Drain: OVERMAN - HARVEY **Drain #:** 32

Improvement/Arm: VILLAGE OF MT. CARMEL - SECTION 10

Operator: J. LIVINGSTON **Date:** 5-18-04

Drain Classification: (Urban) Rural **Year Installed:** 2003

GIS Drain Input Checklist

- Pull Source Documents for Scanning — JWJ
- Digitize & Attribute Tile Drains
- Digitize & Attribute Storm Drains
- Digitize & Attribute SSD
- Digitize & Attribute Open Ditch
- Stamp Plans
- Sum drain lengths & Validate
- Enter Improvements into Posse — JWJ
- Enter Drain Age into Posse
- Sum drain length for Watershed in Posse
- Check Database entries for errors

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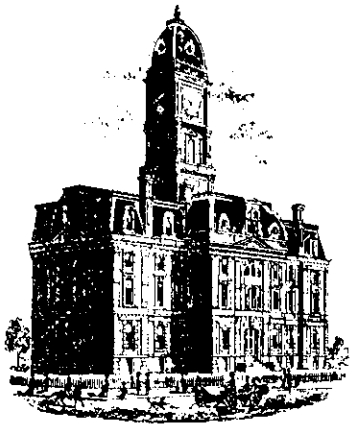

SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor
Phone (317) 776-8495
Fax (317) 776-9628

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

To: Hamilton County Drainage Board

June 23, 2003

Re: Village of Mount Carmel, Section 10 Arm, Overman Harvey Drain

Attached is a petition filed by Elliott Wright Group along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Village of Mount Carmel, Section 10 Arm, Overman Harvey 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	850 ft	18" RCP	46 ft	30" RCP	747 ft
12" RCP	890 ft	21" RCP	122 ft		
15" RCP	242 ft	24" RCP	348 ft		

The total length of the drain will be 3,245 feet.

The retention pond (lake) located in Common Area "A" 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) 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 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 $3.00 per acre for common areas and platted lots, $3.00 per acre for roadways, with a $30.00 minimum. With this assessment the total annual assessment for this drain/this section will be $240.00.

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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/Letter of Credit are as follows:

Agent: Bond Safeguard Insurance Company
Date: April 25, 2003
Number: 5004799
For: Storm Drain
Amount: $62,973.80

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 for Village of Mount Carmel Section 10 as recorded in the office of the Hamilton County Recorder.

Also to be included are portions of the storm sewer system installed with the improvements of 146th Street. Village of Mount Carmel Section 10 utilizes this system as its outlet. This system is shown on Sheets 6 and 7 of the plans prepared by American Consulting Engineers, Inc. for Hamilton County. This is for project HCHD PR-97-0006 and the plans are file stamped March 18, 1999. This portion of the drain shall consist of those structures and portions of drain between the following structures:

Str. 37 to 33; Str. 36 to 34; Str. 34A to 34; Str. 35 to 34; Str. 34 to 32; Str. 31 to 32; Str. 30 to 32; Str. 32 to 33; Str. 27 to 28; Str. 28 to 29; Str. 33 to 29; Str. 29 to 24; Str. 26 to 23; Str. 25 to 22; Str. 22 to 23; Str. 23 to 24; Str. 24 to 21; Str. 15 to 16; Str. 16 to 17; Str. 17 to Outlet.

Structure 21 connects the system with the existing regulated drain which was constructed as Village Farms Section 18 Arm to the Overman-Harvey Drain. This portion of the system is a 30" RCP which outlets into the lake for Village Farms.

Also to be a portion of the drain are the pair of inlets and pipe sections installed at Adios Pass along the south right of way for 146th Street in the Village of Mount Carmel Section 8. This is the portion between Str. 12 to Str. 13 and Str. 13 to Str. 14.

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

Kenton C. Ward
Hamilton County Surveyor

KCW/llm

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FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

Overman Harvey Drain, Village of Mount Carmel Section 10 Arm

On this ***28th day of July, 2003***, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the ***Overman Harvey Drain, Village of Mount Carmel Section 10 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:

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HCDB-2003-00031

SUBDIVISION PERFORMANCE BOND

Bond # 5004799

KNOW ALL MEN BY THESE PRESENTS, that we Crossmark Construction, Inc. and Elliott Wright Group, 599 Industrial Drive, Suite 318, Carmel, IN 46032 as Principal, and Bond Safeguard Insurance Company, 1919 S. Highland Avenue, Suite 300, Bldg. A, Lombard, IL 60148 authorized to do business in the State of Indiana, as Surety are held firmly bound unto Hamilton County Surveyor, One Hamilton Square, Suite 188, Noblesville, IN 46060, as Obligee, in the penal sum of Sixty Two Thousand Nine Hundred Seventy Three and 80/100 ($ 62,973.80) for the payment of which sum well and truly to be made, we bind ourselves, our heirs, administrators, executors, successors and assigns, jointly and severally firmly by these present;

WHEREAS, the above bounden Principal has been granted approval by the above named Obligee for Village of Mount Carmel, Section 10, Storm Drainage.

NOW, THEREFORE, the condition of the obligation is such, that if the said Principal shall complete the above improvements in accordance with the plans and specifications prepared by _____, and shall indemnify and save harmless the Obligee from all costs and damages which it may suffer by reason of failure to do so, and fully reimburse and repay Obligee any outlay and expense which it may incur in making good any such default, then this obligation shall be null and void, otherwise to remain in full force and effect.

THE FOREGOING OBLIGATION, however, is limited by the following express conditions, the performance of which shall be a condition precedent to any rights of claims or recovery hereunder:

1. Upon the discovery by the Obligee, or by the Obligee's agent or representative, of any act or omission that shall or might involve a loss hereunder, the Obligee shall endeavor to give written notice thereof with the fullest information obtainable at the time to the Surety.

2. Legal proceedings for recovery hereunder may not be brought unless begun within twelve (12) months from the date of the discovery of the act or omission of the Principal on account of which claim is made.

3. The Principal shall be made a party to any suit or action for recovery hereunder, and no judgment shall be rendered against the Surety in excess of the penalty of this instrument.

4. No right of action shall accrue hereunder to or for the use or benefit of anyone other than the Obligee, and the Obligee's right hereunder may not be assigned without the written consent of the Surety.

SIGNED, SEALED AND DATED this 25th Day of April, 2003.

Crossmark Construction, Inc. and Elliott Wright Group

By: Kayser T Sheridan

By: _____

Bond Safeguard Insurance Company

By: Deborah M. Roth, Attorney-in-Fact

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CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Village of Mt. Carmel
Tenth Section

I hereby certify that:

1. I am a Registered 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: _____ Date: 12-15-03

Type or Print Name: James Shinneman

Business Address: Weihe Engineers, Inc.
10505 N. college Ave., Indianapolis, IN 46280

Telephone Number: 317-846-6611

SEAL

INDIANA REGISTRATION NUMBER
10200392

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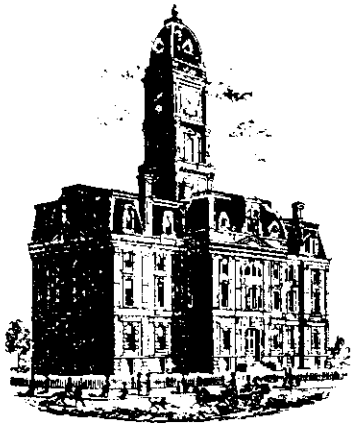

SURVEYOR'S OFFICE

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 14, 2005**

Re: Overman-Harvey Drain: Village of Mt. Carmel Section 10 & 146th St. Offsite

Attached are as-builts, certificate of completion & compliance, and other information for Village of Mt. Carmel. 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 23, 2003. The report was approved by the Board at the hearing held July 28, 2003. (See Drainage Board Minutes Book 7, Pages 119-121)
The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn_Invert	Grade:
13-12	221	12	RCP	881.87	881.1	0.4
12-11	148	12	RCP	881.1	880.43	0.45
11-10	143	15	RCP	880.43	879.87	0.39
10-9	48	15	RCP	879.87	879.5	0.77
8-7	266	15	RCP	880.87	880.21	0.25
7-6	24	15	RCP	880.21	880.01	0.83
6-5	56	15	RCP	880.01	879.55	0.82
3-2	122	21	RCP	879.83	879.43	0.33
2-4	51	15	RCP	879.43	879.42	0.02
2-1	250	24	RCP	879.43	878.4	0.41
15-14	24	12	RCP	882.23	881.33	0.38
14-11	23	12	RCP	881.33	880.43	3.91
33-29	26	30	RCP	876.8	876.72	
29-24	459	30	RCP	876.62	875.11	
24-503*	262	30	RCP	875	874.16	
32-33	94	30	RCP			
27-28	66	12	RCP			
29-29	9	12	RCP			
37-33	75	12	RCP			
36-34	35	12	RCP			
34-32	56	18	RCP			
35-34	7	12	RCP			

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1-32	15	24	RCP			
15-16	65	12	RCP			
16-17	63	12	RCP			
17-End of Pipe	16	12	RCP			
25-22	15	12	RCP			
22-23	68	12	RCP			
26-23	17	12	RCP			
23-24	13	12	RCP			
* Was structure 21						

6" SSD Streets:

John Paul Way	522.5
TotalX2:	1045

RCP Pipe Totals:

12	865
15	588
18	56
21	122
24	265
30	841
Total:	2737

The length of the drain due to the changes described above is now **3,782 feet**. This footage is for Village of Mt. Carmel Section 10 and the offsite constructed with 146th St. It should be noted that this does not include those facillities constucted across Adios Pass (Village of Mt. Carmel Sec. 8). These structures (12,13,14) were addressed in the final report given to the Board for 146th St. dated June 13, 2005. The attached plans for 146th Street do reflect all the information that is listed above. This information was obtained through a field investigation.

The non-enforcement was approved by the Board at its meeting on July 28, 2003 and recorded under instrument #200300093799.

The following sureties were guaranteed by Bond Safeguard Insurance Co and released by the Board on its September 12, 2005 meeting.

