

Drain: OAK MANOR DRAIN Drain #: 337
 Improvement/Arm: OAK MANOR - SECTION 1
 Operator: JOH Date: 3-30-04
 Drain Classification: Urban/Rural Year Installed: 2002

GIS Drain Input Checklist

- Pull Source Documents for Scanning JA 3-30
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains JA 4-12
- Digitize & Attribute SSD JA 4-12
- Digitize & Attribute Open Ditch JA 4-12
- Stamp Plans JA 4-12
- Sum drain lengths & Validate JA 4-12
- Enter Improvements into Posse JA 4-12
- Enter Drain Age into Posse JA 4-23
- Sum drain length for Watershed in Posse JA 4-23
- Check Database entries for errors JA 4-12

**Gasb 34 Footages for Historical Cost
Drain Length Log**

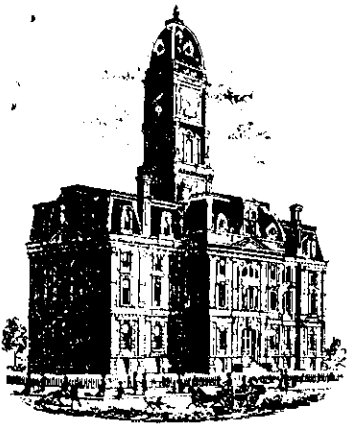
Drain-Improvement: OAK MANOR DRAIN - OAKMANOR - SECTION 1

Drain Type:	Size:	Length SURVEYORS RECORDS	Length (DB Query)	Length Reconcile	Price:	Cost:
*SSD	6"	8,413'	7,358'	-1,055'		
RCP	12"	1,780'	1,780'	∅		
	15"	503'	503'	∅		
	18"	464'	464'	∅		
	21"	326'	326'	∅		
	24"	1,081'	1,081'	∅		
	27"	110'	110'	∅		
	30"	287'	287'	∅		
CMP	15"	91'	91'	∅		
	36"	30'	30'	∅		
OPEN DITCH		15'	15'	∅		

Sum: 13,100' 12,045' -1,055'

Final Report: *13,100.00

Comments:
SR AND AD DISAGREE FOR 6" SSD LENGTH
* Street lengths were miscalculated * for ssd.



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*

June 10, 2002

To: Hamilton County Drainage Board

Re: Oak Manor Drain

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Oak Manor Drain. I have reviewed the submittals and petition and have found each to be in proper form.

I have made a personal inspection of the land described in the petition. Upon doing so, I believe that the drain is practicable; will improve the public health; benefit a public highway and be of public utility; and that the costs, damages, and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited. The drain will consist of the following:

6" SSD	9,313 ft	18" RCP	464 ft	27" RCP	111 ft
12" RCP	1,775 ft	21" RCP	325 ft	30" RCP	292 ft
15" RCP	501 ft	24" RCP	1,162 ft	36" CMP	30 ft
Open Ditch	15 ft				

The total length of the drain will be 13,988 feet.

The open ditch listed above is that area between Str. 600 and the existing 36-inch CMP under Oak Road. The 36 inch CMP listed above is that structure under Oak Road.

The retention pond (lake) located in the Common Area is to be considered part of the regulated drain. The inlet and outlet will be maintained as part of the regulated drain. The maintenance of the pond (lake) will be the responsibility of the Homeowners Association. The Board will however, retain jurisdiction for ensuring the storage volume for which the lake was designed will be retained. Thereby, allowing no fill or easement encroachments.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs. Only the main SSD lines, which are located within the right of way, are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain.

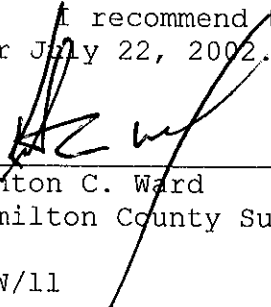
I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$10.00 per acre \$65.00 per lot, \$10.00 per acre for roadways with a \$25.00 minimum and \$10.00 per acre for common areas with a \$65.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$4,715.40.

Parcels assessed for this drain may be assessed for the Wheeler & Beals or Cool 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. This request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat Oak Manor as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for July 22, 2002.



Keriton C. Ward
Hamilton County Surveyor

KCW/11

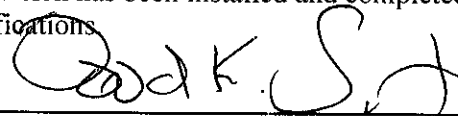
CERTIFICATE OF COMPLETION AND COMPLIANCE

TO: HAMILTON COUNTY SURVEYOR
RE: Oak Manor

I hereby certify that:

1. I am a Register 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, and
4. To the best of my knowledge, information and belief, the Drainage Facilities within the subdivision has been installed and completed in conformity with all plans and specifications

Signature: _____



Date: August 29, 2003

Type or print name: David K. Sexton, P.E.

Business /Address: The Schneider Corporation

12821 E. New Market Street, Suite 100, Carmel, IN 46032

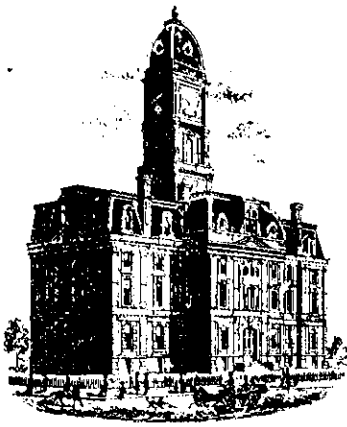
Telephone: (317) 569-8112

SEAL



INDIANA REGISTRATION NUMBER

PE 9500028



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

February 5, 2005

Re: Oak Manor Drain: Section 1 Arm

Attached are as-builts, certificate of completion & compliance, and other information for Oak Manor 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 June 10, 2002. The report was approved by the Board at the hearing held August 29, 2003. (See Drainage Board Minutes Book 6, Pages 412-415)

The changes are as follows:

Structure:	T.C.:	I.E.:	Pipe:	Length:	Original Plans:	Difference:
678	874.86	871.66				
677	879.43	870.12	12	141	139	2
677	879.43	868.67				
676	877.55	868.5	12	50	48	2
676	877.55	868.44				
675	877.58	868.22	12	31	32	-1
675	877.58	868.18				
661	871.55	867.72	15	118	119	-1
661	871.55	867.65				
660		866.94	27	110	111	1
670	875.57	871.52				
665	874.83	869.99	12	71	70	1
665	874.83	869.39				
664	876.43	868.85	18	148		
664	876.43	868.85				
663	875.33	868.73	18	23	24	-1
663	875.33	868.59				
662	875.26	868.33	21	28		
662	875.26	868.24				
661	871.55	867.72	24	158	159	-1
669	875.7	872.7				
668	875.99	871.99	12	69	70	-1
668	875.99	871.99				

667	874.54	871.59	12	76		
667	874.54	870.43				
666	874.54	869.84	12	58		
666	874.54	869.84				
665	874.83	869.41	15	124	121	3
671	874.08	872.34				
668	875.98	871.98	12	48		
613	875.22	871.23				
612	877.48	870.54	12	54		
612	877.48	870.54				
611	875.65	868.17	12	177	174	3
611	875.65	868.17				
610		866.8	12	88	92	-4
616	874.54	871.6				
615		867.37	12	78	81	-3
655		866.74				
656	880.06	867.54	18	195	194	1
656	880.06	867.54				
657	879.99	867.79	18	31		
657	879.99	867.64				
658	870.14	868.14	15	119	120	-1
627	876.87	867.33				
635	881.89	867.5	24	145	146	-1
635	881.89	867.5				
636	880.45	867.59	21	61	59	2
636	880.45	867.59				
637	880.48	867.7	21	31		
637	880.48	867.7				
638	881.71	867.78	21	44		
638	881.71	867.78				
639	869.94	868.04	15	111	110	1
639	869.94	868.04				
640		868.7	12	109	116	-7
619		867.1				
620	878.31	874.31	12	152	156	-4
641	874.56	870.67				
632	873.82	868.85	12	93	94	-1
625		866.8				
626	875.06	867.14	30	78	84	-6
626	875.06	867.14				
627	876.87	867.33	30	209	208	1
627	876.87	867.33				
628	876.51	867.77	24	152	153	-1
628	876.51	867.77				
629	879.4	868.11	24	293	292	1
629	879.4	868.11				
630	874.06	868.64	21	134	135	-1
630	874.06	868.64				

631	873.76	868.73	21	28		
631	873.76	868.73				
632	873.82	868.85	18	67	66	1
632	873.82	868.85				
633	873.83	868.93	15	31		
633	873.83	868.93				
634		869.16	12	142	140	2
617		866.28				
618	878.18	874.33	12	142	135	7
606	872.03	869.04				
605		867.12	12	201	192	9
600		865.92				
601	870.03	866.58	24	240		
601	870.03	866.58				
601A		866.65	24	33	Replaced pipe 601-2	*
602A		867.2				
602		867.27	24	60	Replaced pipe 601-2	*
600B		864.91				
600C		864.44	15 CMP	91	Additional pipe	* 91

6" SSD Streets:

Chalet Cir	760
Oak Manor Drive	2115.84
DayLily Ct.	752.64
Cyprian Cir	578
x2	

Total:

8413
7,358'

*600
2015.84
592.64
418*

RCP Pipe Totals:

12	1780
15	503
18	464
21	326
24	1081
27	110
30	287
Other Drain:	
15" CMP	91
36" CMP	30
Open Ditch	15

The length of the drain due to the changes described above is now **13,100 feet**.

***Note:** Original plans called for a run 24" RCP between Str. 601 to 602. This was modified to have Str. 601 have a 33foot run of 24 to endsection 601A. This section of pipe outlets into a wetlands area. This wetlands is not considered a part of the regulated drain. The regulated drain is resumed where with Str. 602 which has a run of 60 feet of 24" RCP to endsection 602A.

***Note:** The offsite proposal for regulated drain west of Oak Road to the Wheeler and Beals was not approved. The property owners worked out an agreement with the developers of this project. This was outlined in the above mentioned drainage board minutes.

The non-enforcement was approved by the Board at its meeting on August 29, 2003 and recorded under instrument #200300074079.

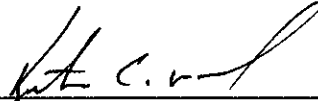
The following sureties were guaranteed by Scheer's, Inc. and released by the Board on its November 24, 2003 meeting.

Bond-LC No: B21853765

Insured For: Storm Sewers, SSD, Erosion Control
Amount: \$223,521.20
Issue Date: April 12, 2002

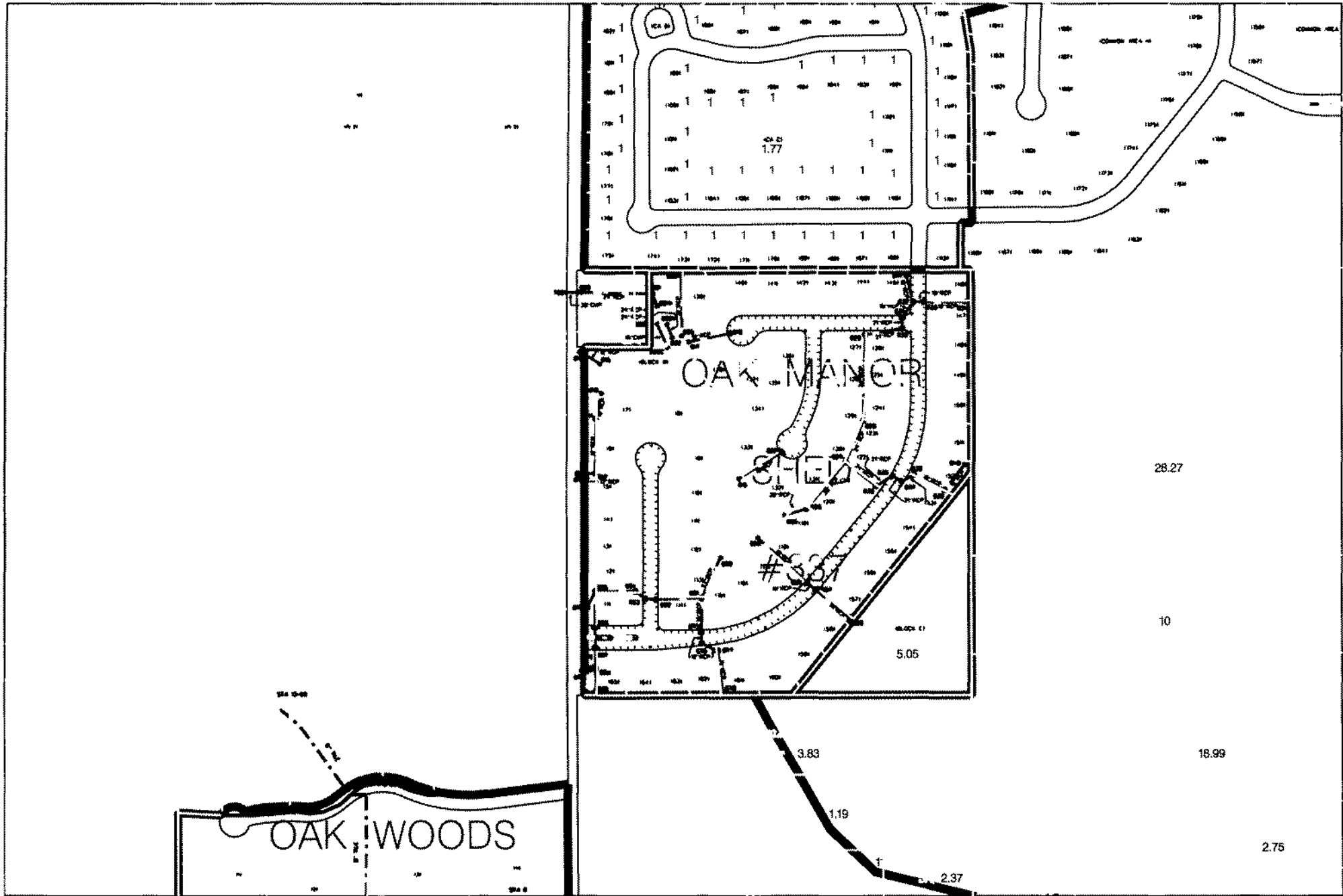
I recommend the Board approve the drain's construction as complete and acceptable.

