

Drain: KIRKENDALL Drain #: 292
Improvement/Arm: SANDPIPER LAKES
Operator: J. LIVING STON Date: 2-13-04
Drain Classification: Urban/Rural Year Installed: 1996

GIS Drain Input Checklist

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

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

Drain-Improvement: KIRKENDALL - SAND PIPER LAKES

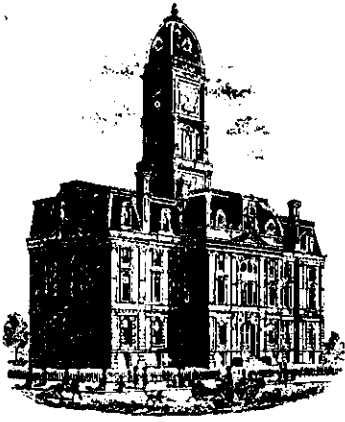
| Drain Type: | Size: | Length | Length (DB Query) | Length Reconcile | If Applicable | |
|-------------|---------|--------|----------------------|---------------------|--------------------|-----------------------|
| | | | | | Price: | Cost: |
| RCP | 21" | 2588' | 2588' | | 14.25/lf | 36,879. ⁰⁰ |
| | 36" | 582' | 582' | | 32.25/lf | 18,769. ⁵⁰ |
| HERCP | 34"x54" | 914' | 914' | | 100. ⁵⁰ | 91,857. ⁵⁰ |
| OPEN DITCH | - | 3471' | 2907' | -564' | 19.55/lf | 67,858. ⁰⁵ |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Sum: 7555' 6991' -564' \$215,363.⁵⁵

Final Report: 7,555'

Comments:

564' OF OPEN DITCH RELOCATED FOR CRESTVIEW SECT.



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

March 25, 1996

typed May 7, 1996

TO: Hamilton County Drainage Board

RE: Kirkendall Drain

Attached is a petition, plans, drainage shed calculations and assessment roll for the Kirkendall Drain. I have reviewed the submittals and petition and have found each to be in proper form.

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

| | | | |
|------------|-----------|---------|----------|
| Open Ditch | 3471 feet | 46" RCP | 711 feet |
| 21" RCP | 2374 feet | 34"x54" | 914 feet |

The total length of the drain will be 7470 feet.

The drain shall begin at the lake outlet for Sand Piper Lakes, Structure 46A and Structure 42 on the attached plan and shall include the lengths of pipe between STR 41 and STR 45 running along the East R/W of Shady Nook Road. The drain runs under State Road 32 between STR 45 and STR 49; thence runs West between STR 49 and STR 51 running along the South R/W of State Road 32. The drain shall then run South from STR 51 to STR 54; thence West between STR 54 and STR 55, along the North line of the abandoned Central Indiana Rail Road, which is its outlet into the open ditch; thence, continuing West; thence South East in a new

open ditch to the existing opened ditch South to the box culvert under 169th Street, ending at the South end of said box culvert.

The retention ponds (lakes) located within Sand Piper Lakes is not to be considered part of the regulated drain. Only the outlet will be maintained as part of the regulated drain. The maintenance of the ponds (lakes) will be the responsibility of the Home owners 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.

I have reviewed the plans and believe the drain will benefit each lot within Sand Piper Lakes 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 \$25.00 per lot, with a \$25.00 minimum. For the tracts within Sand Pipe Lakes, I further believe that the drain will benefit each tract outside of Sand Piper Lakes equally. Therefore, I recommend each tract be assessed equally outside of Sand Piper Lakes. I also believe that no damages will result to landowners in this area by the construction of this drain. I recommend a maintenance assessment of \$2.00 per acre, with a \$10.00 minimum. With this assessment the total annual assessment for this section will be \$

Cost of construction the drainage facilities is to be borne by the Developer of Sand Piper Lakes, Wolfson, Young Corporation.

Parcels assessed for this drain will also be assessed for the Emily Vestal Drain.

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.

Construction of this drain will place the easements on the following properties:

| | | | |
|----------------------------|---------------------|-----|----------------|
| Keith & Beverly A. Whicker | 06-32-00-00-011.000 | 15' | off South line |
| Larry & Angelita Murphy | 06-32-00-00-018.000 | 15' | off South line |
| Terry & Sherryl O'Hara | 06-32-00-00-019.000 | 15' | off South line |
| Douglas F. Ferrer | 06-32-00-00-020.000 | 15' | off South line |
| Harold E Wyatt | 06-32-00-00-021.000 | 15' | off South line |

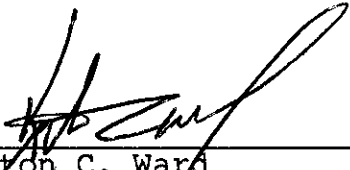
(Measured from East R/W of Shady Nook Road)

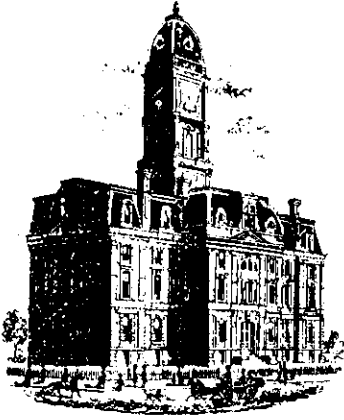
| | | | |
|---------------------------|---------------------|------------------------------------|-----------------------------|
| Harold E. Wyatt | 06-32-00-00-021.000 | 30' | off West line |
| LaVaugh A. Piper | 06-32-00-00-017.000 | 30' | off West line |
| Julian & Vera Maea Mae | 06-32-00-00-016.000 | 30' | off West line |
| Leonard C. Logan | 06-32-00-00-015.000 | 30' | off West line |
| Michael W. & Judith Lucas | 06-32-00-00-014.000 | 30' | off West line |
| Michael W. & Judith Lucas | 06-32-00-00-013.000 | 30' | off West line |
| Kenneth & Brenda Lutz | 06-32-00-00-012.000 | 30' | off West line |
| Terry & Belinda Wood | 06-32-00-00-011.001 | 30' | off West line |
| | | | |
| Joseph & Hollie Yuhas | 10-05-00-00-006.000 | 15' | off North line |
| Joseph & Hollie Yuhas | 10-05-00-00-006.000 | 15' | off West line |
| Jeffrey & Kathie Walker | 10-05-00-00-005.001 | 25' | off East line |
| Aaron & Lisa O'Cull | 10-05-00-00-005.000 | 25' | off East line |
| Aaron & Lisa O'Cull | 10-05-00-00-005.000 | 50' | off South line |
| Joseph & Hollie Yuhas | 10-05-00-00-004.001 | 50' | off South line |
| City of Noblesville | 10-05-00-00-028.000 | Entire width R/W 532' in length | |
| Thomas W. Brown | 10-05-00-00-025.000 | 75' | both sides of open ditch |
| Eleanor Lang | 10-05-00-00-026.000 | 75' | both sides of open ditch |

I recommend that upon approval of the above proposed drain that the Board also approve the request for reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Sand Piper Lakes as recorded in the office of the Hamilton County Recorder.

The assessment area for the Kirkendall Drain does not include the portions of existing drain between Hazeldale Road and 156th Street, done in 1959 nor the portion dredged as the Mary Cox Drain in 1884.

I recommend the Board set a hearing for this proposed drain for May 1996.


Kenton C. Ward
Hamilton County Surveyor



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 146
One Hamilton County Square
Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

April 3, 2000

Re: Kirkendall Drain – Sandpiper Lakes Ext.