Bond-LC No: 5004799
Insured For: Storm Sewers
Amount: $62,973.80
Issue Date: April 25, 2003

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

Sincerely,

Kenton C. Ward,
Hamilton County Surveyor

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Gasb 34 Asset Price & Drain Length Log

Drain-Improvement: Overman-Harvey Drain: Village of Mt. Carmel - 146th St. Offsite

Drain Type:	Size:	Length	Length (DB Query)	Length Reconcile	If Applicable Price:	If Applicable Cost:
RCP	12"	449'	449'	∅	$7.25 lf	$3255.25
RCP	18"	56'	56'	∅	$10.50 lf	$588.00
RCP	24"	15'	15'	∅	$18.00 lf	$270.00
RCP	30"	841'	841'	∅	$24.60 lf	$20,688.60
Sum:		1361'	1361'			$24,801.85

Final Report: 1361'

Comments:
Constructed as part of the 1997 146th St. Improvements

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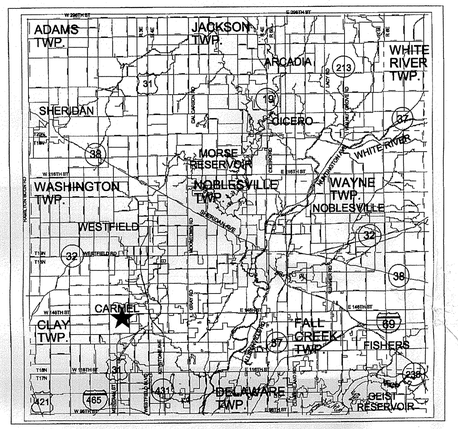
CONSTRUCTION PLANS FOR
VILLAGE OF MOUNT CARMEL
TENTH SECTION
VILLAGE DRIVE NORTH
CARMEL, INDIANA

PLANS PREPARED FOR:

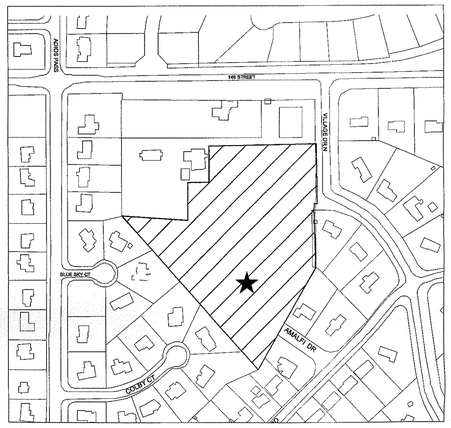
ELLIOTT WRIGHT GROUP
597 INDUSTRIAL DRIVE, SUITE 104
CARMEL, INDIANA 46032
TELEPHONE: (317) 846-3798
FAX: (317) 846-3796
CONTACT PERSON: CHUCK WRIGHT

PLANS PREPARED BY:

WEIHE ENGINEERS, INC.
10505 N. COLLEGE AVE.
INDIANAPOLIS, IN 46280
TELEPHONE: (317) 846-6611
FAX: (317) 843-0546
CONTACT PERSON: DARRELL PHILLIPS



AREA MAP
★PROJECT LOCATION



SITE LOCATION MAP
★PROJECT LOCATION

RECORD DRAWING
WATER AS-BUILTS
WATER STRUCTURES ONLY
12/15/03

RECORD DRAWING
SANITARY SEWER AS-BUILTS
SANITARY SEWER STRUCTURES ONLY
12/15/03

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
12/15/03

OPERATING AUTHORITIES:

INDIANA GAS COMPANY
POST OFFICE BOX 1700
NOBLESVILLE IN 46060
TELEPHONE: (317) 776-5597

OFFICE OF FIRE CHIEF
2 CIVIC SQUARE
INDIANAPOLIS, INDIANA 46220
TELEPHONE: (317) 571-2600

CARMEL POLICE DEPARTMENT
3 CIVIC SQUARE
CARMEL, IN 46032
TELEPHONE: (317) 571-2500

HAMILTON CO. SHERIFF DEPARTMENT
18100 CUMBERLAND ROAD
INDIANAPOLIS, IN 46206-1595
TELEPHONE: (317) 773-1872

CARMEL COMMUNICATIONS DEPARTMENT
31 FIRST AVE. N.W.
CARMEL, IN 46032
TELEPHONE: (317) 571-2580

CARMEL/CLAY SCHOOLS
5201 EAST 131ST STREET
CARMEL, IN 46032
TELEPHONE: (317) 844-9961

OFFICE OF CITY ENGINEER
1 CIVIC SQUARE
CARMEL, IN 46032
TELEPHONE: (317) 571-2414

CINERGY
1441 SOUTH GUILFORD
CARMEL, IN 46032
TELEPHONE: (800) 521-2232

CARMEL CLAY PARKS & RECREATION
1 CIVIC SQUARE
CARMEL, IN 46032
TELEPHONE: (317) 848-7275

CITY OF CARMEL
WATER-WASTEWATER UTILITIES
130 FIRST AVE. S.W.
CARMEL, IN 46032
TELEPHONE: (317) 571-2648

CITY OF CARMEL
WATER-WASTEWATER UTILITIES
PAT RIGDON - SEWER INSPECTOR
130 FIRST AVE. S.W.
CARMEL, IN 46032
TELEPHONE: (317) 716-3943

HAMILTON COUNTY SURVEYOR
ONE HAMILTON COUNTY SQUARE, SUITE 146
NOBLESVILLE IN 46060
TELEPHONE: (317) 776-8495

HAMILTON COUNTY SOIL & WATER CONSERVATION DISTRICT
925 DIVISION STREET, ROOM 301
NOBLESVILLE IN 46060
TELEPHONE: (317) 773-1432

HAMILTON COUNTY HIGHWAY DEPARTMENT
1717 PLEASANT STREET
NOBLESVILLE IN 46060
TELEPHONE: (317) 773-7770

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INDIANA UNDERGROUND PROTECTION SERVICE, INC.

INDIANA STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS LATEST EDITION TO BE USED WITH THESE PLANS.

BENCHMARK
RAILROAD SPIKE IN THE SOUTH SIDE OF A POWER POLE PER AMERICAN CONSULTING ENGINEERS SURVEY CONTROL PLAT FOR 146TH STREET (JOB 97-614). (TBM #28)
ELEVATION = 884.33 (NAVD 1988)

TEMPORARY BENCHMARK
THE NORTHWEST BASE BOLT ON A LIGHT STANDARD ON THE EAST SIDE OF AN ASPHALT DRIVE AT OUR LADY OF MOUNT CARMEL CATHOLIC CHURCH, BEING DIRECTLY EAST OF THE BUILDING, AND APPROXIMATELY 20 FEET SOUTH OF A 21" MAPLE TREE. (ESTABLISHED IN WEIHE ENGINEERS, INC. JOB W00-895)
ELEVATION = 883.60

GENERAL NOTES:
1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.

2) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION

3) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.

4) ALL QUANTITIES GIVEN ON THESE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.

5) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.

6) IN ADDITION, EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.

7) IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.

8) TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.

9) ANY FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED AND CONNECTED TO NEW STORM SEWERS AND POSITIVE DRAINAGE PRESERVED.

10) THE DESCRIBED REAL ESTATE **DOES NOT** LIE WITHIN A SPECIAL FLOOD HAZARD ZONE AS PLOTTED BY SCALE ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY, NATIONAL FLOOD INSURANCE PROGRAM, FIRM FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER **180081 0207 F, DATED FEBRUARY 19, 2003.**

11) BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS & PLAT FOR EXACT INFORMATION.

13) WETLANDS ARE NOT SHOWN ON THE U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE; **CARMEL, IND.** NATIONAL WETLANDS INVENTORY MAP **DATED 1990.**

HAMILTON COUNTY INDIANA 1823

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: 8-19-05

Entered by: SLM

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	EXISTING CONDITIONS/DEMOLITION PLAN
3	SITE DEVELOPMENT PLAN
4	STREET PLAN AND PROFILE
5	STORM PLAN AND PROFILE
6	STORM PLAN AND PROFILE
7	SANITARY PLAN AND PROFILE
8	EROSION CONTROL PLAN
9	EROSION CONTROL DETAIL SHEET
10	SITE WATER PLAN
11	SITE CONSTRUCTION DETAILS
12	SPECIFICATIONS SHEET

Elliott EW WRIGHT GROUP

REVISIONS

SHEET NO.	*DESCRIPTION*	*DATE*
1,3,5,6,7,10	*STORM SEWER, SANITARY SEWER & WATER LINE AS-BUILTS*	*12/15/03*

WEIHE ENGINEERS, INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE (800) 452-6408
ALLAN H. WEIHE — REGISTERED CIVIL ENGINEER; REGISTERED LAND SURVEYOR; PRESIDENT
CIVIL ENGINEERS • LAND SURVEYORS • LANDSCAPE ARCHITECTS • LAND PLANNERS

REVISIONS	DATE	BY
MINOR REVISIONS TO ALL SHEETS PER CARMEL T.A.C.	07/17/03	JKS
MINOR REVISIONS TO ALL SHEETS PER CLIENT	02/11/03	JKS/DSR
MINOR REVISIONS TO SANITARY PER CARMEL UTILITIES	3/31/03	JKS
MINOR REVISIONS PER HAMILTON CO. SOIL & WATER	4/03/03	JKS
MINOR REVISIONS PER HAMILTON CO. SOIL & WATER	4/30/03	JKS/CDR
CITY OF CARMEL WATER-WASTEWATER UTILITIES PAT RIGDON - SEWER INSPECTION AND CURB TAPER REVISIONS	5/16/03	CDR
PER CITY OF CARMEL SANITARY, STORM SEWER & WATER AS-BUILTS	11/15/03	SR

PROJECT NO. W02-0740
DWG. NAME: 2D/MOTLWG
FIELD BY: JKS
DRAWN BY: CDR/JKS
CHECKED BY: JKS
DATE: 04/30/2003

JAMES K. SHINNEMAN — REGISTERED NO. 10200392 — STATE OF INDIANA — PROFESSIONAL ENGINEER
JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR: *VILLAGE OF MOUNT CARMEL*
TENTH SECTION
ELLIOTT WRIGHT GROUP

TITLE SHEET
Part of the Northeast 1/4 of Section 23, Township 18 North, Range 3 East, Clay Township, Hamilton County, Indiana

SHEET NO. 1

PROJECT NO. W02-0740

LOCATION: N:\2002\W02074\Dwg\WECOM2 DrawnBy:JKS\2074TITL.dwg
LAYOUT: Title
PLOTTED: January 22, 2004 - 11:36am
PLOTTED BY: Chuck

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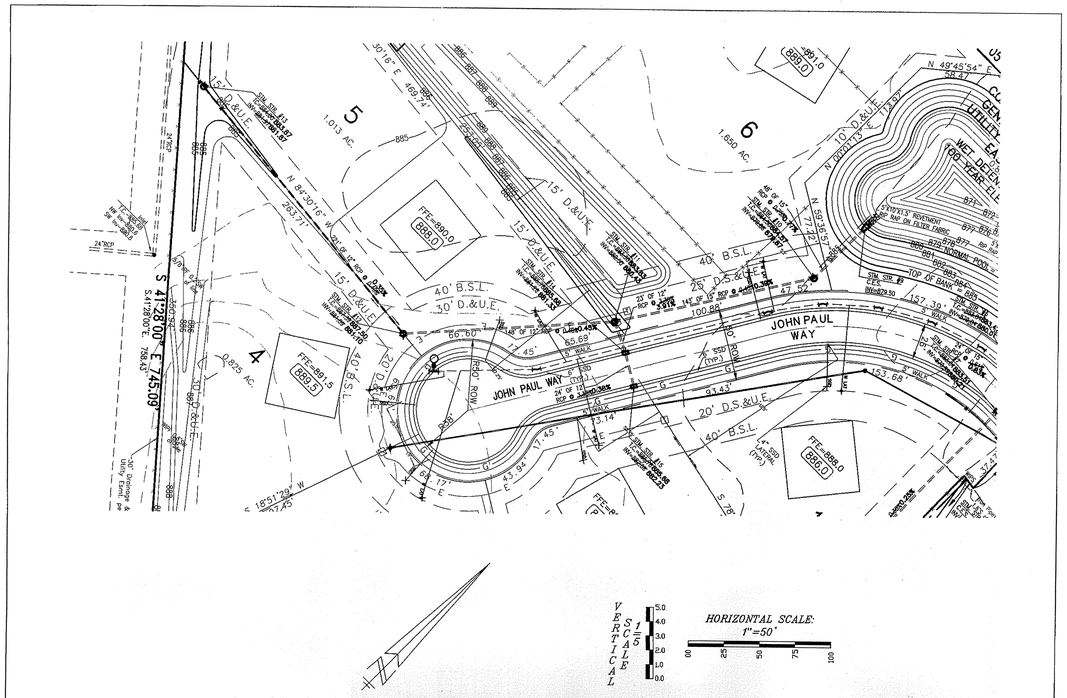