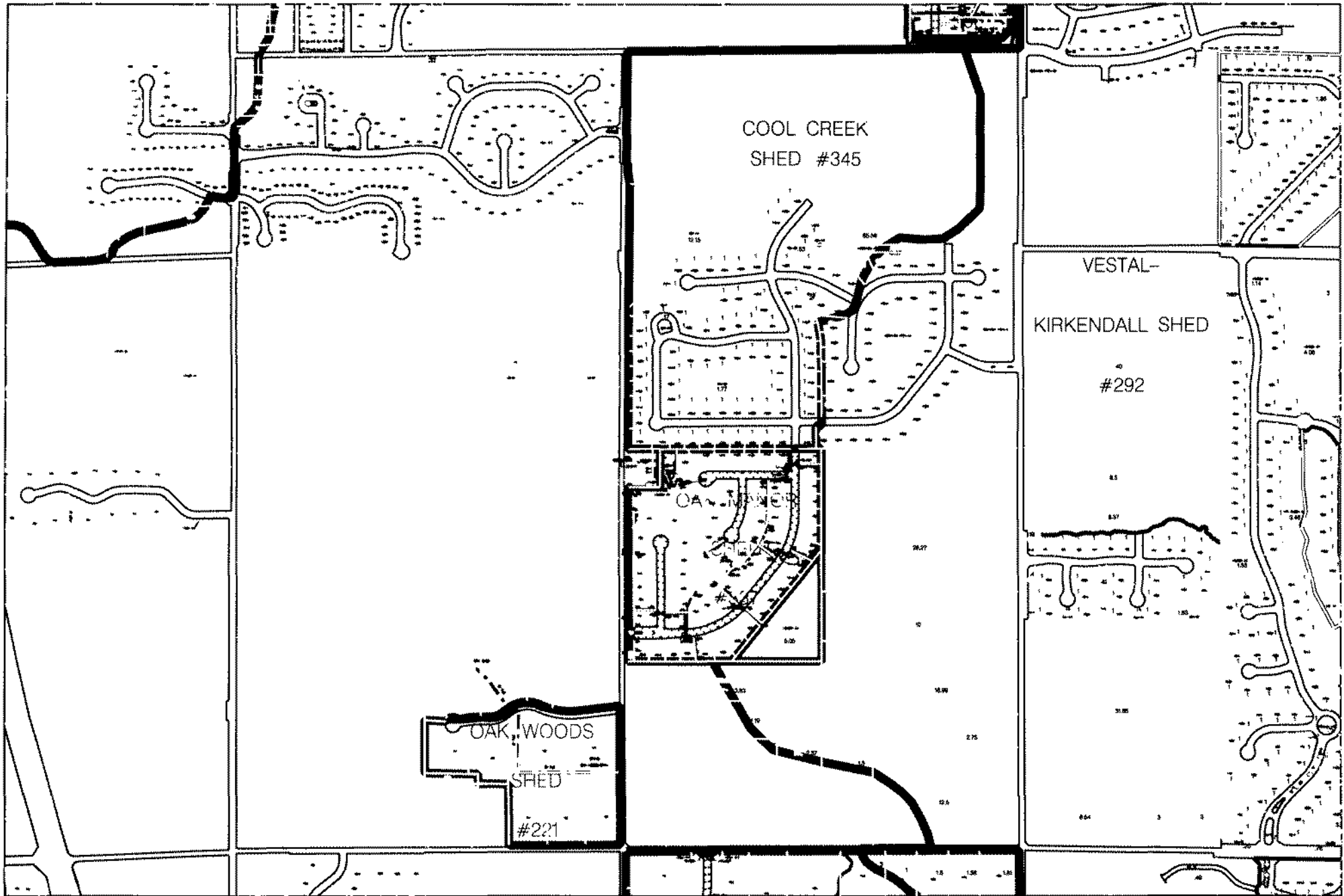
Sincerely,



Kenton C. Ward,
Hamilton County Surveyor

KCW/slm





OAK MANOR

(CONSTRUCTION PLANS) HAMILTON COUNTY WESTFIELD, INDIANA

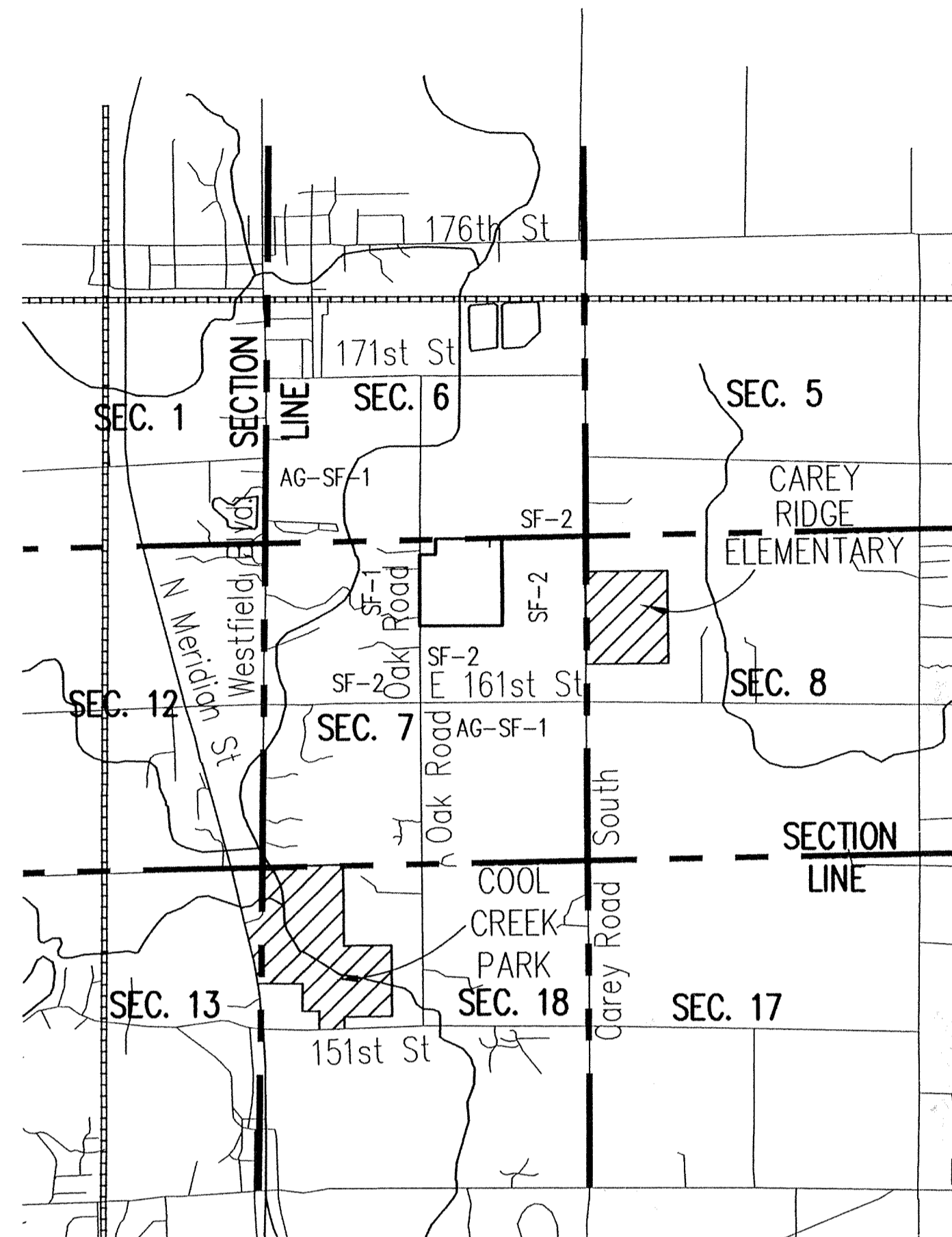
DEVELOPER:

LANGSTON DEVELOPMENT CO. INC.

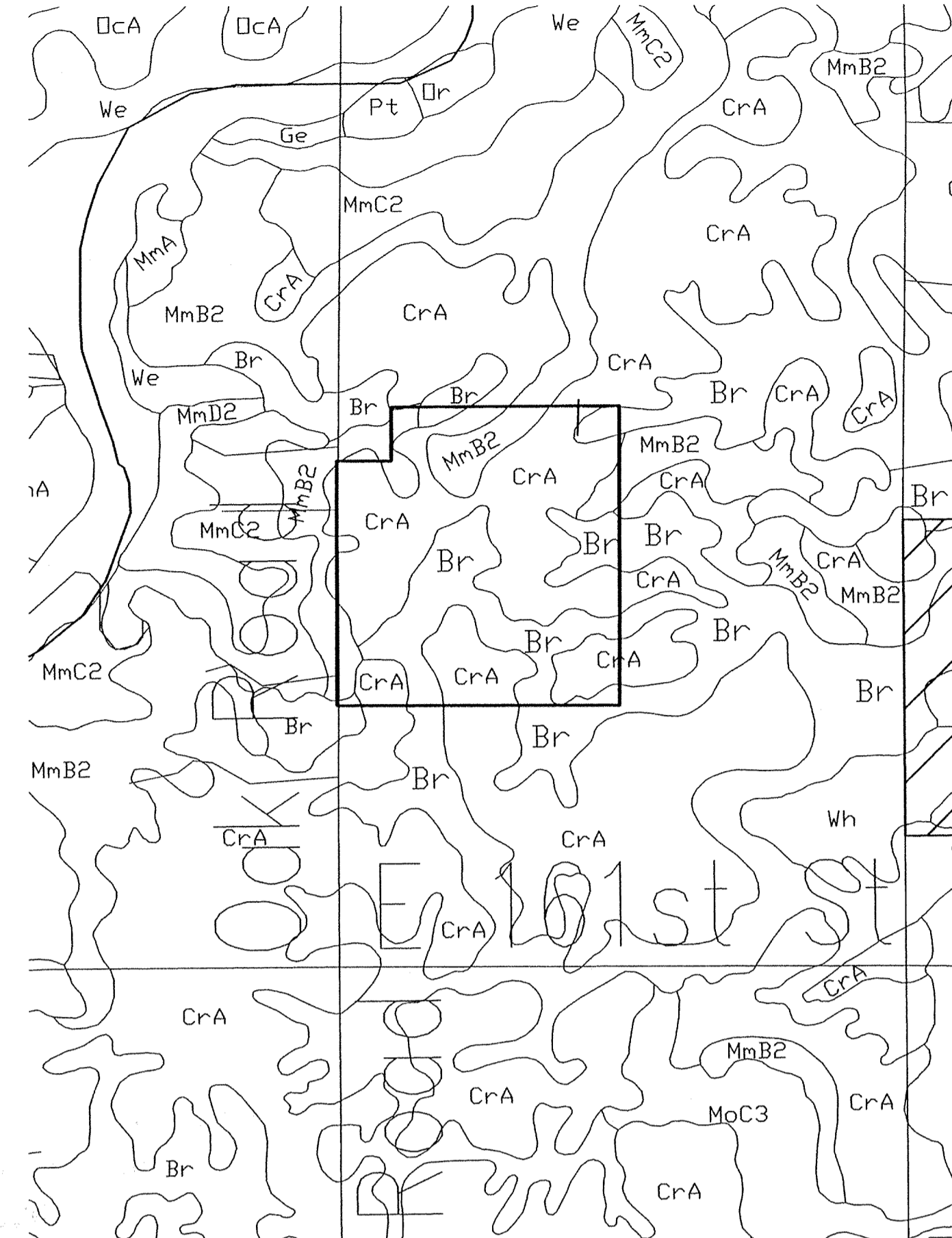
1132 SOUTH RANGELINE ROAD, SUITE 100

CARMEL, INDIANA 46032

(317) 846-7017



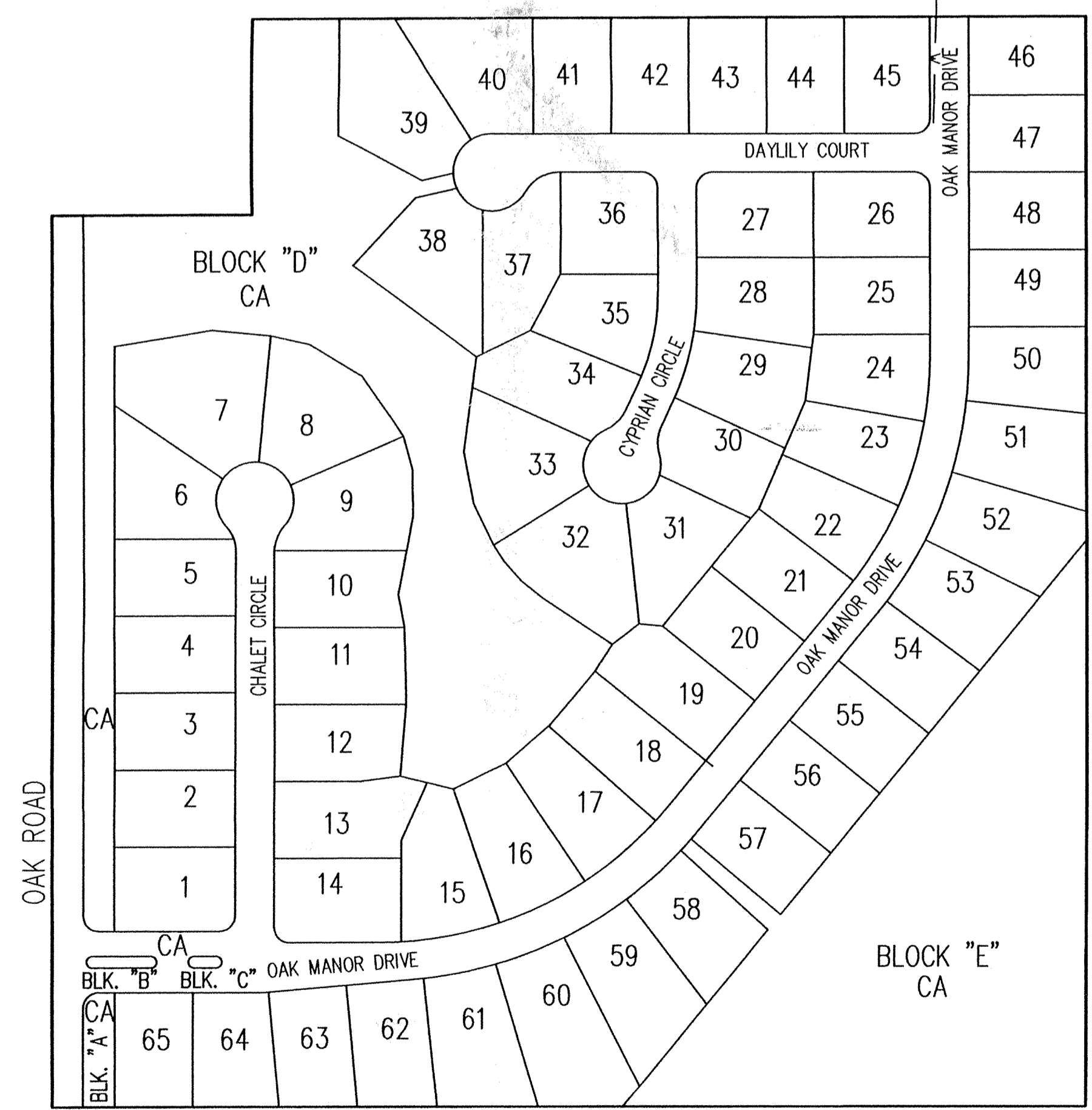
AREA MAP
NOT TO SCALE



SOILS MAP
NOT TO SCALE

SOIL LEGEND

SYMBOL	NAME
Br	Brookston silty clay loam
CrA	Crosby silt loam, 0 to 3 percent slopes
MmB2	Miami silt loam, 2 to 6 percent slopes, eroded