Attached are as-builts, certificate of completion & compliance, and other information for Kirkendall Drain – Sandpiper Lakes Extension. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain which will alter the plans submitted with my report for this drain dated March 25, 1996. The changes are as follows:

Structure: T.C.: I.E.: Pipe: Length: Original Plans: Difference:

| | | | | | | |
|-----|--------|--------|----|-----|-----|-----|
| 49 | 861.45 | 852.8 | | | | |
| 44B | 859.99 | 853.7 | 21 | 315 | 317 | -2 |
| 44B | 859.99 | 853.7 | | | | |
| 44A | 861.37 | 854.17 | 21 | 314 | 317 | -3 |
| 44A | 861.37 | 854.17 | | | | |
| 44 | 860.52 | 854.38 | 21 | 321 | 317 | 4 |
| 44 | 860.52 | 854.38 | | | | |
| 43 | 858.4 | 854.72 | 21 | 316 | 317 | -1 |
| 43 | 858.4 | 854.72 | | | | |
| 42 | | 854.78 | 21 | 117 | 121 | -4 |
| 46A | | 858.6 | | | | |
| 46 | 861.6 | 858.22 | 21 | 108 | 103 | 5 |
| 46 | 861.6 | 858.22 | | | | |
| 47 | 863.8 | 857.34 | 21 | 331 | 329 | 2 |
| 47 | 863.8 | 857.34 | | | | |
| 48 | 864.53 | 855.11 | 21 | 324 | 329 | -5 |
| 48 | 864.53 | 855.11 | | | | |
| 45 | 859.17 | 853.23 | 21 | 348 | 329 | 19 |
| 45 | 859.17 | 853.23 | | | | |
| 49 | 861.45 | 853.2 | 21 | 94 | 109 | -15 |
| 51 | 855.09 | 851.86 | | | | |

| | | | | | | |
|----|--------|--------|----------------|-----|-----|----|
| 50 | 860.59 | 852.06 | 36 | 322 | 321 | 1 |
| 50 | 860.59 | 852.06 | | | | |
| 49 | 861.45 | 852.15 | 36 | 260 | 259 | 1 |
| 51 | 855.09 | 851.86 | | | | |
| 52 | 855.77 | 851.46 | 34X54herc p | 322 | 321 | 1 |
| 52 | 855.77 | 851.46 | | | | |
| 53 | 855.3 | 851.07 | 34X54herc p | 321 | | |
| 53 | 855.3 | 851.07 | | | | |
| 54 | 859.96 | 850.7 | 34X54herc p | 240 | | |
| 55 | | 850.66 | | | | |
| 54 | 854.96 | 850.7 | 34X54herc p | 31 | 32 | -1 |

RCP Pipe

Totals:

| | | |
|---------------------|-------------|------|
| | 21 | 2588 |
| | 36 | 582 |
| | 34x54 hercp | 914 |
| Other Drain: | | |
| open drain | | 3471 |


The length of the drain due to the changes described above is now **7,555 feet**.

Easements are designated out in my original report to the board dated March 25, 1996.

This project was not bonded. Therefore, no sureties were accepted or released.

I recommend the Board approve the drains construction as complete and acceptable.

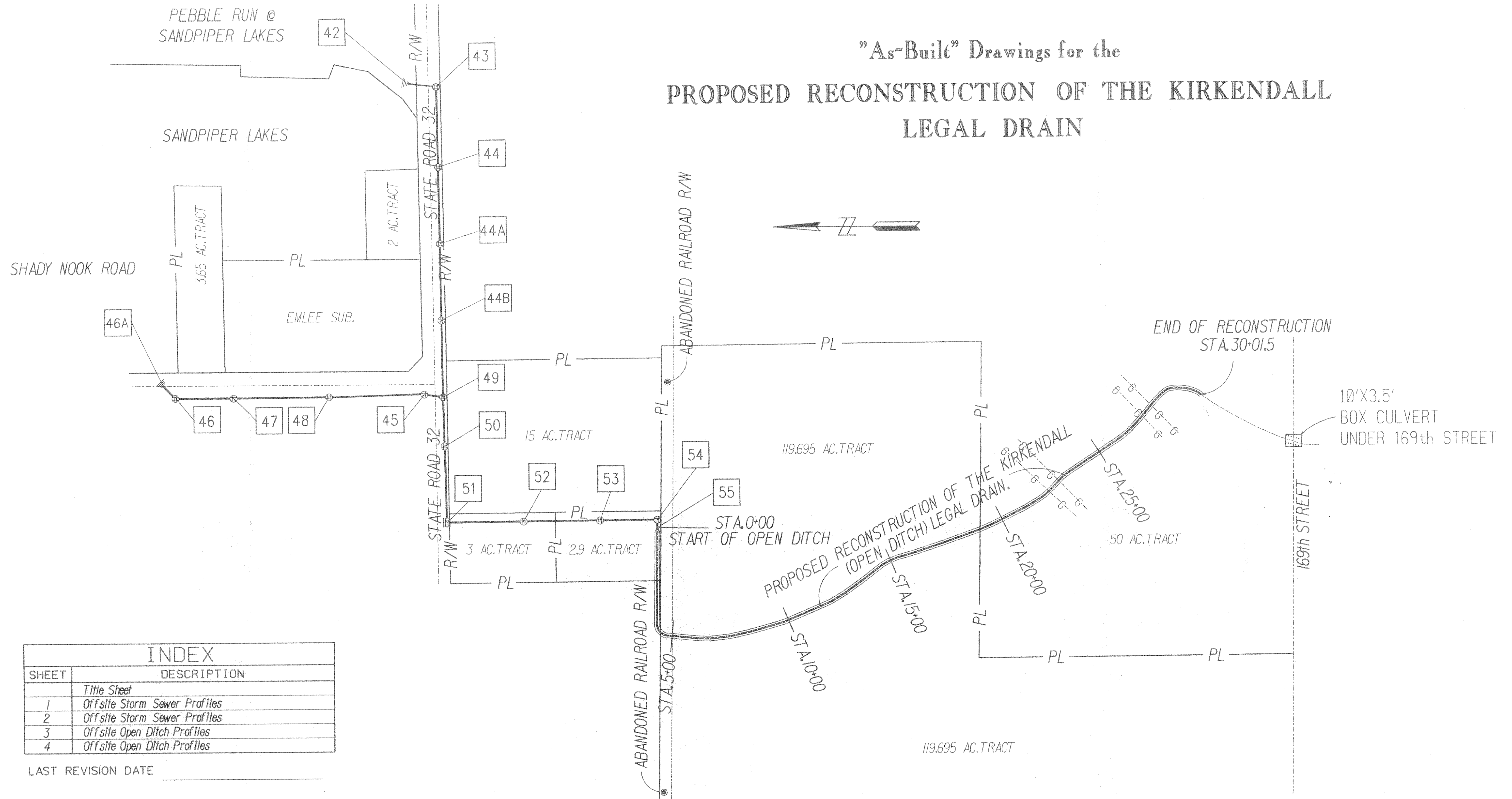
Sincerely,



 Kenton C. Ward,
 Hamilton County Surveyor

KCW/slm

"As-Built" Drawings for the PROPOSED RECONSTRUCTION OF THE KIRKENDALL LEGAL DRAIN