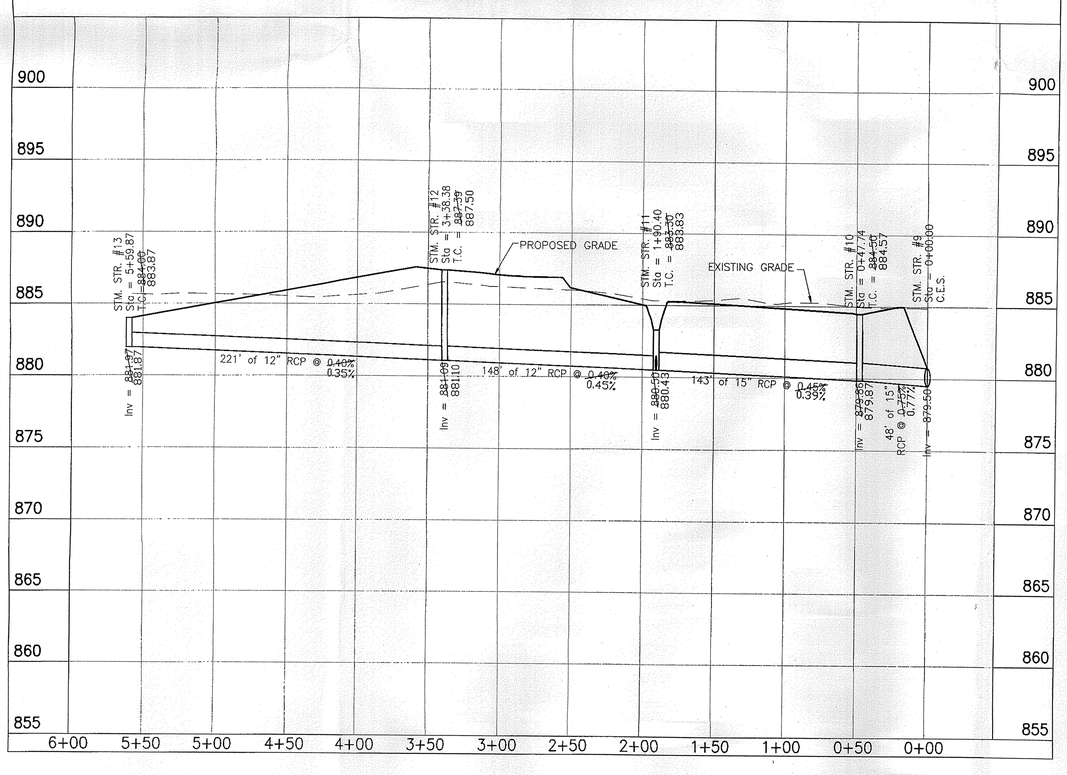

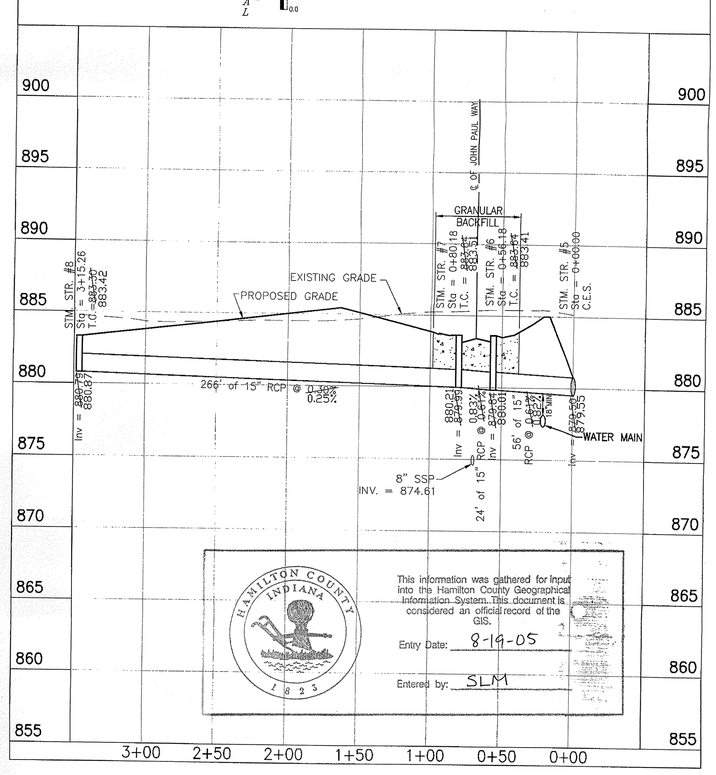

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Entry Date: 8-19-05
Entered by: SLM

LEGEND

- Aerial Utility Lines
- Buried Electric Lines
- Buried Telephone Lines
- Buried Gas Lines
- Power Pole
- Power Pole with Transformer
- Guy Anchor
- Telephone Pedestal
- Telephone Manhole
- Electric Meter
- Electrical Transformer
- Gas Meter
- Gas Pipeline Marker
- Water Valve
- Water Meter
- Underdrain
- Sanitary Sewer Service
- Fire Hydrant
- Yard Light
- Mailbox
- Air Conditioner
- Cleanout
- Inlet
- TP = Survey Control Point
- RWMF = Right-of-Way Marker Found
- WIPS = 5/8" Rebar with WEIHE cap set 8/14/02
- WIPF = 5/8" Rebar with WEIHE cap found
- WBF = Wood Board Fence
- SRF = Split Rail Fence
- CLF = Chain-Link Fence
- C.C. = Certificate of Correction

All fencing is wood board fence, unless otherwise noted.

Areas around existing buildings are not included.

- AS-BUILT WATER MAIN LATERAL
- AS-BUILT SUB-SURFACE DRAIN

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
12/15/03

WEIHE ENGINEERS, INC.
10595 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE (800) 452-6408
ALLAN H. WEIHE
REGISTERED CIVIL ENGINEER
REGISTERED LAND SURVEYOR
PRESIDENT
CIVIL ENGINEERS • LAND SURVEYORS • LAND PLANNERS • LANDSCAPE ARCHITECTS

REVISIONS	DATE	BY
MINOR REVISIONS TO ALL SHEETS PER CARMEL T.A.C.	01/27/03	JKS
DRY POND TO WET POND REVISIONS	3/20/03	JKS/GSB
MINOR REVISIONS PER CARMEL UTILITIES	4/11/03	JKS
MINOR REVISIONS PER HAMILTON CO. SOIL & WATER	4/11/03	JKS
ADD CITY OF CARMEL, HAMILTON CO. SURVEYOR AND HAMILTON CO. DRAINAGE BOARD	4/30/03	JKS/GSB
UNDERDRAIN CONNECTION AND CURB TAPER REVISIONS	5/16/03	GSB
SANITARY, STORM SEWER & WATER AS-BUILTS	12/15/03	SJR

PROJECT NO.: W02-0740
DWG. NAME: 5-PLAN.DWG
FIELD BY: JKS
DRAWN BY: JKS/GSB
CHECKED BY: DOP
DATE: 04/30/2003

JAMES K. SHINNEMAN REGISTERED NO. 10200392 STATE OF INDIANA PROFESSIONAL ENGINEER
JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
VILLAGE OF MOUNT CARMEL
TENTH SECTION
ELLIOTT WRIGHT GROUP

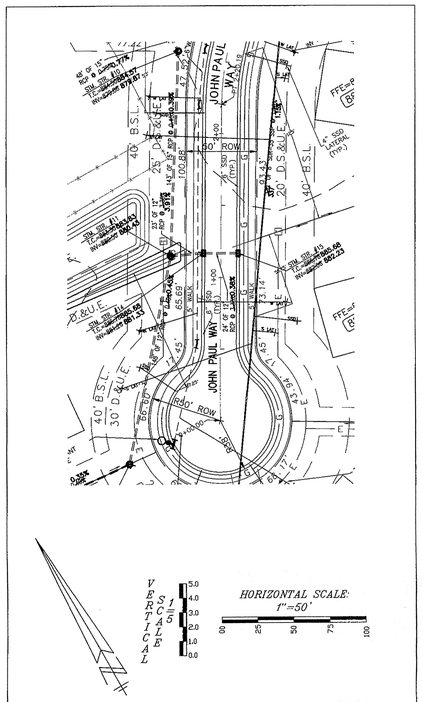
STORM PLAN AND PROFILE
Part of the Northwest 1/4 of Section 23, Township 18 North, Range 3 East, Clay Township, Hamilton County, Indiana.

