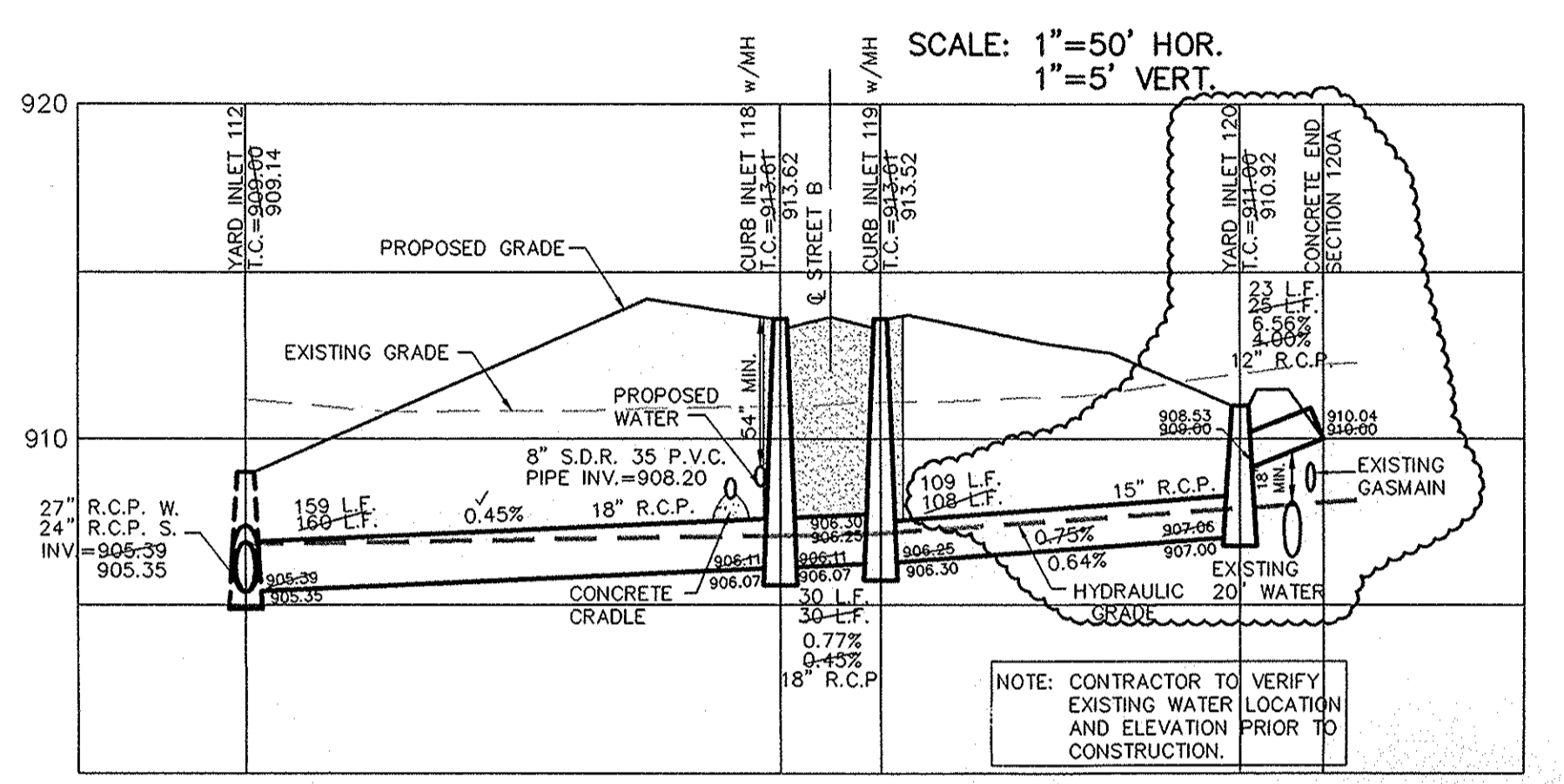
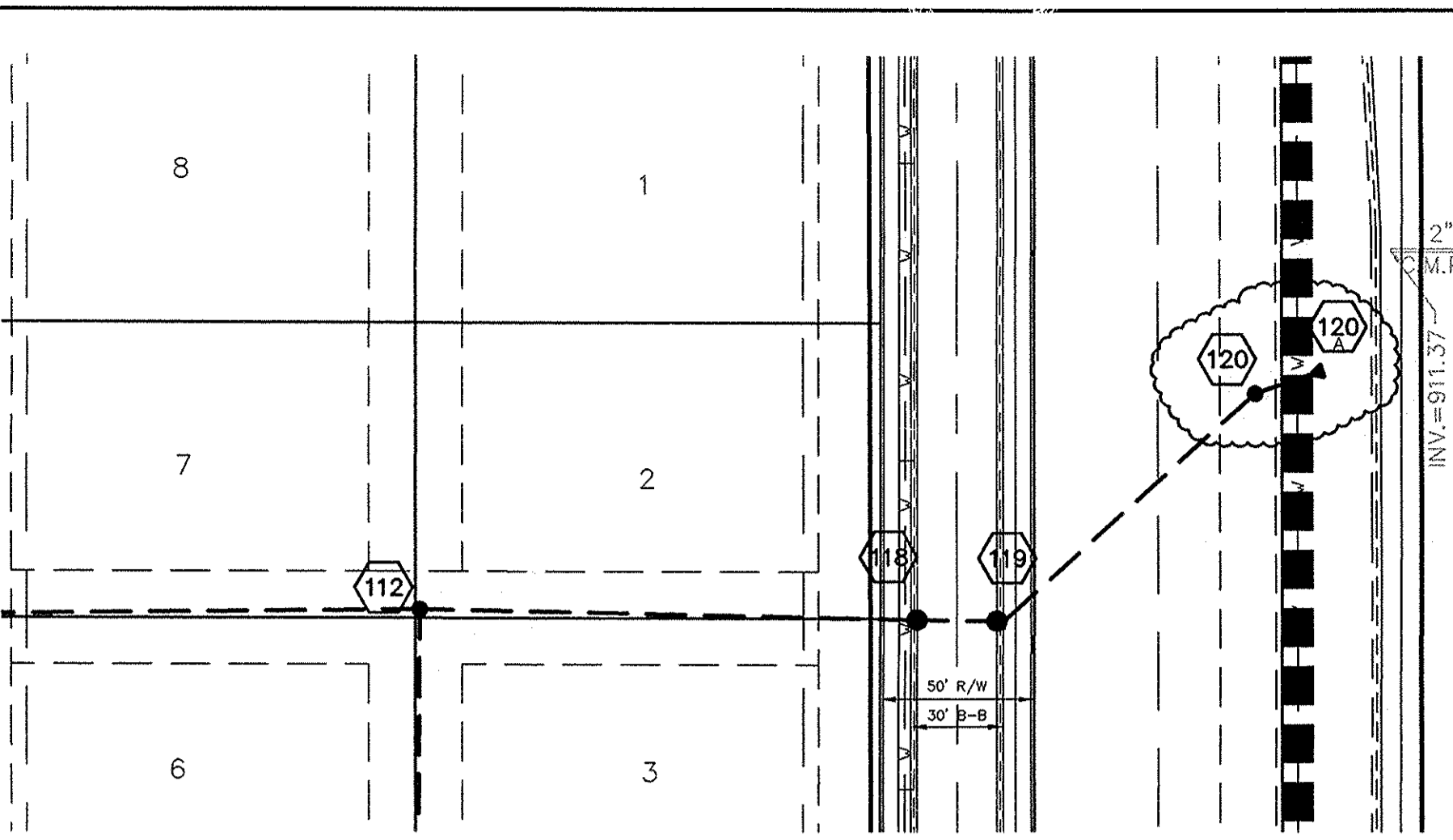