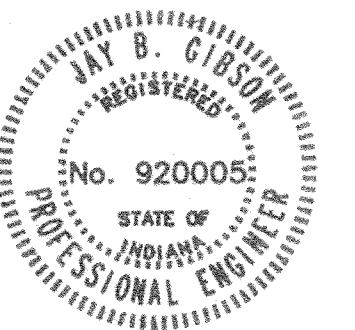
| INDEX | |
|-------|-------------------------------------|
| SHEET | DESCRIPTION |
| | <i>Title Sheet</i> |
| 1 | <i>Offsite Storm Sewer Profiles</i> |
| 2 | <i>Offsite Storm Sewer Profiles</i> |
| 3 | <i>Offsite Open Ditch Profiles</i> |
| 4 | <i>Offsite Open Ditch Profiles</i> |

LAST REVISION DATE _____

PREPARED BY:
CDG
CONSULTING L.L.C.
RESIDENTIAL - COMMERCIAL
COMPLETE SITE DEVELOPMENT SERVICES
88 NORTH 1st STREET ZIONSVILLE, INDIANA 46077
TELEPHONE (317) 873-9360 FACSIMILE (317) 873-9362

CERTIFIED THIS 9th DAY OF FEBRUARY 1998

Jay B. Gibson
Jay B. Gibson
Registered Professional Engineer No. 920005-Indiana



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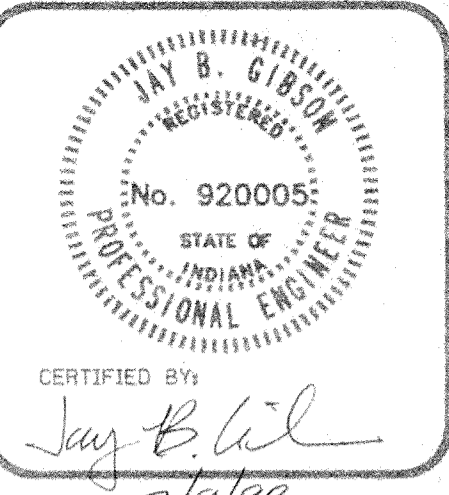
Entry Date: 10/31/02

Entered by: Suzanne L. Hill

FILED
OCT 07 1998

OFFICE OF HAMILTON COUNTY SURVEYOR

C9748



CDG CONSULTING L.L.C.
 RESIDENTIAL - COMMERCIAL SERVICES
 COMPLETE SITE DEVELOPMENT SERVICES
 88 NORTH 161ST STREET
 ZIONSVILLE, INDIANA 46077
 TELEPHONE (317) 873-9360
 FACSIMILE (317) 873-9362

FILE DATE
 FEB. 9, 1998

"AS-BUILT"
OFFSITE STORM SEWER PROFILES

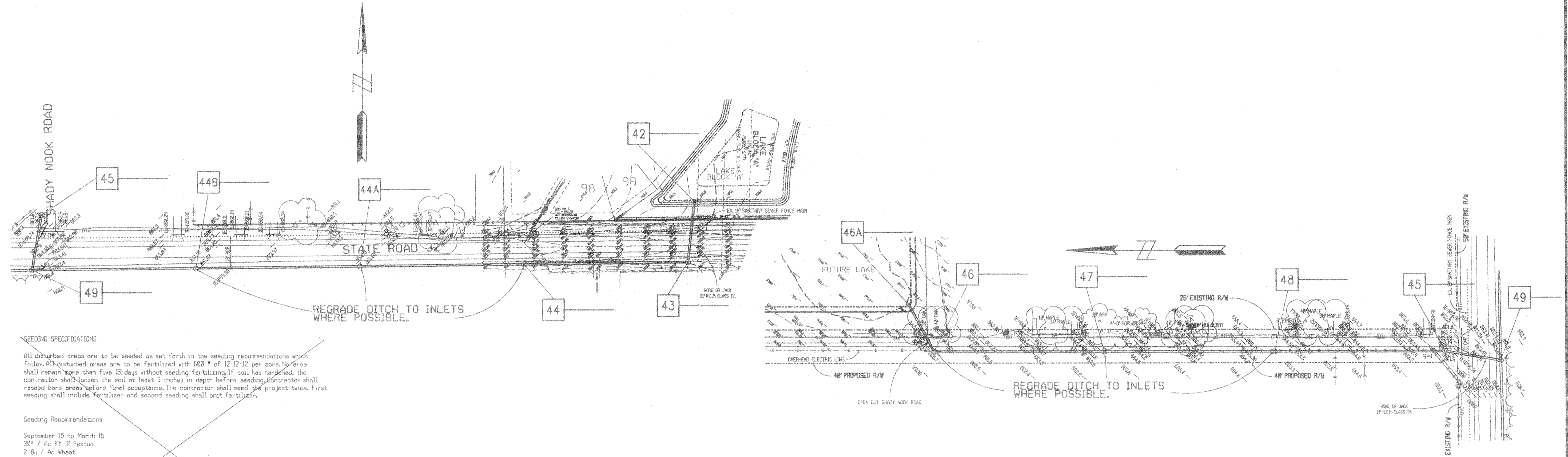
SCALE: PLAN: 1" = 100'
 PROFILE: 1" = 10'
 HORIZONTAL: 1" = 100'

1-800-382-5544
 CALL BEFORE YOU DIG

Sandpiper Lakes
Section 1
 Westfield, Indiana

SHEET #
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 OCT 03 1998
 OFFICE OF HAMILTON COUNTY SURVEYOR

PROJECT NO.
 C9748



SEEDING SPECIFICATIONS

All disturbed areas are to be seeded as set forth in the seeding recommendations which follow. All disturbed areas are to be fertilized with 600 # of 12-12-12 per acre. No area shall remain more than five (5) days without seeding/fertilizing. If soil has hardened, the contractor shall loosen the soil at least 3 inches in depth before seeding. Contractor shall seed bare areas before final acceptance. The contractor shall seed the project twice. First seeding shall include fertilizer and second seeding shall omit fertilizer.

Seeding Recommendations

September 15 to March 15
 30# / Ac KY 31 Fescue
 2 Bu / Ac Wheat

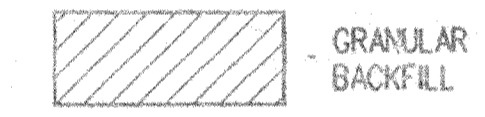
March 15 to May 15
 30# / Ac KY 31 Fescue
 2 Bu / Ac Oats

May 15 to September 15
 30# / Ac KY 31 Fescue
 10# / Ac Annual Ryb Grass

All areas shall be mulched. Mulch shall consist of 1 1/2 tons of dry material per acre. Material shall consist of straw, hay or erosion control fabric. Mulch shall be applied at a rate of 55 bales per acre after seeding/fertilizing the area.

NOTES:
 CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT-ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.
 TOP OF CASTINGS TO BE FIELD ADJUSTED.