SHEET NO. 5

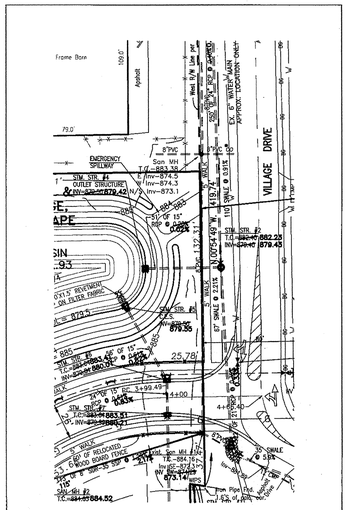
PROJECT NO. W02-0740

LOCATION: M:\2002\W02074\0-sys\RECORD DRAWINGS\02740SYM-AS BUILTS.dwg
USER: Gregory
DATE/TIME: January 22, 2004 - 11:43am
PLOTTED BY: Hyatt

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; One Hamilton Co. Square, Ste. 188, Noblesville, In



INFO WRONG. USED WRONG structure & Invert. See above profile for correct Data. SLM 10-13-05



LEGEND

- AE AE = Aerial Utility Lines
- GE GE = Buried Electric Lines
- DT DT = Buried Telephone Lines
- GG GG = Buried Gas Lines
- = Power Pole
- = Power Pole with Transformer
- = Guy Anchor
- T.Ped.# = Telephone Pedestal
- = Telephone Manhole
- = Electric Meter
- = Electrical Transformer
- GM# = Gas Meter
- GPM# = Gas Pipeline Marker
- WV# = Water Valve
- WM# = Water Meter
- UD = Underdrain
- SS = Sanitary Sewer Service
- FH# = Fire Hydrant
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- MB# = Mailbox
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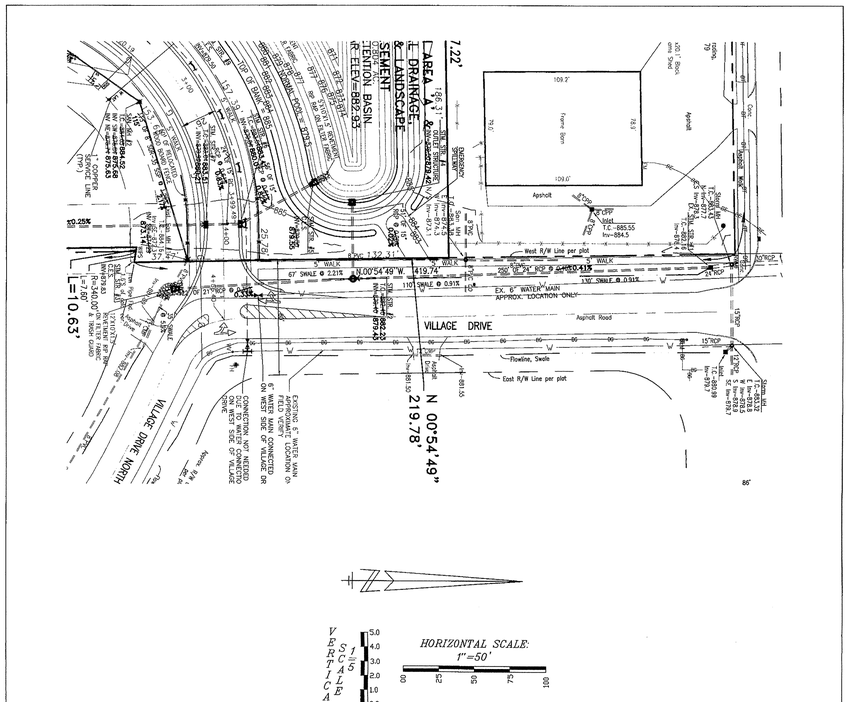
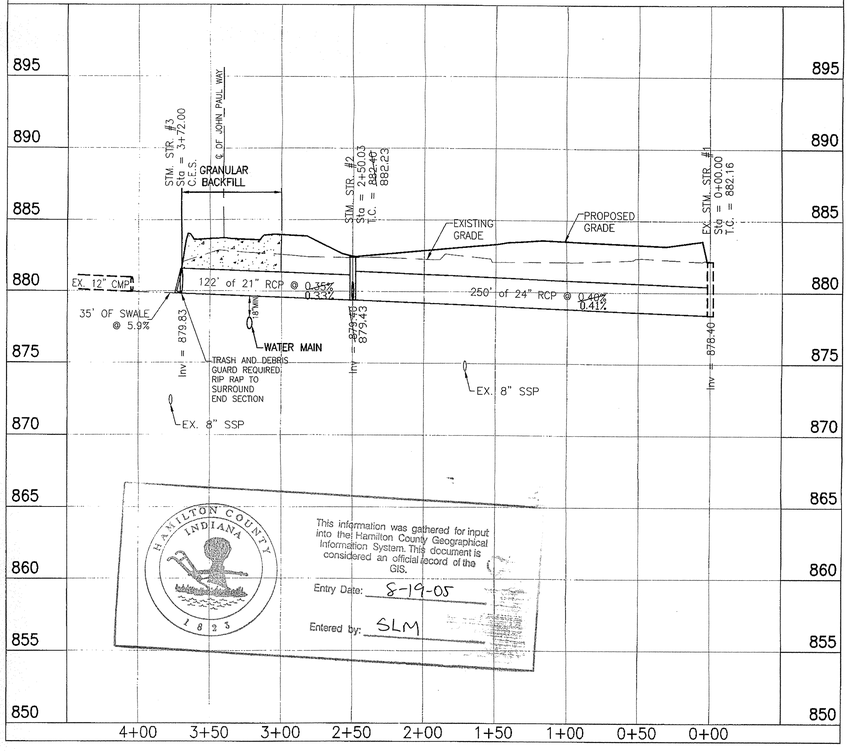
All fencing is wood board fence, unless otherwise noted.

Areas around existing buildings are not included.

- AS-BUILT WATER MAIN LATERAL
- AS-BUILT SUB-SURFACE DRAIN





HAMILTON COUNTY INDIANA 1823
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: 8-19-05
Entered by: SLM

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
12/15/03

WEIHE ENGINEERS, INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE (800) 452-6408
ALLAN H. WEIHE
REGISTERED CIVIL ENGINEER
REGISTERED LAND SURVEYOR
PRESIDENT
CIVIL ENGINEERS • LAND SURVEYORS • LAND PLANNERS • LANDSCAPE ARCHITECTS

REVISIONS	DATE	BY
MINOR REVISIONS TO ALL SHEETS PER CARMEL T.A.C. MINOR REVISIONS TO PLAN SHEETS PER CLIENT	01/13/03	JAS
MINOR REVISIONS TO PLAN SHEETS PER CLIENT	01/15/03	JAS
MINOR REVISIONS TO SANITARY PER CARMEL UTILITIES	3/21/03	JAS
MINOR REVISIONS TO SANITARY PER CARMEL UTILITIES	4/04/03	JAS
MINOR REVISIONS PER HAMILTON CO. SURVEYOR AND UNDERDRAIN CONNECTION AND CURB TAPER REVISIONS PER CITY OF CARMEL	4/30/03	JAS/CDR
SANITARY, STORM SEWER & WATER AS-BUILTS	5/15/03	CDR
	12/15/03	SDP

PROJECT NO.: W02-0740
DWG. NAME: SANITARY/STORM
DRAWN BY: CDR/JAS
CHECKED BY: SDP
DATE: 04/30/2003

JAMES K. SHINNEMAN REGISTERED NO. 10200392 STATE OF INDIANA PROFESSIONAL ENGINEER
JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
VILLAGE OF MOUNT CARMEL
TENTH SECTION
ELLIOTT WRIGHT GROUP

STORM PLAN AND PROFILE
Part of the Northeast 1/4 of Section 28, Township 18 North, Range 4 East, Clay Township, Hamilton County, Indiana

SHEET NO.
6

PROJECT NO.
W02-0740

LOCATION: H:\2002\W02-0740\dwg\VRECORD DRAWINGS\W02-0740STM-AS BUILTS.dwg
LAYOUT: Storm Sewer
DATE/TIME: January 22, 2004 - 11:52am
PLOTTED BY: jparis

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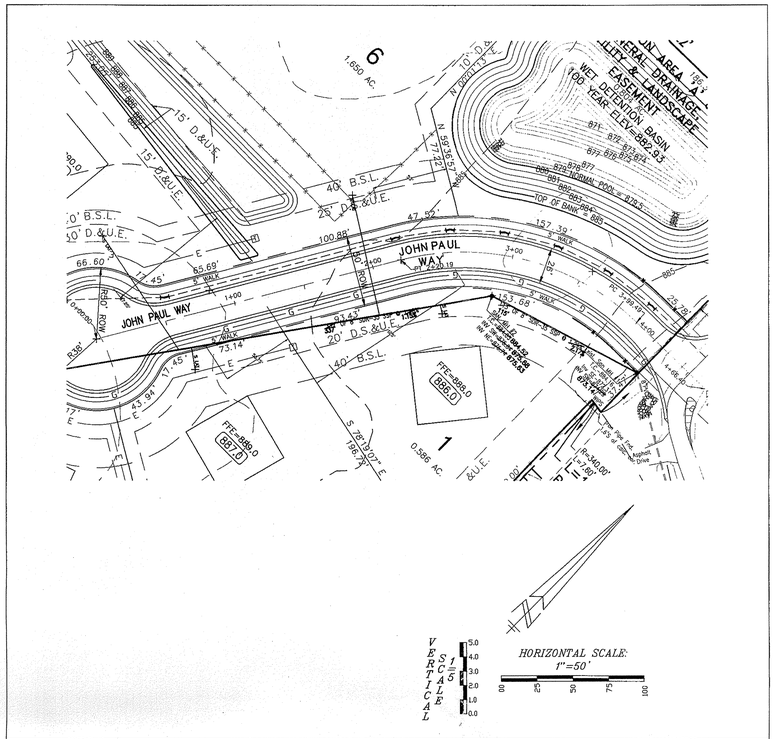

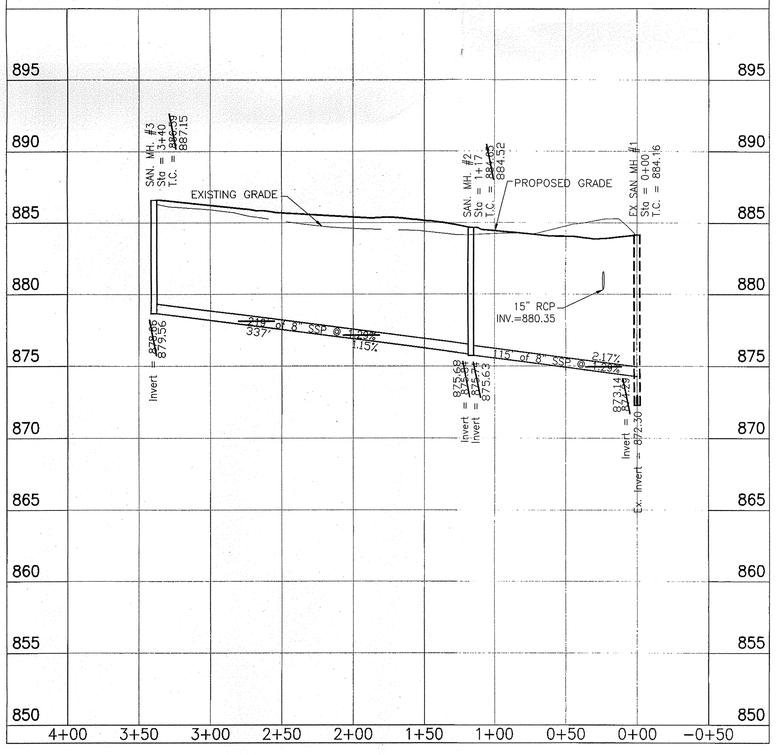

NOTE:
ALL SANITARY LATERALS WITHIN THE RIGHT-OF-WAY ARE REQUIRED TO HAVE FULL DEPTH GRANULAR BACKFILL.