SITE MAP
SCALE: 1"=150'

INDEX	
SHEET No.	DESCRIPTION
C100	COVER SHEET
C101-C102	DEVELOPMENT PLAN
C103	EROSION CONTROL PLAN
C201-C203	STREET PLAN AND PROFILES
C301	ENTRANCE & TRAFFIC OF MAINTENANCE PLANS
C302-C303	INTERSECTION AND CUL-DE-SAC DETAILS
C401-C403	SANITARY SEWER PLAN AND PROFILE
C501	FORCE MAIN PLAN, PROFILE AND DETAILS
C601-C605	STORM SEWER PLAN AND PROFILE
C701-C702	WATER DISTRIBUTION PLAN
C801	STREET DETAILS
C802	SANITARY SEWER DETAILS
C803	STORM SEWER DETAILS
C804	HAMILTON COUNTY DETAILS
C805	EROSION CONTROL DETAILS
C806	WATER DETAILS & SPECIFICATIONS
C901	SPECIFICATIONS

**SUB-SURFACE DRAINAGE
DRAINAGE
STORM SEWERS
RECORD DRAWING**

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: 4-12-04

Entered by: JKH

Schneider

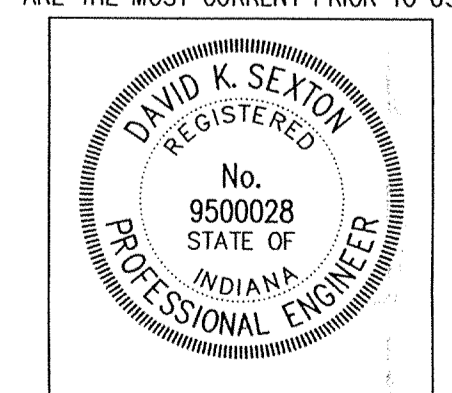
12821 E. New Market Street
Suite 100
Carmel, IN 46032
Telephone: 317.569.8112
Fax: 317.826.6410
www.schneidercorp.com

Architecture
Civil Engineering
Environmental Engineering
Geotechnical Services
GIS * LIS
Home Builder Services
Interior Design
Land Surveying
Landscape Architecture
Transportation Engineering

DATE	BY	DESCRIPTION
3/4/02	DCC	ALL SHEETS
3/20/02	BET	C402, C501, C601, C701 & C702 & C802
3/28/02	BET	C101 & C102
04/08/02	DCC	C101, C102, C603, C804, C605, C803, C804
05/20/02	BET	C101, C102 & C803

CERTIFIED BY: DAVID K. SEXTON
E-MAIL ADDRESS: DSEXTON@schneidercorp.com

THESE DOCUMENTS ARE SUBJECT TO PERIODIC REVISIONS BY THE SCHNEIDER CORPORATION. THE HOLDER IS RESPONSIBLE FOR VERIFYING THAT THESE DOCUMENTS ARE THE MOST CURRENT PRIOR TO USE.



DATE: 8/29/03

SHEET
C100
OF
27

PROJECT ENGINEER: _____
CHECKED BY: _____ DATE CHECKED: _____

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JOB No. 3800.001

UTILITIES - WESTFIELD

GAS
Westfield Gas
606 West Park Street
Westfield, Indiana 46074
(317) 896-2581
Attn: David or Susan Dethon
TELEPHONE

CABLE TV
Insight Communications
15229 Stoner Creek Way
Noblesville, Indiana 46060
(317) 776-0660
Attn: Matt Stringer

Ameltech
5956 North College Avenue
Indianapolis, Indiana 46220
(317) 252-4275
Attn: Mike Maddox & Harold McBride
ELECTRIC

Energy
P.O. Box 312/100 Mill Creek Rd.
Noblesville, Indiana 46060
(800) 521-2232
Attn: Brad Blackman

UTILITY Hotline: within Indiana 1-800-382-5544
outside Indiana 1-800-428-5200

Str.#	Type	T.C.	Invert(s)
655	END SECTION		867.00(18") SE
656	CURB INLET	879.99	867.59(18") NW & SE
657	CURB INLET	879.99	867.66(18") NW, 867.66(15") SE
658	BEEHIVE	869.80	868.00(15") NW
660	END SECTION		867.00(27") SW
661	BEEHIVE	871.00	867.39(27") NE, 867.64(24") W, 867.39(12") S
662	CURB INLET	875.29	868.37(21") W, 868.12(24") E
663	CURB INLET	875.29	868.70(18") NW, 868.45(21") E
664	MANHOLE	876.40	868.81(18") SE & W
665	BEEHIVE	874.50	869.40(18") E, 869.40(15") S, 869.90(12") W
666	CURB INLET	874.42	869.94(15") N, 869.94(12") S
667	CURB INLET	874.42	871.64(12") S, 870.47(12") N
668	MANHOLE	876.10	872.02(12") N, W & S
669	BEEHIVE	875.60	872.60(12") N
670	BEEHIVE	875.70	871.70(12") NE
671	BEEHIVE	874.10	872.27(12") E
672	CURB INLET	877.53	868.10(15") N, 868.10(12") S
676	CURB INLET	877.55	868.42(12") N & SE
677	MANHOLE	879.00	870.31(12") S, 868.56(12") NW
678	BEEHIVE	874.70	871.70(12") N

LEGEND

Existing Storm Sewer
New Storm Sewer
Existing Sanitary Sewer
New Sanitary Sewer
Existing Contour
Existing Elevation
New Pavement Grade
All Other Finish Grades
Match Existing Grades
Storm Structure Number
Sanitary Structure Number

Flow Arrow
6" Subsurface Drain
Swale (ft)
Water Main
Existing Trees
Existing Gas Main
Existing Telephone
Existing Water Main
Existing Flowline
Existing Overhead Utilities

BENCHMARK

BENCHMARK #

Denotes Elevation and Approximate Pad Size

Wlk/O Walk Out Pad
Wn/O Window Out Pad

GENERAL NOTES

- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
- IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATIONS FOR EACH UTILITY BEFORE WORK IS STARTED. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER OR THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
- STANDARD SPECIFICATIONS FOR TOWN OF WESTFIELD UTILITIES SHALL APPLY FOR ALL SANITARY SEWERS AND SPECIFICATIONS FOR TOWN OF WESTFIELD UTILITIES SHALL APPLY FOR ALL STORM SEWERS. ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER PAVED AREAS TO BE BACKFILLED WITH GRANULAR MATERIAL. THE SIZE AND LOCATION OF EXISTING UTILITIES SHOWN ARE PER INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. ALL UTILITY COMPANIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION FOR FIELD LOCATION OF SERVICES.
- SERVICE WALKS SHALL BE NON-REINFORCED CONCRETE 4" THICK AND 4' IN WIDTH.
- CONCRETE SERVICE WALK ACROSS FRONTAGE OF EACH LOT TO BE CONSTRUCTED BY OTHERS.
- EXPANSION JOINTS AREA TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SCORES ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, CONTRACTION JOINTS AND PERPENDICULAR TO SIDEWALKS AT 5' INTERVALS OR LESS WITH A CONTRACTION JOINT EVERY 20' OR LESS.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
- ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
- CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES. REMOVE AND BACKFILL ALL AREAS WHERE ANY FIELD TILE CROSSES PROPOSED HOUSE PADS. ALL FIELD TILES INTERCEPTED TO BE PERPETUATED INTO STORM SEWER SYSTEM OR LAKE. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER IN ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
- ALL FILL AREAS SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D-1557). FILL UNDER THE FOOTING SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D-1557).
- DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, LANDSCAPING MOUNDS, LIGHT POLES OR OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT OF WAY.
- WATER MAIN VALVES SHALL NOT BE LOCATED UNDER STREET PAVEMENT.

ASSUMED NORTH
SCALE: 1" = 50'

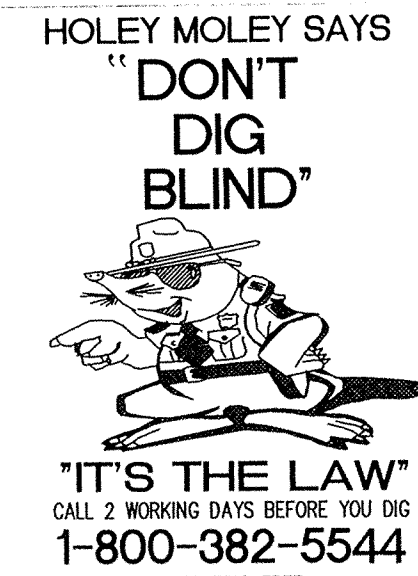
CERTIFICATION FOR GRADING AND DRAINAGE ONLY.

CERTIFIED BY: *[Signature]*

THE SCHNEIDER CORPORATION
12821 EAST NEW MARKET STREET
CARMEL, INDIANA 46032
(317) 569-8112

DATE: 8/29/03

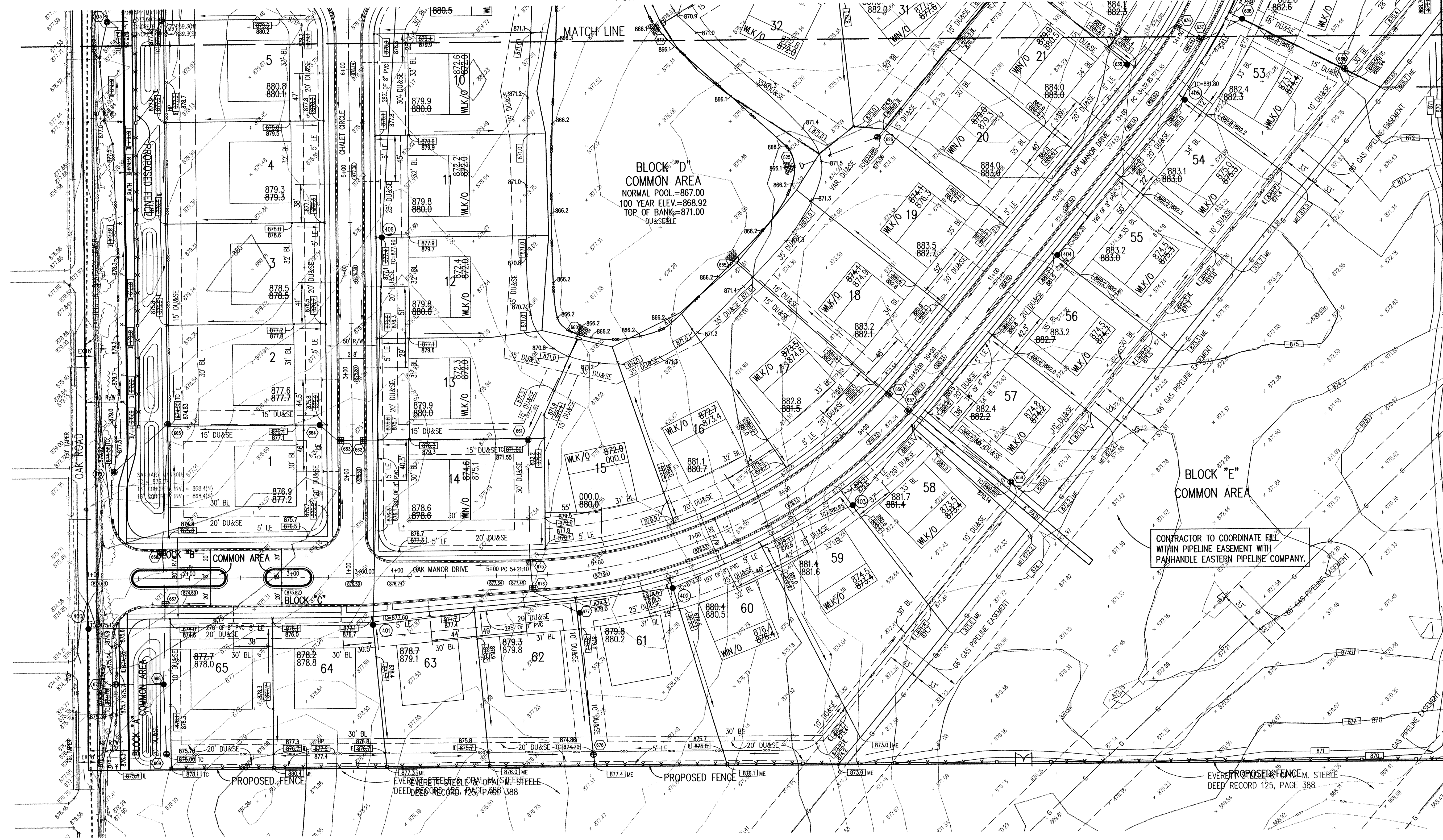
DAVID K. SEXTON
REGISTERED
No. 9500028
STATE OF INDIANA
PROFESSIONAL ENGINEER



"DON'T DIG BLIND"
IT'S THE LAW!
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-382-5544
CALL TOLL FREE
PER INDIANA STATE LAW IS-69-1991,
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.

REVISIONS:
1. DEC. 03/04/02: REVISED PER IAC.
2. DEC. 03/04/02: REVISED PER IAC.
3. DEC. 03/04/02: REVISED PER IAC.
4. DEC. 03/04/02: REVISED PER IAC.
5. DEC. 03/04/02: REVISED PER IAC.
6. DEC. 03/04/02: REVISED PER IAC.
7. DEC. 03/04/02: REVISED PER IAC.

