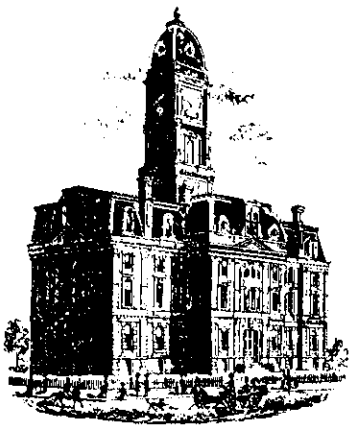


Drain: TJ PATTERSON Drain #: 47  
 Improvement/Arm: BROOKS CHASE  
 Operator: J. LIVINGSTON Date: 5/24/04  
 Drain Classification: Urban ~~Rural~~ Year Installed: 2002

### GIS Drain Input Checklist

- Pull Source Documents for Scanning JL
- 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 JL
- Enter Drain Age into Posse \_\_\_\_\_
- Sum drain length for Watershed in Posse \_\_\_\_\_
- Check Database entries for errors \_\_\_\_\_



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*

September 23, 2002

To: Hamilton County Drainage Board

Re: T. J. Patterson Drain

Attached is a petition and plans for the proposed reconstruction and relocation of the T. J. Patterson Drain. The reconstruction and relocation is petitioned by C. P. Morgan Communities. The proposal is to reconstruct and relocate the existing tile drain between Sta 37+94 and Sta 0+00 as shown on the plans by The Schneider Corporation dated July 1, 2002. (Brooks Chase Offsite Drainage Plan – Job #3788.001)

The total length of the new open ditch shall be 3,794 feet. Of the 3,794 feet of new open ditch, 600 feet between Sta 16+00 and Sta 10+00 will not consist of removal of the existing tile drain. The existing T. J. Patterson Drain will have a breather stand pipe set at Sta 10+00 and will remain in place to Sta 16+00 where the tile drain will outlet with a 20 foot section of cmp into the new open drain. The existing drain to remain will consist of 650 feet. This proposal will add an additional 600 feet to the drains total length.

This reconstruction and relocation will affect the following property owners:

13-11-22-00-00-008.000	Marilyn Bubenzer
13-11-22-00-00-009.000	Gordon W. & Sonja L. McCauley
13-11-22-00-00-010.000	Charlie & Loretta Hoskins
13-11-22-00-00-014.000	David L. & Venitia L. Rollins
13-11-22-00-00-014.003	Robert E. & Marsha A. Wilson
13-11-22-00-00-014.005	David L. & Venitia L. Rollins
13-11-22-00-01-001.000	Keith A. & Cynthia S. Thomas
13-11-23-00-00-002.000	Interstate Holdings c/o Republic Development

The open ditch will be constructed within the existing 75 foot easement in the locations where the existing tile will be removed and the existing 75 foot easement will remain in effect. From Sta 10+00 to Sta 16+00 (parcel #13-11-22-00-00-008.000) a non-enforcement has been submitted to reduce the easement to 25 feet from the top of bank. An existing platted 15 foot drainage and utility easement in the Countryside addition on parcel 13-11-22-00-01-001.000 will consist of the 25 foot easement from the top of bank.

Crossing pipes shall be provided on the following parcels:

13-11-22-00-00-009.000	20' of 24" RCP
13-11-22-00-00-010.000	20' of 24" RCP
13-11-22-00-00-014.003	44' of 48" RCP
13-11-22-00-00-014.000	20' of 48" RCP
13-11-22-00-00-014.005	20' of 48" RCP

The new crossing on Brooks School Road will consist of 80 feet of 48 inch RCP.

I recommend the current maintenance assessments established at the April 23, 2001 Drainage Board Meeting remain in effect.

The cost of the reconstruction and relocation is to be paid by the developer, C. P. Morgan Communities.

I recommend the Board set a hearing for this item for October 28, 2002.

Kenton C. Ward  
Hamilton County Surveyor

KCW/llm

70 Patterson Relocation

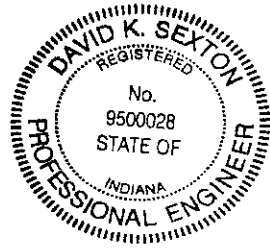
ESTIMATE OF PROBABLE COSTS

PROJECT: BROOKS CHASE OFFSITE DRAINAGE DATE: SEPTEMBER 22, 2004  
LOCATION: HAMILTON COUNTY ITEM: SUMMARY JOB #: 3788.001

DESCRIPTION	TOTAL
EARTHWORK	\$57,460.00
STORM SEWER	\$49,710.00
PAVEMENT, CURBS	\$7,500.00
EROSION CONTROL	\$41,580.00
CONTINGENCIES (5%)	\$7,812.50
<b>T O T A L</b>	<b>\$164,062.50</b>

I certify that this estimate was prepared under my supervision and that it represents an estimate of costs for materials and labor to make the improvements shown on the construction plans and is based on standard methods of estimating such costs effective at the time the estimate was prepared.

By: David K. Sexton  
David K. Sexton, P.E. 9/22/04  
The Schneider Corporation  
12821 E. New Market Street, Suite 100  
Carmel, IN 46032



**ESTIMATE OF PROBABLE COSTS**

**PROJECT: BROOKS CHASE OFFSITE DRAINAGE**

**DATE: SEPTEMBER 22, 2004**

**LOCATION: HAMILTON COUNTY**

**ITEM: EARTHWORK**

**JOB #: 3788 001**

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
STRIPPING - TOPSOIL	5800	CYDS	\$1.75	\$10,150.00
EARTHMOVING	16600	CYDS	\$2.85	\$47,310.00
<b>TOTAL EARTHWORK</b>				<b>\$57,460.00</b>

N:\3k\3788\001\ss\estimate-offsite09-22-04









STATE OF INDIANA     )  
                          ) ss:  
COUNTY OF HAMILTON )

BEFORE THE HAMILTON COUNTY  
DRAINAGE BOARD  
NOBLESVILLE, INDIANA

IN THE MATTER OF THE  
RECONSTRUCTION OF THE  
*T. J. Patterson Drain*

**FINDINGS AND ORDER FOR RECONSTRUCTION**

The matter of the proposed Reconstruction of the *T. J. Patterson Drain* came before the Hamilton County Drainage Board for hearing on *October 28th, 2002*, on the Reconstruction Report consisting of the report and the Schedule of Damages and Assessments. The Board also received and considered the written objection of an owner of certain lands affected by the proposed Reconstruction, said owner being:

Evidence was heard on the Reconstruction Report and on the aforementioned objections.

The Board, having considered the evidence and objections, and, upon motion duly made, seconded and unanimously carried, did find and determine that the costs, damages and expenses of the proposed Reconstruction will be less than the benefits accruing to the owners of all land benefited by the Reconstruction.

The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included or omitted from the Schedule of Assessments.

The Board further finds that it has jurisdiction of these proceedings and that all required notices have been duly given or published as required by law.

Wherefore, it is ORDERED, that the proposed Reconstruction of the *T. J. Patterson Drain* be and is hereby declared established.

Thereafter, the Board made inspection for the purpose of determining whether or not the lands of any owners had been erroneously included or excluded from the Schedule of Assessments. The Board finds on the basis of the reports and findings at this hearing as follows:

HAMILTON COUNTY DRAINAGE BOARD

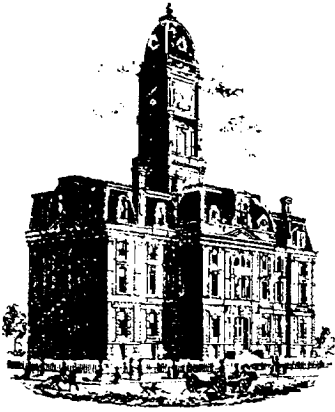
*Sam C. Dillingham*  
\_\_\_\_\_  
PRESIDENT

*Harold R. Clark*  
\_\_\_\_\_  
Member

\_\_\_\_\_  
Member

ATTEST:

*Lezette Masbaum*  
\_\_\_\_\_  
Executive Secretary



SURVEYOR'S OFFICE

# Hamilton County

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

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

**To: Hamilton County Drainage Board**

**September 30, 2008**

**Re: Mud Creek –Sand Creek: TJ Patterson –Brooks Chase Sec. 1  
 Offsite Relocation**

Attached are as-builts, certificate of completion & compliance, and other information for the TJ Patterson – Brooks Chase Sec. 1 Offsite Relocation. 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 September 23, 2002. The report was approved by the Board at the hearing held October 28, 2002. (See Drainage Board Minutes Book 6, Pages 467-469)

The changes are as follows:

Structure:	Length:	Size:	Material:	Up Invert:	Dn Invert
3-4	80	42	RCP	811.56	811.26
1-2	*20	24	RCP	814.87	814.8
5-6	430	40	CPP	810.03	809.89
6-7	150	40	CPP	809.89	809.59

\*Dual Pipes

RCP & CPP Pipe Totals:

24	20
40	580
42	80
<b>Total:</b>	<b>680</b>

Open Ditch	
	660
	1365
	1288
<b>Total:</b>	<b>3313</b>

The length of the drain due to the changes described above is now **3,993 feet**. The TJ Patterson original tile was removed on the Gwinn & Martin portion from Sta. 4+02-25+70. Also removed was Arm 1 of the TJ Patterson from Sta. 0-2+90 and Sta. 10+35 to Sta. 12+72) Therefore, 2595 feet of original tile was removed. Overall, 1298 feet was added to the drain's length.

The non-enforcement was approved by the Board at its meeting on November 12, 2002 and recorded under instrument #200300011383. Sureties were not obtained for this project.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'K. Ward', written over a horizontal line.

Kenton C. Ward, CFM  
Hamilton County Surveyor

KCW/slm



FOR CONTINUATION SEE SHEET C105

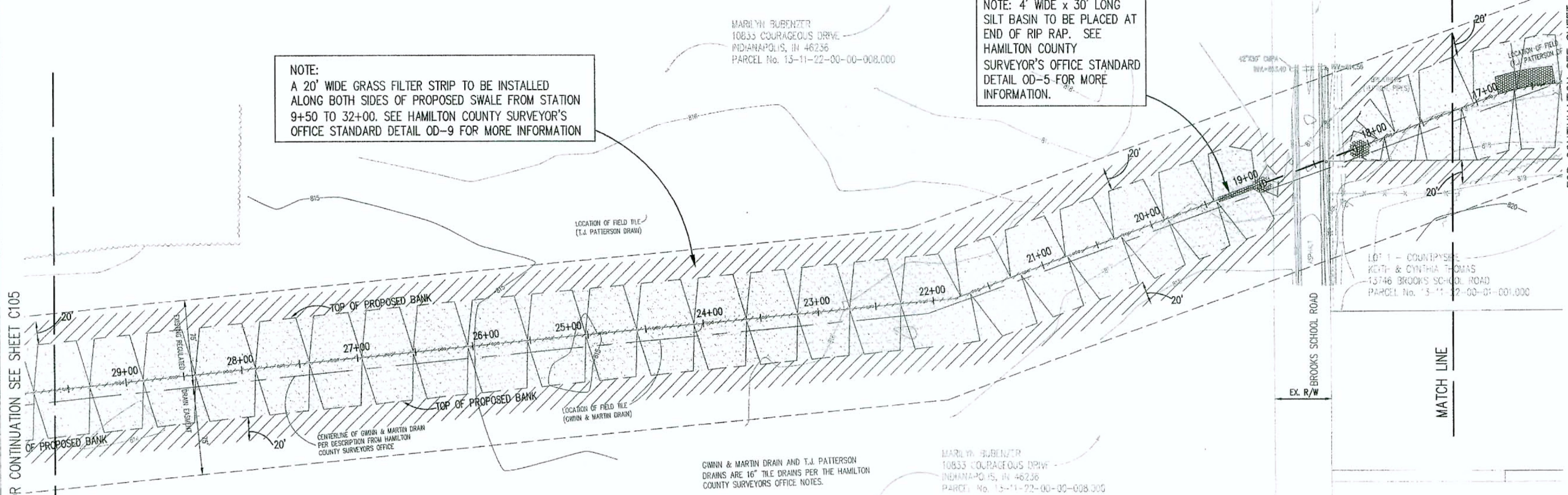
MATCH LINE

GWINN  
DRAINS  
COUNT

MARILYN RUBENZER  
10833 COURAGEOUS DRIVE  
INDIANAPOLIS, IN 46236  
PARCEL No. 15-11-22-00-008.000

NOTE: 4' WIDE x 30' LONG  
SILT BASIN TO BE PLACED AT  
END OF RIP RAP. SEE  
HAMILTON COUNTY  
SURVEYOR'S OFFICE STANDARD  
DETAIL OD-5 FOR MORE  
INFORMATION.

NOTE:  
A 20' WIDE GRASS FILTER STRIP TO BE INSTALLED  
ALONG BOTH SIDES OF PROPOSED SWALE FROM STATION  
9+50 TO 32+00. SEE HAMILTON COUNTY SURVEYOR'S  
OFFICE STANDARD DETAIL OD-9 FOR MORE INFORMATION



NOTE:  
SPOIL FROM CONSTRUCTION OF PROPOSED SWALE TO BE  
PLACED ALONG NORTHERN SIDE OF SWALE AND GRADED  
IN A MANNER SO AS TO AVOID BLOCKAGE OF ANY  
SURFACE DRAINAGE TO SWALE. SEE HAMILTON COUNTY  
SURVEYOR'S OFFICE STANDARD DETAILS OD-6 & OD-8  
FOR MORE INFORMATION.

GWINN & MARTIN DRAIN AND T.J. PATTERSON  
DRAINS ARE 16" TILE DRAINS PER THE HAMILTON  
COUNTY SURVEYOR'S OFFICE NOTES.

MARILYN RUBENZER  
10833 COURAGEOUS DRIVE  
INDIANAPOLIS, IN 46236  
PARCEL No. 15-11-22-00-008.000

LOT 1 - COUNTPSIDE  
KATHY & CYNTHIA THOMAS  
13746 BROOKS SCHOOL ROAD  
PARCEL No. 15-11-22-00-01.000

DON I  
DIG  
BLIND  
"IT'S THE LAW"  
CALL 2 WORKING DAYS BEFORE YOU GO  
1-800-382-5544  
CALL YOUR FIRM  
PER ADAMS STATE LAW 15-69-1291,  
IT IS AGAINST THE LAW TO EXERCISE  
WITHOUT NOTIFYING THE UNDERGROUND  
LOCATION SERVICE TWO (2) WORKING  
DAYS BEFORE COMMENCING WORK.