LATERAL LOCATION TABLE

STATIONING IS FROM NEAREST DOWNSTREAM MANHOLE

LOT #	NEAREST DOWNSTREAM MANHOLE	STATIONING
1	2	~~36~~ 39'
6	2	~~84~~ 80'
2	2	~~209~~ 215'
5	2	~~209~~ 225'
3	2	~~223~~ 338'
4	2	~~223~~ 338'

X S LAT — AS-BUILT SANITARY LATERAL

HAMILTON COUNTY INDIANA 1823
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: 8-19-05
Entered by: SLM

RECORD DRAWING
SANITARY SEWER AS-BUILTS
SANITARY SEWER STRUCTURES ONLY
12/15/03

WEIHE ENGINEERS, INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX (317) 843-8546
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REGISTERED CIVIL ENGINEER
REGISTERED LAND SURVEYOR
PRESIDENT
CIVIL ENGINEERS • LAND SURVEYORS • LAND PLANNERS • LANDSCAPE ARCHITECTS

REVISIONS	DATE	BY
MINOR REVISIONS TO ALL SHEETS PER CARMEL T.A.C.	01/17/01	JKS
MINOR REVISIONS TO ALL SHEETS PER CLIENT	01/17/01	JKS
DRY POND TO WET POND REVISIONS	3/20/03	JKS/CDR
MINOR REVISIONS PER SMART PIT, POND, & UTILITIES	4/03/03	JKS
MINOR REVISIONS PER SMART PIT, POND, & UTILITIES	4/03/03	JKS
MINOR REVISIONS PER HAMILTON CO. SURVEYOR AND CARMEL DRAINAGE BOARD	4/30/03	JKS/CDR
UNDERDRAIN CONNECTION AND CURB INFOR REVISIONS	5/16/03	CDR
SANITARY, STORM SEWER & WATER AS-BUILTS	12/15/03	SR

PROJECT NO: W02-0740
DRAWING NO: 07-ASBUILT
FIELD BY: JKS
DRAWN BY: CDR/JKS
CHECKED BY: DGP
DATE: 12/30/2003

JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
VILLAGE OF MOUNT CARMEL
TENTH SECTION
ELLIOTT WRIGHT GROUP

SANITARY PLAN AND PROFILE
Part of the Northeast 1/4 of Section 25, Township 18 North, Range 3 East, City of Carmel, Hamilton County, Indiana

SHEET NO. 7

PROJECT NO. W02-0740

LOCATION: H:\2002\W02-0740\<xrefs\RECORD DRAWINGS\07-0740-ASBUILT.dwg
LAYOUT: Sanitary
DATE/TIME: January 22, 2004 - 11:44am
PLOTTED BY: rvera

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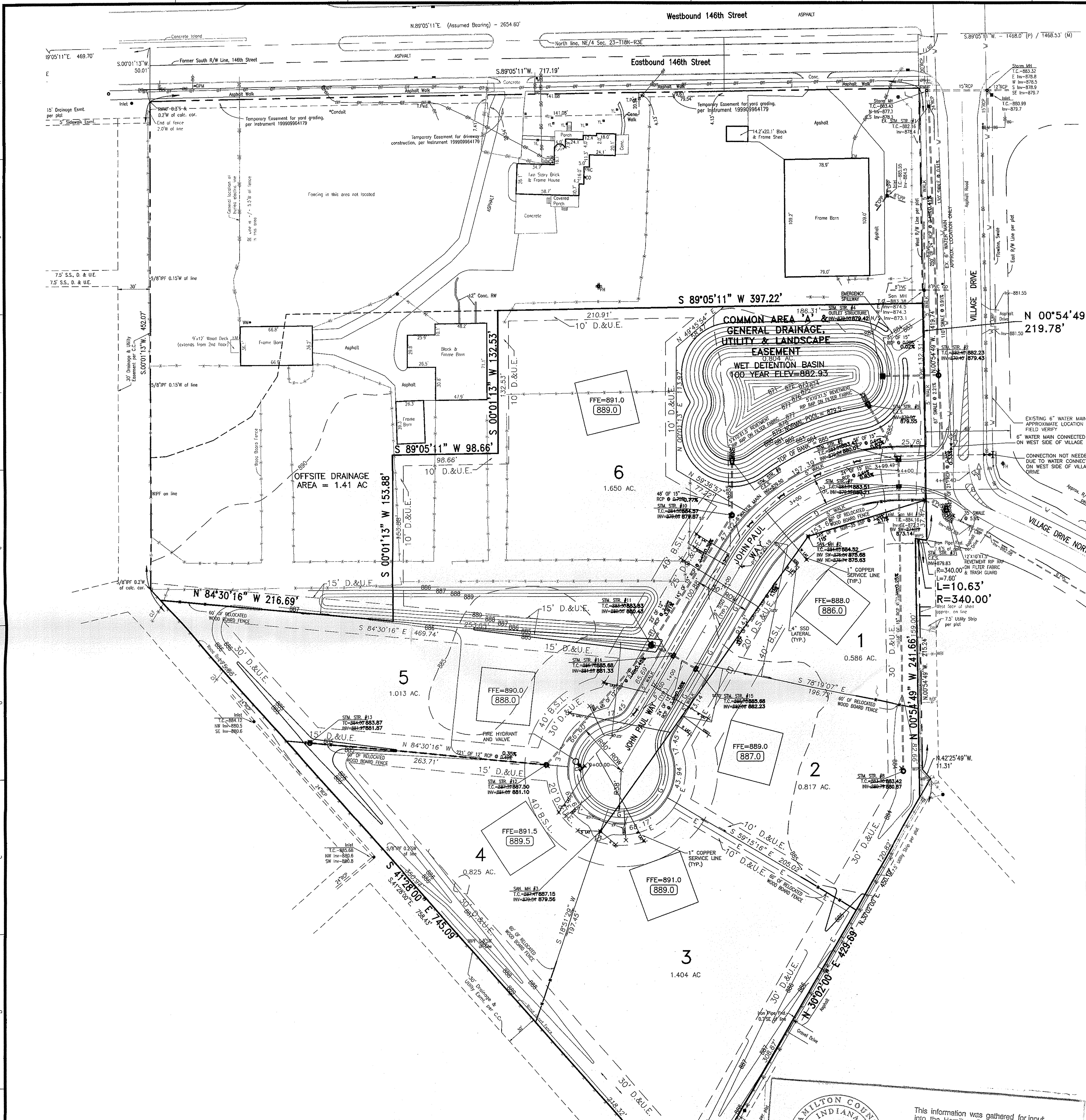

CITY OF CARMEL UTILITY

PIPE INSTALLATION

All work shall be in the best practices of the water utility industry and the American Water Works Association, and in accordance with all applicable Federal, State, and local codes and regulations.

Furthermore:

1) Any damage done to the City of Carmel Utility's system by the Contractor of his affiliates shall immediately be repaired, to the satisfaction and direction of the City of Carmel Utility by the Contractor at his own expense.

2) Should the Contractor propose to depart from the specifications contained herein, he shall submit samples and/or specifications of such alternatives to the City of Carmel Utility before proceeding.

3) No work shall be performed under conditions which in the opinion of the City of Carmel Utilities would adversely affect the quality of the finished job.

4) The Contractor shall conduct his work so as not to interfere with the present operation of the existing City of Carmel Utility's water/sanitary sewer system. If any work interference is encountered between the City of Carmel Utility and the Contractor, the City of Carmel Utility will receive priority in scheduling.

CITY OF CARMEL WATER UTILITY

Developer Installed Water Mains

1) Contractors shall call City of Carmel Utility for an on-site pre-construction meeting before work begins. Contractor must have approved plans on-site and all materials to be used must be approved by a City of Carmel Utility inspector.

2) Contractor will allow inspection by City of Carmel Utility inspectors during the construction of the water main extension and will honor the City of Carmel Utility's request for field changes in main extensions related to location, workmanship and materials as they relate to City of Carmel Utility standards and specifications.

3) The Contractor will have water main extensions pressure tested per City of Carmel Utility specifications and witnessed by City of Carmel Utility's inspector.

4) The Contractor will conduct the disinfection of water main extension, with direct supervision by a City of Carmel Utility Operator.

5) Only after the water main extension passes the City of Carmel Utility's laboratory testing, and two (2) sets of AS-BUILT plans have been turned in to the City of Carmel Utility, will the water be turned on by the City of Carmel Utility.

CITY OF CARMEL UTILITY STANDARDS NOTES:

1) Absolutely no Kennedy Fire Hydrants or Valves are allowed.

2) Only Tyler Valve Boxes are allowed.

3) Ductile Iron Pipe in lengths of 20 feet is the only length allowed.

4) Posi-Caps or the equivalent are required on all water valve installations.

GENERAL UTILITY NOTES:

1. VERIFY LOCATION OF ALL PROPOSED UTILITIES (WATER, SANITARY, STORM, GAS, ELECTRIC, TELEPHONE AND CABLE) WITH RESPECTIVE UTILITY COMPANY OR GOVERNMENTAL AGENCY BEFORE BEGINNING ANY UNDERGROUND UTILITY INSTALLATIONS. COORDINATE ALL UNDERGROUND UTILITY INSTALLATIONS AND WORK BY RESPECTIVE UTILITY COMPANIES.

2. NOTIFY RESPECTIVE UTILITY COMPANY OR GOVERNMENTAL AGENCY FOR REQUIRED INSPECTIONS BEFORE BEGINNING WORK.

SCALE: 1" = 50'

0 25 50 100

LEGEND

- AE AE = Aerial Utility Lines
- BE BE = Buried Electric Lines
- BT BT = Buried Telephone Lines
- BG BG = Buried Gas Lines
- = Power Pole
- = Power Pole with Transformer
- GA = Guy Anchor
- T.Ped. = Telephone Pedestal
- = Telephone Manhole
- EM = Electric Meter
- = Electrical Transformer
- GM = Gas Meter
- GPM = Gas Pipeline Marker
- WV = Water Valve
- WM = Water Meter
- UD = Underdrain
- SS = Sanitary Sewer Service
- FH = Fire Hydrant
- YL = Yard Light
- MB = Mailbox
- AC = Air Conditioner
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- SRF = Split Rail Fence
- CLF = Chain-Link Fence
- C.C. = Certificate of Correction

All fencing is wood board fence, unless otherwise noted.

Areas around existing buildings are not included.

- W LAT AS-BUILT WATER MAIN LATERAL
- SSD AS-BUILT SUB-SURFACE DRAIN
- S LAT AS-BUILT SANITARY LATERAL

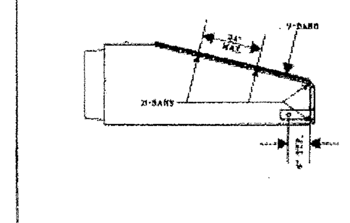
NOTE: NO VALVES WILL BE PERMITTED UNDER PAVEMENT.