FOR CONTINUATION SEE SHEET C102



**SUB-SURFACE DRAINAGE
DRAINAGE
RECORD DRAWING**

OAK MANOR
16501 OAK ROAD
WESTFIELD, INDIANA

Schneider

THE SCHNEIDER CORPORATION
12821 E. New Market Street
Suite 100
Carmel, IN 46032
Telephone: 317.569.8112
Fax: 317.826.6410
www.schneidercorp.com

Architecture
Civil Engineering
Environmental Engineering
Geotechnical Services
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Home Builder Services
Interior Design
Land Surveying
Landscape Architecture
Transportation Engineering

LANGSTON DEVELOPMENT CO., INC.
WESTFIELD, INDIANA
CARMEL, INDIANA

DATE: 02/13/02 PROJECT NO.: 3800.001
DRAWN BY: DCC CHECKED BY:
SHEET TITLE: DEVELOPMENT PLAN
DRAWING FILES:
N:\AK\3800\001\DWG\C101-102.DWG
XREF: 3800-BUILDING
XREF: 3800001.DWG
XREF: DESIGN.DWG

SHEET NO.: **C101**

UTILITIES - WESTFIELD

GAS
Westfield Gas
606 West Park Street
Westfield, Indiana 46074
(317) 886-2581
Attn: David or Susan Dishop

CABLE TV
Insight Communications
15229 Stony Creek Way
Noblesville, Indiana 46060
(317) 776-0660
Attn: Matt Stringer

TELEPHONE
Ameritech
5858 North College Avenue
Indianapolis, Indiana 46220
(317) 252-4275
Attn: Jeff Rice

WESTFIELD UTILITIES AND STREET DEPARTMENT
2706 East 171st Street
Westfield, Indiana 46074
(317) 886-2581
Attn: Mike Maddox & Harold McBride

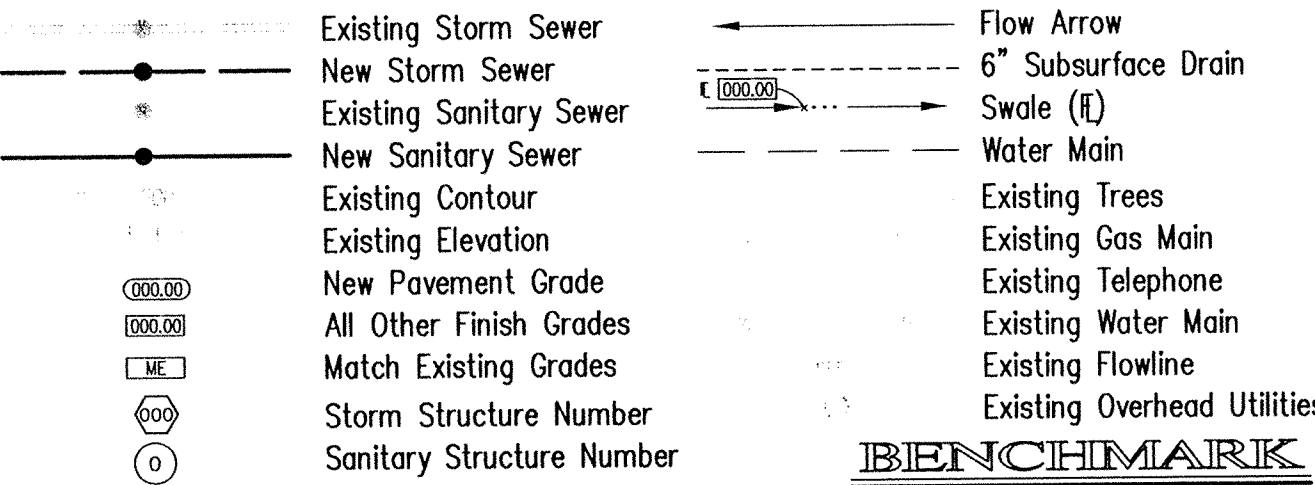
ELECTRIC
Chengy/PSI
P.O. Box 312/100 Hill Creek Road
Noblesville, Indiana 46060
(800) 521-2232
Attn: Brad Blockman

Utility Hotline: within Indiana 1-800-382-5544
outside Indiana 1-800-428-5200

NOTE
The size and location of utilities are per plans and locations provided by the respective utility companies. All utility companies shall be notified prior to any excavation for field location of services.

Str.#	Type	I.C.	Invert(s)
600	END SECTION	866.50	866.18(24") E
601	BEEHIVE	869.50	866.65(24") W & SE
602	END SECTION	867.00	867.00(24") NW
605	END SECTION	867.00	867.00(12") N
606	BEEHIVE	872.00	869.00(12") S
610	END SECTION	867.00	867.00(12") S
611	BEEHIVE	875.00	868.27(12") N & S
612	BEEHIVE	877.30	870.35(12") W & W
613	BEEHIVE	875.00	871.00(12") W
615	END SECTION	874.70	871.70(12") SE
617	END SECTION	867.00	867.00(12") E
618	CURB INLET	878.18	874.18(12") W
619	END SECTION	867.00	867.00(12") NE
620	DOUBLE INLET	878.17	874.17(12") SW
625	END SECTION	867.00	867.00(30") NE
626	BEEHIVE	874.80	867.09(30") SW & NE
627	BEEHIVE	876.30	867.32(30") SW, 867.32(24") NE
628	BEEHIVE	876.30	867.57(24") SW & N
629	MANHOLE	879.40	867.96(24") S & NE
630	CURB INLET	873.53	868.24(21") SW & N
631	CURB INLET	873.53	868.29(21") S & NE
632	CURB INLET	873.68	868.46(18") SW, 868.95(12") NW, 868.46(15") E
633	CURB INLET	873.68	868.58(15") W, 868.58(12") E
634	END SECTION	869.00	869.00(12") W
635	MANHOLE	881.80	867.48(24") NW, 867.49(21") NE
636	CURB INLET	880.40	867.58(21") SW & SE
637	CURB INLET	880.40	867.63(21") NW & NE
638	MANHOLE	881.80	867.69(21") SW, 867.69(15") SE
639	BEEHIVE	869.50	867.95(15") NW, 867.95(12") NE
640	END SECTION	869.00	869.00(12") SW
641	BEEHIVE	874.50	870.50(12") SE

LEGEND



000.0 Denotes Elevation and Approximate Pad Size

WLK/O Walk Out Pad

WN/O Window Out Pad

BENCHMARK

BENCHMARK #

BM #1 - PK NAIL IN THE WEST SIDE OF POWER POLE #80 AT THE SOUTHWEST CORNER OF 161ST STREET AND OAK ROAD
ELEVATION - 875.783

BM #2 - MAG NAIL 1.5' ABOVE GRADE ON THE EAST SIDE OF POWER POLE ON THE WEST SIDE OF OAK ROAD
ELEVATION - 878.003

BM #3 - CUT "SQUARE" ON THE WEST CURB AT THE ENTRANCE OF OAK PARK ENTRANCE LOCATED ON THE SOUTH SIDE OF 161ST STREET
ELEVATION - 870.559

GENERAL NOTES

- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
- IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATIONS FOR EACH UTILITY BEFORE WORK IS STARTED. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER OR THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
- STANDARD SPECIFICATIONS FOR TOWN OF WESTFIELD UTILITIES SHALL APPLY FOR ALL SANITARY SEWERS AND SPECIFICATIONS FOR TOWN OF WESTFIELD UTILITIES SHALL APPLY FOR ALL STORM SEWERS.
- ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER PAVED AREAS TO BE BACKFILLED WITH GRANULAR MATERIAL. THE SIZE AND LOCATION OF EXISTING UTILITIES SHOWN ARE PER INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. ALL UTILITY COMPANIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION FOR FIELD LOCATION OF SERVICES.
- SERVICE WALKS SHALL BE NON-REINFORCED CONCRETE 4" THICK AND 4' IN WIDTH.
- 4" CONCRETE SERVICE WALK ACROSS FRONTAGE OF EACH LOT TO BE CONSTRUCTED BY OTHERS.
- EXPANSION JOINTS AREA TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SCORES ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, CONTRACTION JOINTS AND PERPENDICULAR TO SIDEWALKS AT 5' INTERVALS OR LESS WITH A CONTRACTION JOINT EVERY 20' OR LESS.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
- ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
- CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES. REMOVE AND BACKFILL ALL AREAS WHERE ANY FIELD TILE CROSSES PROPOSED HOUSE PADS. ALL FIELD TILES INTERCEPTED TO BE PERPETUATED INTO STORM SEWER SYSTEM OR LAKE. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER IN ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
- ALL FILL AREAS SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D-1557). FILL UNDER THE FOOTING SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D-1557).
- DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, LANDSCAPING MOUNDS, LIGHT POLES OR OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT OF WAY.
- WATER MAIN VALVES SHALL NOT BE LOCATED UNDER STREET PAVEMENT.

CERTIFICATION FOR GRADING AND DRAINAGE ONLY.

CERTIFIED BY: *David K. Seaton*

THE SCHNEIDER CORPORATION
12821 EAST NEW MARKET STREET
CARMEL, INDIANA 46032
(317) 569-8112

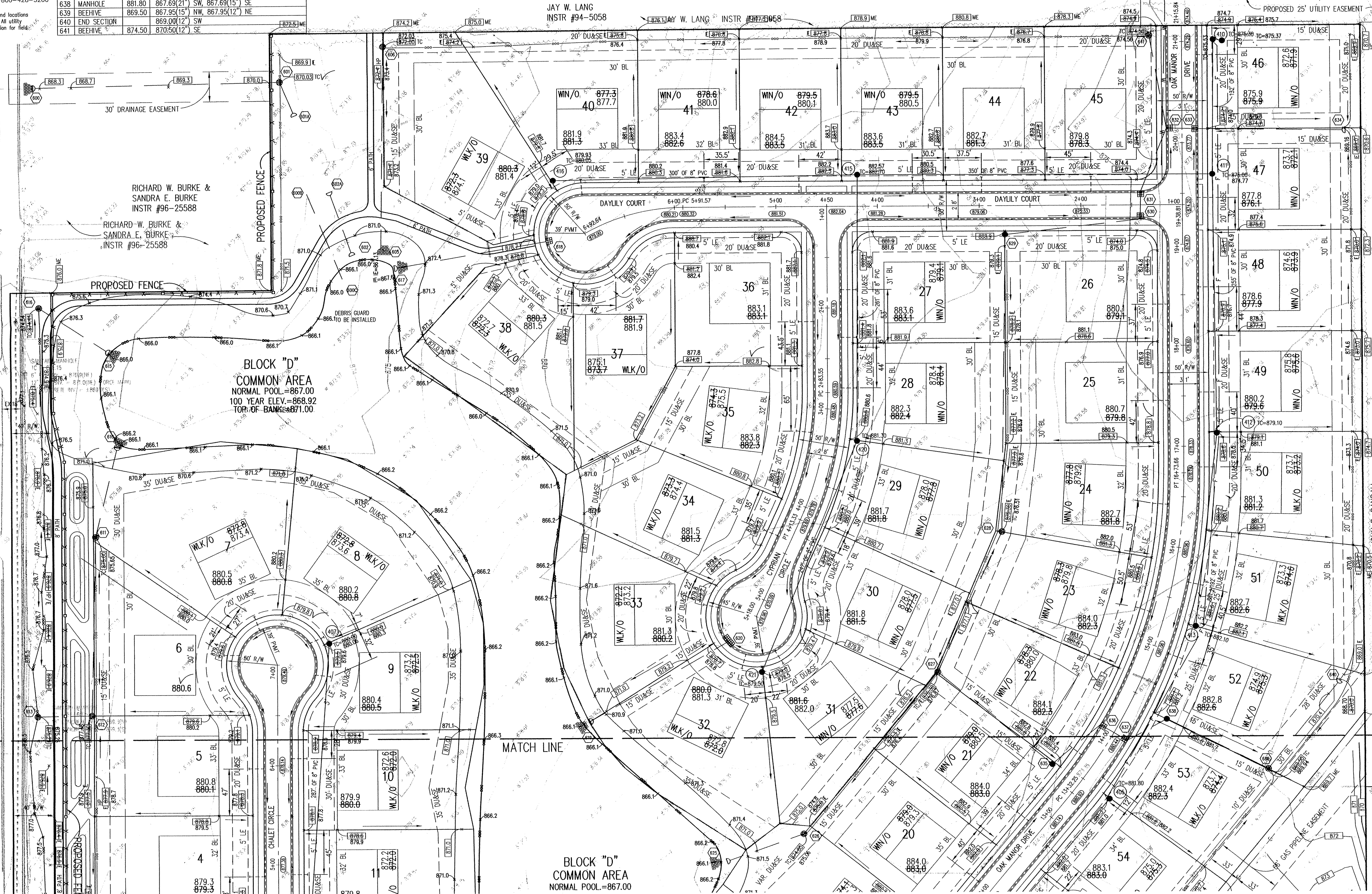
DAVID K. SEATON
REGISTERED
No. 9500028
STATE OF INDIANA
PROFESSIONAL ENGINEER

DATE: 02/13/02

HOLEY MOLEY SAYS "DON'T DIG BLIND"

"IT'S THE LAW" CALL 2 WORKING DAYS BEFORE YOU DIG 1-800-382-5544 CALL TOLL FREE

PER INDIANA STATE LAW IS-69-1891, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



ASSUMED NORTH SCALE: 1" = 50'

SUB-SURFACE DRAINAGE RECORD DRAWING

PHASE I
PHASE II

REVISIONS:
1. DATE: 02/13/02
2. BY: DCC
3. REASON: REVISION PER HAMILTON CO. SURVEYOR
4. DATE: 02/13/02
5. BY: DCC
6. REASON: REVISION PER HAMILTON CO. SURVEYOR
7. DATE: 02/13/02
8. BY: DCC
9. REASON: REVISION PER HAMILTON CO. SURVEYOR
10. DATE: 02/13/02
11. BY: DCC
12. REASON: REVISION PER HAMILTON CO. SURVEYOR
13. DATE: 02/13/02
14. BY: DCC
15. REASON: REVISION PER HAMILTON CO. SURVEYOR

DATE: THIS DRAWING AND THE IDEAS, DESIGNS AND CONCEPTS CONTAINED HEREIN ARE THE EXCLUSIVE INTELLECTUAL PROPERTY OF THE SCHNEIDER CORPORATION, AND ARE NOT TO BE USED OR REPRODUCED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF THE SCHNEIDER CORPORATION.