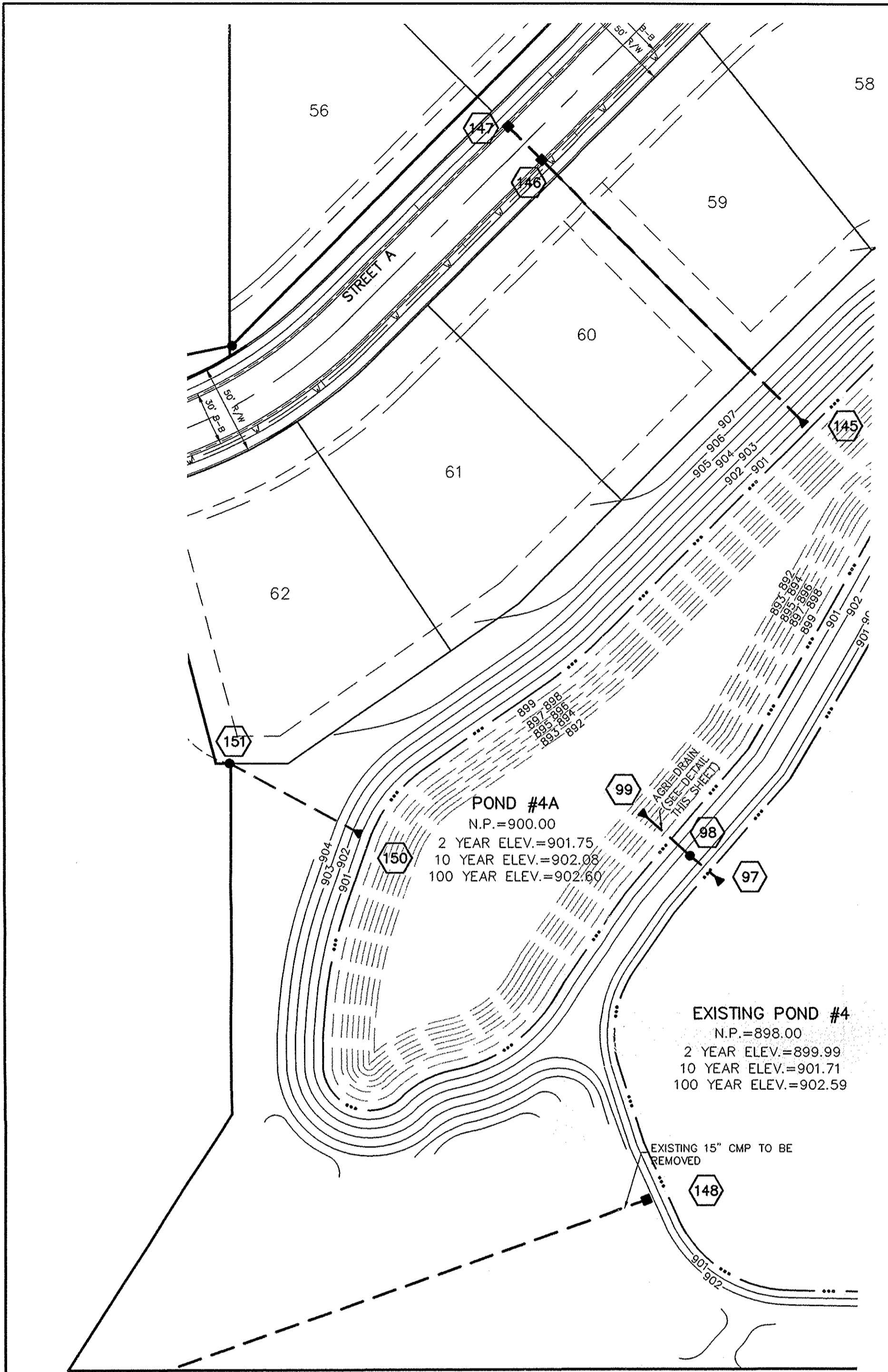
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 FISHERS INDIANA