ASSUMED NORTH  
SCALE: 1"=50'

LEGEND

	Existing Storm Sewer
	New Storm Sewer
	Existing Sanitary Sewer
	New Sanitary Sewer
	Existing Contour

	HATCH PATTERN DENOTES TEMPORARY SEEDING
	HATCH PATTERN DENOTES PERMANENT SEEDING
	HATCH PATTERN DENOTES EROSION CONTROL BLANKET
	CURB INLET SEDIMENT BARRIER (TYP)
	BEEHIVE INLET PROTECTION
	STRAW BALES (TYP)
	SILTATION FENCE
	CONSTRUCTION LIMITS
	TEMPORARY SEDIMENT FILTER/BARRIER

GENERAL NOTES

EROSION AND SEDIMENT CONTROL PLAN SUMMARY AND "RULE 5" DATA  
Project: Brooks Chase, Offsite Drainage Plan  
Nature and Purpose: Reconstruction of Existing Legal Drain  
Estimated Start: SUMMER, 2002  
Estimated Completion of Site Development: SUMMER, 2003  
Topo Maps, Floodway Fringes, Floodways, Sand Creek  
Lakes, Streams, Channels, Ditches, Wetlands, etc.: None  
Existing Soil Types & Description (refer to cover sheet for soils map)  
Brookston Silty Clay Loam: Poorly drained, moderately permeable.  
Crosby Silt Loam: Deep, somewhat poorly drained.  
Receiving Waters: Sand Creek  
Potential Areas Where Stormwater May Enter Groundwater: None known.  
Existing Vegetation: Section One is primarily agricultural row crop land use.  
Adjacent Land Use:  
North - Undeveloped (Proposed Brooks Chase Section 3 Subdivision)  
South - Undeveloped  
East - Undeveloped (Proposed Brooks Chase Section 2 and Section 4 Subdivision)  
West - Undeveloped  
Specific Sequence and Additional Notes: The perimeter swales should be  
constructed and stabilized as early as practical to prevent run-off from leaving the  
site or clear off-site water from washing through the site.

RECORD DRAWINGS



TS all  
12-13-07

This information was gathered for input into the  
Hamilton County Geographic Information  
System (GIS). This document is considered an  
official record of the GIS.  
Entry Date: October 2004  
Entered by: SLM

REVISIONS

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

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  
GIS + LIS  
Home Builder Services  
Interior Design  
Land Surveying  
Landscape Architecture  
Transportation Engineering

BROOKS CHASE  
OFFSITE DRAINAGE PLAN  
FISHERS, INDIANA  
C. P. MORGAN COMMUNITIES, L.P.  
301 EAST CARMEL DRIVE, SUITE E-300, CARMEL, INDIANA 46032-2892

DATE: 07/01/02	PROJECT NO.: 3788.001
DRAWN BY: BET	CHECKED BY:
SHEET TITLE: EROSION CONTROL PLAN	
DRAWING FILES: XREF: 3K\3788\001\DWGS\OS-FIELD TILE\C104-106.DWG XREF: 3K\3788\001\DWGS\SEC-1\SEC-1-65.DWG XREF: 3K\3788\001\DWGS\OFFFELD.DWG XREF: 3K\3788\001\DWGS\3788001.DWG XREF: 3K\3788\002\DWGS\SEC-2-85.DWG	

C105

SEE SHEET C107 FOR ALL  
EROSION CONTROL DETAILS & NOTES

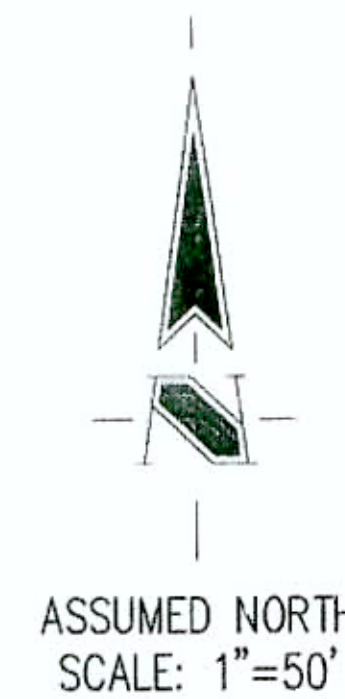
APPROXIMATE CONSTRUCTION SCHEDULE  
START DATE : SUMMER 2002  
COMPLETION DATE : SUMMER 2003

CONTACT PERSON :  
PAUL C. CLAIRE  
C. P. MORGAN COMMUNITIES, L.P.  
301 E. CARMEL DR., SUITE E-300  
CARMEL, INDIANA 46032-2892  
(317) 848-4040

-WARNING-  
THIS SHEET TO BE USED FOR EROSION CONTROL  
PURPOSES ONLY. FOR ANY OTHER INFORMATION SEE  
DEVELOPMENT PLAN.

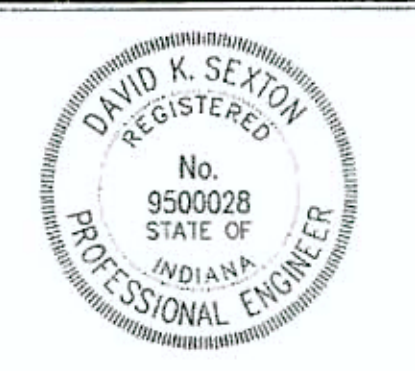


DE M. BULTEMEIER  
#8910368



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CALL TOLL FREE  
PER INDIANA STATE LAW 35-48-155R,  
IT IS AGAINST THE LAW TO EXCAVATE  
WITHOUT NOTIFYING THE UNDERGROUND  
LOCATION SERVICE TWO (2) WORKING  
DAYS BEFORE COMMENCING WORK.

REVISIONS:  
1. DATE 07/27/02 REVISE PER COUNTY SURVEYOR & NECEMA COMMENTS  
2. DATE 09/25/02 REVISE PER COMMENTS



DATE: \_\_\_\_\_  
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**BROOKS CHASE  
OFFSITE DRAINAGE PLAN**  
FISHERS, INDIANA  
C. P. MORGAN COMMUNITIES, L.P.  
301 EAST CARMEL DRIVE, SUITE E-300, CARMEL, INDIANA 46032-2892

**LEGEND**

	Existing Storm Sewer
	New Storm Sewer
	Existing Sanitary Sewer
	New Sanitary Sewer
	Existing Contour

	HATCH PATTERN DENOTES TEMPORARY SEEDING
	HATCH PATTERN DENOTES PERMANENT SEEDING
	HATCH PATTERN DENOTES EROSION CONTROL BLANKET
	CURB INLET SEDIMENT BARRIER (TYP)
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	SILTATION FENCE
	CONSTRUCTION LIMITS
	TEMPORARY SEDIMENT FILTER/BARRIER

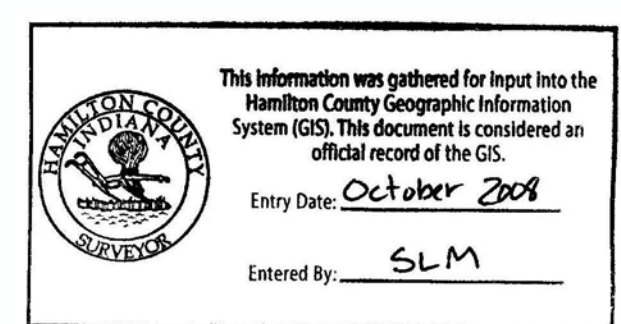
**GENERAL NOTES**

EROSION AND SEDIMENT CONTROL PLAN SUMMARY AND "RULE 5" DATA  
Project: Brooks Chase, Offsite Drainage Plan  
Nature and Purpose: Reconstruction of Existing Legal Drain  
Estimated Start: SUMMER, 2002  
Estimated Completion of Site Development: SUMMER, 2003  
Receiving Water: Sand Creek  
Potential Areas Where Stormwater May Enter Groundwater: None known.  
Existing Vegetation: Section One is primarily agricultural row crop land use.  
Adjacent Land Use:  
North - Undeveloped (Proposed Brooks Chase Section 3 Subdivision)  
South - Undeveloped  
East - Undeveloped (Proposed Brooks Chase Section 2 and Section 4 Subdivision)  
West - Undeveloped  
Specific Sequence and Additional Notes: The perimeter swales should be constructed and stabilized as early as practical to prevent run-off from leaving the site or clean off-site water from washing through the site.

RECORD DRAWINGS

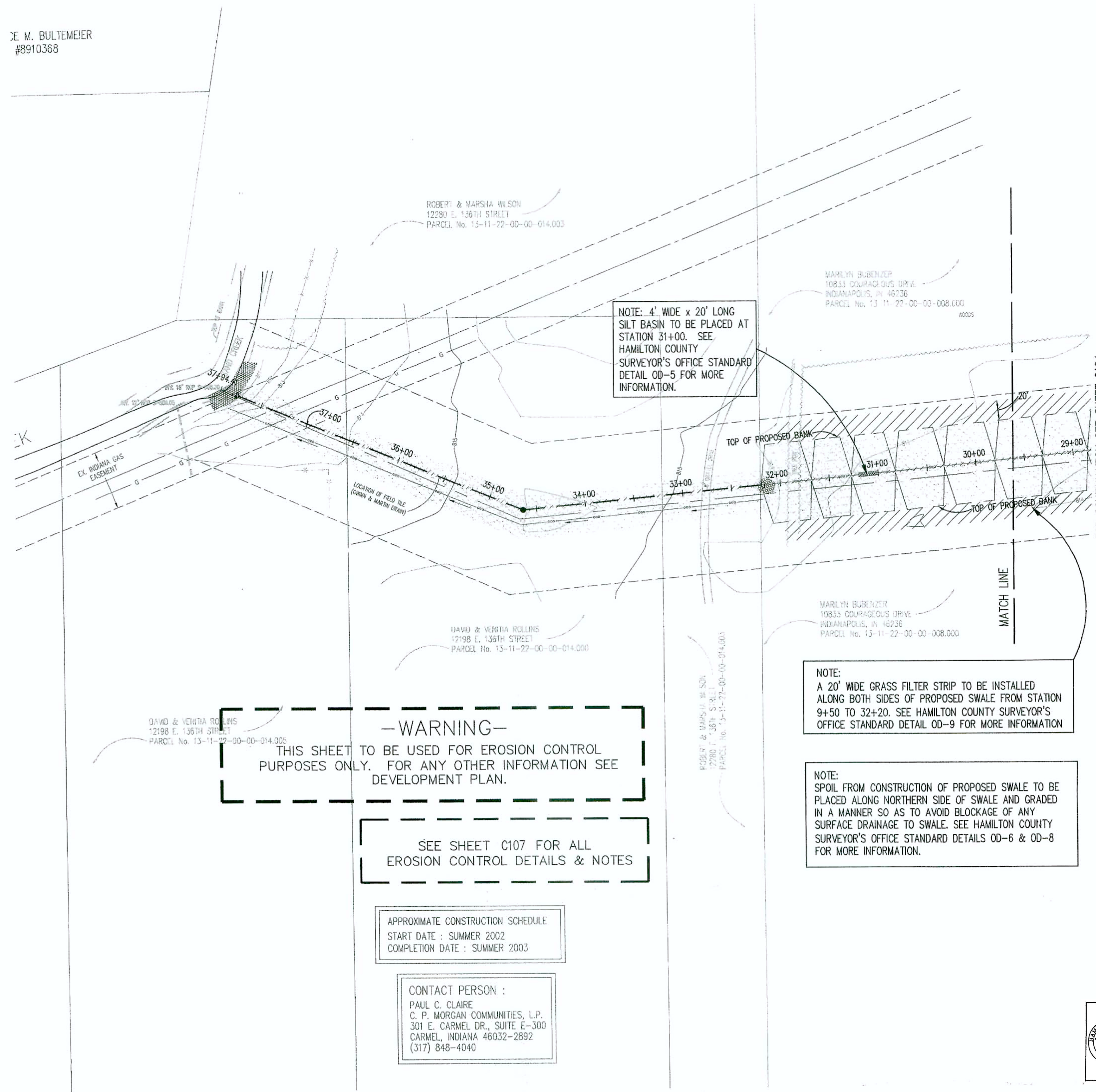


B. Moll  
12-18-07



This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.  
Entry Date: October 2008  
Entered By: SLM

DATE: 07/01/02	PROJECT NO: 3788.001
DRAWN BY: BET	CHECKED BY:
SHEET TITLE: EROSION CONTROL PLAN	
DRAWING FILES: XREF: 36\3788\001\DWG\OS-FIELD TILE C104-108.DWG XREF: 36\3788\001\DWG\SEC-1\SEC-1-ES.DWG XREF: 36\3788\001\DWG\00IPRE3.DWG XREF: 36\3788\001\DWG\3788001S.DWG XREF: 36\3788\002\DWG\SEC-2-ES.DWG	
SHEET NO: C106	



NOTE: 4' WIDE x 20' LONG SILT BASIN TO BE PLACED AT STATION 31+00. SEE HAMILTON COUNTY SURVEYOR'S OFFICE STANDARD DETAIL OD-5 FOR MORE INFORMATION.

NOTE: A 20' WIDE GRASS FILTER STRIP TO BE INSTALLED ALONG BOTH SIDES OF PROPOSED SWALE FROM STATION 9+50 TO 32+20. SEE HAMILTON COUNTY SURVEYOR'S OFFICE STANDARD DETAIL OD-9 FOR MORE INFORMATION.

NOTE: SPOIL FROM CONSTRUCTION OF PROPOSED SWALE TO BE PLACED ALONG NORTHERN SIDE OF SWALE AND GRADED IN A MANNER SO AS TO AVOID BLOCKAGE OF ANY SURFACE DRAINAGE TO SWALE. SEE HAMILTON COUNTY SURVEYOR'S OFFICE STANDARD DETAILS OD-6 & OD-8 FOR MORE INFORMATION.

**-WARNING-**  
THIS SHEET TO BE USED FOR EROSION CONTROL PURPOSES ONLY. FOR ANY OTHER INFORMATION SEE DEVELOPMENT PLAN.

SEE SHEET C107 FOR ALL EROSION CONTROL DETAILS & NOTES

APPROXIMATE CONSTRUCTION SCHEDULE  
START DATE : SUMMER 2002  
COMPLETION DATE : SUMMER 2003

CONTACT PERSON :  
PAUL C. CLAIRE  
C. P. MORGAN COMMUNITIES, L.P.  
301 E. CARMEL DR., SUITE E-300  
CARMEL, INDIANA 46032-2892  
(317) 848-4040



**Seedbed Preparation**

Apply lime to raise the pH to the level needed for species being seeded. Apply 23 pounds of 12-12-12 analysis fertilizer (or equivalent) per 1000 sq. ft. (approximately 1000 pounds per acre) or fertilizer according to test. Application of 150 lbs. of ammonium nitrate on areas low in organic matter and fertility will greatly enhance vegetative growth.

Work the fertilizer and lime into the soil to a depth of 2-3 inches with a harrow, disk or rake operated across the slope as much as possible.

**Seeding** Select a seed mixture based on projected use of the area (Figure 5-2), while considering best seeding dates. See Figure 5-3 for tolerances and problems, such as salt tolerance of seedlings adjacent to streets and highways, see Figure 5-4. This should be done before final selection.