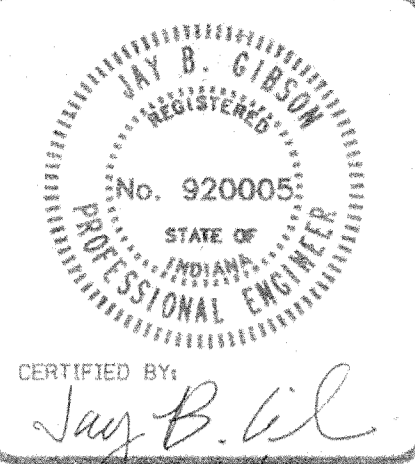
NOTES:
 LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.



| Stationing | Structure | Proposed Grade | Structure Invert | Structure Length | Structure Slope | Structure Material |
|------------|-----------------|----------------|------------------|------------------|-----------------|--------------------|
| 852.15 | 49 T.C. 860.99 | 852.70 | 852.15 | 315 | 0.29% | 21" RCP @ 0.40% |
| 853.70 | 44B T.C. 839.99 | 853.70 | 853.70 | 314 | 0.15% | 21" RCP @ 0.40% |
| 854.17 | 44A T.C. 861.37 | 854.17 | 854.17 | 317 | 0.10% | 21" RCP @ 0.40% |
| 854.36 | 44 T.C. 860.52 | 854.36 | 854.36 | 316 | 0.11% | 21" RCP @ 0.40% |
| 854.72 | 43 T.C. 858.40 | 854.72 | 854.72 | 117 | 0.05% | 12" RCP @ 0.40% |
| 854.72 | 42 End Section | 854.72 | 854.72 | 108 | 0.35% | 12" RCP @ 0.40% |
| 858.22 | 46A End Section | 858.22 | 858.22 | 331 | 0.27% | 21" RCP @ 0.47% |
| 856.97 | 47 T.C. 863.55 | 856.97 | 856.97 | 324 | 0.49% | 21" RCP @ 0.47% |
| 855.11 | 48 T.C. 864.53 | 855.11 | 855.11 | 348 | 0.47% | 21" RCP @ 0.47% |
| 853.87 | 45 T.C. 862.60 | 853.87 | 853.87 | 94 | 0.47% | 21" RCP @ 0.47% |
| 852.15 | 49 T.C. 860.99 | 852.15 | 852.15 | | | |

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Entry Date: 10/21/02
 Entered by: Suzanne L. Mills



CDG CONSULTING L.L.C.
 RESIDENTIAL - COMMERCIAL
 COMPLETE SITE DEVELOPMENT SERVICES
 88 NORTH 19 STREET
 ZIONSVILLE, INDIANA 46077
 TELEPHONE (317) 873-9360

FILE DATE
 FEB. 9, 1998

"AS-BUILT"
 OFFSITE
 STORM SEWER
 PROFILES

SCALE:
 PLAN: 1" = 100'
 PROFILE: VERTICAL 1" = 10'
 HORIZONTAL 1" = 100'

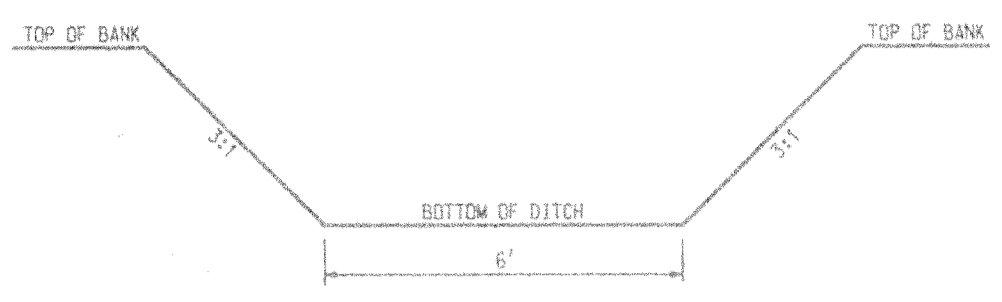
SCALE: 1" = 100' DRAWN BY: PGS

Sandpiper Lakes
 Section 1
 Westfield, Indiana

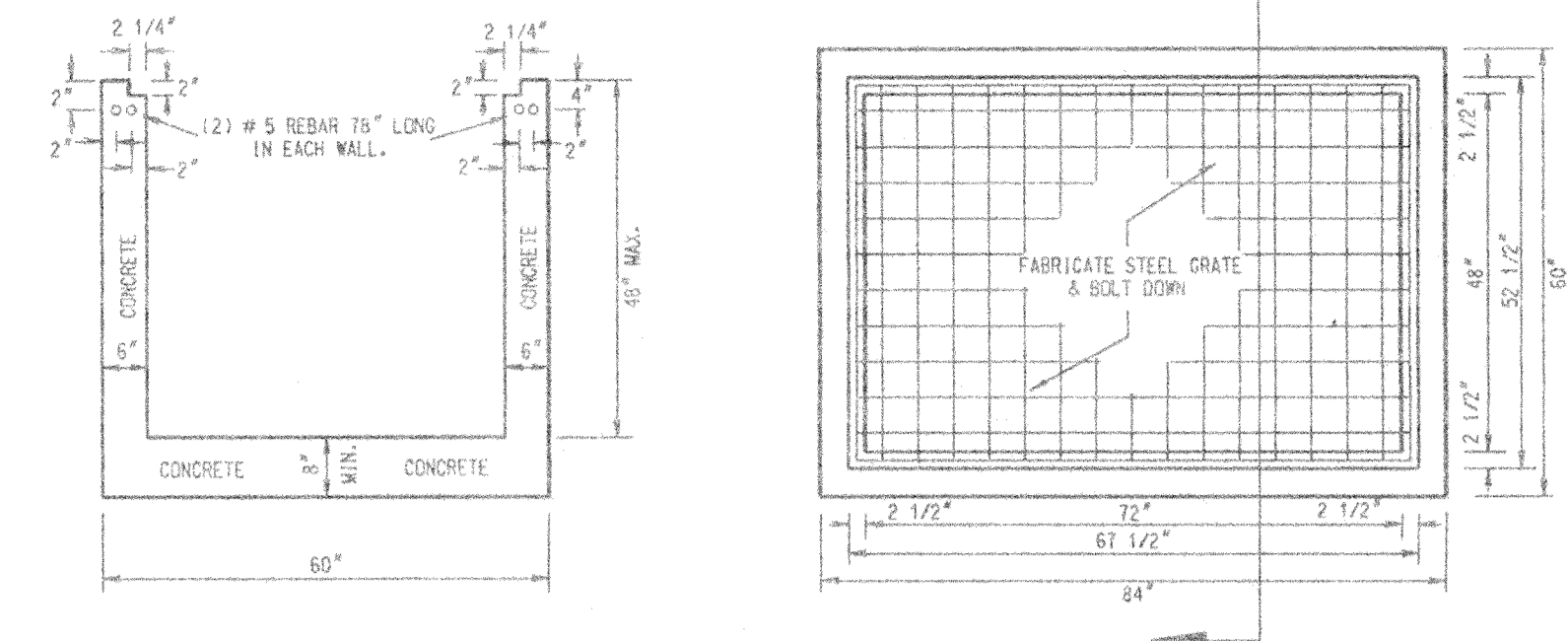
SHEET #
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 OCT 2 1998
 OFFICE OF HAMILTON COUNTY SURVEYOR
 PROJECT NO. C9746

SOIL SPREADING:
 All spoils shall be placed on the operation side of the ditch as designated by the County Surveyor. The finished spot shall be left in a smooth manner so that any average row crop farm tractor can be driven over all parts of it with a reasonable degree of safety and the finished spot shall be left in a tilthable zone without debris including brush, logs, excavator skips or rocks of 1/2 of cubic foot or larger, that will interfere with the plow or mower.