NOTE: ALL WATER LATERALS TO BE 1.0" K COPPER WITH STREET SIDE ANGLE VALVE

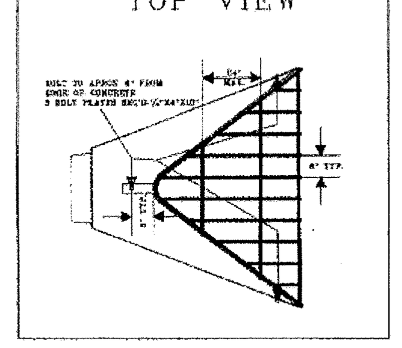
OFFICE OF THE HAMILTON COUNTY SURVEYOR

DEBRIS GUARD

SIDE PROFILE



TOP VIEW



	Apron Size Inches	V-bar Size Inches	No. of H-bars Req'd	H-bar Size Inches	Bolt Dia. Inches	"A" Dim. Inches
Arch pipe aprons	18	1/2	3	5/8	1/2	5
	24	5/8	4	3/4	1/2	7
	30	5/8	4	3/4	1/2	7 1/2
	36	3/4	4	1	1/2	10 1/2
	42	3/4	4	1	3/4	11
	48	3/4	4	1½pipe	3/4	12
	54	3/4	4	1½pipe	3/4	12
	60	3/4	5	1½pipe	3/4	14
	72	3/4	5	1½pipe	3/4	14
	84	3/4	6	1½pipe	3/4	16
Round pipe aprons	12	1/2	3	5/8	1/2	4
	15	1/2	3	5/8	1/2	4 1/2
	18	1/2	4	5/8	1/2	4 1/2
	21	1/2	4	5/8	1/2	5
	24	5/8	4	3/4	1/2	5
	27	5/8	4	3/4	1/2	5 1/2
	30	5/8	4	3/4	1/2	5 1/2
	36	3/4	4	1	3/4	8
	42	3/4	4	1	3/4	8
	48	3/4	5	1	3/4	8
	54	3/4	5	1½pipe	3/4	8
	60	3/4	5	1½pipe	3/4	8
	66	3/4	6	1½pipe	3/4	8
	72	3/4	6	1½pipe	3/4	9
	84	3/4	7	1½pipe	3/4	10
	90	3/4	7	1½pipe	3/4	14

NOTES:
1. BARS & PLATES ARE HOT-ROLLED STEEL.
2. BARS, PLATES, & PIPIE ARE FINISHED WITH 2 COATS OF ALUMINUM PAINT.
3. BOLTS ARE GALVINIZED
4. NO REBAR THROUGH PIPES WILL BE ALLOWED
5. DEBRIS GUARD SHALL BE REMOVABLE

(DRAWING NOT TO SCALE)

HAMILTON COUNTY SURVEYOR'S OFFICE

REVISED: 1 JAN 2000

APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR 4-14-00 DATE

STANDARD PLAN D-12

CAUTION!!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHER) 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 SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION

PLEASE CALL "HOLEY MOLEY"
1-800-382-5544
TOLL FREE

RECORD DRAWING

WATER AS-BUILTS
WATER STRUCTURES ONLY
12/15/03

RECORD DRAWING
SANITARY SEWER AS-BUILTS
SANITARY SEWER STRUCTURES ONLY
12/15/03

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
12/15/03

HAMILTON COUNTY INDIANA 1823

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: 8-19-05

Entered by: SLM

WEIHE ENGINEERS, INC.

10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE (800) 452-6408

ALLAN H. WEIHE
REGISTERED CIVIL ENGINEER
REGISTERED LAND SURVEYOR
PRESIDENT

CIVIL ENGINEERS * LAND SURVEYORS * LAND PLANNERS * LANDSCAPE ARCHITECTS

PROJECT NO.: W02-0740
DWG NAME: 20740WTR.DWG
FIELD BY:
DRAWN BY: CDR/JKS
CHECKED BY: DGP
DATE: 04/30/2003

REVISIONS	DATE	BY
MINOR REVISIONS TO ALL SHEETS PER CARMEL T.A.C.	01/27/03	JKS
MINOR REVISIONS TO ALL SHEETS PER CLIENT	03/12/03	JKS
DRY POND TO WET POND REVISIONS	3/20/03	JKS/CDR
MINOR REVISIONS TO SANITARY PER CARMEL UTILITIES	3/31/03	JKS
MINOR REVISIONS PER HAMILTON CO. SOIL & WATER	4/03/03	JKS
MINOR REVISIONS PER HAMILTON CO. SURVEYOR AND CITY OF CARMEL	4/30/03	JKS/CDR
UNDERDRAIN CONNECTION AND CURB TAPER REVISIONS PER CITY OF CARMEL	5/16/03	CDR
SANITARY, STORM SEWER & WATER AS-BUILTS	12/15/03	SR

JAMES K. SHINNEMAN REGISTERED NO. 10200392 STATE OF INDIANA PROFESSIONAL ENGINEER

JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:

VILLAGE OF MOUNT CARMEL
TENTH SECTION

ELLIOTT WRIGHT GROUP

SITE UTILITY/WATER PLAN

Part of the Northeast 1/4 of Section 23, Township 18 North, Range 3 East, Clay Township, Hamilton County, Indiana

SHEET NO. 10

PROJECT NO. W02-0740

LOCATION: H:\2002\W020740\eng\RECORD DRAWINGS\20740WTR-AS BUILTS.dwg
LAYOUT: Utility&Water
DATE/TIME: January 22, 2004 -- 11:53am
PLOTTED BY: ryans

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STORM SEWER STRUCTURE TABLE

	STRUCTURE NUMBER	STRUCTURE TYPE	CASTING TYPE	TOP OF CASTING	INVERT	
	STM STR #1	EX INLET	BEEHIVE	882.16	878.40	
	STM STR #2	INLET	BEEHIVE	~~882.40~~ 882.23	~~879.40~~ 879.43	
	STM STR #3	C.E.S.	------	------	879.83	
	STM STR #4	INLET	OUTLET STR.	~~883.00~~ 882.52	~~879.50~~ 879.42	
	STM STR #5	C.E.S.	------	------	~~879.50~~ 879.55	
*	STM STR #6	INLET	CURB	~~883.64~~ 883.41	~~879.84~~ 880.01	*
*	STM STR #7	INLET	CURB	~~883.64~~ 883.51	~~879.99~~ 880.21	*
	STM STR #8	INLET	BEEHIVE	~~883.30~~ 883.27	~~880.79~~ 880.87	
	STM STR #9	C.E.S.	------	------	879.50	
	STM STR #10	INLET	BEEHIVE	~~884.50~~ 884.57	~~879.86~~ 879.87	
	STM STR #11	INLET	BEEHIVE	~~883.30~~ 883.83	~~880.50~~ 880.43	
	STM STR #12	MANHOLE	SOLID	~~887.39~~ 887.5	~~881.09~~ 881.10	
	STM STR #13	INLET	BEEHIVE	~~884.00~~ 883.87	~~881.97~~ 881.87	
*	STM STR #14	INLET	CURB	~~885.76~~ 885.68	~~881.26~~ 881.33	*
*	STM STR #15	INLET	CURB	~~885.76~~ 885.68	~~882.06~~ 882.23	*

*NOTE: CONNECT 6" UNDERDRAIN
3'-4' BELOW TOP OF CASTING ELEVATION

SANITARY SEWER STRUCTURE TABLE

STRUCTURE NUMBER	TOP OF CASTING	INVERT (IN)	INVERT (OUT)
SAN MH #1	884.16	~~874.29~~ 873.14	872.30
SAN MH #2	~~884.65~~ 884.52	~~875.84~~ 875.68	~~875.74~~ 875.63
SAN MH #3	~~886.59~~ 887.15	------	~~878.66~~ 879.56

THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN **SPECIFIED** AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS*. DEVIATIONS FROM THE APPROVED DESIGN SHALL ONLY BE PERMITTED DUE TO SPECIAL CIRCUMSTANCES OR DIFFICULTY DURING CONSTRUCTION AND WILL REQUIRE **PRIOR FIELD APPROVAL** FROM A DESIGNATED REPRESENTATIVE OF THE CITY OF CARMEL IN ADDITION TO SUPPLEMENTAL APPROVAL BY THE DESIGN ENGINEER. AN EXPLANATION OF ANY SUCH DEVIATION SHALL BE INCLUDED AS A REQUIREMENT ON AS-BUILT/RECORD DRAWINGS SUBMITTED FOR RELEASE OF PERFORMANCE GUARANTEES. APPROVED DESIGN SLOPES IDENTIFIED AS GENERATING VELOCITIES OF 2.5 FPS OR LESS SHALL REQUIRE AS-BUILT CERTIFICATION AT THE TIME OF CONSTRUCTION.

*THE CONTRACTOR SHALL FIELD CHECK EACH SECTION OF STORM PIPE **AS IT IS BEING INSTALLED** TO ENSURE COMPLIANCE WITH THE DESIGN PLANS.

LEGEND

- AE AE = Aerial Utility Lines
- BE BE = Buried Electric Lines
- BT BT = Buried Telephone Lines
- BG BG = Buried Gas Lines
- = Power Pole
- = Power Pole with Transformer
- GA = Guy Anchor
- T.Ped. = Telephone Pedestal
- = Telephone Manhole
- EM = Electric Meter
- T = Electrical Transformer
- GM = Gas Meter
- GPM = Gas Pipeline Marker
- WV = Water Valve
- WM = Water Meter
- UD = Underdrain
- SS = Sanitary Sewer Service
- FH = Fire Hydrant
- YL = Yard Light
- MB = Mailbox
- AC = Air Conditioner
- CO = Cleanout
- = Inlet
- TP = Survey Control Point
- RWMF = Right-of-Way Marker Found
- WIPS = 5/8" Rebar with WEIHE cap set 8/14/02
- WIPF = 5/8" Rebar with WEIHE cap found
- WBF = Wood Board Fence
- SRF = Split Rail Fence
- CLF = Chain-Link Fence
- C.C. = Certificate of Correction

- W LAT — AS-BUILT WATER MAIN LATERAL
- SSD — AS-BUILT SUB-SURFACE DRAIN
- S LAT — AS-BUILT SANITARY LATERAL

All fencing is wood board fence, unless otherwise noted.

Areas around existing buildings are not included.