Figure 5-2: Permanent Seed Mixtures

Species	Seeding Rate lbs/acre	Suitable pH	Site Suitability	Drought Tolerance	Wet
<b>Level and Sloping, Open Areas</b>					
1. Tall Fescue	35	.8	5.5-8.3	2	1
2. Tall Fescue Red Clover**	25	.5	5.5-8.3	1	1
3. Kentucky Bluegrass Creeping Red Fescue	15	.4	5.5-7.5	2	1
<b>Steep Slopes and Cuts</b>					
4. Tall Fescue Kentucky Bluegrass	15	.4	5.8-7.5	2	1
5. Tall Fescue Emerald Crownvetch**	35	.8	5.5-8.3	2	1
<b>Lawns and High Maintenance Areas</b>					
6. Kentucky Bluegrass Creeping Red Fescue	40	.8	5.8-7.5	2	1
7. Perennial Ryegrass (Turf Type)	170	4.0	5.0-7.5	1	1
8. Tall Fescue	170	4.0	5.5-8.3	2	1

\* 1 - Preferred 2 - Will Tolerate \*\* Inoculate with specific inoculant.

**Temporary Seeding Dates**

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Wheat or Rye												
Annual Ryegrass												
Non-irrigated*												
Irrigated												
Dormant Seeding**												

Irrigation needed during this period. To control erosion at times other than in the shaded areas, use mulch.

\* Late summer seeding dates may be extended 5 days if mulch is applied.

\*\* Increase seeding application by 50%.

FIGURE 5-3

**Temporary Seedings**

Kind of Seed	1000 Sq. Ft.	Acres	Remarks
Wheat or Rye	3.5 lbs.	2 lbs.	Cover seed 1" to 1 1/2" deep
Spring Date	2.3 lbs.	3 lbs.	Cover seed 1" deep
Annual ryegrass	1 lb.	40 lbs.	Cover seed 1/4" deep*

\* Not necessary where mulch is applied.

Species	SOIL CONDITION		pH	Tolerance	Salt Tolerance	Ranking
	Wet	Normal/Dry				
Creeping Red Fescue Festuca rubra	2	1	2	1	1	1
Kentucky Bluegrass Poa pratensis	2	1	2	1	1	1
Tall Fescue Festuca L. arundinacea	2	1	1	1	1	1
Perennial ryegrass Lolium perenne	2	1	2	1	2	Med-High
Crownvetch Coronilla varia	1	1	2	1	1	Low
Red Clover Trifolium pratense	1	1	2	1	1	Med

Ranking:  
1 Good  
2 Medium  
- Not tolerant

Salt Tolerance (to both soil salts & spray):  
T Tolerance  
MT Medium Tolerance  
S Slight Tolerance

FIGURE 5-4

**EROSION CONTROL MEASURES MAINTENANCE REQUIREMENTS**

- STRAW BALE DAM MAINTENANCE REQUIREMENTS**
- INSPECT STRAW BALE DAMS AFTER EACH STORM EVENT AND PROMPTLY REMOVE ANY SEDIMENT DEPOSITS TO ENSURE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. TAKING CARE NOT TO UNDERMINE THE DISTURBED BALE.
  - INSPECT PERIODICALLY FOR DETRIORATION OR DAMAGE FROM CONSTRUCTION ACTIVITIES AND REPAIR IMMEDIATELY.
  - AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ALL STRAW BALES AND SEDIMENT, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE IT.

- SILT FENCE MAINTENANCE REQUIREMENTS**
- INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
  - IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
  - REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
  - TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN-UP.
  - AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

- TEMPORARY SEDIMENT TRAP MAINTENANCE REQUIREMENTS**
- INSPECT TEMPORARY SEDIMENT TRAPS AFTER EACH STORM EVENT AND IMMEDIATELY REPAIR ANY EROSION AND PIPING HOLES.
  - REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH.
  - REPLACE SPILLWAY GRAVEL FACING IF CLOGGED.
  - INSPECT VEGETATION, AND RE-SEED IF NECESSARY.
  - CHECK THE SPILLWAY DEPTH PERIODICALLY TO ENSURE A MINIMUM OF 1.5 FT. DEPTH FROM THE LOWEST POINT OF THE SETTLED SEDIMENT TO HIGHEST POINT OF THE SPILLWAY CREST, AND FILL ANY LOW AREAS TO MAINTAIN DESIGN ELEVATION.
  - PROMPTLY REPLACE ANY DISPLACED RIPRAP, BEING CAREFUL THAT NO STONES IN THE SPILLWAY ARE ABOVE DESIGN GRADE.
  - AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, REMOVE THE STRUCTURE AND SEDIMENT, SMOOTH THE SITE TO BLEND WITH ADJOINING AREAS, AND STABILIZE.

- CURB INLET SEDIMENT BARRIER MAINTENANCE REQUIREMENTS**
- INSPECT FREQUENTLY FOR DAMAGE BY VEHICULAR TRAFFIC, AND REPAIR IF NECESSARY.
  - INSPECT AFTER EACH STORM EVENT.
  - REMOVE SEDIMENT, WITHOUT FLUSHING, WHEN IT REACHES HALF THE HEIGHT OF THE BARRIER.
  - REPLACE REMOVED SEDIMENT WHERE IT WILL NOT ENTER STORM DRAINS.

- EROSION CONTROL BLANKET (SURFACE APPLIED) MAINTENANCE REQUIREMENTS**
- DURING VEGETATIVE ESTABLISHMENT, INSPECT AFTER STORM EVENTS FOR ANY EROSION BELOW THE BLANKET.
  - IF ANY AREA SHOWS EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING IT, AND SOIL RE-SEED THE AREA, AND RE-LAY AND STAPLE THE BLANKET.
  - AFTER VEGETATIVE ESTABLISHMENT, CHECK THE TREATED AREA PERIODICALLY.

- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS**
- INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY USE.
  - RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
  - TOPRESS WITH CLEAN STONE AS NEEDED.
  - IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SLEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OR BASIN.
  - REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.

- CONTRACTOR SHALL INSTALL ALL REQUIRED SILT FENCES, SILT TRAPS, TREE PROTECTION AND INLET PROTECTION FOR EXISTING INLETS PRIOR TO THE START OF ANY EARTH MOVING OR STRIPPING.
- CONTRACTOR SHALL INSTALL A STONE CONSTRUCTION ENTRANCE OR SOME OTHER DEVICE PRIOR TO THE START OF EARTHWORK AS NECESSARY TO PREVENT SOIL FROM BEING TRACKED OR WASHED INTO EXISTING ROADWAYS.
- LAND ALTERATIONS WHICH STRIP THE LAID OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED. AS GRADING IS DONE, INSTALL SILT TRAPS, SILT FENCES, SLOPE DRAINS, TEMPORARY DIVERSIONS AND OTHER RUNOFF CONTROL MEASURES AT APPROPRIATE LOCATIONS TO KEEP SEDIMENT CONTAINED ON SITE.
- ALL DISTURBED AREAS SHALL BE SEEDED AND STRAW MULCHED AS SHOWN ON THE PLANS IMMEDIATELY AFTER COMPLETION OF GROUND ACTIVITY FOR LARGE PROJECTS. THIS SEEDING SHOULD BE COMPLETED IN PHASES AS THE DIFFERENT AREAS OF THE SITE ARE COMPLETED.
- PERMANENT AND FINAL VEGETATION OR STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS SOON AS PRACTICABLE UNDER THE CIRCUMSTANCES.
- THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM DEPENDING UPON THE WEATHER. IF CONSTRUCTION ACTIVITY IS TO CEASE FOR MORE THAN TWO WEEKS, THE DISTURBED AREAS SHALL BE TEMPORARILY SEEDED.
- ALL STORM SEWER INLET PROTECTION DEVICES SHALL BE PUT IN PLACE AT THE TIME EACH INLET IS CONSTRUCTED.
- CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES AND DEVICES DURING CONSTRUCTION AND UNTIL SILTATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR.
- ONCE ON-SITE EROSION AND SILTATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY EROSION CONTROL DEVICES.
- THESE GENERAL PROCEDURES MAY NOT COVER ALL SITUATIONS. REFER TO EROSION CONTROL PLANS FOR SPECIFIC NOTES AND ADDITIONAL DETAILS.
- EROSION CONTROL TO COMPLY WITH INDIANA 327 IAC AND RULE 60, AND INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS.
- THE CITY ENGINEER HAS THE AUTHORITY TO REQUEST ADDITIONAL EROSION CONTROL MEASURES OR AMEND EROSION CONTROL PLANS SUBJECT TO ACTUAL SITE CONDITIONS.
- THERE ARE NO KNOWN AREAS ON SITE WHERE STORMWATER MAY ENTER GROUNDWATER.

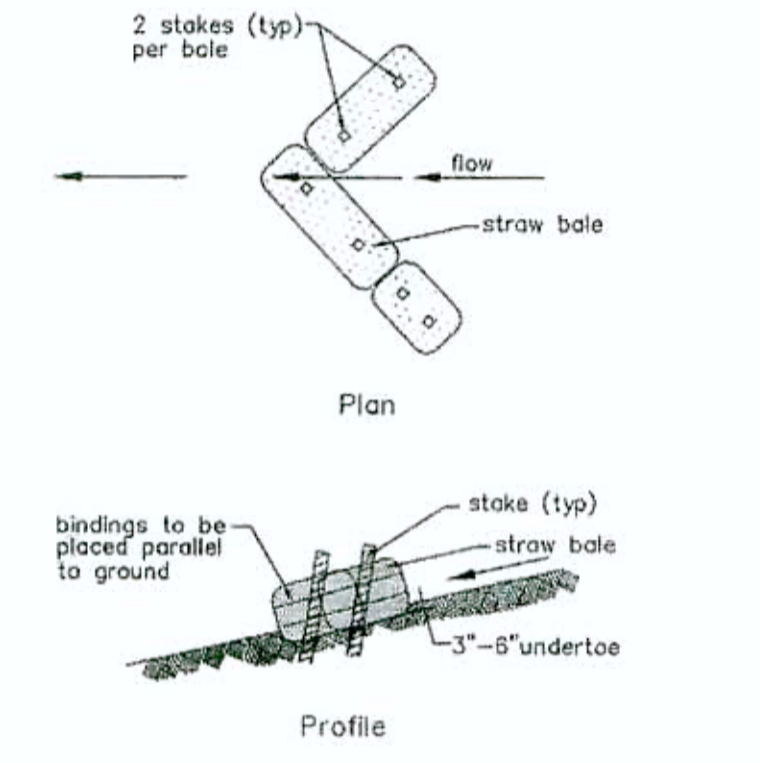


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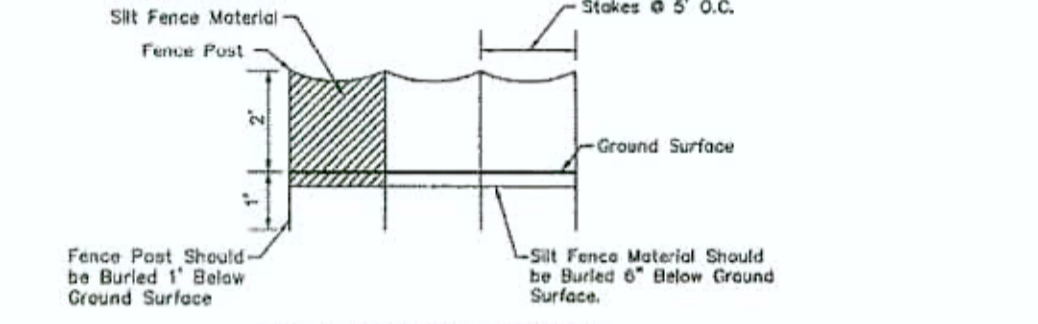
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**SEDIMENT FILTER DETAIL**  
NO SCALE