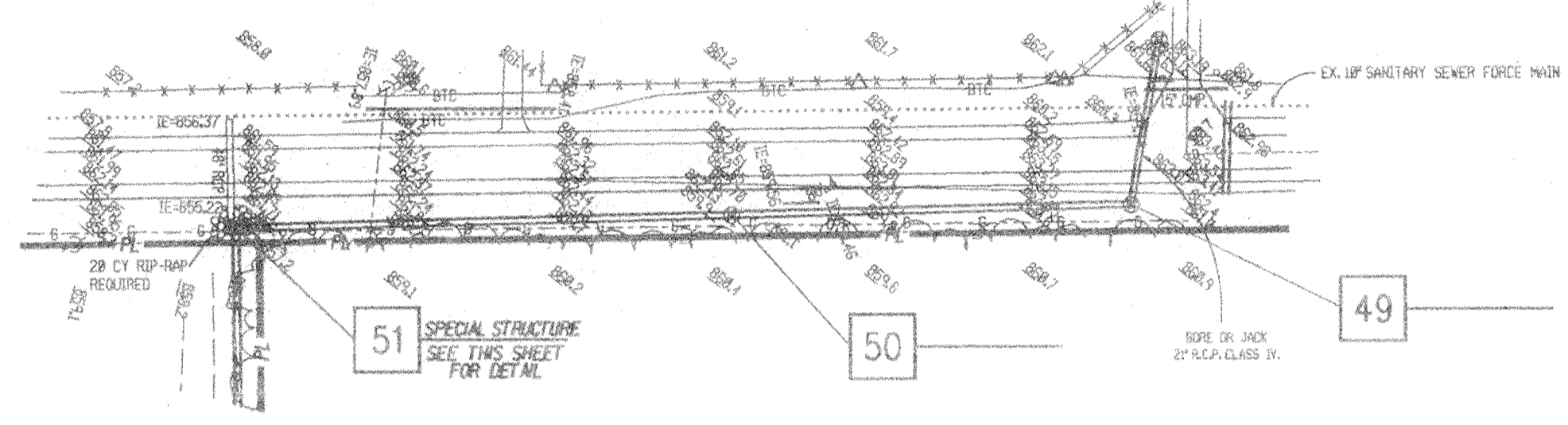
CLEARING:
 CONSERVATION ALTERNATE
 Clearing under this plan shall be done from the top of bank to top of bank and additional areas to be determined by County Surveyor on the operation side of this ditch.



DITCH CROSS SECTION
 NOT TO SCALE



SPECIAL STRUCTURE DETAIL
 NOT TO SCALE



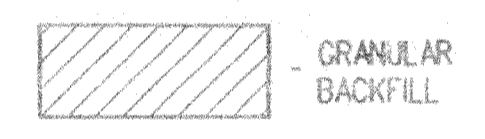
SEEDING SPECIFICATIONS
 All disturbed areas are to be seeded as set forth in the seeding recommendations which follow. All disturbed areas are to be fertilized with 600 # of 12-12-12 per acre. No area shall remain more than five (5) days without seeding/fertilizing. If soil has hardened, the contractor shall loosen the soil to at least 3 inches in depth before seeding. Contractor shall reseed bare areas before final acceptance. The contractor shall seed the project twice. First seeding shall include fertilizer and second seeding shall omit fertilizer.

Seeding Recommendations
 September 15 to March 15
 30# / Ac KY 31 Fescue
 2 Bu / Ac Wheat
 March 15 to May 15
 30# / Ac KY 31 Fescue
 2 Bu / Ac Oats
 May 15 to September 15
 30# / Ac KY 31 Fescue
 10# / Ac Annual Ryegrass

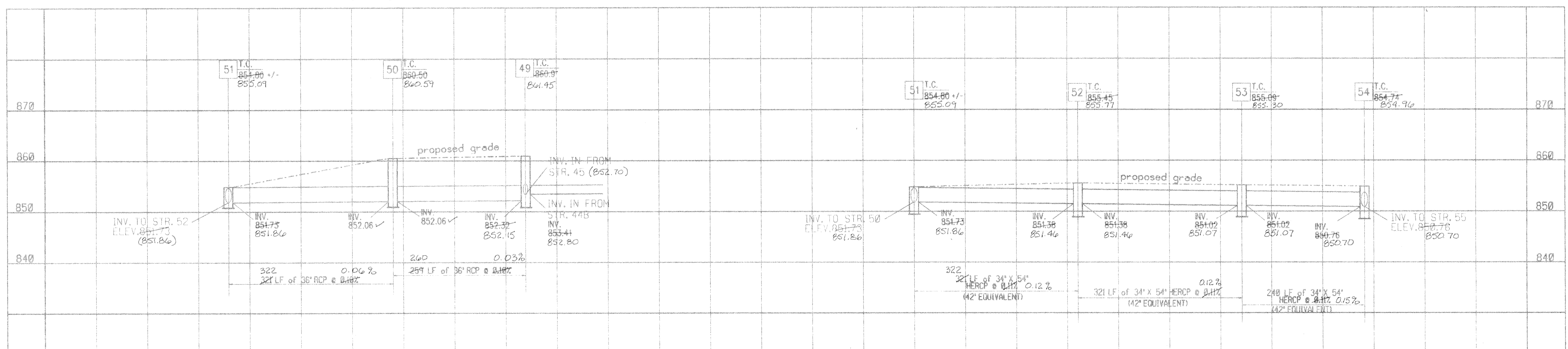
All areas shall be mulched. Mulch shall consist of 1 1/2 tons of dry material per acre. Material shall consist of straw, hay or erosion control fabric. Mulch shall be applied at a rate of 55 bales per acre after seeding/fertilizing the area.

NOTES:
 CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.
 TOP OF CASTINGS TO BE FIELD ADJUSTED.
 FILTER FABRIC TO BE INSTALLED UNDER ALL RIP-RAP.

NOTES:
 LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.



SCALE:
 PLAN: 1" = 100'
 PROFILE: VERTICAL 1" = 10'
 HORIZONTAL 1" = 100'

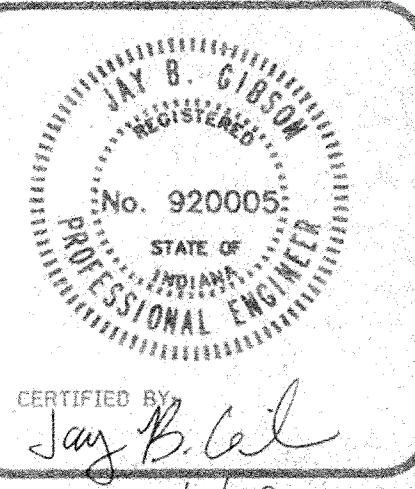


HAMILTON COUNTY INDIANA

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

Entry Date: 10/31/02
 Entered by: Suzanne L. Mills

BENCH MARK
 Bernsten Monument set @ Hazeldale Elementary School (South of Railroad R/W, West of existing blacktop drive)
 ELEV. - 836.30



CERTIFIED BY
Jay B. Wal
 2/9/98

CDG CONSULTING L.L.C.
 COMPLETE SITE DEVELOPMENT SERVICES
 88 NORTH W STREET
 ZIONSVILLE, INDIANA 46077
 TELEPHONE (317) 873-9360
 FACSIMILE (317) 873-9362

FILE DATE
 FEB. 9, 1998

"AS-BUILT"
OFFSITE
OPEN DITCH
PROFILES

SCALE: PLAN: 1" = 100'
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 HORIZONTAL 1" = 100'