DATE: 02/13/02

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12821 E. New Market Street
Suite 100
Carmel, IN 46032
Telephone: 317.569.8112
Fax: 317.826.6410
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Landscape Architecture
Transportation Engineering

JOHN R. RANDALL
BOOK 327, PAGE 415

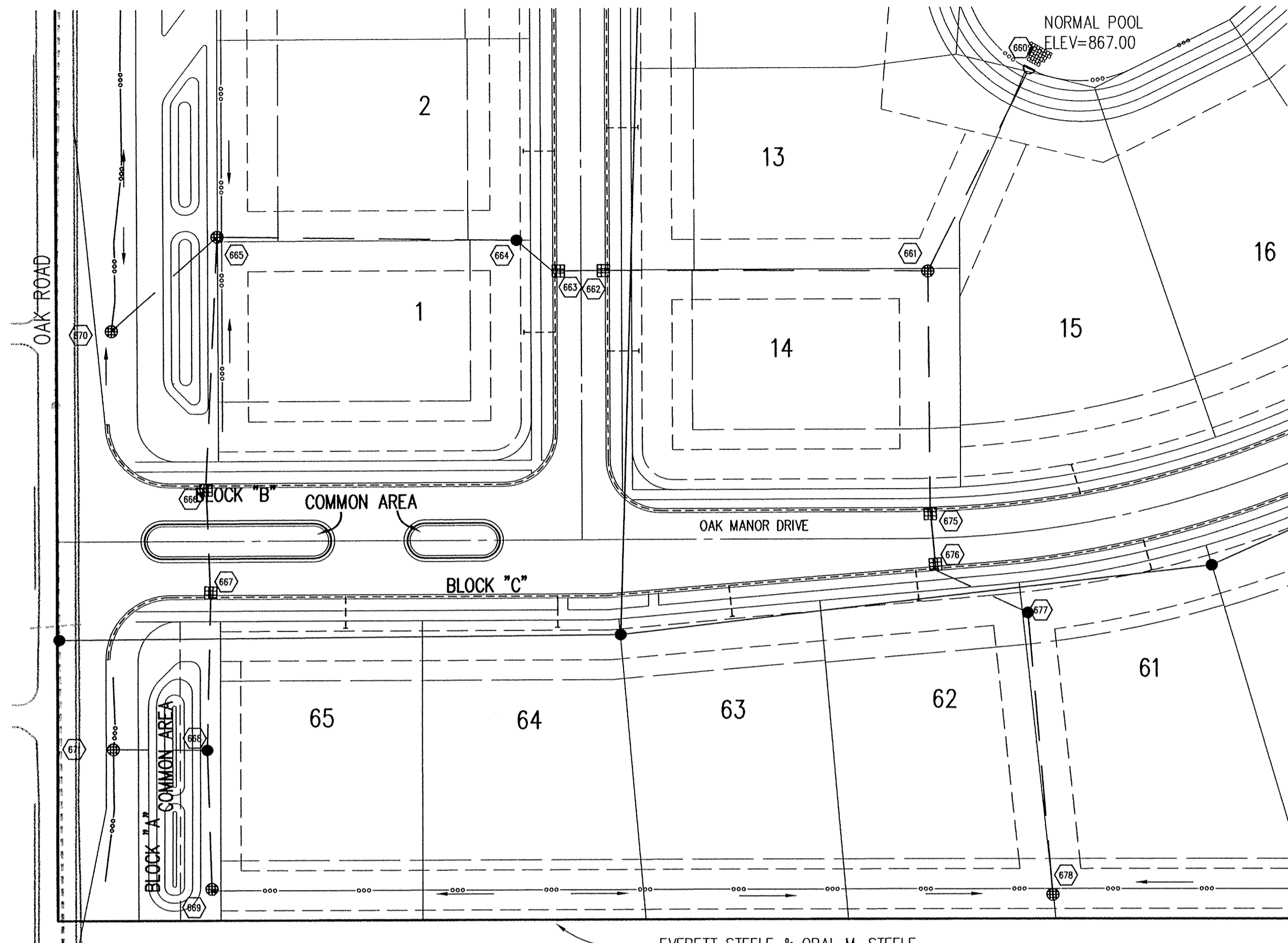
JOHN R. RANDALL
BOOK 327, PAGE 415

JOHN R. RANDALL
BOOK 327, PAGE 415

OAK MANOR
16501 OAK ROAD
WESTFIELD, INDIANA
LANGSTON DEVELOPMENT CO., INC.
CARMEL, INDIANA

DATE: 02/13/02 PROJECT NO.: 3800.001
DRAWN BY: DCC CHECKED BY:
SHEET TITLE: DEVELOPMENT PLAN
DRAWING FILES:
XREF: 3800-BS.DWG
XREF: 3800-05.DWG
XREF: DESIG.DWG

SHEET NO.: C102



HOLEY MOLEY SAYS
"DON'T DIG BLIND"

"IT'S THE LAW"
 CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-382-5544
 CALL TOLL FREE
 PER INDIANA STATE LAW IS-69-1991,
 IT IS AGAINST THE LAW TO EXCAVATE
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 DAYS BEFORE COMMENCING WORK.

GENERAL NOTES

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- CONTRACTORS SHALL MINIMIZE DAMAGE TO EXISTING TREES.

Sheet	Unit	Description
C803	5	Bedding Detail - Reinforced Concrete Pipe (RCP)
C803	1,4	Roll Curb Inlet Detail
C803	3	Beehive Inlet Detail
C803	2	Storm Manhole Detail
C803	8	Precast Concrete End Section
C107	10	RipRap Detail @ End Section

LEGEND/DETAILS

NOTE

BENCHMARK

BENCHMARK #

TBM #1 - PK NAIL IN THE WEST SIDE OF POWER POLE #80 AT THE SOUTHWEST CORNER OF 161ST STREET AND OAK ROAD
 ELEVATION - 875.783

TBM #2 - MAG NAIL 1.5' ABOVE GRADE ON THE EAST SIDE OF POWER POLE ON THE WEST SIDE OF OAK ROAD
 ELEVATION - 878.003

TBM #3 - CUT "SQUARE" ON THE WEST CURB AT THE ENTRANCE OF OAK PARK ENTRANCE LOCATED ON THE SOUTH SIDE OF 161ST STREET.
 ELEVATION - 870.559

REVISIONS:
 1. DATE: 07/14/02; REVISION: PER TAC.
 2. BET. 07/20/02; CHANGE SANITARY PIPE TYPE ON CROSSING NEAR STR. 662.
 3. DTR. 12/20/02; UPDATED PER STORM SEWER RECORD DRAWING INFORMATION.

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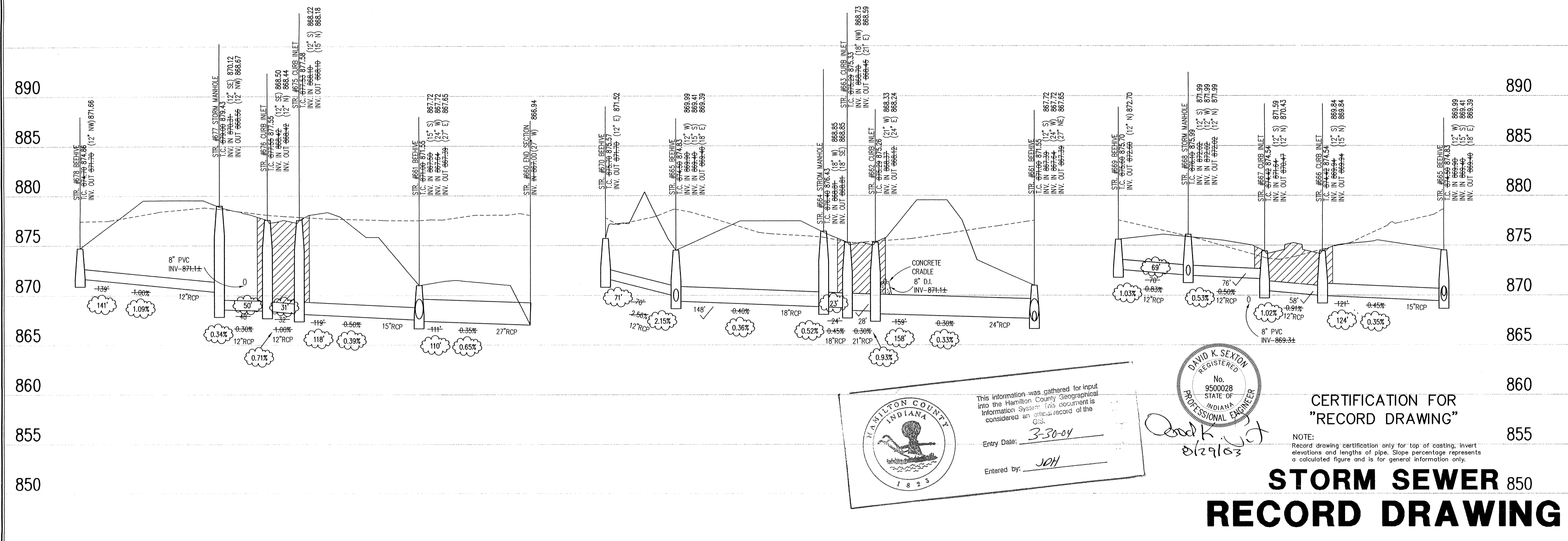
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 Landscape Architecture
 Transportation Engineering

STORM SEWER PLAN

SCALE: 1"=50'



STORM SEWER PROFILE

LEGEND

	Existing Grade
	New Grade
	Granular Backfill

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

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: 3-30-04

Entered by: JAH

DAVID K. SEYON
 REGISTERED
 No. 9500028
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

David K. Seyon
 8/29/03

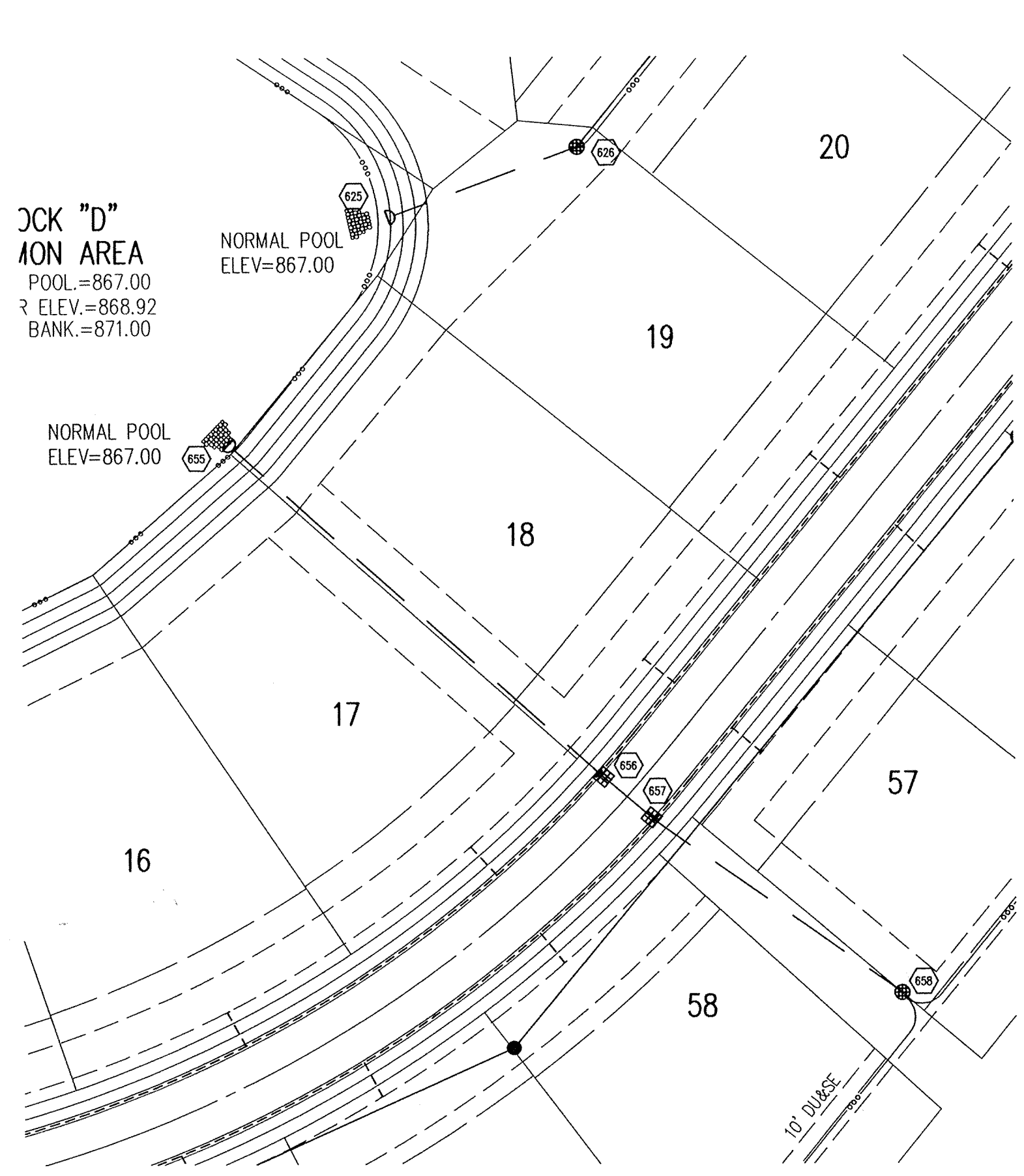
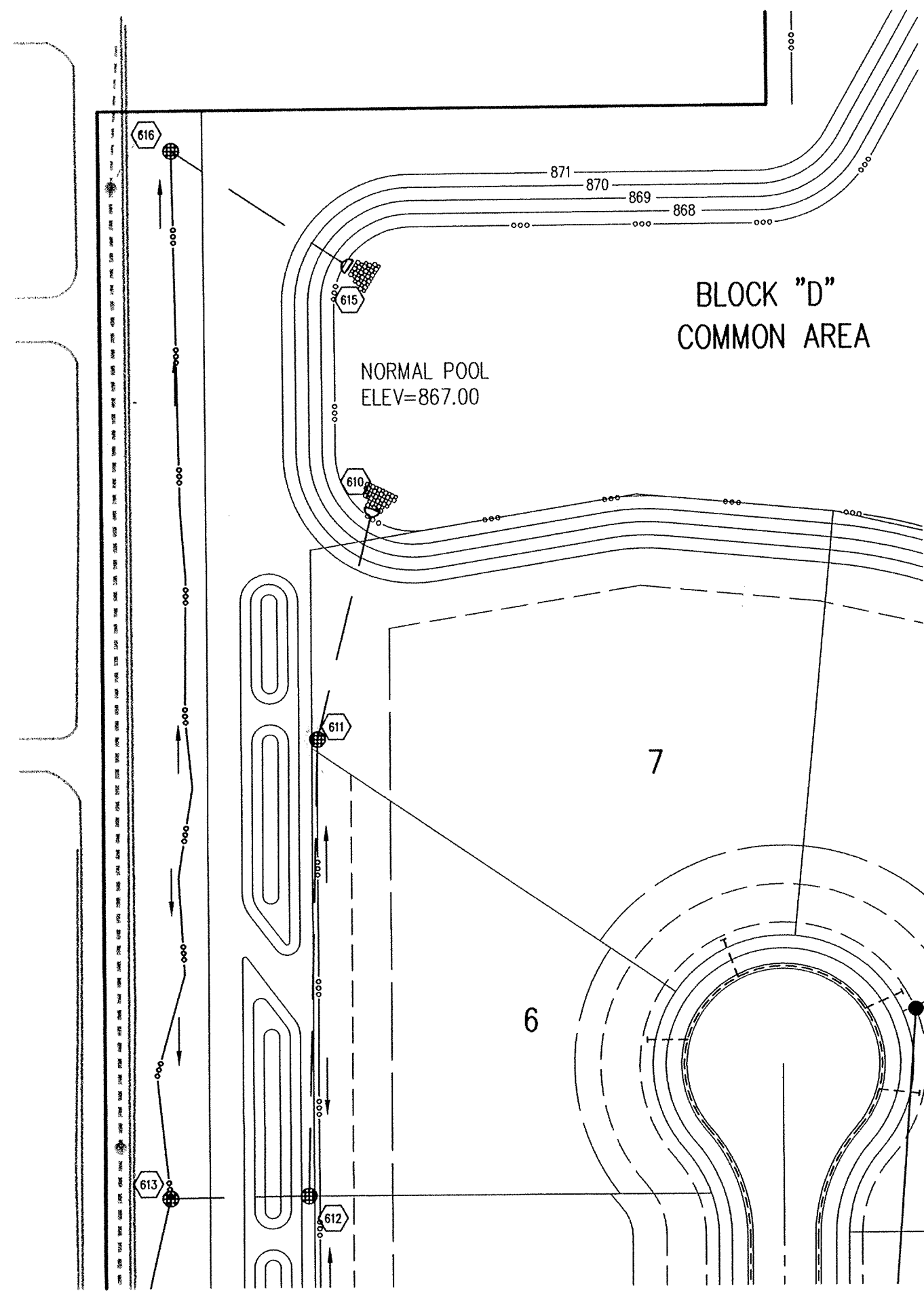
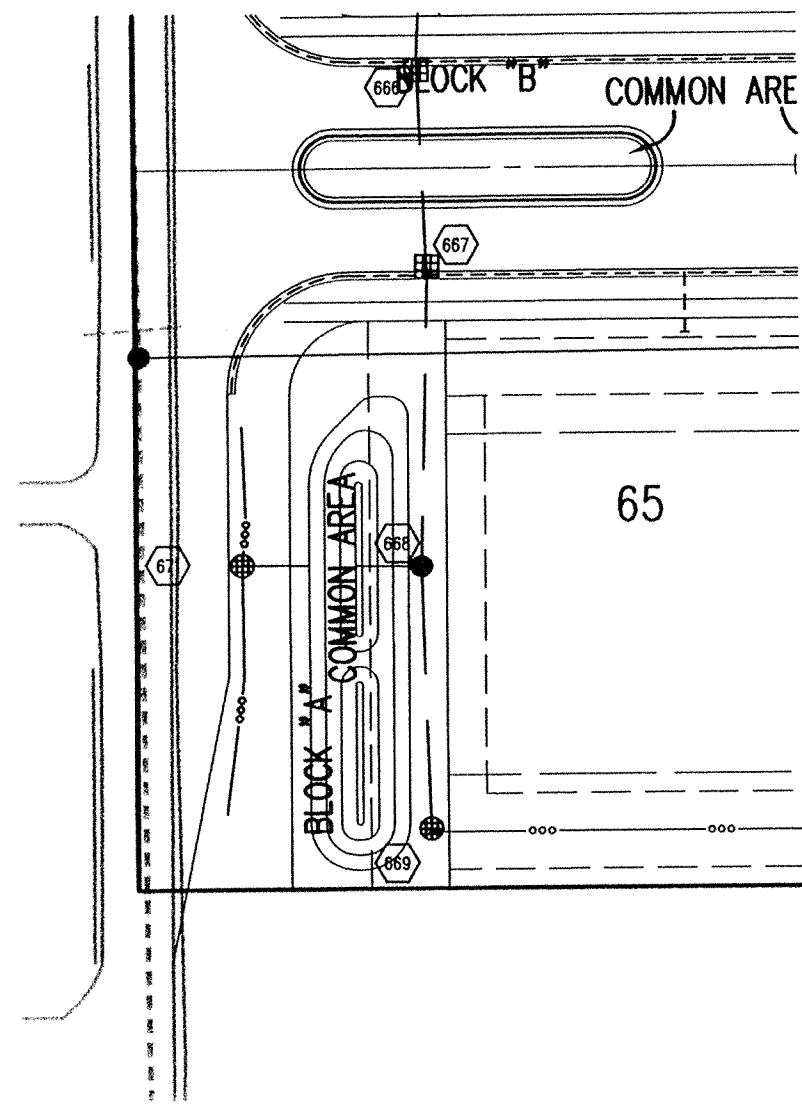
CERTIFICATION FOR
"RECORD DRAWING"