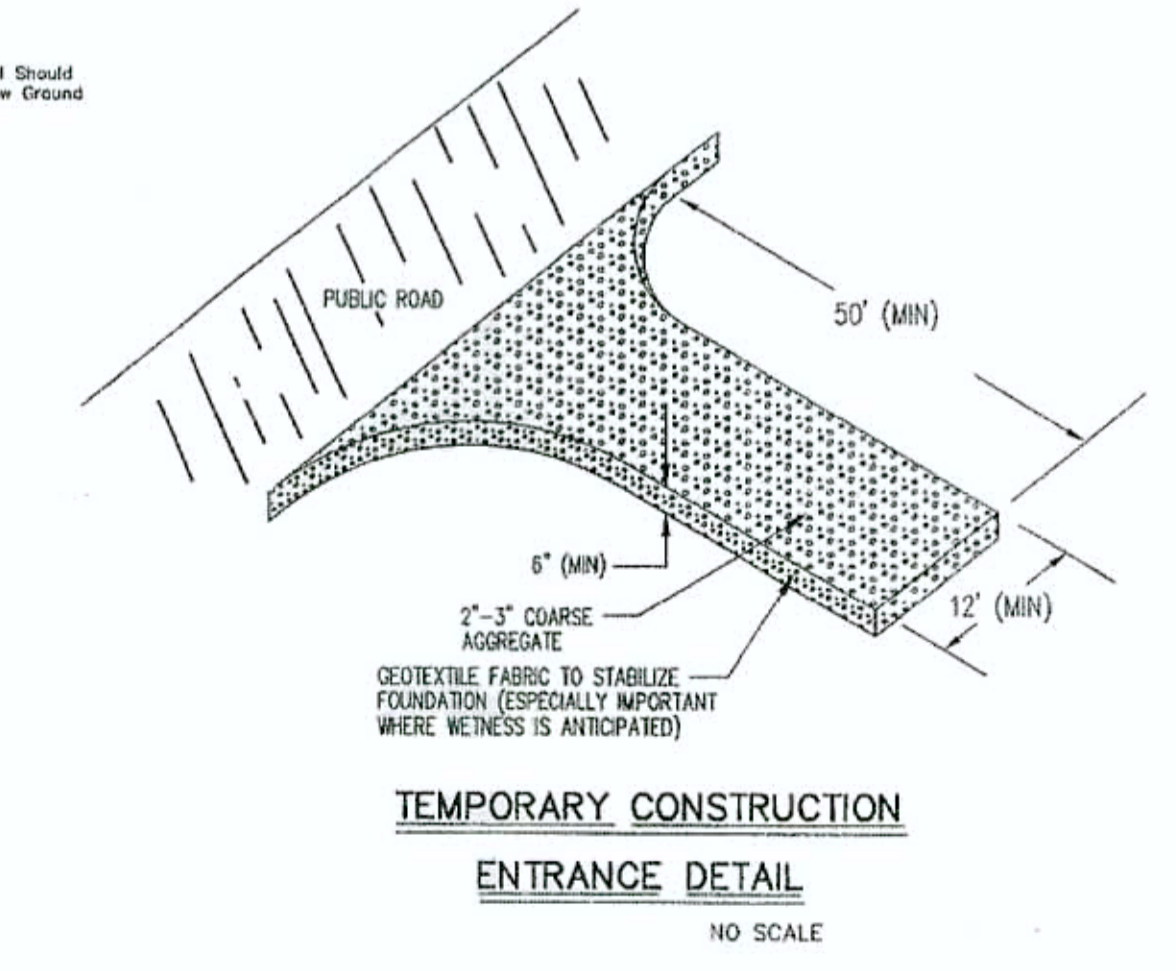


**SILT FENCE DETAIL**  
NO SCALE

RECORD DRAWINGS



Bryan J. Moll  
12-18-07



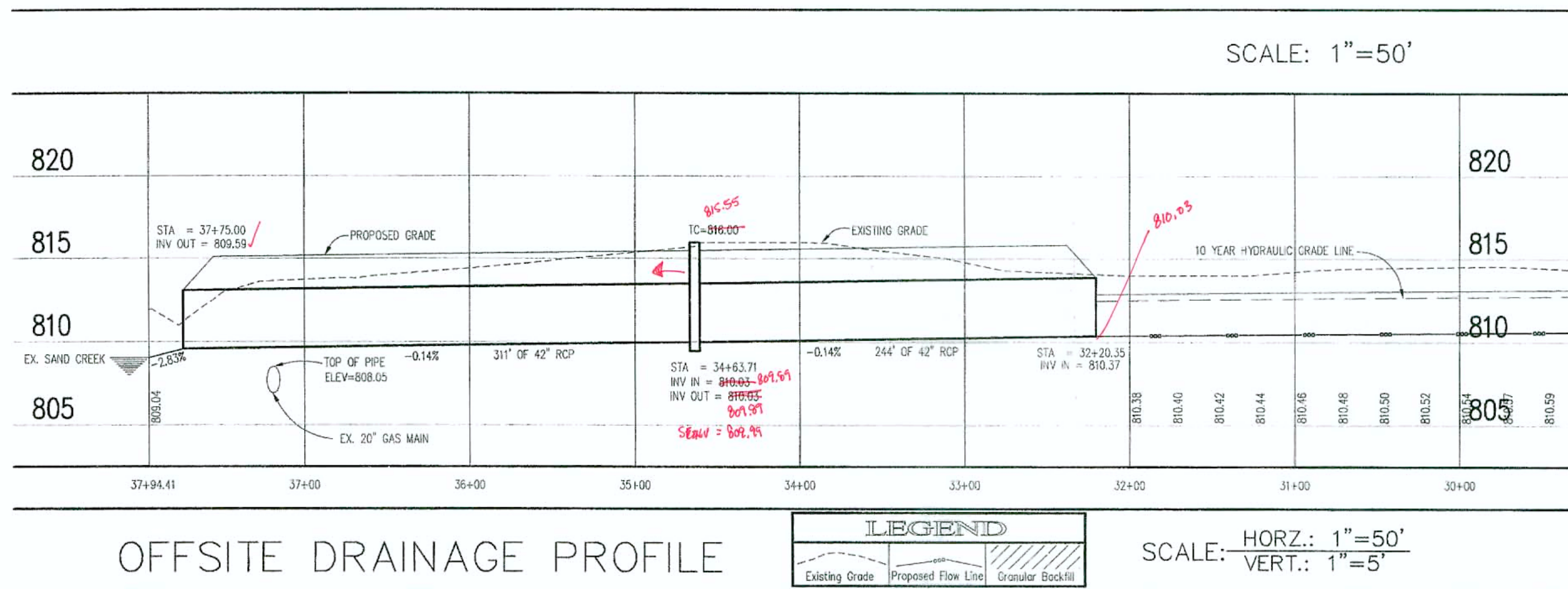
**TEMPORARY CONSTRUCTION ENTRANCE DETAIL**  
NO SCALE

EROSION CONTROL SCHEDULE		
EROSION CONTROL MEASURE	MAINTENANCE	INSTALLATION SEQUENCE
STONE ENTRANCE	AS NEEDED	PRIOR TO CLEARING AND GRADING
SILT FENCE	WEEKLY AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
EXISTING INLET PROTECTION	WEEKLY AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
DRAIN PROTECTION	WEEKLY AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TEMPORARY DIVERSIONS	WEEKLY AFTER STORM EVENTS AND AS NEEDED	ALONG WITH ROUGH GRADING
TEMPORARY SEEDING	WATER AS NEEDED	AFTER ROUGH GRADING
PERMANENT SEEDING	WATER AS NEEDED	AFTER FINISH GRADING
EROSION CONTROL MATTING	WEEKLY AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING
STRAW BALES	WEEKLY AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING
INLET PROTECTION	WEEKLY AFTER STORM EVENTS AND AS NEEDED	AFTER EACH INLET IS PLACED
SEED, SOIL & LANDSCAPE AROUND UNITS FINISHED	WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS
REMOVAL OF STRAW BALES	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT FENCE	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

DATE: 07/01/02 PROJECT NO: 3788.001  
DRAWN BY: BET CHECKED BY:  
SHEET TITLE: EROSION CONTROL AND CONSTRUCTION DETAILS  
DRAWING FILES: N:\K\3788\001\DWGS\05-FILE THEV.C107  
SHEET NO.: C107

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Entry Date: October 2008  
Entered by: SLM



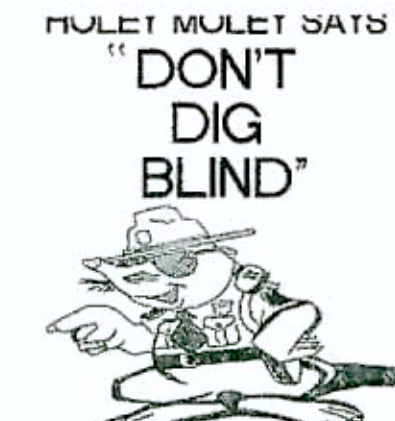


RECORD DRAWINGS



B. Moll  
12-13-07

\* SEE ELECTRONIC DATA FOR SCALE INFORMATION.



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Entry Date: October 2004

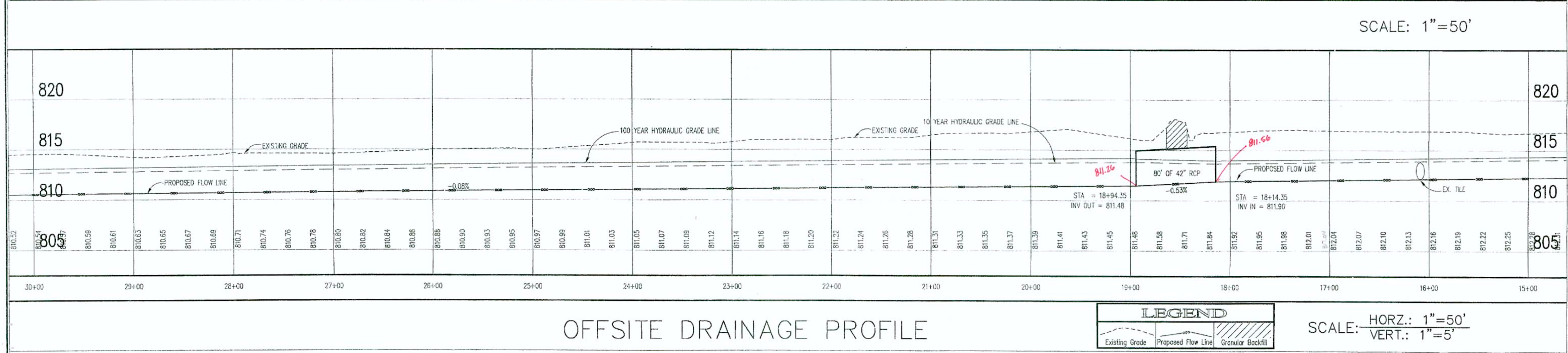
Entered By: SLM

REVISIONS:  
1. DCC 08/25/02: ADDED EX. GAS MAIN INFORMATION AT STATION 37+10  
2. DCC 08/25/02: REVISED PER COUNTY DIRECTOR & RECEIVED COMMENTS  
3. B.J. 09/25/04: REVISED PER COMMENTS



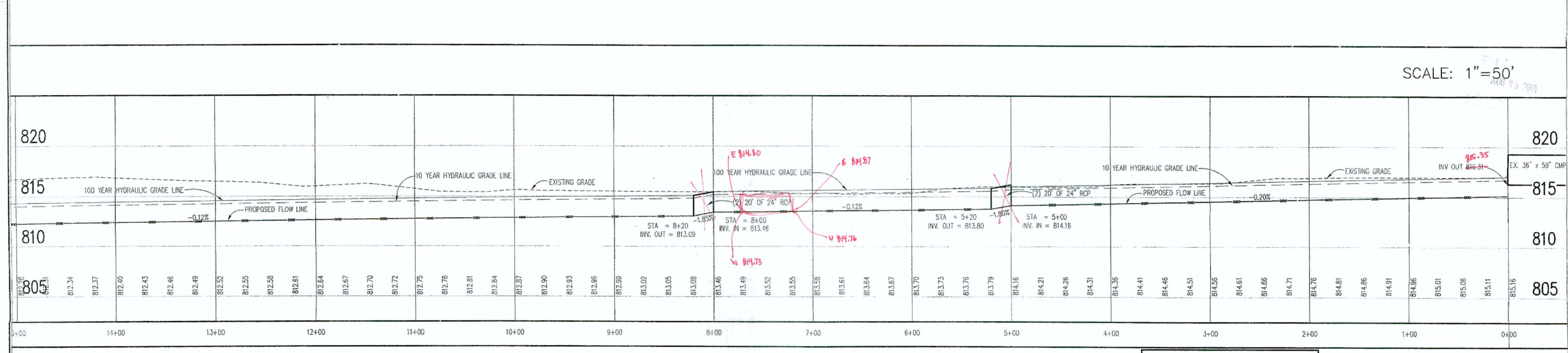
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BROOKS CHASE  
OFFSITE DRAINAGE PLAN  
FISHERS, INDIANA  
C. P. MORGAN COMMUNITIES, L.P.  
301 EAST CARMEL DRIVE, SUITE E-300, CARMEL, INDIANA 46032-2892

DATE: 07/01/02	PROJECT NO: 3788.001
DRAWN BY: DCC	CHECKED BY:
SHEET TITLE: OFFSITE DRAINAGE PROFILE	
DRAWING FILES: N:\3\3788\01\DWG\05-FIELD TILE\COOLDING REF: DITCH.DWG	

SHEET NO: C601



#5

# BROOKS CHASE OFFSITE DRAINAGE PLAN

PART 3 OF 3

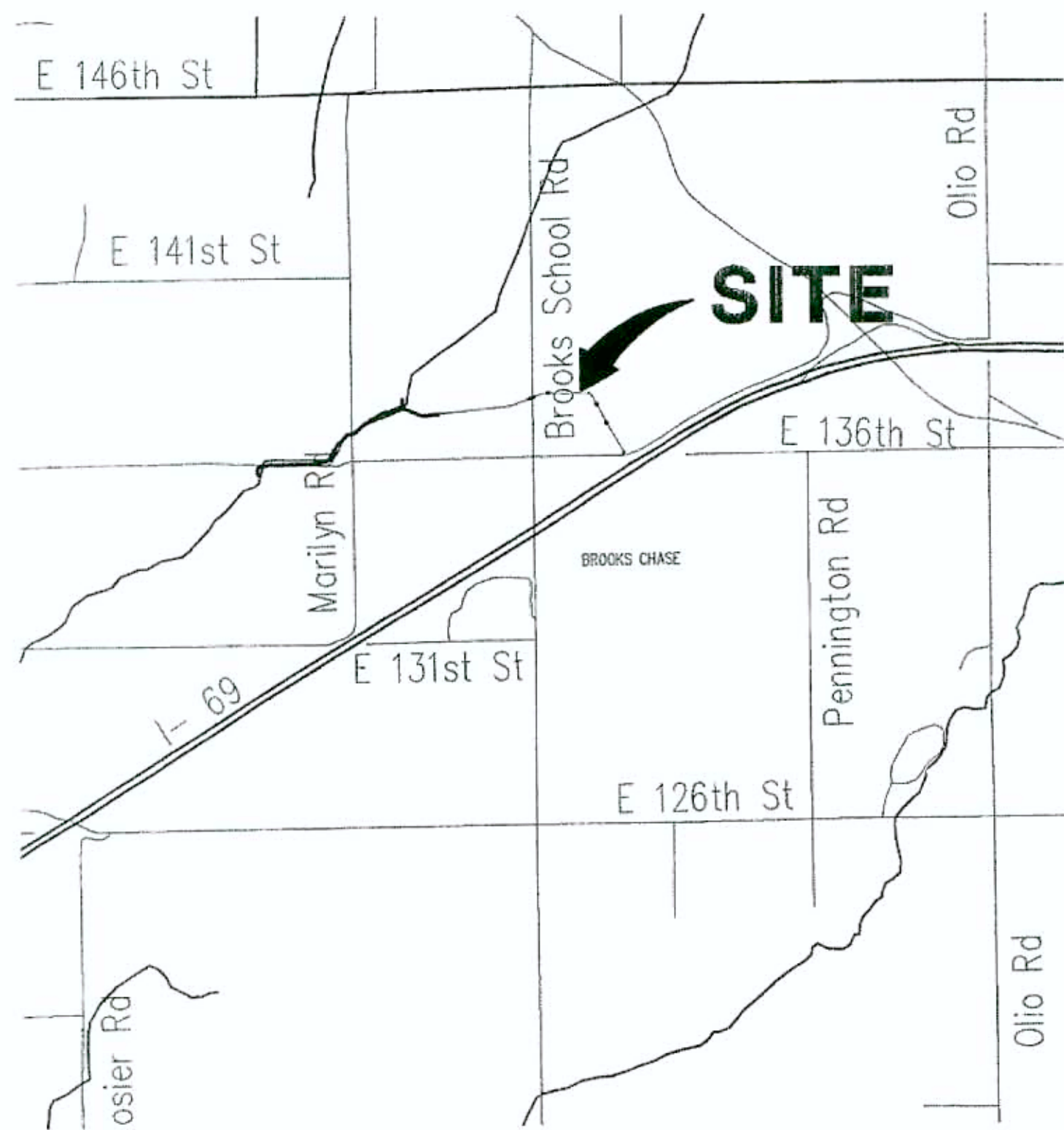
(CONSTRUCTION PLANS)