INDIANA  
 STORM SEWER PLAN & PROFILE  
 LONGRIDGE ESTATES  
 SECTION ONE  
 CARMEL

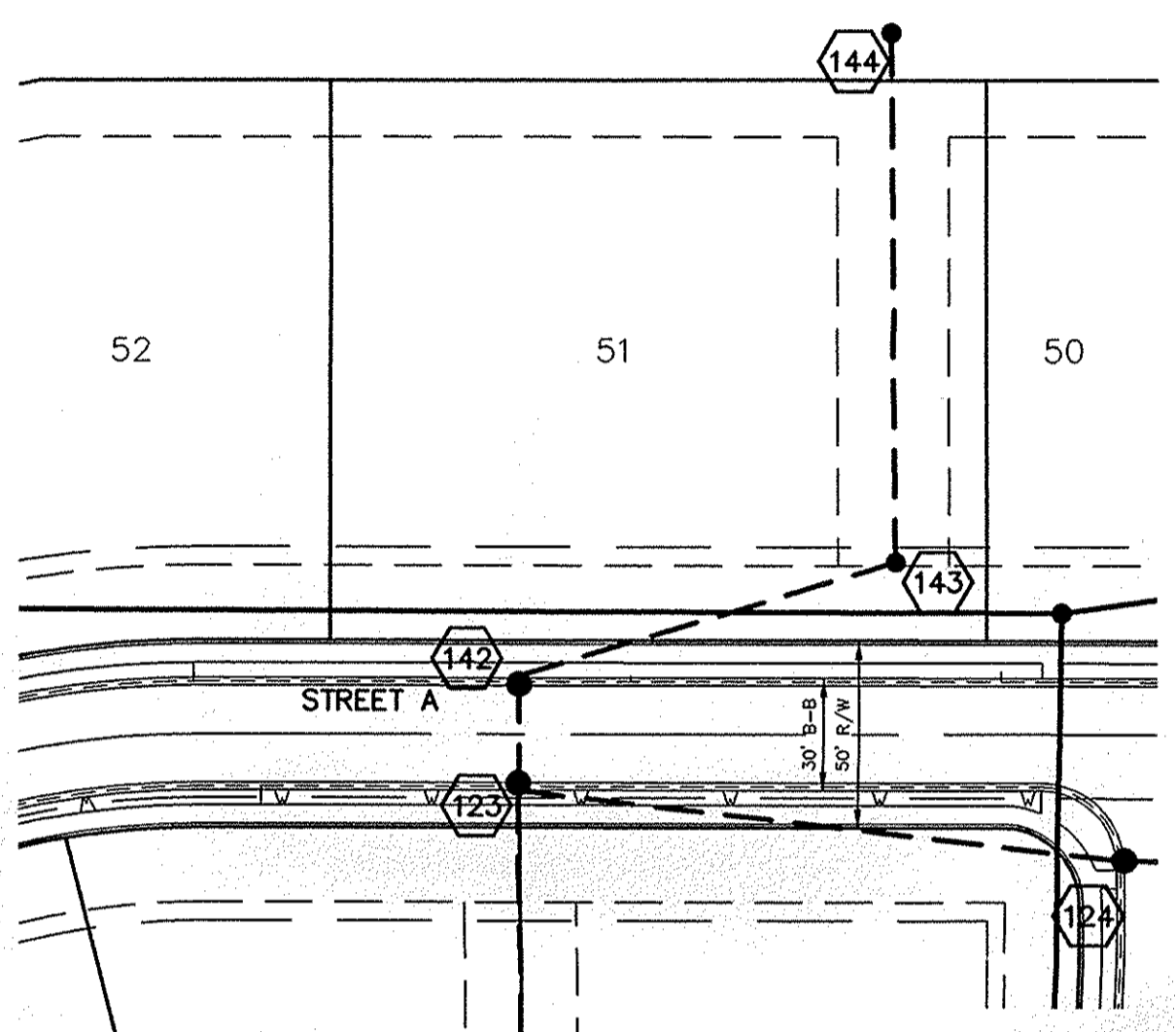
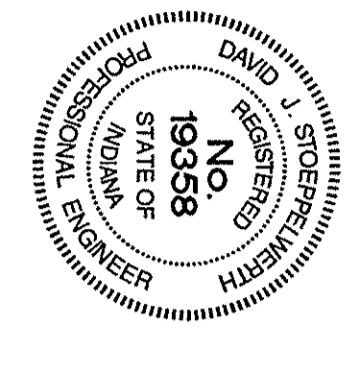
SHEET NO.  