NOTE:
 Record drawing certification only for top of coating, invert elevations and lengths of pipe. Slope percentage represents a calculated figure and is for general information only.

**STORM SEWER 850
 RECORD DRAWING**

OAK MANOR
 16501 OAK ROAD
 WESTFIELD, INDIANA
 LANGSTON DEVELOPMENT CO., INC.
 CARMEL, INDIANA

DATE: 02/13/02	PROJECT NO.: 3800.001
DRAWN BY: DCC	CHECKED BY:
SHEET TITLE: STORM SEWER PLAN & PROFILE	
DRAWING FILES: N:\3800\001\DWG\CS\001-C805.DWG	
XREF: 3800-BSDWG	
XREF: STORM.DWG	
SHEET NO.: C601	



HOLEY MOLEY SAYS
"DON'T DIG BLIND"
"IT'S THE LAW"
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-382-5544
CALL TOLL FREE
PER INDIANA STATE LAW IS-68-1991,
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.

GENERAL NOTES

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Sheet	Size	Description
CB03	5	Bedding Detail - Reinforced Concrete Pipe (RCP)
CB03	1,4	Roll Curb Inlet Detail
CB03	3	Beehive Inlet Detail
CB03	2	Storm Manhole Detail
CB03	8	Precast Concrete End Section
C107	10	Riprap Detail @ End Section

LEGEND/DETAILS

NOTE

BENCHMARK

BENCHMARK #

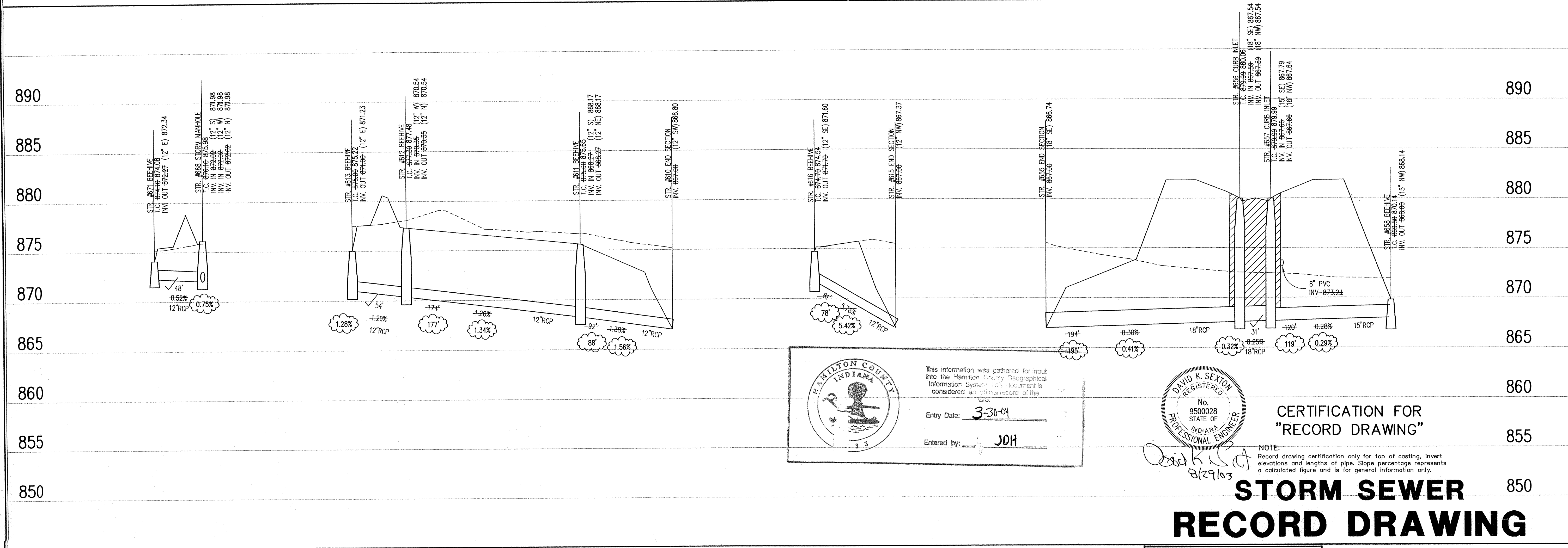
TBM #1 - PK NAIL IN THE WEST SIDE OF POWER POLE #80 AT THE SOUTHWEST CORNER OF 161ST STREET AND OAK ROAD
ELEVATION - 875.783

TBM #2 - MAG NAIL 1.5" ABOVE GRADE ON THE EAST SIDE OF POWER POLE ON THE WEST SIDE OF OAK ROAD
ELEVATION - 878.003

TBM #3 - CUT "SQUARE" ON THE WEST CURB AT THE ENTRANCE OF OAK PARK ENTRANCE LOCATED ON THE SOUTH SIDE OF 161ST STREET.
ELEVATION - 870.559

STORM SEWER PLAN

SCALE: 1"=50'



HAMILTON COUNTY INDIANA
This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the town.
Entry Date: 3-30-04
Entered by: JOH

DAVID K. SEXTON REGISTERED PROFESSIONAL ENGINEER
No. 9500028 STATE OF INDIANA

CERTIFICATION FOR "RECORD DRAWING"

STORM SEWER RECORD DRAWING

STORM SEWER PROFILE

LEGEND

	Existing Grade
	New Grade
	Granular Backfill

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

REVISIONS:
1. DCC 03/04/02 REISED PER IAC.
2. DTR 12/20/02 UPDATED PER STORM SEWER RECORD DRAWING INFORMATION.

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OAK MANOR
16501 OAK ROAD
WESTFIELD, INDIANA
LANGSTON DEVELOPMENT CO., INC.
CARMEL, INDIANA

DATE: 02/13/02	PROJECT NO.: 3800.001
DRAWN BY: DCC	CHECKED BY:
SHEET TITLE: STORM SEWER PLAN & PROFILE	
DRAWING FILES: P:\3800\001\DWG\CB01-CB05.DWG XREF: 3800-B5.DWG XREF: STORM.DWG	
SHEET NO.: C602	

HOLEY MOLEY SAYS

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"IT'S THE LAW" CALL 2 WORKING DAYS BEFORE YOU DIG 1-800-382-5544 CALL TOLL FREE

PER INDIANA STATE LAW IS-69-1991. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