## HAMILTON COUNTY FISHER, INDIANA

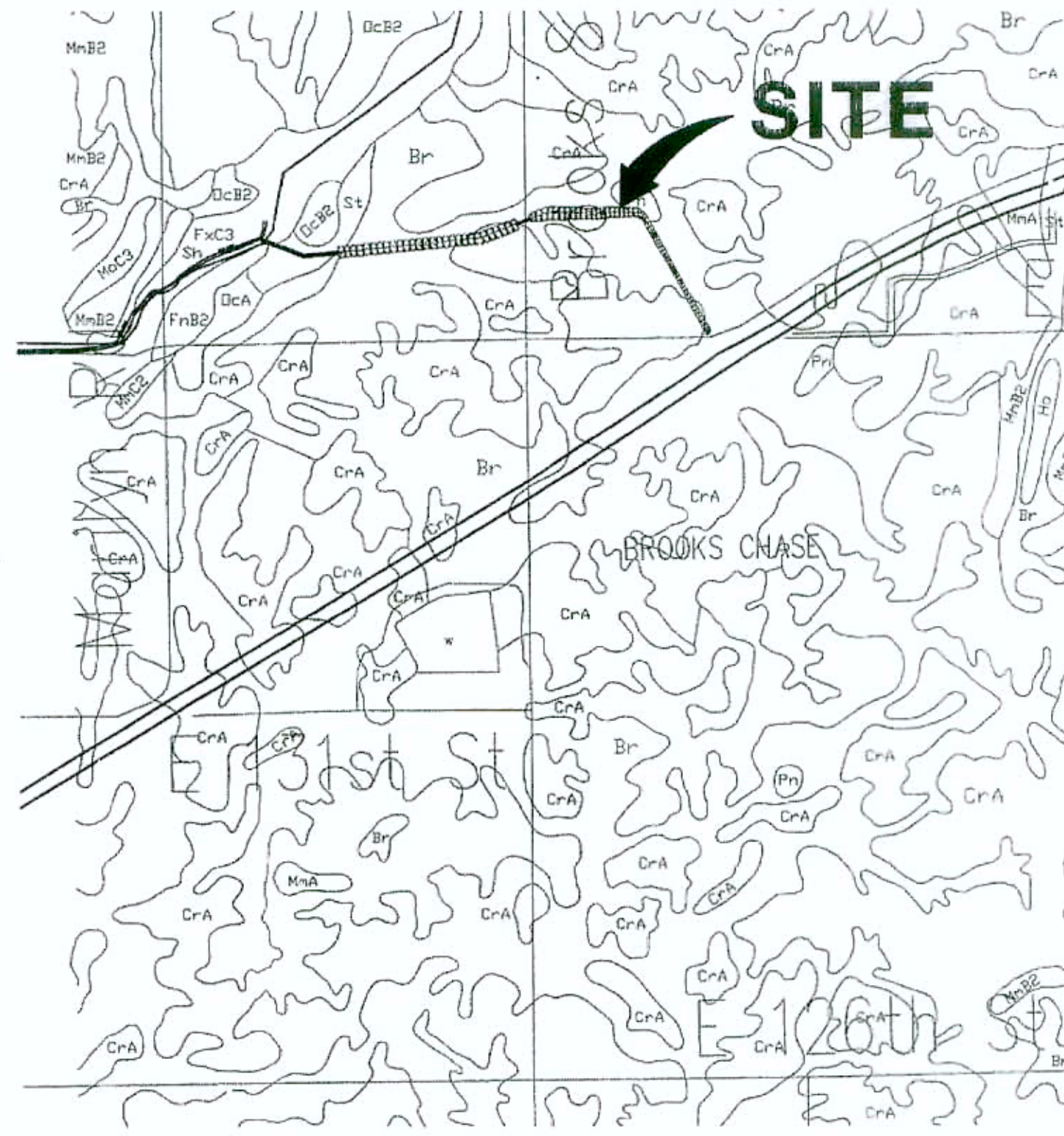
DEVELOPER:

**C. P. MORGAN COMMUNITIES, L.P.**

301 EAST CARMEL DRIVE, SUITE E-300  
CARMEL, INDIANA 46032-2892  
13171 848-4040

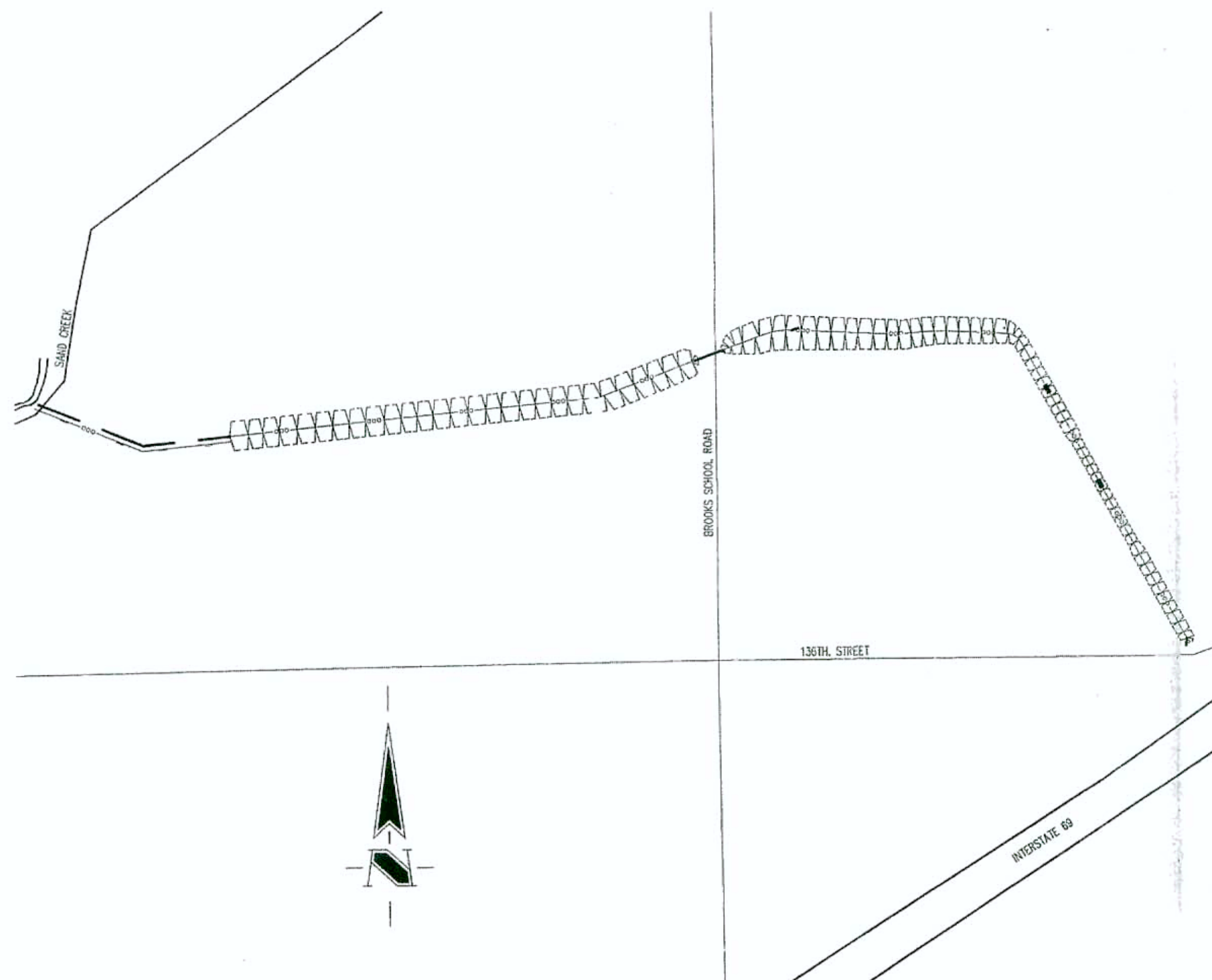


**AREA MAP**  
NOT TO SCALE



**SOILS MAP**  
NOT TO SCALE

SYMBOL	SOIL LEGEND 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



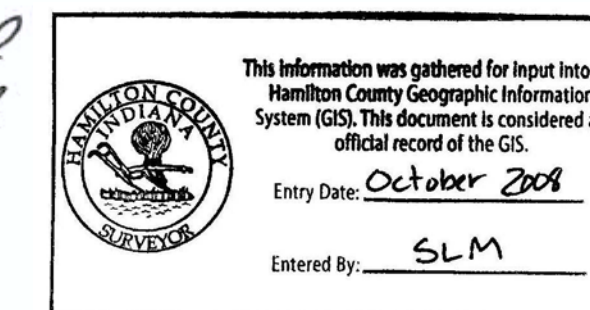
**SITE MAP**  
SCALE: 300

INDEX	
SHEET No.	DESCRIPTION
C100	TITLE SHEET
C101-C103	DEVELOPMENT PLANS
C104-C106	EROSION CONTROL PLANS
C107	EROSION CONTROL AND CONSTRUCTION DETAILS
C601	OFFSITE DRAINAGE PROFILE
C801-C802	HAMILTON COUNTY SURVEYOR'S DETAILS

RECORD DRAWINGS



B. Moll  
12-18-07



The Schneider Corporation  
12821 E. New Market Street  
Suite 100  
Carmel, IN 46032  
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CERTIFIED BY: DAVID K. SEXTON, P.E.

E-MAIL ADDRESS: dsexton@schneidercorp.com

REVISIONS	DATE	BY	DESCRIPTION
	2/25/03	DCC	ALL SHEETS
	4/04		

PROJECT ENGINEER: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_ DATE CHECKED: \_\_\_\_\_

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DATE: \_\_\_\_\_

SHEET  
**C100**  
OF  
12



50 SQUARE YARDS OF RIP RAP WITH FILTER FABRIC TO BE PLACED ALONG TOE OF SLOPE IN AREA OF FLOW DIRECTION CHANGE. SEE HAMILTON COUNTY SURVEYOR'S OFFICE STANDARD DETAIL OD-7 FOR MORE INFORMATION

MARILYN BUBENZER  
10833 COURAGEOUS DRIVE  
INDIANAPOLIS, IN 46236  
PARCEL No. 13-11-22-00-008.000

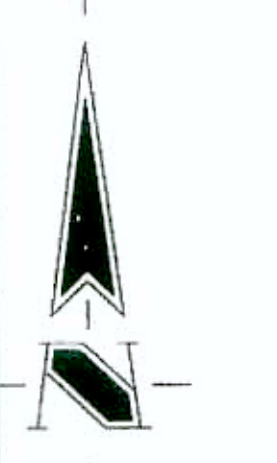
GAIN & MARTIN DRAIN AND J. PATTERSON  
DRAINS ARE 18" TILE DRAINS PER THE HAMILTON  
COUNTY SURVEYOR'S OFFICE NOTES.

CENTERLINE OF GAIN & MARTIN DRAIN  
PER DESCRIPTION FROM HAMILTON  
COUNTY SURVEYOR'S OFFICE

LOCATION OF FIELD  
(GAIN & MARTIN DRAIN)

NOTE:  
EXISTING TILE TO BE CAPPED AND BREATHER PIPE  
INSTALLED. SEE HAMILTON COUNTY SURVEYOR'S  
OFFICE STANDARD DETAIL T-1 FOR MORE INFORMATION.

This information was gathered for input into the  
Hamilton County Geographic Information  
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Entry Date: **October 2008**  
Entered By: **SLM**



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IT IS AGAINST THE LAW TO EXCAVATE  
WITHOUT NOTIFYING THE UNDERGROUND  
LOCATION SERVICE TWO (2) WORKING  
DAYS BEFORE COMMENCING WORK.

NOTE:  
50 SQUARE YARDS OF RIP RAP WITH FILTER FABRIC TO BE PLACED ALONG  
TOE OF SLOPE IN AREA OF FLOW DIRECTION CHANGE. SEE HAMILTON COUNTY  
SURVEYOR'S OFFICE STANDARD DETAIL OD-7 FOR MORE INFORMATION

ASSUMED NORTH  
SCALE: 1" = 50'

MARILYN BUBENZER  
10833 COURAGEOUS DRIVE  
INDIANAPOLIS, IN 46236  
PARCEL No. 13-11-22-00-008.000

NOTE:  
20' OF 18" CMP WITH ANIMAL GUARD TO BE PLACE  
AT END OF EXISTING TILE UNDER 136TH STREET.  
SEE HAMILTON COUNTY SURVEYOR'S OFFICE STANDARD  
DETAIL O-1 & O-2 FOR MORE INFORMATION.

DENOTES LIMITS OF EXISTING  
TILE TO BE REMOVED.

GORDON & SONJA McCAULEY  
12698 E. 136TH STREET  
PARCEL No. 13-11-22-00-009.000

INTERSTATE HOLDINGS L.L.C.  
C/O REPUBLIC DEVELOPMENT CORP.  
3150 N. REPUBLIC BLVD. SUITE 3  
TOLEDO, OHIO 43615  
PARCEL No. 13-11-23-00-00-002.000

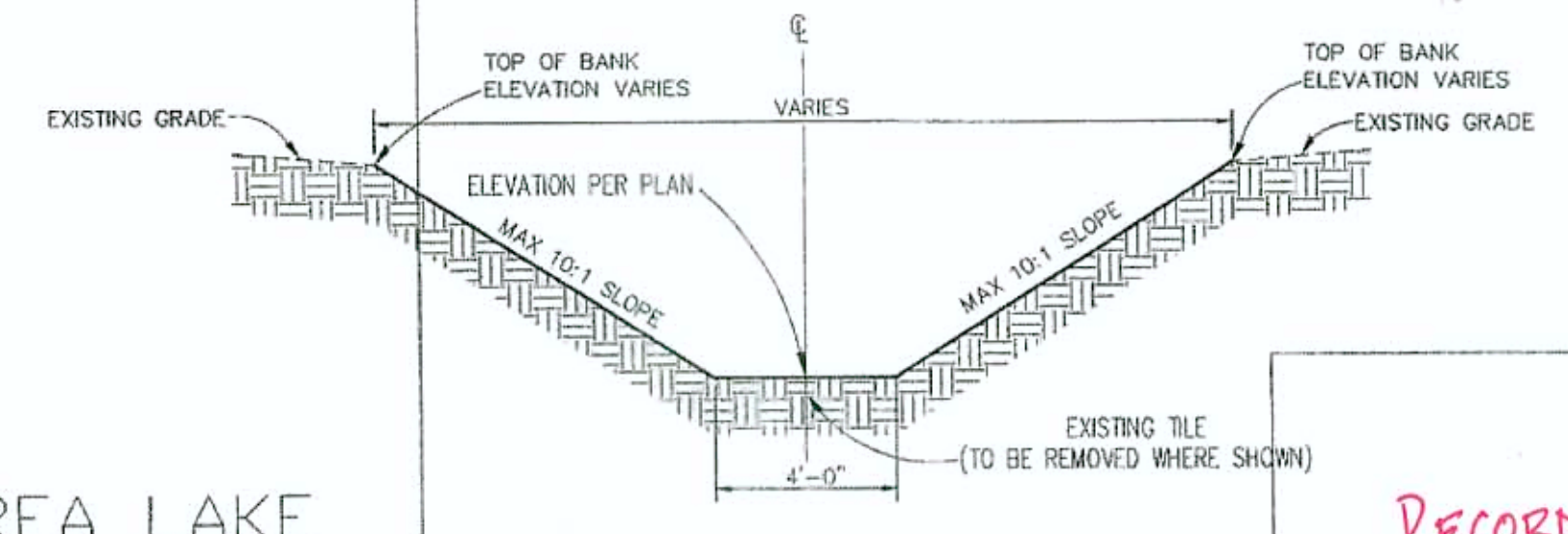
NOTE:  
ANY PRIVATE DRAIN TILES FOUND DURING CONSTRUCTION  
OF PROPOSED IMPROVEMENTS ARE TO BE INTERCEPTED  
AND DIRECTED INTO PROPOSED DITCH. PLACE A 20'  
SECTION OF CMP WITH ANIMAL GUARD AT ENDS OF  
EXISTING TILES PER HAMILTON COUNTY SURVEYOR'S  
OFFICE STANDARD DETAILS O-1 & O-2.