1-800-382-5544
 CALL BEFORE YOU DIG

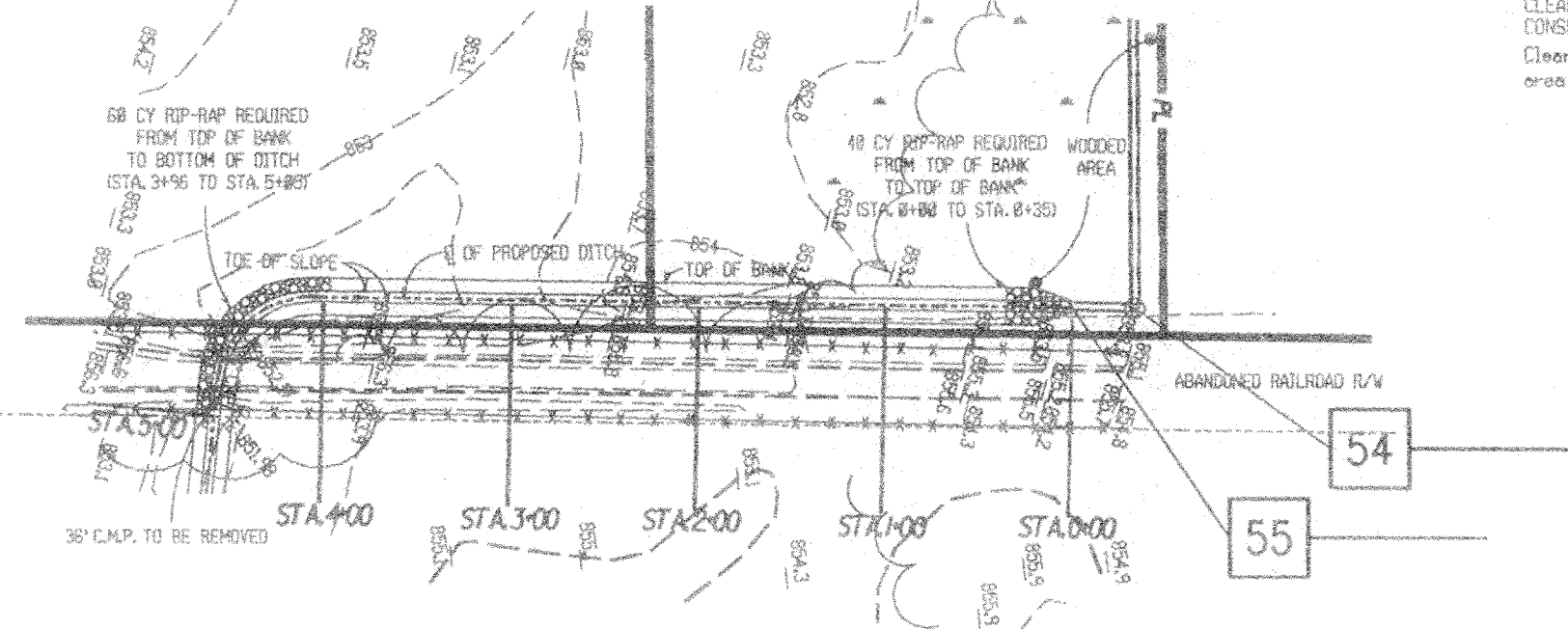
Sandpiper Lakes
 Section 1
 Westfield, Indiana

SHEET #
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 OCT 02 1998
 OFFICE OF HAMILTON COUNTY SURVEYOR
 PROJECT NO.
 C9748

NOTE:
 NO SOIL TO BE REMOVED FROM PROPERTY.



SPOIL SPREADING:
 All spoil shall be placed on the operation side of the ditch as designated by the County Surveyor. The finished spoil shall be left in a smooth manner so that any average row crop farm tractor can be driven over all areas of the spoil to a reasonable degree of safety and the finished spoil bank shall be left in a suitable manner without debris including brush, logs, stumps or rocks of 1/3 of cubic foot or larger, that will interfere with the plow or mower.



CLEARING:
 CONSERVATION ALTERNATE
 Clearing under this plan shall be done from the top of bank to top of bank and additional area to be determined by County Surveyor on the operation side of this ditch.

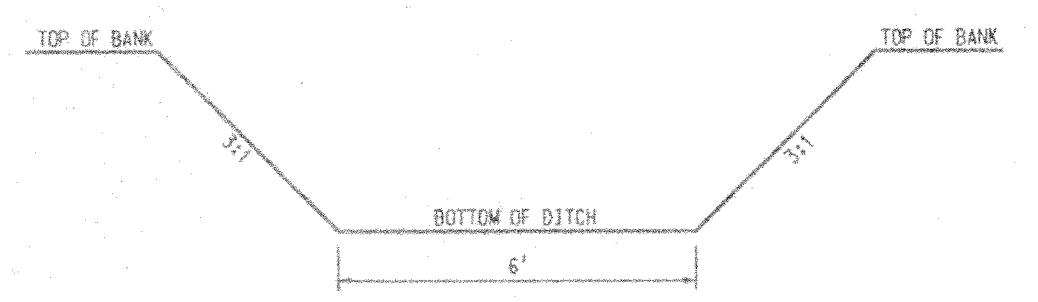
NOTE:
 FINAL GRADES AT INTERSECTION OF RECONSTRUCTED DITCH & RAILROAD R/W TO BE APPROVED BY JAY & ELEANOR LANG & BY COUNTY ENGINEER.

NOTE:
 ALL DEBRIS FROM RAILROAD R/W TO BE REMOVED FROM SITE.

NOTES:
 CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.
 TOP OF CASTINGS TO BE FIELD ADJUSTED.
 FILTER FABRIC TO BE INSTALLED UNDER ALL RIP-RAP.
 Small trees (less than 6 inch diameter) and tree limbs will be chipped and spread with the excavated spoils shown by the plans.
 Inorganic debris (rocks, pipe, metal, brick, etc.) and large trees shall be removed offsite and disposed of by the contractor (no burning).
 NO EQUIPMENT ACCESS EXCEPT THROUGH LEGAL DRAIN EASEMENT.

NOTES:
 LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.

NOTE:
 AMOUNT OF RIP-RIP TO BE USED FOR ALL FARM CROSSINGS TO BE DETERMINED WITH RICE BERRY OR WELLS ENGINEERS, INC. PRIOR TO CONSTRUCTION.