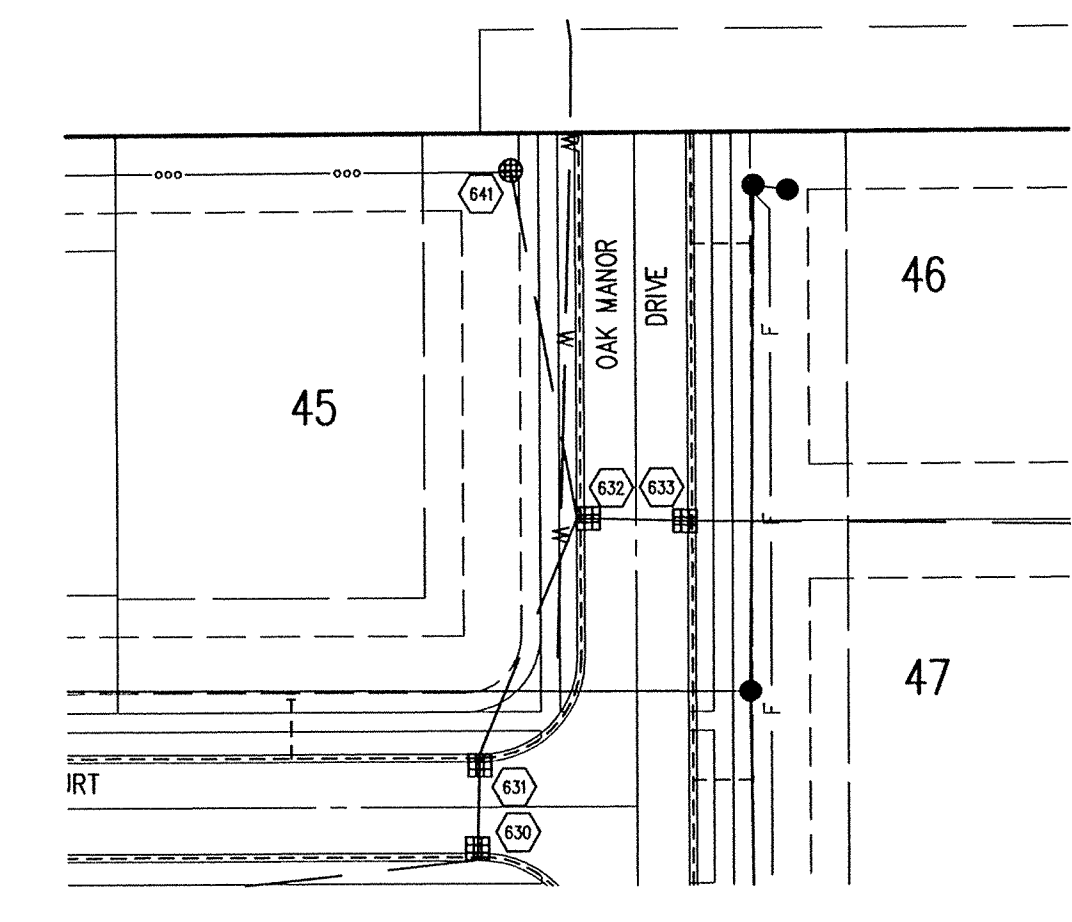
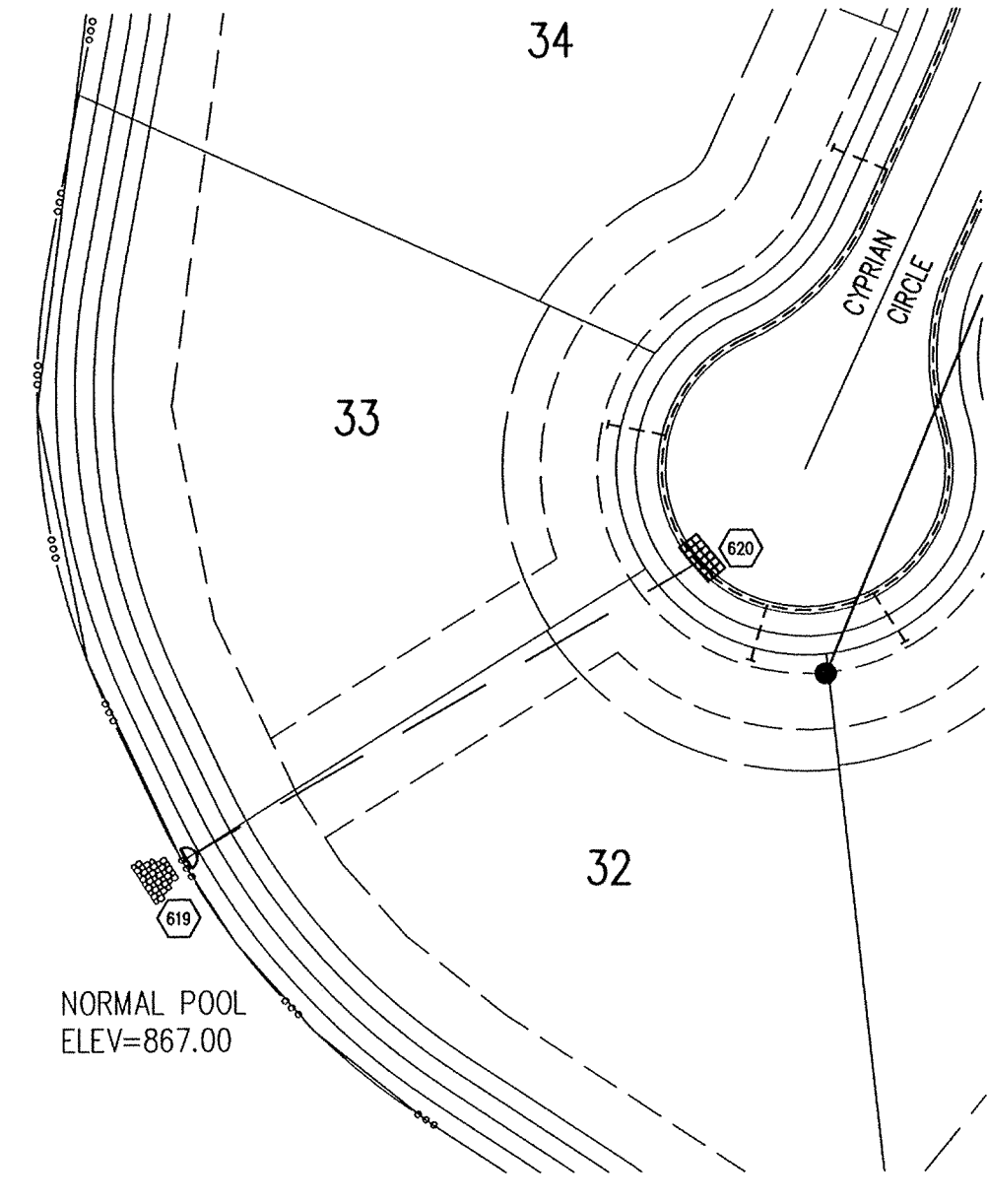
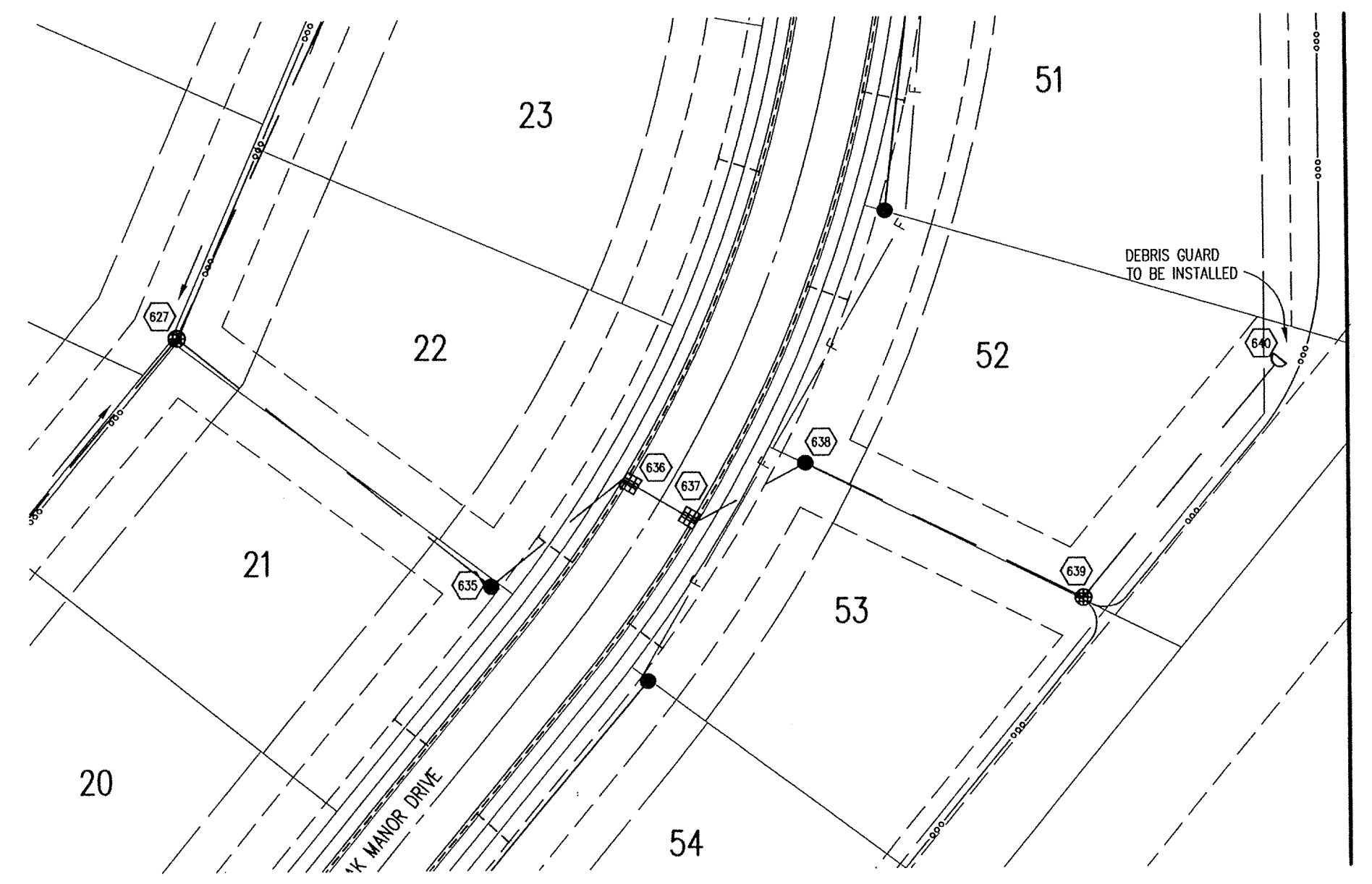
GENERAL NOTES

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4. CONTRACTORS SHALL MINIMIZE DAMAGE TO EXISTING TREES.

Table with columns: Sheet, Detail, Description. Includes details for Bedding Detail, Roll Curb Inlet, Beehive Inlet, Storm Manhole, Precast Concrete End Section, and RipRap Detail.

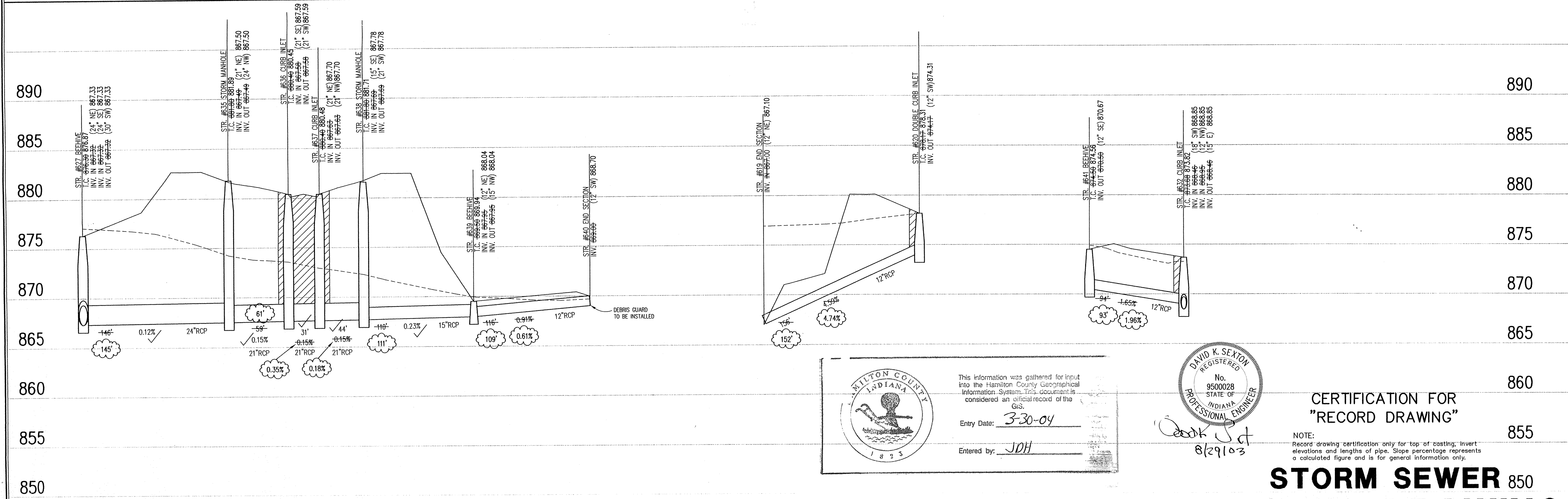
BENCHMARK

- BENCHMARK #
TBM #1 - PK NAIL IN THE WEST SIDE OF POWER POLE #80 AT THE SOUTHWEST CORNER OF 161ST STREET AND OAK ROAD. ELEVATION - 875.783
TBM #2 - MAG NAIL 1.5' ABOVE GRADE ON THE EAST SIDE OF POWER POLE ON THE WEST SIDE OF OAK ROAD. ELEVATION - 878.003
TBM #3 - CUT "SQUARE" ON THE WEST CURB AT THE ENTRANCE OF OAK PARK ENTRANCE LOCATED ON THE SOUTH SIDE OF 161ST STREET. ELEVATION - 870.559



STORM SEWER PLAN

SCALE: 1"=50'



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Entry Date: 3-30-04
Entered by: JDH



CERTIFICATION FOR "RECORD DRAWING"

NOTE: Record drawing certification only for top of existing, invert elevations and lengths of pipe. Slope percentage represents a calculated figure and is for general information only.

STORM SEWER 850 RECORD DRAWING

STORM SEWER PROFILE

LEGEND table with symbols for Existing Grade, New Grade, and Granular Backfill.

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

REVISIONS: 1. DCC 03/04/02 REVISION PER TAC. 2. DCC 04/08/02 REVISION PER HAMILTON CO. 3. DTR 12/20/02 UPDATED PER STORM SEWER RECORD DRAWING INFORMATION.

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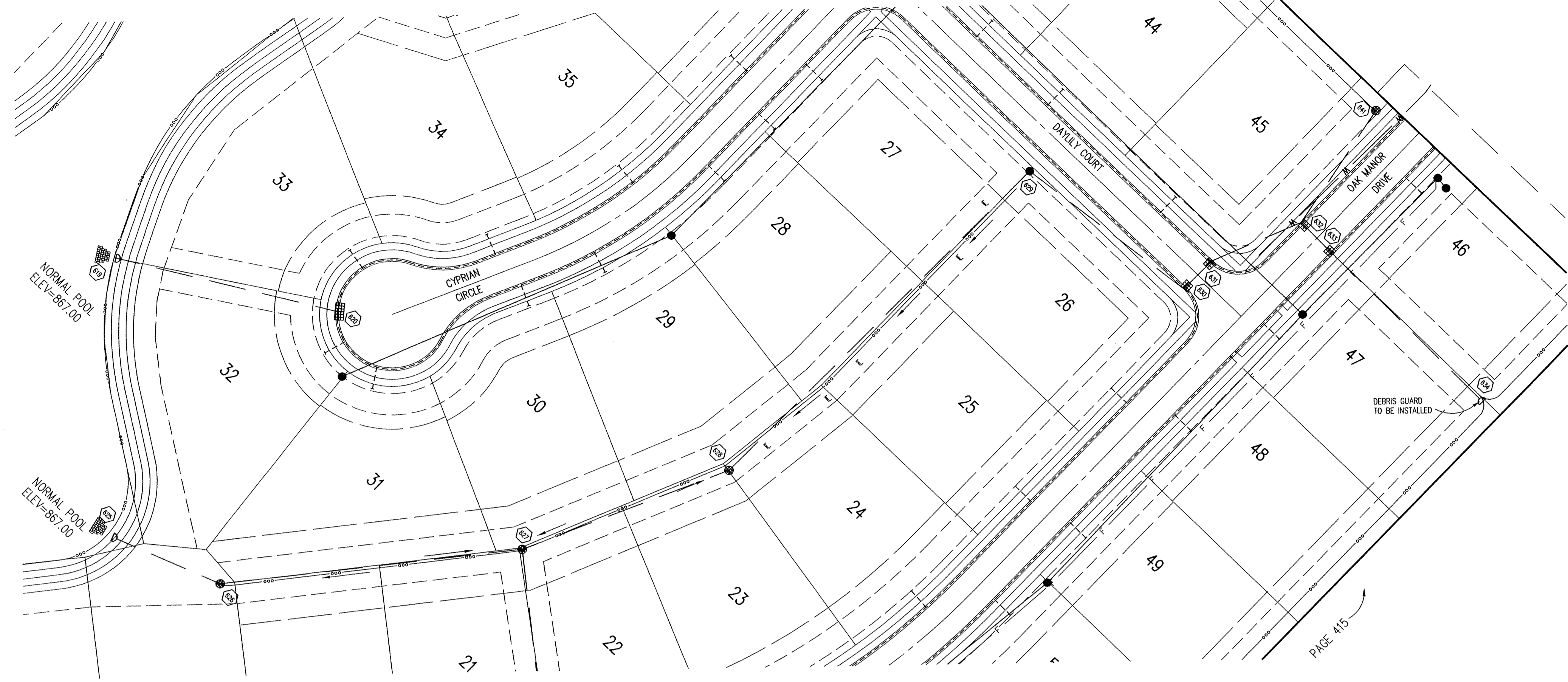
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Transportation Engineering

OAK MANOR
16501 OAK ROAD
WESTFIELD, INDIANA
LANGSTON DEVELOPMENT CO., INC.
CARMEL, INDIANA

Table with columns: DATE, PROJECT NO., DRAWN BY, CHECKED BY, SHEET TITLE, DRAWING FILES.