NOTE:  
A 20' WIDE GRASS FILTER STRIP TO BE INSTALLED ALONG BOTH  
SIDES OF PROPOSED SWALE AT TOP OF BANKS FROM STATION  
9+50 TO 32+00, SEE HAMILTON COUNTY SURVEYOR'S OFFICE  
STANDARD PLAN OD-9 FOR MORE INFORMATION.

CHARLIE & LORETTA HOSKINS  
12602 E. 136TH ST.  
PARCEL No. 13-11-22-00-010.000

COUNTRYSIDE

COMMON AREA LAKE



CROSS SECTION A-A  
NOT TO SCALE  
FROM STATION 0+00 TO 32+50



12-18-07

NOTE: 1  
RIP RAP TO BE PLACED AT END OF EXISTING 36"x59"  
CMP (24"x24"). SEE HAMILTON COUNTY SURVEYOR'S  
OFFICE STANDARD DETAIL O-4 FOR MORE INFORMATION.

NOTE: 3  
4' WIDE x 30' LONG SILT  
BASIN TO BE PLACED AT END  
OF RIP RAP. SEE HAMILTON  
COUNTY SURVEYOR'S OFFICE  
STANDARD DETAIL OD-5 FOR  
MORE INFORMATION.

NOTE: 2  
20' OF CMP WITH ANIMAL GUARD TO BE PLACE AT  
END OF EXISTING TILE UNDER 136TH STREET. SEE  
HAMILTON COUNTY SURVEYOR'S OFFICE STANDARD  
DETAIL O-1 & O-2 FOR MORE INFORMATION.

- LEGEND**
- Existing Storm Sewer
  - New Storm Sewer
  - Existing Sanitary Sewer
  - New Sanitary Sewer
  - Existing Contour
  - Existing Elevation
  - All Other Finish Grades
  - Match Existing Grades
  - Flow Arrow
  - Swale (S)
  - Existing Trees
  - Existing Gas Main
  - Existing Telephone
  - Existing Water Main
  - Existing Flowline
  - Existing Overhead Utilities

- BENCHMARK**
- BSE-11: HSE DISK IN CONCRETE SET 2.0' NORTH OF THE BACK OF CURB OF THE WEST PARKING LOT TO IRONWOOD GOLF ACADEMY, 55.0' SOUTH OF THE CENTERLINE OF 126th AND 110.0' EAST OF THE CENTERLINE OF BROOKS SCHOOL ROAD. ELEV. = 823.17 (NAVD 1988)
  - TMH#1: MAG NAIL W/ WASHER ON THE EAST SIDE OF PWP#255248 ON THE EAST SIDE OF BROOKS SCHOOL ROAD, 60' NORTH OF 131st STREET. ELEV. = 826.72 (NAVD 1988)
  - TMH#2: MAG NAIL W/ WASHER ON THE EAST SIDE PWP#255246 ON THE EAST SIDE OF BROOKS SCHOOL ROAD, 530' NORTH OF 131st STREET. ELEV. = 828.53 (NAVD 1988)
  - TMH#3: MAG NAIL W/ WASHER ON THE EAST SIDE OF PWP#199332 ON THE EAST SIDE OF BROOKS SCHOOL ROAD, 890' NORTH OF 131st STREET. ELEV. = 825.51 (NAVD 1988)

REVISIONS:  
DATE: 07/01/02  
BY: DCC  
REASON: REUSE PER COUNTY SURVEYOR & RECTIFY COMMENTS  
2. BET. 09/23/02 REVISION PER COMMENTS

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

DATE:  
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**BROOKS CHASE  
OFFSITE DRAINAGE PLAN**  
FISHERS, INDIANA

C. P. MORGAN COMMUNITIES, L.P.  
301 EAST CARMEL DRIVE, SUITE E-300, CARMEL, INDIANA 46032-2892

DATE: 07/01/02	PROJECT NO.: 3788.001
DRAWN BY: DCC	CHECKED BY:
SHEET TITLE: DEVELOPMENT PLAN	
DRAWING FILES: H:\363788\01\DWG\05-FIELD TILE\C101-103.DWG XREF: 37880012.DWG XREF: 05TILES.DWG	
SHEET NO. C101	

FOR CONTINUATION SEE SHEET C102

EX. R/W BROOKS SCHOOL ROAD  
MATCH LINE



- Existing Storm Sewer
- New Storm Sewer
- Existing Sanitary Sewer
- New Sanitary Sewer
- Existing Contour
- Existing Elevation
- All Other Finish Grades
- Match Existing Grades
- Flow Arrow
- Swale (If)
- Existing Trees
- Existing Gas Main
- Existing Telephone
- Existing Water Main
- Existing Flowline
- Existing Overhead Utilities

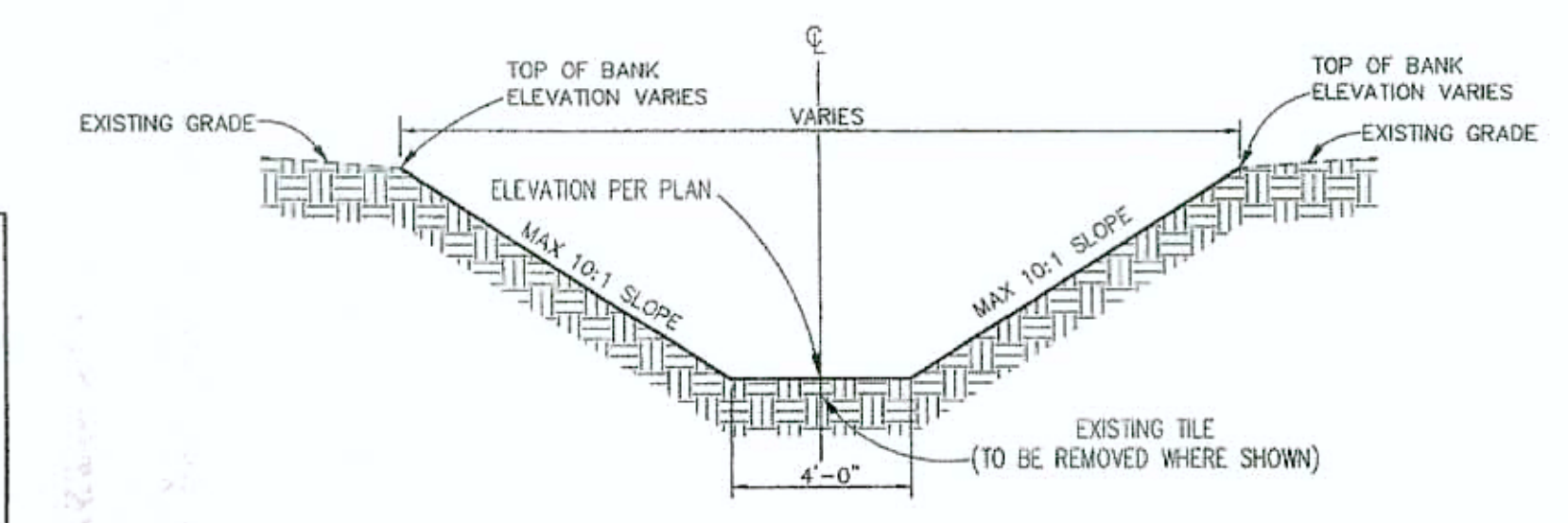
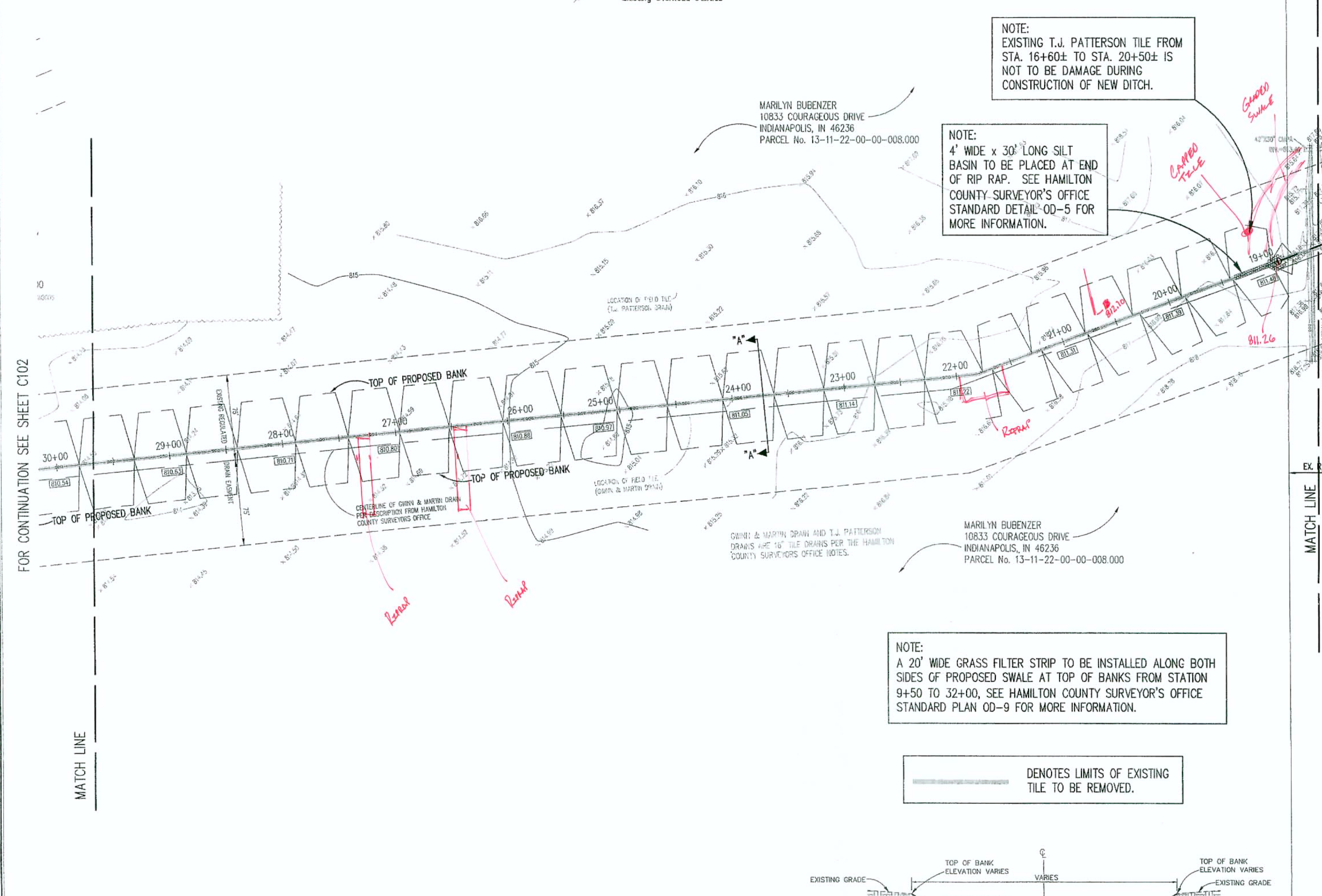
**DESCRIPTION**

HSE-11: HSE DSK IN CONCRETE SET 2.0' NORTH OF THE BACK OF CURB OF THE WEST PARKING LOT TO IRONWOOD GOLF ACADEMY, 55.0' SOUTH OF THE CENTERLINE OF 126th AND 110.0' EAST OF THE CENTERLINE OF BROOKS SCHOOL ROAD. ELEV. = 823.17 (NAVD 1988)

TMJ-1: MAG NAIL W/ WASHER ON THE EAST SIDE OF PWP#25249 ON THE EAST SIDE OF BROOKS SCHOOL ROAD, 80' NORTH OF 131st STREET. ELEV. = 828.72 (NAVD 1988)

TMJ-2: MAG NAIL W/ WASHER ON THE EAST SIDE OF PWP#25249 ON THE EAST SIDE OF BROOKS SCHOOL ROAD, 530' NORTH OF 131st STREET. ELEV. = 828.53 (NAVD 1988)

TMJ-3: MAG NAIL W/ WASHER ON THE EAST SIDE OF PWP#199332 ON THE EAST SIDE OF BROOKS SCHOOL ROAD, 850' NORTH OF 131st STREET. ELEV. = 825.81 (NAVD 1988)



NOTE: 50 SQUARE YARDS OF RIP RAP WITH FILTER FABRIC TO BE PLACED ALONG TOE OF SLOPE IN AREA OF FLOW DIRECTION CHANGE. SEE HAMILTON COUNTY SURVEYOR'S OFFICE STANDARD DETAIL OD-7 FOR MORE INFORMATION

ASSUMED NORTH  
SCALE: 1" = 50'



MARILYN BUBENZER  
10833 COURAGEOUS DRIVE  
INDIANAPOLIS, IN 46236  
PARCEL No. 13-11-22-00-008.000

LOT 1 - COUNTRYSIDE  
KEITH & CYNTHIA THOMAS  
13746 BROOKS SCHOOL ROAD  
PARCEL No. 13-11-22-00-01-001.000

FOR CONTINUATION SEE SHEET C101

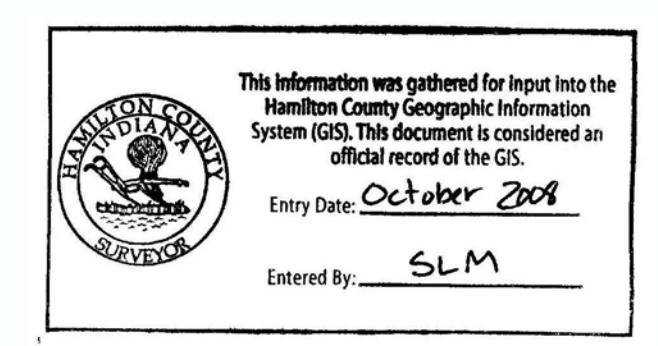
NOTE: RIP RAP TO BE PLACE AT ENDS OF PROPOSED 42" RCP UNDER BROOKS SCHOOL ROAD. SEE HAMILTON COUNTY SURVEYOR'S STANDARD DETAIL C-2 FOR MORE INFORMATION.

NOTE: PAVEMENT WITHIN LIMITS OF PROPOSED STORM SEWER INSTALLATION TO BE REPAIRED TO HAMILTON COUNTY HIGHWAY DEPARTMENT STANDARD PLAN U-1, SHEET C107.

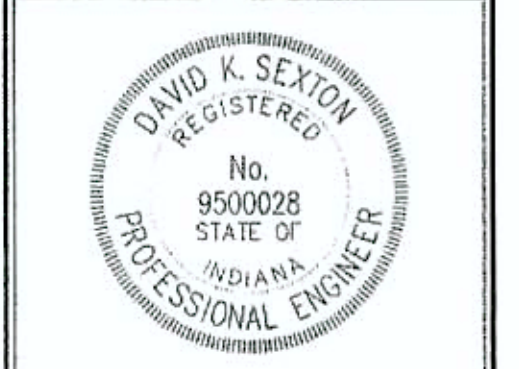
RECORD DRAWINGS



B. Moll 12-18-07



REVISIONS:  
1. LOC. 07/25/02. REUSE PER COUNTY SURVEYOR & SECURE COMMENTS.  
2. RET. 09/23/03. REVISED PER COMMENTS.