DITCH CROSS SECTION



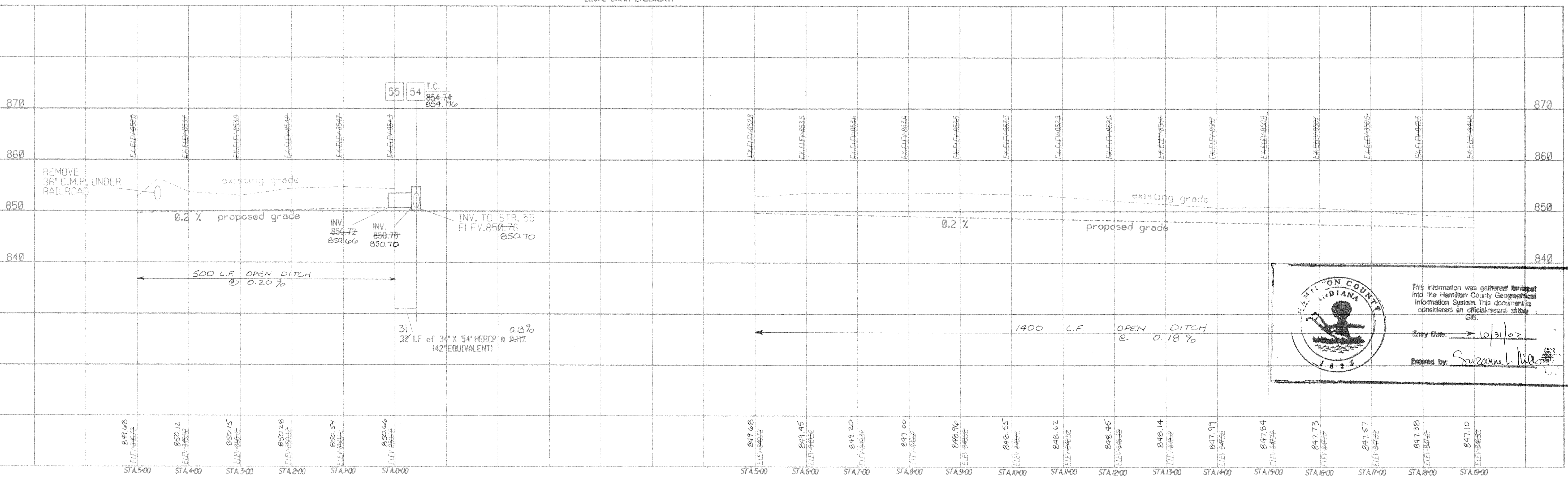
SCALE:
 PLAN: 1" = 100'
 PROFILE: VERTICAL 1" = 10'
 HORIZONTAL 1" = 100'

GRANULAR BACKFILL

SEEDING SPECIFICATIONS
 All disturbed areas are to be seeded as set forth in the seeding recommendations which follow. All disturbed areas are to be fertilized with 500 # of 12-12-12 per acre. No area shall remain more than five (5) days without seeding fertilizer. If soil has hardened, the contractor shall loosen the soil at least 3 inches in depth before seeding. Contractor shall reseed bare areas before final acceptance. The contractor shall seed the project twice. First seeding shall include fertilizer and second seeding shall omit fertilizer.

Seeding Recommendations
 September 15 to March 15
 30# / Ac KY 31 Fescue
 2 Bu / Ac Wheat
 March 15 to May 15
 30# / Ac KY 31 Fescue
 2 Bu / Ac Oats
 May 15 to September 15
 30# / Ac KY 31 Fescue
 18# / Ac Annual Ryegrass

BENCH MARK
 Bernsten Monument set @ Hazeldale Elementary School (South of Railroad R/W, West of existing blacktop drive)
 ELEV. - 836.30



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: 10/31/02
 Entered by: Suzanne L. [Signature]

SEEDING SPECIFICATIONS

All disturbed areas are to be seeded as set forth in the seeding recommendations which follow. All disturbed areas are to be fertilized with 600 # of 12-12-12 per acre. No area shall remain bare for more than five (5) days without seeding/fertilizing. If soil has hardened, the contractor shall loosen the soil at least 3 inches in depth before seeding. Contractor shall reseed bare areas before final acceptance. The contractor shall seed the project twice. First seeding shall include fertilizer and second seeding shall omit fertilizer.

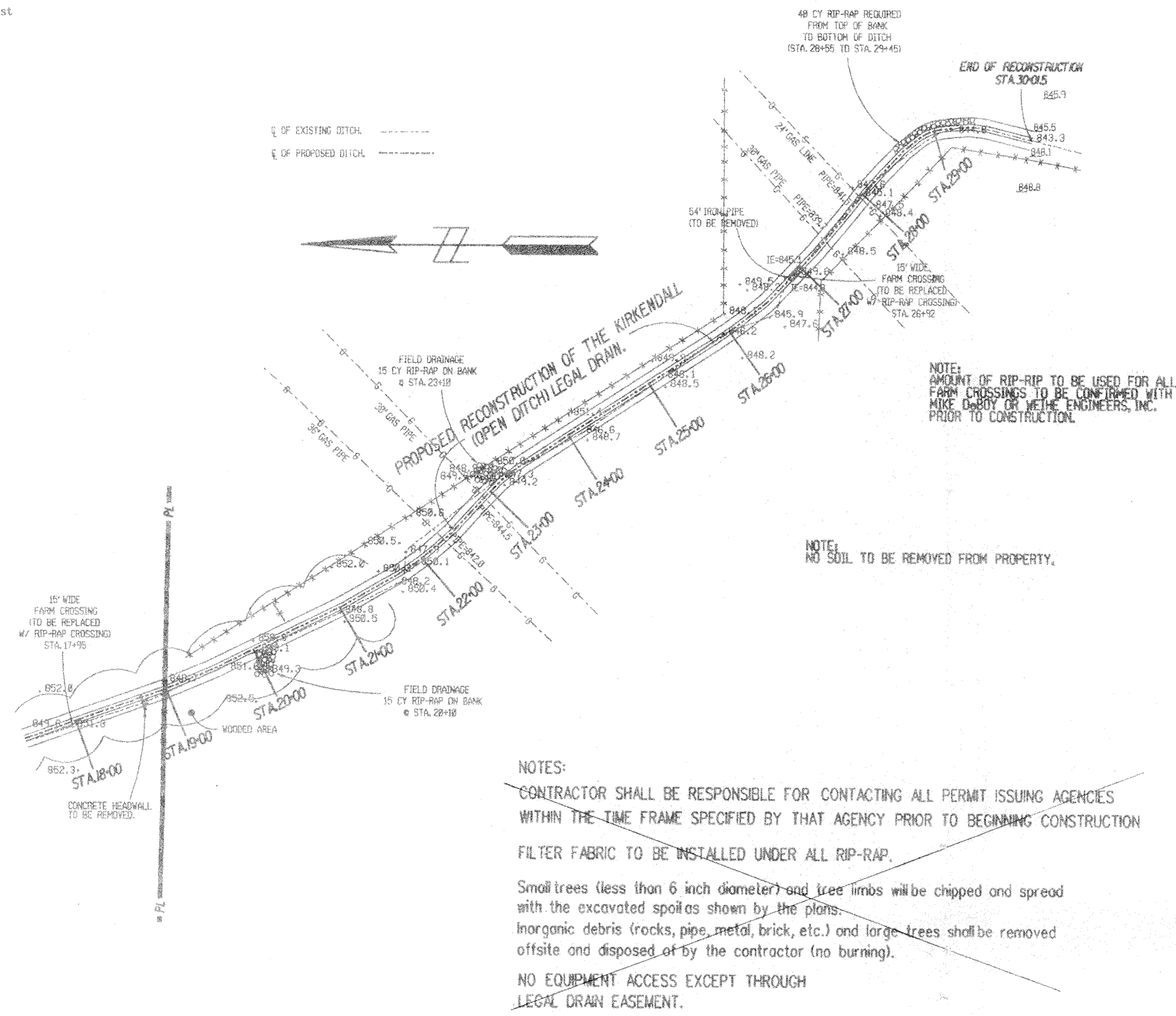
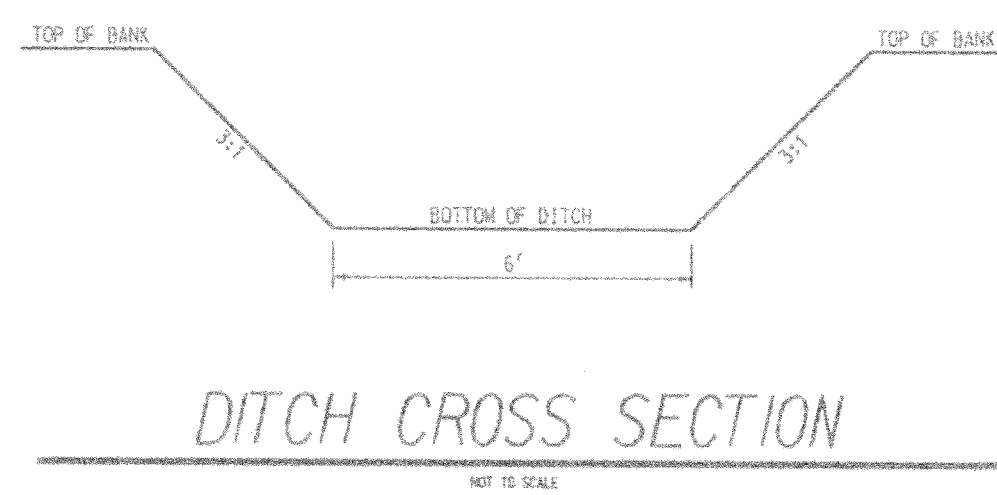
Seeding Recommendations