SCALE: 1" = 50'
0 25 50 100

BENCHMARK

RAILROAD SPIKE IN THE SOUTH SIDE OF A POWER POLE PER AMERICAN CONSULTING ENGINEERS SURVEY CONTROL PLAT FOR 146TH STREET (JOB 97-614). (TBM #28)
ELEVATION = 884.33 (NAVD 1988)

TEMPORARY BENCHMARK

THE NORTHWEST BASE BOLT ON A LIGHT STANDARD ON THE EAST SIDE OF AN ASPHALT DRIVE AT OUR LADY OF MOUNT CARMEL CATHOLIC CHURCH, BEING DIRECTLY EAST OF THE BUILDING, AND APPROXIMATELY 20 FEET SOUTH OF A 21" MAPLE TREE. (ESTABLISHED IN WEIHE ENGINEERS, INC. JOB W00-895)
ELEVATION = 883.60

INTERSECTION DETAIL

CAUTION!!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLET VALVES, AND MARKS MADE UPON THE GROUND BY OTHER) 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 SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION

PLEASE CALL 'HOLEY MOLEY'
1-800-382-5544
TOLL FREE

RECORD DRAWING
WATER AS-BUILTS
WATER STRUCTURES ONLY
12/15/03

RECORD DRAWING
SANITARY SEWER AS-BUILTS
SANITARY SEWER STRUCTURES ONLY
12/15/03

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
12/15/03

HAMILTON COUNTY INDIANA 1823

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: 8-19-05

Entered by: SLM

WEIHE ENGINEERS, INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE (800) 452-6408

ALLAN H. WEIHE
REGISTERED CIVIL ENGINEER
REGISTERED LAND SURVEYOR
PRESIDENT

CIVIL ENGINEERS * LAND SURVEYORS * LAND PLANNERS * LANDSCAPE ARCHITECTS

PROJECT NO.: W02-0740
DWG NAME: 20740DEV.DWG
FIELD BY:
DRAWN BY: CDR/JKS
CHECKED BY: DGP
DATE: 04/30/2003

REVISIONS	DATE	BY
MINOR REVISIONS TO ALL SHEETS PER CARMEL T.A.C.	01/27/03	JKS
MINOR REVISIONS TO ALL SHEETS PER CLIENT	03/12/03	JKS
DRY POND TO WET POND REVISIONS	3/20/03	JKS/CDR
MINOR REVISIONS TO SANITARY PER CARMEL UTILITIES	3/31/03	JKS
MINOR REVISIONS PER HAMILTON CO. SOIL & WATER	4/03/03	JKS
MINOR REVISIONS PER HAMILTON CO. SURVEYOR AND CITY OF CARMEL	4/30/03	JKS/CDR
UNDERDRAIN CONNECTION AND CURB TAPER REVISIONS PER CITY OF CARMEL	5/16/03	CDR
SANITARY, STORM SEWER & WATER AS-BUILTS	12/15/03	SR

JAMES K. SHINNEMAN REGISTERED NO. 10200392 STATE OF INDIANA PROFESSIONAL ENGINEER
JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
VILLAGE OF MOUNT CARMEL TENTH SECTION
ELLIOTT WRIGHT GROUP

DEVELOPMENT LAYOUT PLAN

Part of the Northeast 1/4 of Section 23, Township 18 North, Range 3 East, Clay Township, Hamilton County, Indiana

SHEET NO. 3

PROJECT NO. W02-0740

LOCATION: H:\2002\W020740\eng\RECORD DRAWINGS\20740DEV-ASBUILT.dwg
LAYOUT: Development
DATE/TIME: January 29, 2004 - 3:17pm
PLOTTED BY: ryans

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VILLAGE FARMS
(Section B)

Sec. 14, T.18N., R.3E.
WASHINGTON TWP.
HAMILTON COUNTY

Sec. 23, T.18N., R.3E.
CLAY TWP.
HAMILTON COUNTY

CURVE DATA
P.I. 18+696.572 "B"
Δ = 20°0'0"
R = 304.000 m
T = 53.603 m
L = 106.116 m
E = 4.690 m

18+500 | 18+600 | 18+700 | 18+800

Two Gaits Development Co.

STRUCTURE NO. 37 | STRUCTURE NO. 33 | STRUCTURE NO. 29 | STRUCTURE NO. 28 | STRUCTURE NO. 27 | STRUCTURE NO. 30 | STRUCTURE NO. 32 | STRUCTURE NO. 31 | STRUCTURE NO. 36 | STRUCTURE NO. 35 | STRUCTURE NO. 34 | STRUCTURE NO. 34A (END OF Pipe) *not Installed ? | STRUCTURE NO. 39 | STRUCTURE NO. 38 | STRUCTURE NO. 42 | STRUCTURE NO. 41 | STRUCTURE NO. 47 | STRUCTURE NO. 45 | STRUCTURE NO. 44 | STRUCTURE NO. 43 | STRUCTURE NO. 40 | STRUCTURE NO. 46

Line "B" N89°13'23"E
App. Section Line
146th Street
P.C. 18+642.969 "B"
P.T. 18+749.085 "B"
P.I. 18+696.572 "B"
App. ℄ & R/W
App. ℄
15.24 m R/W
Temp. R/W for Yard Grading
Temp. R/W for Drive Constr.
Temp. R/W for Yard grading
Village Drive
Village of Mt. Carmel
140m of 750mm Pipe @ +0.33%
8m of 750mm Pipe @ +0.33%
70m of 375mm Pipe @ -0.60%
9m of 450mm Pipe
Spl. "V" Ditch Req'd. Rt
Ralph L. Wilfong
Ronald J. & Sheila L. Fullerton
Michael J. & Donna S. Depinet
Michael P. Marmion
Roman Catholic Diocese of Lafayette In., Inc.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "B" EXCEPT AS SHOWN

VILLAGE OF MT. CARMEL

P.V.I. Sta. 18+450
Elev. 269.419
EV = Elev. 269.419
TA = 18+450
= 18+450
= 269.419
1.200
5.000
30m V.C.

P.V.I. Sta. 18+533
HIGH POINT ELEV = 269.344
HIGH POINT STA = 18+528.789
Elev. 269.911
40m V.C.
PVI STA = 18+533
PVI ELEV = 269.917
A.D. = -1.520
K = 26.316
40.000m VC

P.V.I. Sta. 18+617
Elev. 269.144
LOW POINT ELEV = 269.217
LOW POINT STA = 18+621.211
40m V.C.
PVI STA = 18+617
PVI ELEV = 269.144
A.D. = 1.520
K = 26.316
40.000m VC

P.V.I. Sta. 18+663
Elev. 269.420
HIGH POINT ELEV = 269.375
HIGH POINT STA = 18+662.999
30m V.C.
PVI STA = 18+663
PVI ELEV = 269.420
A.D. = -1.200
K = 24.998
30.000m VC

T.B.M. #28-R.R. Spike in S. Side Pw.P., 8.5 m N. of ℄ 146th. St., 83.8 m East of ℄ Village Drive.
Elev. = 269.542

272 | 270 | 268

-0.600% | -0.920% | +0.600% | +1.148% | -0.26% | -0.600% | 0.60%

18+500 | 18+600 | 18+700 | 18+800

This information was gathered for input into the Hamilton County Geographical Information System. Only documents considered an official record of the GIS.
Entry Date: 10-13-05
Entered by: SLM
HAMILTON COUNTY INDIANA 1823

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: DRAWN:
CHECKED: CHECKED:

HAMILTON COUNTY HIGHWAY DEPARTMENT

PLAN AND PROFILE

HORIZONTAL SCALE	BRIDGE FILE
1:500	
VERTICAL SCALE	DESIGNATION
1:100	
SURVEY BOOK	SHEETS
	7 of
CONTRACT	PROJECT

DWG FILE: J:\97\97-614\97614R11
PLOT SCALE: 1:500
PLOT ORIGIN: 15872.31,15064.34

SPELLCHK:
EDIT DATE: 03/16/99 09:56:31
EDITED BY: WAW - S104

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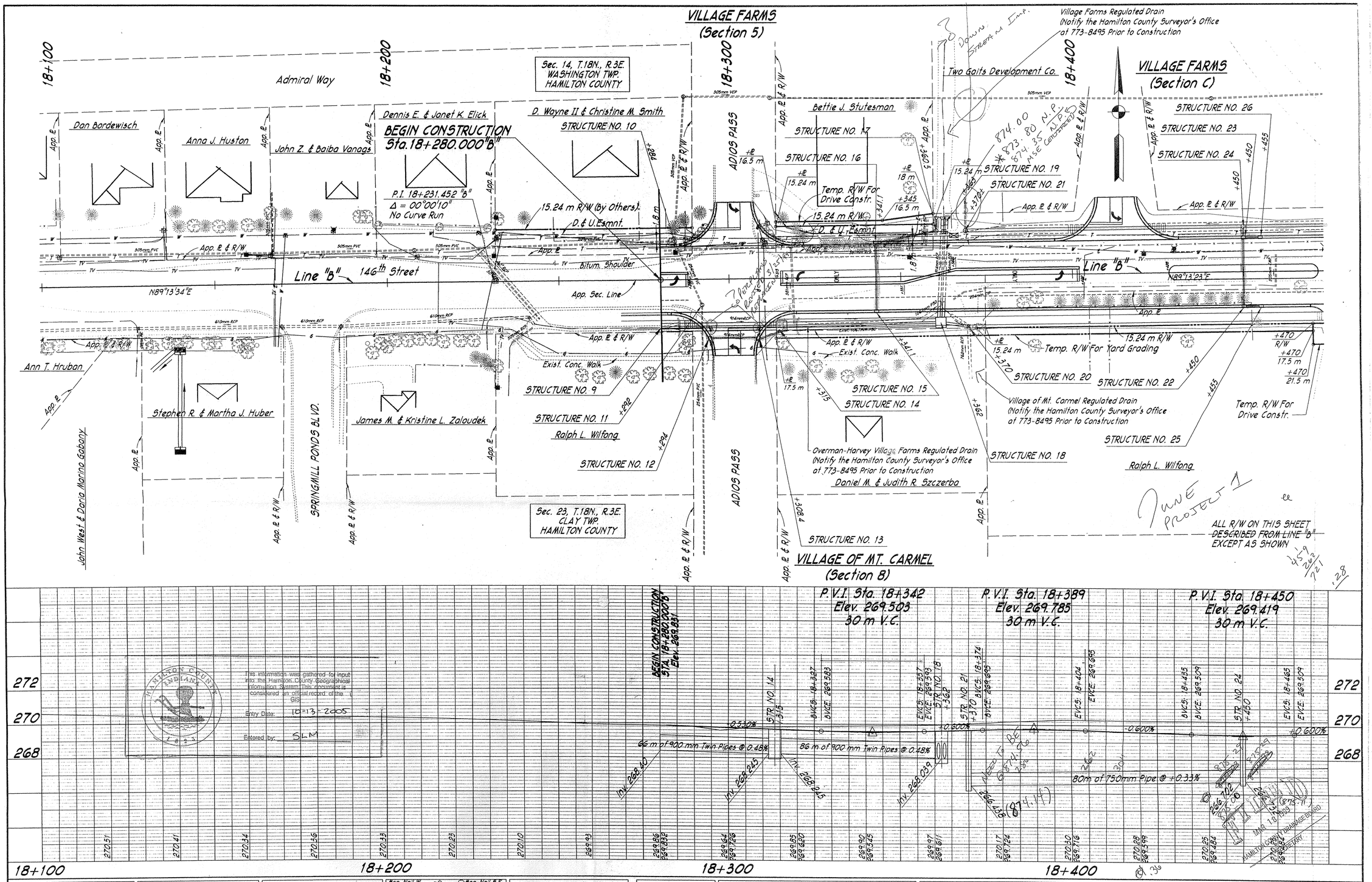

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	
DESIGNED: W.E.H.	DRAWN: W.A.W.		
CHECKED: P.D.G.	CHECKED: W.E.H.		