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Suite 100  
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Telephone: 317.569.8112  
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**BROOKS CHASE  
OFFSITE DRAINAGE PLAN**  
FISHERS, INDIANA  
C. P. MORGAN COMMUNITIES, L.P.  
301 EAST CARMEL DRIVE, SUITE E-300, CARMEL, INDIANA 46032-2892

DATE: 07/01/02	PROJECT NO.: 3788.001
DRAWN BY: DCC	CHECKED BY:
SHEET TITLE: DEVELOPMENT PLAN	
DRAWING FILES: H:\S\UTL\G\G\IND\G\OS-V\FIELD TILE\C101-103.DWG XREF: 37880012.DWG XREF: OSTILEBS.DWG	
SHEET NO.: C102	



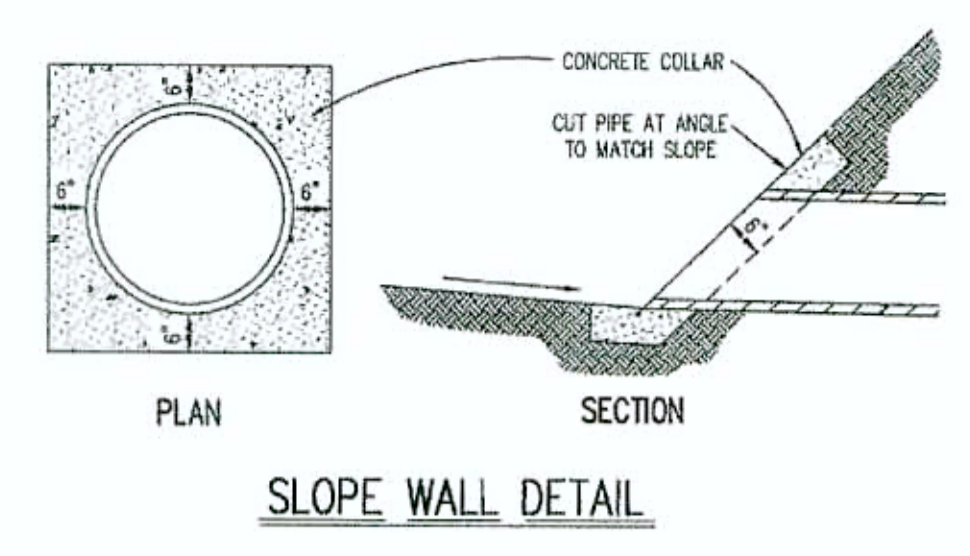
BASE FLOOD ELEVATIONS - STA 37+94.41  
 10 YEAR = 815.7 Ft.  
 50 YEAR = 816.2 Ft.  
 100 YEAR = 816.5 Ft.  
 500 YEAR = 817.3 Ft.  
 BFE PER FLOOD INSURANCE STUDY FOR SAND CREEK,  
 HAMILTON COUNTY, INDIANA. PLATE 065P, 180576V002A,  
 REVISED FEBRUARY 19, 2003.

NOTE:  
 APPROXIMATELY 100 SQUARE  
 YARDS OF RIP RAP, 12" DEEP WITH  
 FILTER FABRIC TO BE PLACED AT  
 END OF PROPOSED DITCH WHERE IT  
 MEETS SAND CREEK.

NOTE:  
 4" WIDE x 20' LONG SILT  
 BASIN TO BE PLACED AT STA.  
 31+00. SEE HAMILTON  
 COUNTY SURVEYOR'S OFFICE  
 STANDARD DETAIL OD-5 FOR  
 MORE INFORMATION.

NOTE:  
 ANY PRIVATE DRAIN TILES FOUND DURING CONSTRUCTION  
 OF PROPOSED IMPROVEMENTS ARE TO BE INTERCEPTED  
 AND DIRECTED INTO PROPOSED DITCH. PLACE A 20'  
 SECTION OF CMP WITH ANIMAL GUARD AT ENDS OF  
 EXISTING TILES PER HAMILTON COUNTY SURVEYOR'S  
 OFFICE STANDARD DETAILS 0-1 & 0-2.

NOTE:  
 A 20' WIDE GRASS FILTER STRIP TO BE INSTALLED ALONG BOTH  
 SIDES OF PROPOSED SWALE AT TOP OF BANKS FROM STATION  
 9+50 TO 32+20, SEE HAMILTON COUNTY SURVEYOR'S OFFICE  
 STANDARD PLAN OD-7 FOR MORE INFORMATION.



--- DENOTES LIMITS OF EXISTING TILE TO BE REMOVED.

MOLE! MOLE! 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 42-5-1-26-1  
 ET SEQ. AS AMENDED AND SUPPLEMENTED,  
 IT IS AGAINST THE LAW TO EXCAVATE  
 WITHOUT NOTIFYING THE UNDERGROUND  
 LOCATION SERVICE TWO (2) WORKING  
 DAYS BEFORE COMMENCING WORK.

**LEGEND**

- Existing Storm Sewer
- New Storm Sewer
- Existing Sanitary Sewer
- New Sanitary Sewer
- Existing Contour
- Existing Elevation
- All Other Finish Grades
- Match Existing Grades
- Flow Arrow
- Swale (S)
- Existing Trees
- Existing Gas Main
- Existing Telephone
- Existing Water Main
- Existing Flowline
- Existing Overhead Utilities

**BENCHMARK**

HSE-11: HSE DISK IN CONCRETE SET 2.9' NORTH OF THE BACK OF CURB OF THE WEST PARKING LOT TO IRONWOOD GOLF ACADEMY, 55' SOUTH OF THE CENTERLINE OF 126th AND 110' EAST OF THE CENTERLINE OF BROOKS SCHOOL ROAD. ELEV = 823.17 (NAVD 1988)

TEMP1: MAG NAIL W/ WASHER ON THE EAST SIDE OF PWP#255248 ON THE EAST SIDE OF BROOKS SCHOOL ROAD, 60' NORTH OF 131st STREET. ELEV = 826.72 (NAVD 1988)

TEMP2: MAG NAIL W/ WASHER ON THE EAST SIDE PWP#255248 ON THE EAST SIDE OF BROOKS SCHOOL ROAD, 530' NORTH OF 131st STREET. ELEV = 828.53 (NAVD 1988)

TEMP3: MAG NAIL W/ WASHER ON THE EAST SIDE OF PWP#193332 ON THE EAST SIDE OF BROOKS SCHOOL ROAD, 88' NORTH OF 131st STREET. ELEV = 825.81 (NAVD 1988)

REVISIONS:  
 1. DEC 07/25/02 REUSE PER COUNTY SURVEYOR & VECTOR COMMENTS.  
 2. 07/01/02 REUSE PER COMMENTS.  
 G.P.  
 h

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

DATE:  
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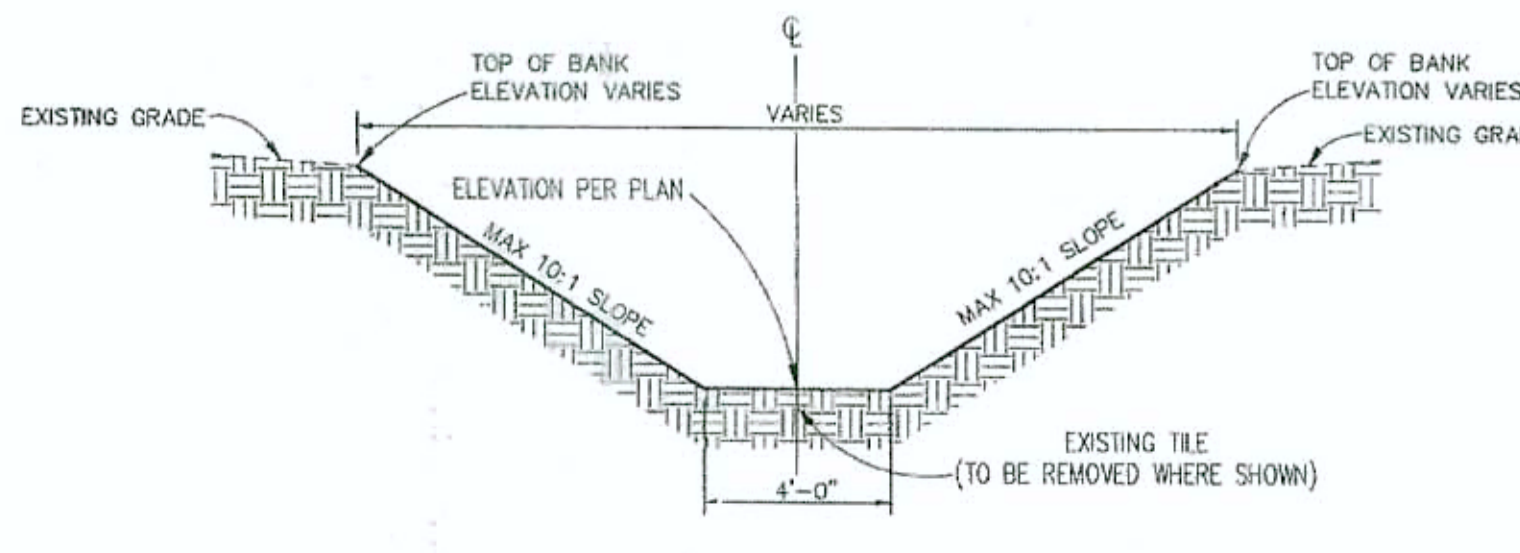
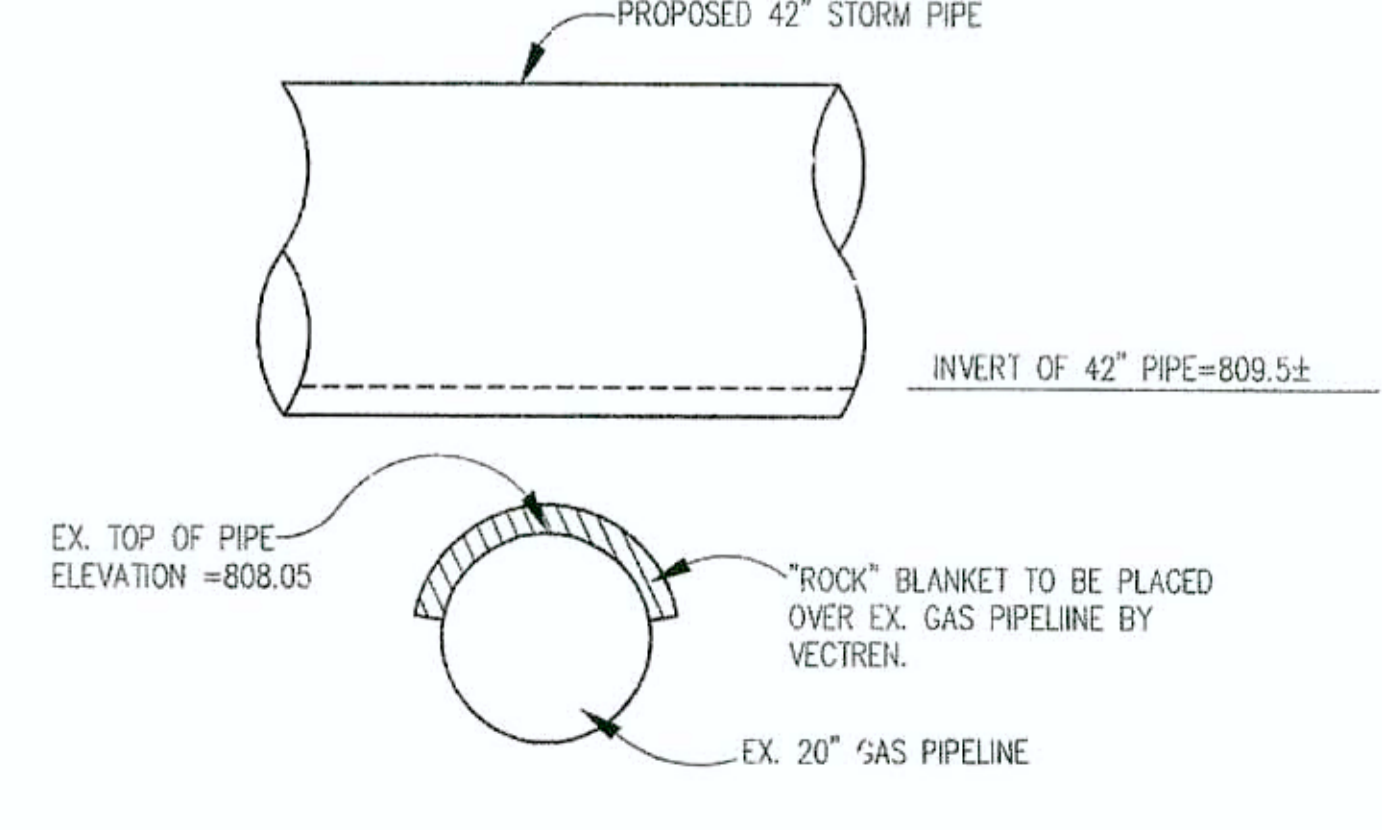
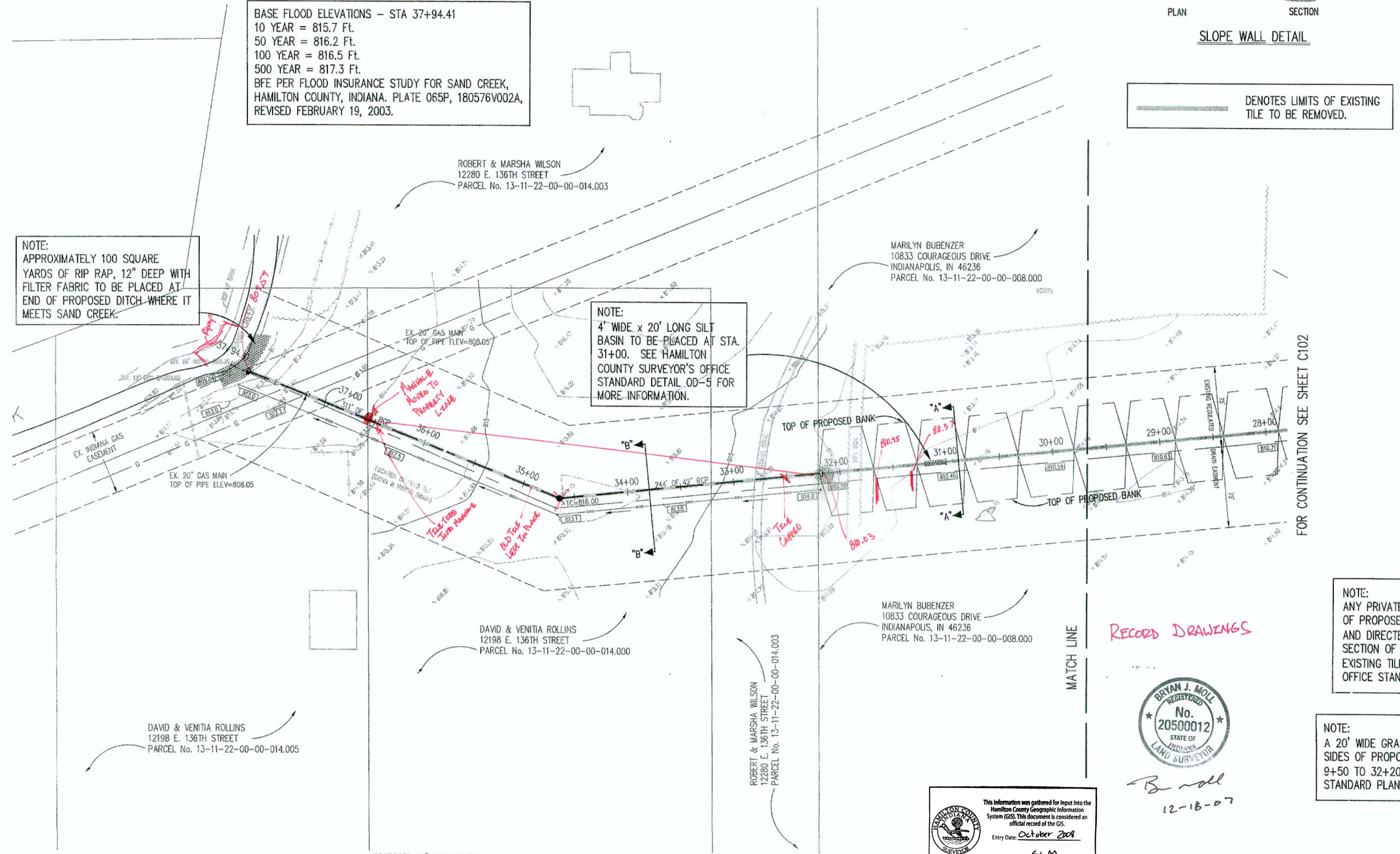
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 Fax: 317.826.6410  
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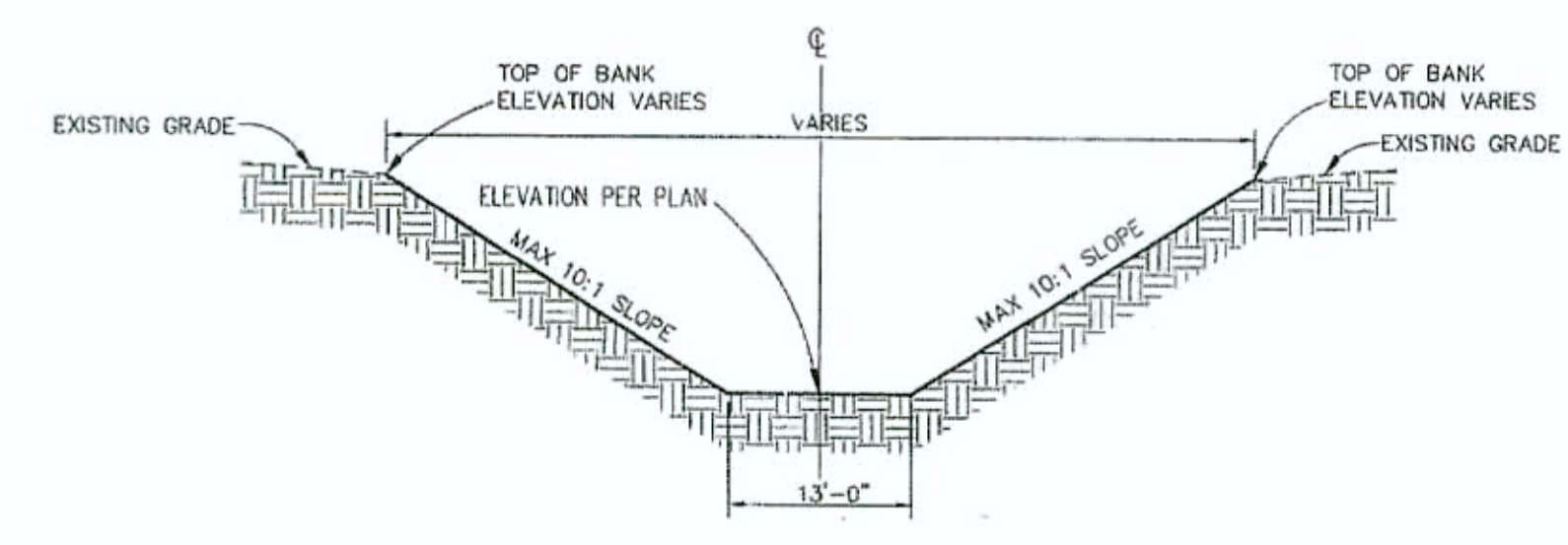
**BROOKS CHASE  
 OFFSITE DRAINAGE PLAN**  
 FISHERS, INDIANA