**C601**  
 JOB NO. 4742551



NOTE: CONSTRUCTION TOLERANCE FOR YARD INLETS WILL BE +0.0' TO -0.20'

NOTE: \*EXCEPT FOR FORCE MAINS, CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES AND STORM SEWERS IS 18" OR LESS.\*

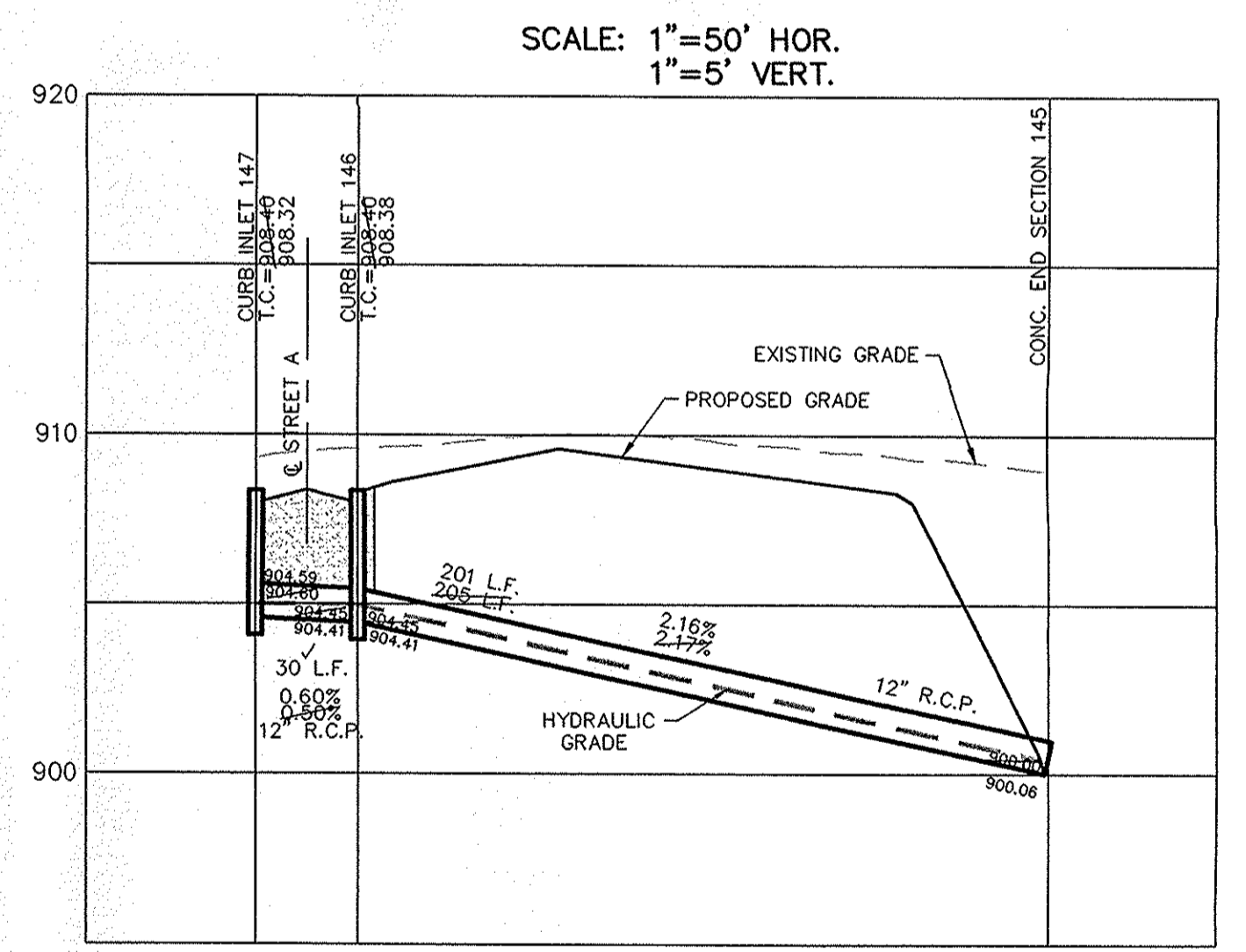
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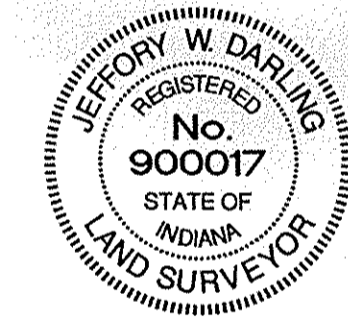
NOTE: ALL STORM SEWER CASTINGS SHALL BE LABELED "DUMP NO WASTE-DRAINS TO WATERWAY".