HAMILTON COUNTY
HIGHWAY DEPARTMENT

PLAN AND PROFILE

HORIZONTAL SCALE 1:500	BRIDGE FILE
VERTICAL SCALE 1:100	DESIGNATION
SURVEY BOOK	SHEETS 6 of
CONTRACT	PROJECT HCHD PR-97-0006

DWG FILE: J:\97\97-614\97614R10
PLOT SCALE: 1:500
PLOT ORIGIN: 15872.31,15064.34

SPELLCHK:
EDIT DATE: 03/16/99 09:34:59
EDITED BY: WAW - S104

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STRUCTURE DATA

* IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW ARE TO BE USED.

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HCHD PR-97-0006	1998		

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE	DESCRIPTION GROUP	DESCRIPTION SEE STD. SHEET "MP" FOR ACCEPTABLE TYPE OF PIPE WITH-IN EACH GROUP	LENGTH	SKEW	FLOW LINE COVER	FLOW LINE UP STREAM	FLOW LINE DOWN STREAM	CONCRETE CLASS "A"*	"B" BORROW FOR STR. BACKFILL	BACKFILL METHOD	GAGES OR THICKNESS STEEL*	GAGES OR THICKNESS ALUM.*	VELOCITY	RIPRAP	PIPE END SECTION	REINF. STEEL	CONNECT TO STRUCTURE NO.	REMARKS
					mm			meters			ELEV.	ELEV.	m^3	m^3					m^2	EA.	Kg.	
	LINE "B"																					
9	18+280		X		900			64			268.410	268.258										14	Twin Pipes - Remove Headwall in Place
10	18+284	X					Manhole in PLace (San.)																Adjust Casting to Grade
11	18+292		X				Manhole in PLace (San.)																Adjust Casting to Grade
12	18+293.5		X				Inlet Type B-15	15															
13	18+309		X				Catch Basin Type C-15	4														14	
14	18+319		X		900		5p'l. M.H. W/Type 4 Casting	96			268.258	268.039										18	Twin Pipes - Remove Headwall in Place
15	18+341.1		X		300	12"	Inlet Type B-15	19.5	6A'		268.351	268.255										16	
16	18+341.1	X			300	12"	Catch Basin Type C-15	17	55°		268.255	267.945										17	
17	18+360.5	X			300	12"	Manhole Type C-4	3	10°		267.945	267.907								1			Outlet in Ditch
18	18+362		X		900		5p'l. Manhole W/Type 4	11			268.039	268.014											Twin Pipes - Connect to Existing Pipes
19	18+363	X			900			4			267.916	267.907								2			Twin Pipes - Outlet in Ditch - Connect to Existing Pipes
20	18+370		X		750		Inlet in Place	7			Exist. Inv.	268.180										18	
21	18+370	X					Manhole in PLace (Storm)				266.438	268.159											Adjust Casting to Grade
22	18+450		X		300	12"	Inlet Type B-15	19.5	6A'		268.255	268.159										23	
23	18+450	X			300	12"	Catch Basin Type C-15	2	6.5°		268.159	268.149										24	
24	18+450	X			750	30"	Manhole Type D-4	80	20.2°		266.702	266.438										21	
25	18+455		X		300	12"	Inlet Type B-15	4	13°		268.275	268.255										22	
26	18+455	X			300	12"	Inlet Type B-15	4	13°		268.275	268.159										23	
27	18+590		X		300	12"	Inlet Type B-15	19.5	6A'		268.199	268.103										28	
28	18+590	X			300	12"	Catch Basin Type C-15	2	6.5°		268.103	268.093										29	
29	18+590	X			750	30"	Manhole Type D-4	140	45.9°		267.194	266.732										24	
30	18+597		X		300	12"	Catch Basin Type E-7	1.5	5°		268.267	268.034										32	
31	18+598		X		600	24"	Pipe	2	6.5°		267.744	267.734										32	Seal & Cap, Upstream End of Pipe
32	18+598		X		600	24"	Manhole Type D-4	28	9.1°		267.584	267.444										33	
33	18+598	X			750	30"	Manhole Type D-4	8	26°		267.250	267.224										29	
34	18+612		X		450	18"	Manhole Type C-4	14	44°		267.828	267.758										32	
35	18+614		X		300	12"	Catch Basin Type E-7	1.5	5°		268.066	267.978										34	
36	18+621.2		X		300	12"	Catch Basin Type B-15	9	29°		268.023	267.978										34	
37	18+621.2	X			300	12"	Catch Basin Type B-15	22	72°		268.023	267.864										33	
38	18+671		X		300		Pipe	6												2			Construct Pipe Under Drive
39	18+704		X		300		Pipe	6												2			Construct Pipe Under Drive
40	18+740		X		300		Inlet Type B-15	19.5			268.049	267.951										41	
41	18+740	X			375		Catch Basin Type C-15	2.5			267.951	267.938										42	
42	18+740	X			375		Manhole Type C-4	70			267.823	267.403										45	
43	18+810		X		300		Inlet Type B-15	19.5			267.629	267.531										44	
44	18+810	X			375		Catch Basin Type C-15	2.5			267.531	267.518										45	
45	18+810	X			450		Manhole Type C-4	9			267.342	267.288										47	
46	18+819			X	750		Pipe	30			267.194	267.044								1		47	
47	18+819	X			750		5p'l. M.H. W/Type 4 Casting	50			267.044	266.894										51	
48	18+831		X		300		Pipe	16			268.150	267.990								2			Construct Pipe Under Approach
49	18+860		X		300		Inlet Type B-15	19.5			267.329	267.231										50	
50	18+860	X			300		Catch Basin Type C-15	8.5			267.231	267.188										51	
51	18+869	X			1050		5p'l. Manhole W/Type 4	5.5			266.894	266.828	(Exist.)										Connect to Existing 42" Pipe
52	18+910		X		375		Inlet Type B-15	19.5			267.133	267.035										53	
53	18+910	X			375		Catch Basin Type C-15	2.5			267.035	267.023										54	
54	18+910	X			900		5p'l. M.H. W/Type 4 Casting	41			267.001	266.894										51	
55	18+914		X		300		Inlet Type B-15	3.5			267.150	267.133										52	
56	18+914	X			300		Inlet Type B-15	3.5			267.150	267.035										53	
57	18+918	X			900		5p'l. Manhole W/Type 4	8			267.022	267.001										54	
58	18+923.5			X	450		Pipe	32			267.196	267.100								1		57	
59	18+975		X		300		Inlet Type B-15	23			267.421	267.306										60	
60	18+975	X			300		Catch Basin Type C-15	2.5			267.306	267.294										61	
61	18+975	X			750		5p'l. M.H. W/Type 4 Casting	57			267.170	267.022										57	
62	19+026	X			750		Manhole Type D-4	51			267.303	267.170										61	
63	19+080		X		300		Inlet Type B-15	26			268.360	268.230										64	
64	19+080	X			300		Catch Basin Type C-15	2			268.230	268.220										65	
65	19+080	X			300		Manhole Type C-4	18.5			268.220	267.725										153	
66	19+220		X		300		Inlet Type B-15	19.5			269.070	268.974										67	
67	19+220	X			300		Inlet Type C-15	7			268.974	268.939										68	
68	19+220	X			300		Catch Basin Type F-7	66			268.939	267.738										71	
69	19+285		X		300		Inlet Type B-15	19.5			267.848	267.752										70	
70	19+285	X			300		Catch Basin Type C-15	2.5			267.752	267.740										71	
71	19+285	X			375		Manhole Type C-4	79			267.664	265.942										74	
72	19+364		X		300		Inlet Type C-15	19.5			266.128	266.031										73	
73	19+364	X			300		Catch Basin Type C-15	2.5			266.031	266.019										74	
74	19+364	X			525		Manhole Type C-4	52			265.869	265.593										78	
75	19+368		X		300		Catch Basin Type E-7	18			266.308	266.128										72	
76	19+416.3		X		300		Inlet Type B-15	18.5			265.852	265.756										77	
77	19+416.3	X			300		Catch Basin Type C-15	2.5			265.756	265.744										78	
78	19+416.3	X			525		Manhole Type C-4	42			265.519	265.057										79	
79	19+458	X			525		Manhole Type C-4	67			265.057	264.320										83	
80	19+490		X				Manhole in Place (San.)																Adjust Casting to Grade
81	19+525		X		300		Inlet Type B-15	18.5			264.651	264.555										82	
82	19+525	X			300		Catch Basin Type C-15				264.555	264.542										83	
83	19+525	X			600		Manhole Type C-4	78			264.242	263.345										88	
84	19+590		X		300		Inlet Type B-15	11.5			263.810	263.752										86	
85	19+590	X			300		Inlet Type B-15	11.5			263.810	263.656										87	
86	19+602.7		X		300		Inlet Type C w/Neenah Casting	18.5			263.752	263.656										87	
87	19+602.7	X			300		Catch Basin Type C-15				263.656	263.644										88	
88	19+602.7	X			600		Manhole Type C-4	102			263.345	262.325										92	
89	19+611		X				Manhole in Place (San.)																Adjust Casting to Grade
90	19+705		X		300		Catch Basin Type B-15	18.5			263.440	263.344										91	
91	19+705	X			300		Catch Basin Type C-15	3			263.344	263.329										92	
92	19+705	X			750		Manhole Type D-4	75			262.175	261.425										98	
93	19+705	X			300		Catch Basin Type E-7	3.5			263.475	263.329										92	
94	19+726		X				Manhole in Place (Tele.)																Adjust Casting to Grade (by Others)
95	19+733		X				Manhole in Place (San.)																Adjust Casting to Grade

This information was authored for input into the Hamilton County Geographical Information System. This document is considered to be an official record of the GIS.

Entry Date: 10-13-97

Entered by: SLM

HAMILTON COUNTY SURVEYOR'S OFFICE

LEGEND FOR ABBREVIATION

F.B.C.C.S./P.I.---FULLY BITUMINOUS COATED CORRUGATED STEEL WITH PAVED INVERT.
F.B.C.C.A.A./P.I.-FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY WITH PAVED INVERT.
F.B.C.C.S.-------FULLY BITUMINOUS COATED CORRUGATED STEEL
C.S.------------CORRUGATED STEEL.
C.A.A.----------CORRUGATED ALUMINUM.
S.P.S.----------STRUCTURAL PLATE STEEL

F.B.C.S.A./P.I.---FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH WITH PAVED INVERT.
F.B.C.C.A.A./P.I.-FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ARCH WITH PAVED INVERT.
F.B.C.C.A.-------FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH.
F.B.C.C.A.A.-----FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ARCH.
C.S.A.----------CORRUGATED STEEL ARCH.
C.A.A.----------CORRUGATED ALUMINUM ARCH.
S.P.S.A.--------STRUCTURAL PLATE STEEL ARCH.

APPROVED
HAMILTON COUNTY DRAINAGE BOARD
SECRETARY

DWG FILE: K:\97\97-614\97614R06
PLOT SCALE: 1:1.000
PLOT ORIGIN: 0.00,0.00
SPELLCHK:
EDIT DATE: 03/17/99 09:40:52
EDITED BY: RCM - S103

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