September 15 to March 15
30# / Ac KY 31 Fescue
2 Bu / Ac Wheat

March 15 to May 15
30# / Ac KY 31 Fescue
2 Bu / Ac Oats

May 15 to September 15
30# / Ac KY 31 Fescue
10# / Ac Annual Ryegrass

All areas shall be mulched. Mulch shall consist of 1 1/2 tons of dry material per acre. Material shall consist of straw, hay or erosion control fabric. Mulch shall be applied at a rate of 55 bales per acre after seeding/fertilizing the area.

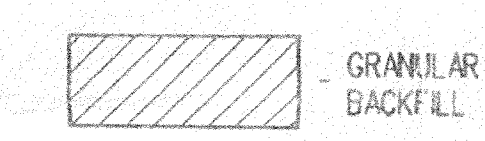


NOTES:
 CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.
 FILTER FABRIC TO BE INSTALLED UNDER ALL RIP-RAP.
 Small trees (less than 6 inch diameter) and tree limbs will be chipped and spread with the excavated spoils as shown by the plans.
 Inorganic debris (rocks, pipe, metal, brick, etc.) and large trees shall be removed offsite and disposed of by the contractor (no burning).
 NO EQUIPMENT ACCESS EXCEPT THROUGH LEGAL DRAIN EASEMENT.

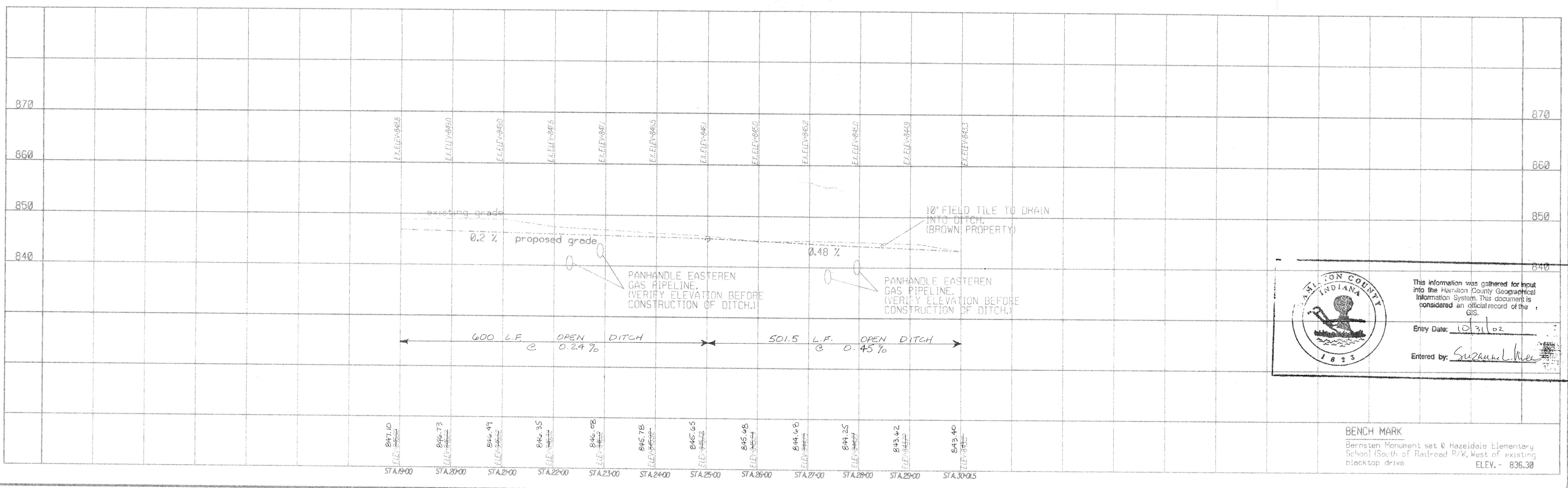
CLEARING/CONSERVATION ALTERNATE:
 Clearing under this plan shall be done from the top of bank to top of bank and additional area to be determined by County Surveyor on the operation side of this ditch.

SPILL SPREADING:
 All spoils shall be placed on the operation side of the ditch as designated by the County Surveyor. The finished spoil shall be left in a smooth mound, as short as average row crop farm tractor can be driven over the mound with a reasonable degree of safety and the finished spoil bank shall be left in a tillable mow without debris including brush, logs, stumps or rocks of 1/3 of cubic foot or larger. All spoils shall be spread with the plow or mower.

NOTES:
 LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.

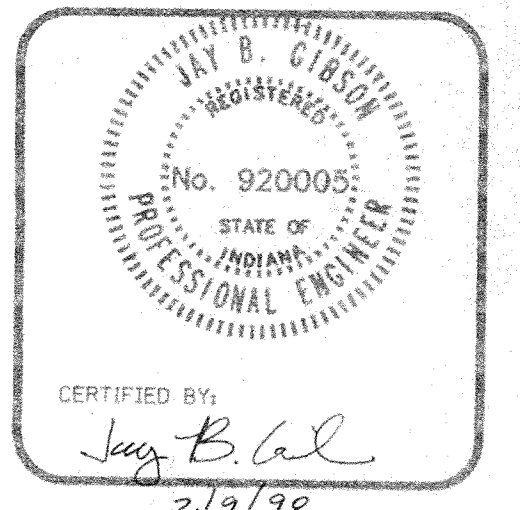


SCALE:
 PLAN: 1" = 100'
 PROFILE: 1" = 10'
 HORIZONTAL: 1" = 100'



HAMILTON COUNTY INDIANA
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 Entry Date: 10/31/02
 Entered by: Suzanne L. Meier

BENCH MARK
 Barnstern Monument set @ Hazeldale Elementary School (South of Railroad R/W, West of existing blacktop drive)
 ELEV. - 836.30



CDG CONSULTING L.L.C.
 RESIDENTIAL - COMMERCIAL SERVICES
 COMPLETE SITE DEVELOPMENT SERVICES
 88 NORTH 86 STREET
 ZIONSVILLE, INDIANA 46077
 TELEPHONE (317) 873-9380
 FACSIMILE (317) 873-9362

FILE DATE
 FEB. 9, 1998
"AS-BUILT"
OFFSITE OPEN DITCH PROFILES
 SCALE: 1" = 100'
 DRAWN BY: PJS

Sandpiper Lakes
Section 1
 Westfield, Indiana

SHEET #
FILED
 OCT 02 1998
 OFFICE OF HAMILTON COUNTY SURVEYOR
 C. J. 46