C. P. MORGAN COMMUNITIES, L.P.  
 301 EAST CARMEL DRIVE, SUITE E-300, CARMEL, INDIANA 46032-2892

DATE: 07/01/02 PROJECT NO: 3788.001  
 DRAWN BY: DCC CHECKED BY:  
 SHEET TITLE: DEVELOPMENT PLAN  
 DRAWING FILE: R:\3788\001\DWG\OS-FIELD-TILE\C101-103.DWG  
 XREF: 37880012.DWG  
 XREF: GSTILES.DWG  
 SHEET NO.: C103



CROSS SECTION A-A  
 NOT TO SCALE  
 FROM STATION 0+00 TO 32+20



CROSS SECTION B-B  
 NOT TO SCALE  
 OVERFLOW SWALE  
 FROM STATION 32+20 TO 37+75

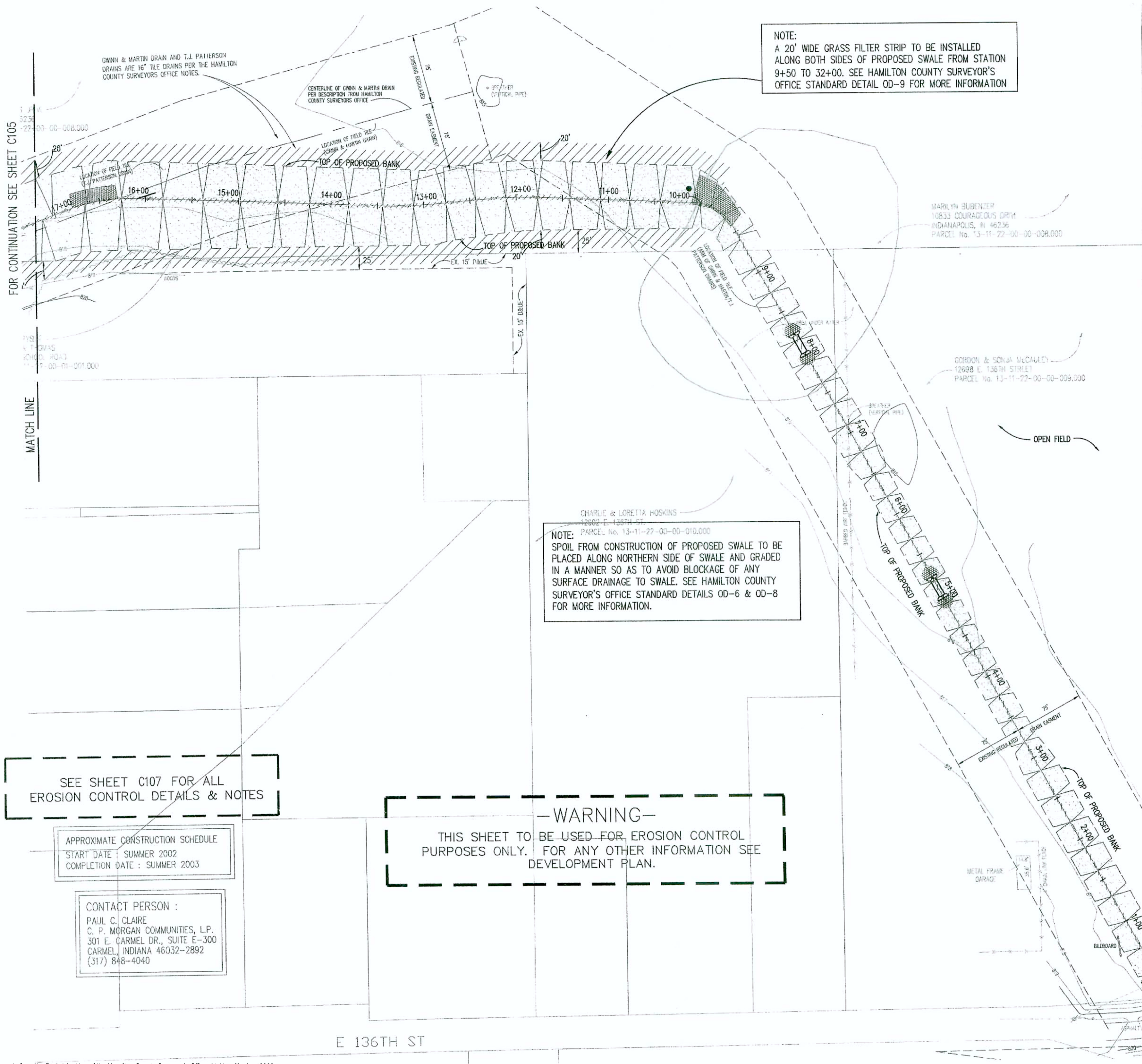
Records DRAWINGS

Bryan J. Moll  
 REGISTERED  
 No. 20500012  
 STATE OF INDIANA  
 LAND SURVEYOR

B. Moll  
 12-18-07

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 Entry Date: October 2008  
 Entered By: SLM





NOTE:  
A 20' WIDE GRASS FILTER STRIP TO BE INSTALLED  
ALONG BOTH SIDES OF PROPOSED SWALE FROM STATION  
9+50 TO 32+00. SEE HAMILTON COUNTY SURVEYOR'S  
OFFICE STANDARD DETAIL OD-9 FOR MORE INFORMATION

**DON I DIG BLIND**  
"IT'S THE LAW"  
CALL TODAY FOR A FREE QUOTE  
1-800-382-5544  
CALL TOLL FREE  
PER INDIANA STATE LAW 15-59-1591  
IT IS AGAINST THE LAW TO OCCUPY  
WITHOUT NOTIFYING THE LANDSCAPE  
LOCATION SERVICE, AND (2) WORKING  
DAYS BEFORE COMMENCING WORK.

ASSUMED NORTH  
SCALE: 1"=50'

**LEGEND**

	Existing Storm Sewer
	New Storm Sewer
	Existing Sanitary Sewer
	New Sanitary Sewer
	Existing Contour

	HATCH PATTERN DENOTES TEMPORARY SEEDING
	HATCH PATTERN DENOTES PERMANENT SEEDING
	HATCH PATTERN DENOTES EROSION CONTROL BLANKET
	CURB INLET SEDIMENT BARRIER (TYP)
	BEEHIVE INLET PROTECTION
	STRAW BALES (TYP)
	SILTATION FENCE
	CONSTRUCTION LIMITS
	TEMPORARY SEDIMENT FILTER/BARRIER

**GENERAL NOTES**

EROSION AND SEDIMENT CONTROL PLAN SUMMARY AND "RULE 5" DATA

Project: Brooks Chase, Offsite Drainage Plan  
Nature and Purpose: Reconstruction of Existing Legal Drain  
Estimated Start: SUMMER 2002  
Estimated Completion of Site Development: SUMMER 2003

Floodplains, Floodway Fringes, Floodways: Sand Creek  
Lakes, Streams, Channels, Ditches, Wetlands, etc.: None  
Existing Soil Types & Description (refer to cover sheet for soils map):  
Brookston Silty Clay Loam: Poorly drained, moderately permeable  
Crosby Silt Loam: Deep, somewhat poorly drained

Receiving Waters: Sand Creek  
Potential Areas Where Stormwater May Enter Groundwater: None known.  
Existing Vegetation: Section One is primarily agricultural row crop land use.  
Adjacent Land Use:  
North - Undeveloped (Proposed Brooks Chase Section 3 Subdivision)  
South - Undeveloped  
East - Undeveloped (Proposed Brooks Chase Section 2 and Section 4 Subdivision)  
West - Undeveloped

Specific Sequence and Additional Notes: The perimeter swales should be constructed and stabilized as early as practical to prevent run-off from leaving the site or clean off-site water from washing through the site.

NOTE:  
SPOIL FROM CONSTRUCTION OF PROPOSED SWALE TO BE  
PLACED ALONG NORTHERN SIDE OF SWALE AND GRADED  
IN A MANNER SO AS TO AVOID BLOCKAGE OF ANY  
SURFACE DRAINAGE TO SWALE. SEE HAMILTON COUNTY  
SURVEYOR'S OFFICE STANDARD DETAILS OD-6 & OD-8  
FOR MORE INFORMATION.

SEE SHEET C107 FOR ALL  
EROSION CONTROL DETAILS & NOTES

APPROXIMATE CONSTRUCTION SCHEDULE  
START DATE: SUMMER 2002  
COMPLETION DATE: SUMMER 2003

CONTACT PERSON:  
PAUL C. CLAIRE  
C. P. MORGAN COMMUNITIES, L.P.  
301 E. CARMEL DR., SUITE E-300  
CARMEL, INDIANA 46032-2892  
(317) 848-4040

**-WARNING-**  
THIS SHEET TO BE USED FOR EROSION CONTROL  
PURPOSES ONLY. FOR ANY OTHER INFORMATION SEE  
DEVELOPMENT PLAN.

RECORD DRAWINGS



B. Moll  
12-13-07

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Entry Date: October 2008  
Entered By: SLM

NOTE: 4' WIDE x 30' LONG  
SILT BASIN TO BE PLACED AT  
END OF RIP RAP. SEE  
HAMILTON COUNTY  
SURVEYOR'S OFFICE STANDARD  
DETAIL OD-5 FOR MORE  
INFORMATION.

REVISIONS:

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

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**BROOKS CHASE  
OFFSITE DRAINAGE PLAN**

FISHERS, INDIANA

C. P. MORGAN COMMUNITIES, L.P.  
301 EAST CARMEL DRIVE, SUITE E-300, CARMEL, INDIANA 46032-2892

DATE: 07/01/02	PROJECT NO.: 3788.001
DRAWN BY: BET	CHECKED BY:
SHEET TITLE: EROSION CONTROL PLAN	
DRAWING FILES: 3:\3788\001\DWG\OS-FIELD TILE\C104-106.DWG 3:\3788\001\DWG\SEC-1\SEC-1-B5.DWG 3:\3788\001\DWG\3788001S.DWG 3:\3788\001\DWG\3788001S.DWG 3:\3788\001\DWG\SEC-2-B5.DWG	
SHEET NO.: C104	