# RECORD DRAWING

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

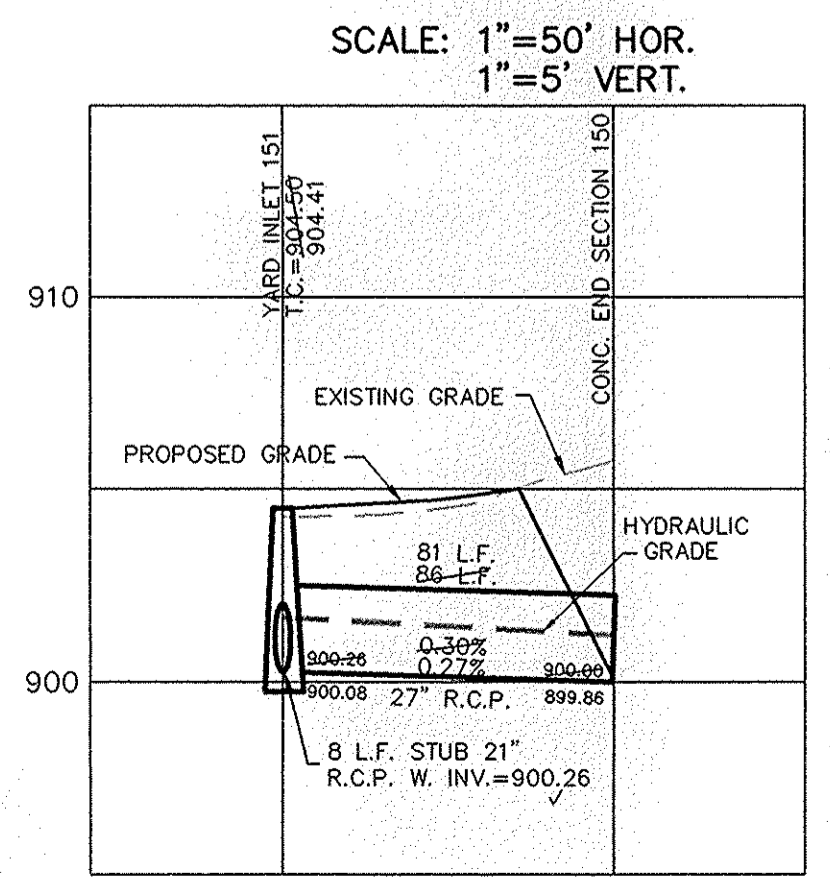
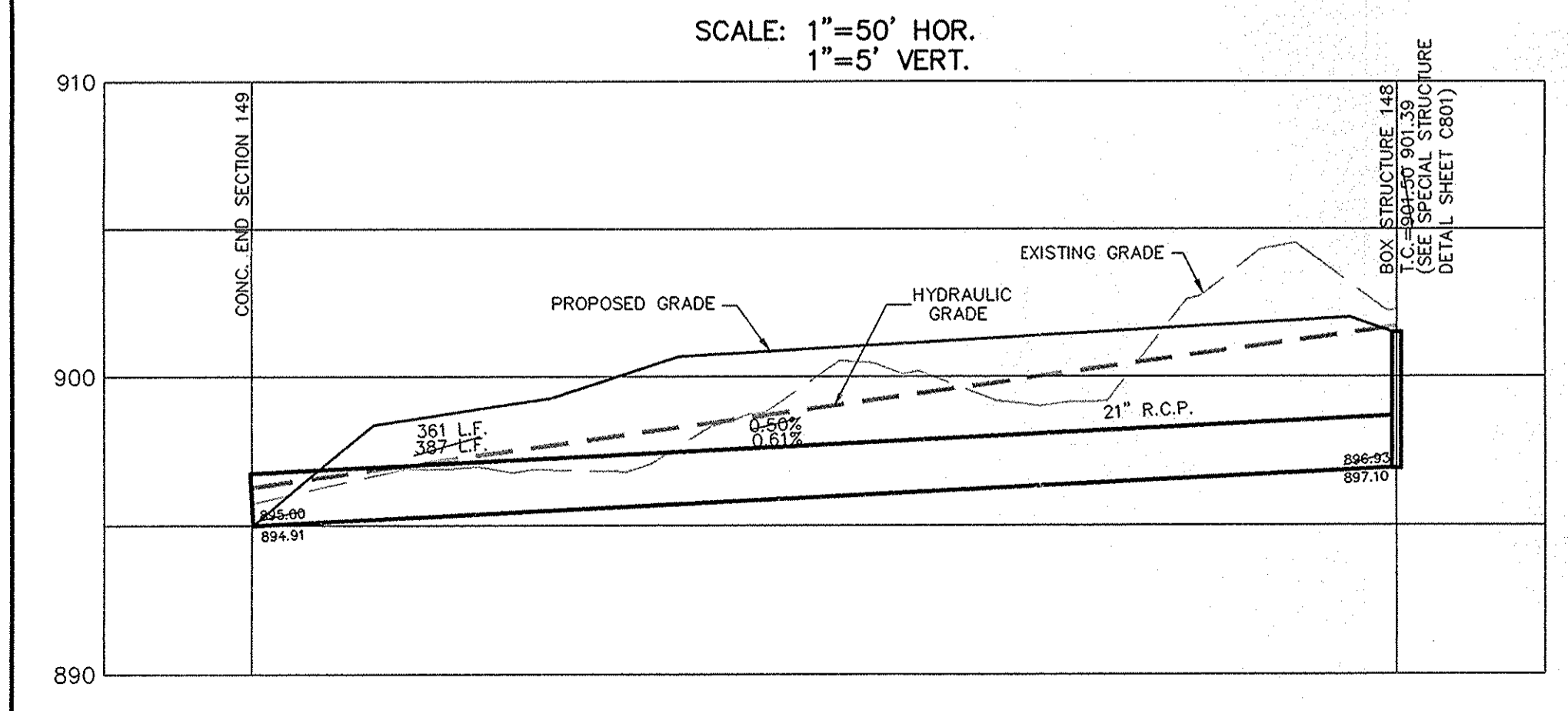
7/24/06 DATE



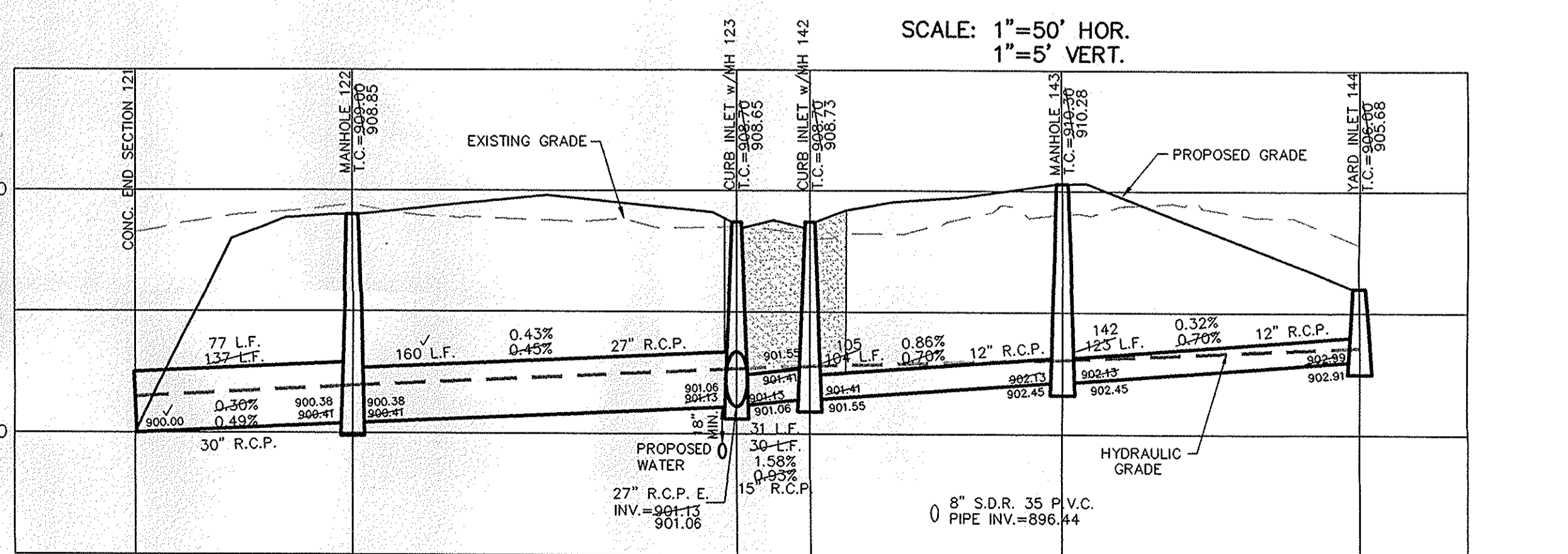
PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-3501 N	CASTING *3501 TL & TR
12" to 18"	24"x24"		DESIGN APPROVAL	No	Yes	Yes
12" to 21"	30"x30"		DESIGN APPROVAL	No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



This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.  
Entry Date: 7-24-06  
Entered By: SLM



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