SHEET NO.: C603



HOLEY MOLEY SAYS
"DON'T DIG BLIND"

"IT'S THE LAW"
 CALL 2 WORKING DAYS BEFORE YOU DIG
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LEGEND/DETAILS

Sheet	Detail	Description
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CB03	1,4	Roll Curb Inlet Detail
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CB03	8	Precast Concrete End Section
C107	10	RipRap Detail @ End Section

NOTE

REVISIONS:
 1. DATE: 02/14/02 REVISED PER TAC.
 2. DATE: 04/08/02 REVISED PER HAMILTON CO.
 3. DATE: 12/20/02 UPDATED PER STORM SEWER RECORD DRAWING INFORMATION.

BENCHMARK

BENCHMARK #

TBM #1 - PK NAIL IN THE WEST SIDE OF POWER POLE #80 AT THE SOUTHWEST CORNER OF 161ST STREET AND OAK ROAD
 ELEVATION - 875.783

TBM #2 - MAG NAIL 1.5' ABOVE GRADE ON THE EAST SIDE OF POWER POLE ON THE WEST SIDE OF OAK ROAD
 ELEVATION - 878.003

TBM #3 - CUT "SQUARE" ON THE WEST CURB AT THE ENTRANCE OF OAK PARK ENTRANCE LOCATED ON THE SOUTH SIDE OF 161ST STREET.
 ELEVATION - 870.559

DATE:
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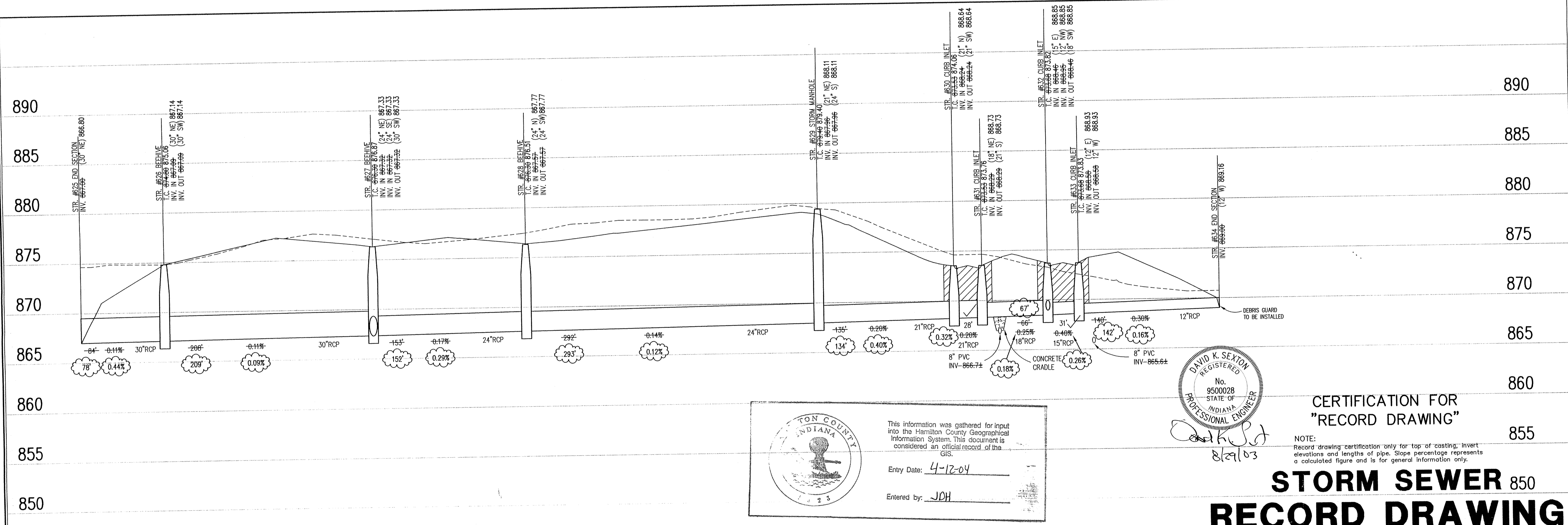
Schneider

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 Telephone: 317.569.8112
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STORM SEWER PLAN

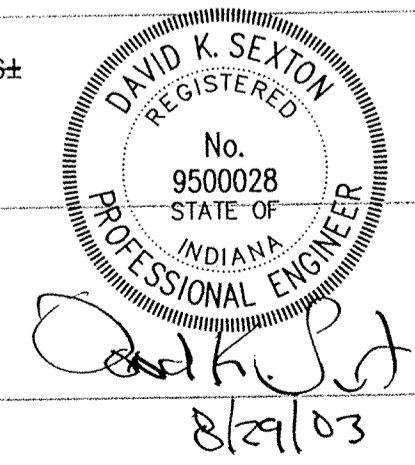
SCALE: 1"=50'



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Entry Date: 4-12-04

Entered by: JDH



CERTIFICATION FOR "RECORD DRAWING"

NOTE:
 Record drawing certification only for top of casting, invert elevations and lengths of pipe. Slope percentage represents a calculated figure and is for general information only.

**STORM SEWER 850
 RECORD DRAWING**

STORM SEWER PROFILE

LEGEND

	Existing Grade
	New Grade
	Granular Backfill

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

OAK MANOR
 16501 OAK ROAD
 WESTFIELD, INDIANA
 LANGSTON DEVELOPMENT CO., INC.
 CARMEL, INDIANA

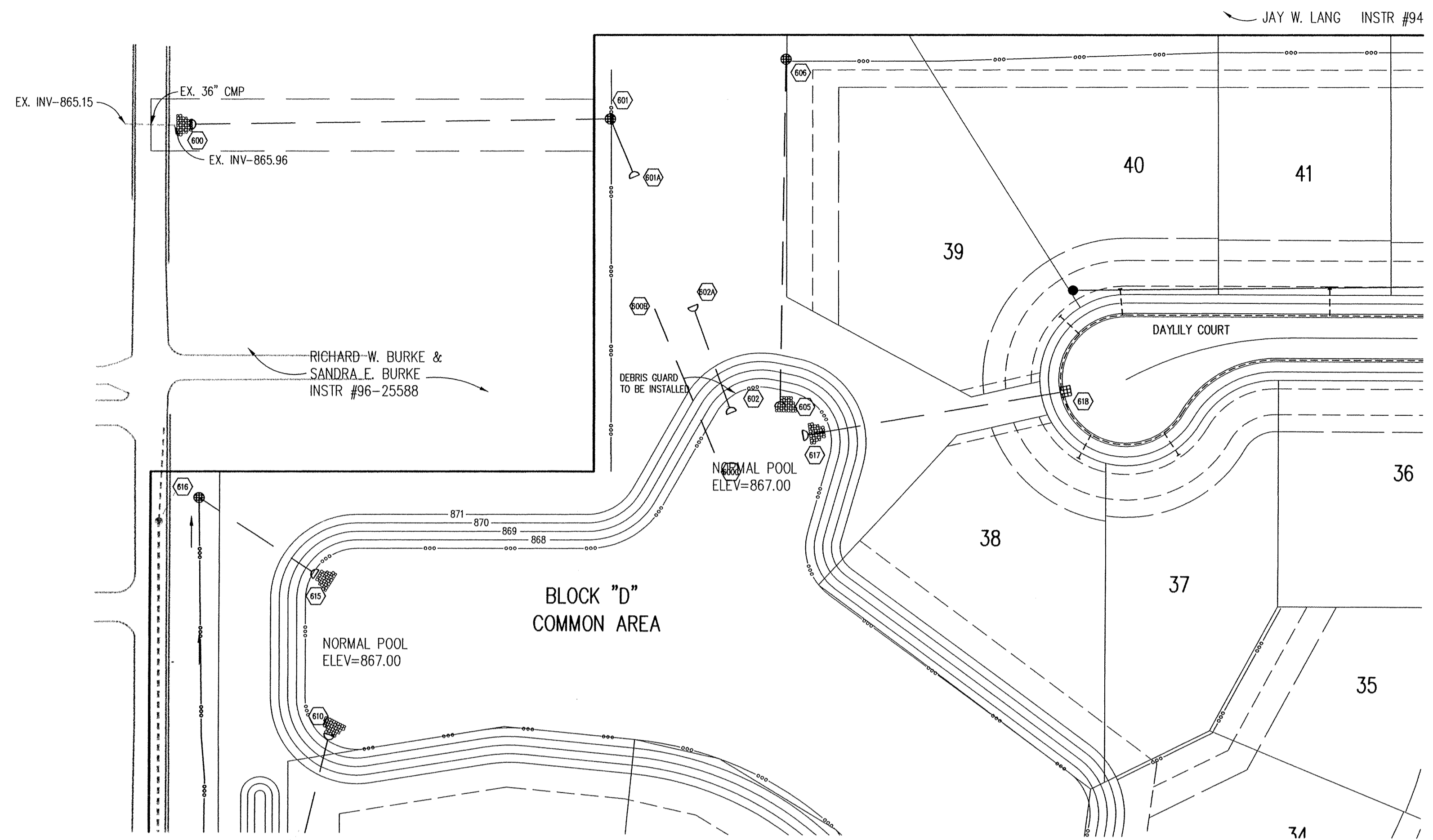
DATE: 02/13/02 PROJECT NO.: 3800.001

DRAWN BY: DCC CHECKED BY:

SHEET TITLE:
**STORM SEWER
 PLAN & PROFILE**

DRAWING FILES:
 N:\3800\001\DWG\C601-C605.DWG
 REF: 3800-BS.DWG
 REF: STORM.DWG

SHEET NO.:
C604



HOLEY MOLEY SAYS
"DON'T DIG BLIND"

"IT'S THE LAW"
 CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-382-5544
 CALL TOLL FREE
 PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

GENERAL NOTES

1. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
2. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
4. CONTRACTORS SHALL MINIMIZE DAMAGE TO EXISTING TREES.

LEGEND/DETAILS

Sheet	Detail Number	Description
C803	5	Bedding Detail - Reinforced Concrete Pipe (RCP)
C803	1,4	Roll Curb Inlet Detail
C803	3	Beehive Inlet Detail
C803	2	Storm Manhole Detail
C803	8	Precast Concrete End Section
C107	10	RipRap Detail @ End Section

NOTE

BENCHMARK

BENCHMARK #

TBM #1 - PK NAIL IN THE WEST SIDE OF POWER POLE #80 AT THE SOUTHWEST CORNER OF 161ST STREET AND OAK ROAD
 ELEVATION - 875.783

TBM #2 - MAG NAIL 1.5' ABOVE GRADE ON THE EAST SIDE OF POWER POLE ON THE WEST SIDE OF OAK ROAD
 ELEVATION - 878.003

TBM #3 - CUT "SQUARE" ON THE WEST CURB AT THE ENTRANCE OF OAK PARK ENTRANCE LOCATED ON THE SOUTH SIDE OF 161ST STREET.
 ELEVATION - 870.559

REVISIONS:
 1. DATE: 02/13/02
 2. DATE: 04/24/02
 3. DATE: 12/20/02

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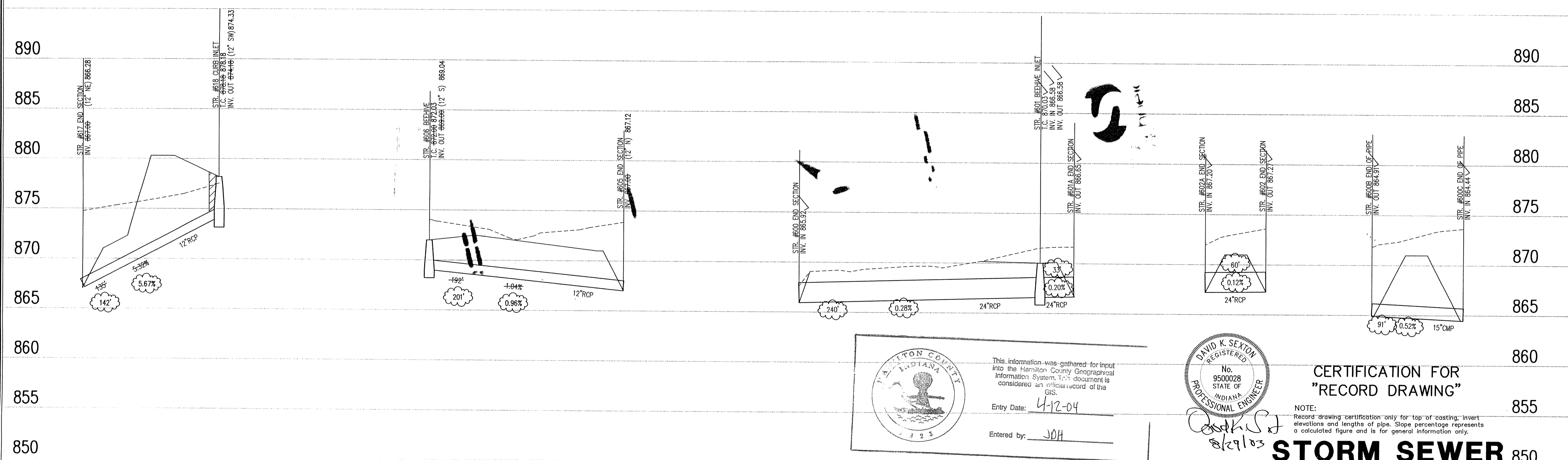
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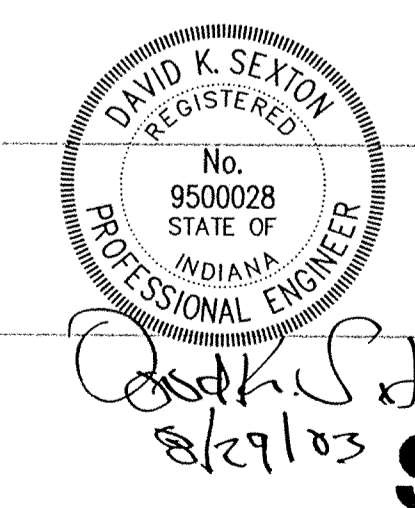
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STORM SEWER PLAN

SCALE: 1"=50'



Hamilton County
 INDIANA
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**STORM SEWER 850
 RECORD DRAWING**

STORM SEWER PROFILE

LEGEND

Existing Grade	New Grade	Granular Backfill

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

OAK MANOR
 16501 OAK ROAD
 WESTFIELD, INDIANA
 LANGSTON DEVELOPMENT CO., INC.
 CARMEL, INDIANA

DATE: 02/13/02	PROJECT NO.: 3800.001
DRAWN BY: DCC	CHECKED BY:
SHEET TITLE: STORM SEWER PLAN & PROFILE	
DRAWING FILES: N:\3800\001\DWG\C601-C605.DWG XREF: 3800-BS.DWG XREF: STORM.DWG	
SHEET NO.: C605	