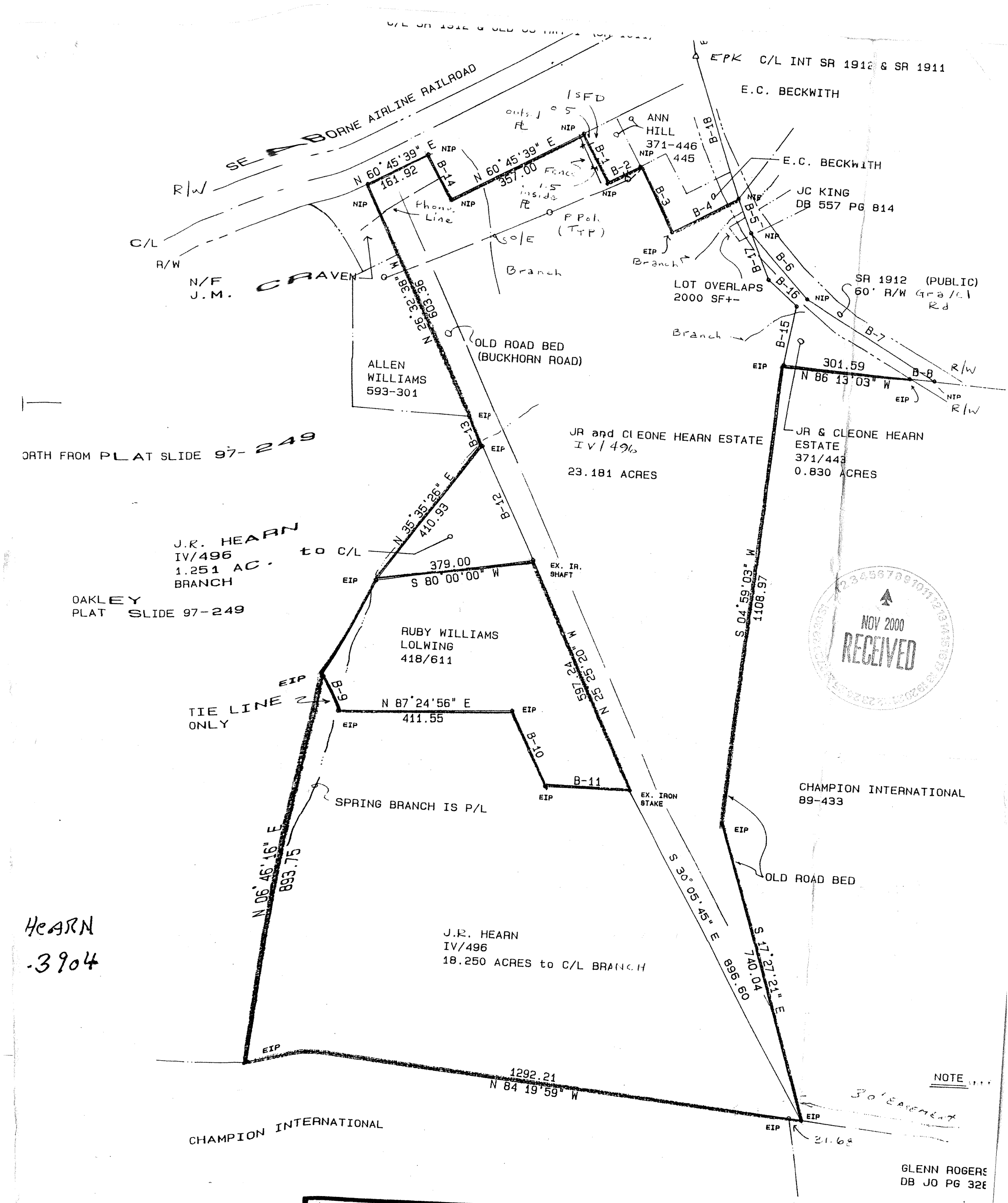
1906Map2001 - Batch No.___

17

19-06 CHINATHAPI

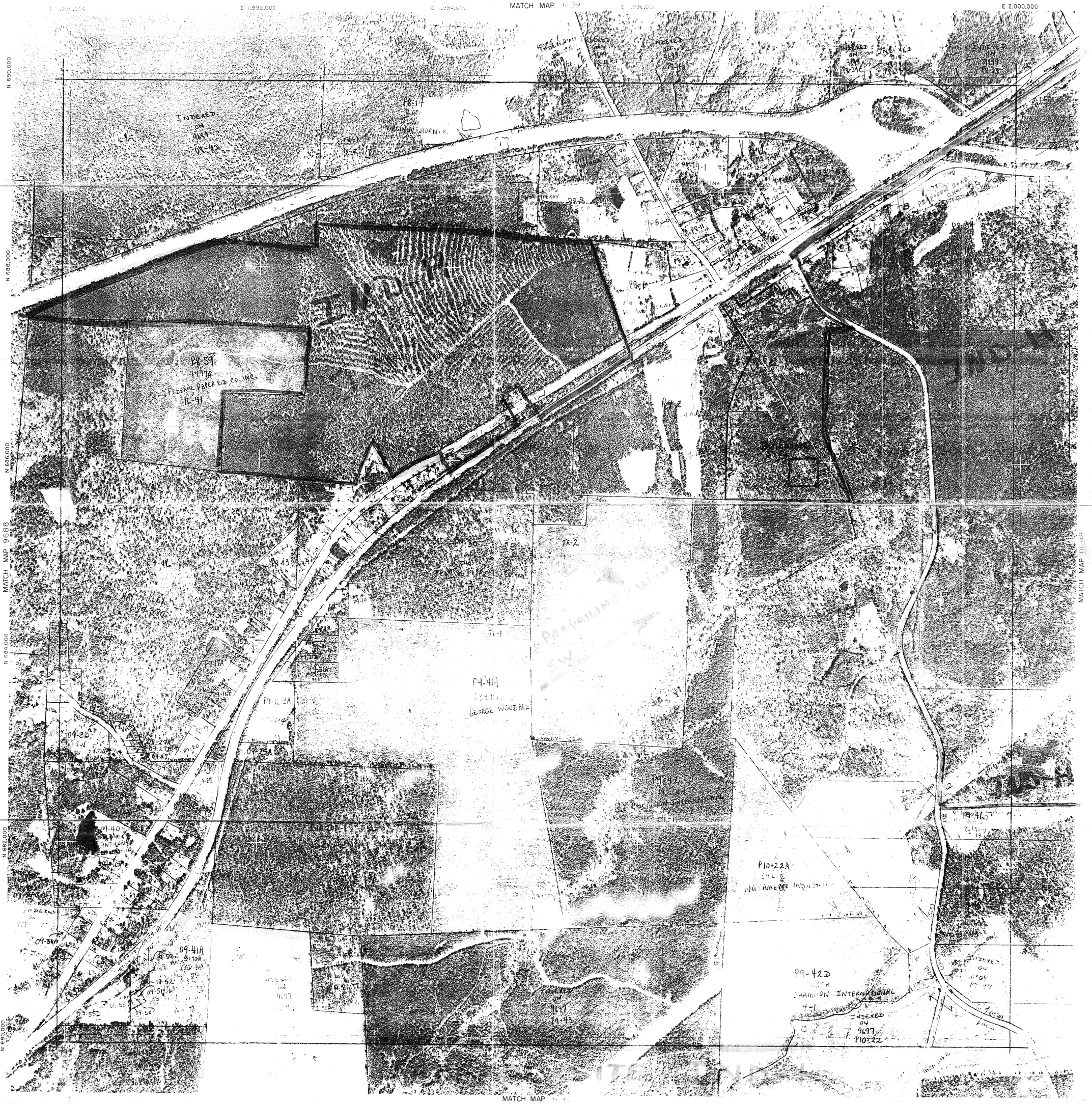
1906 2001
MAP




HEARN
-3904

| REVISIONS | PROPERTY OF : J.R. HEARN and CLEONE HEARN ESTATE and | |
|---|---|---|
| | TOWNSHIP: CAPE FEAR | COUNTY: CHATHAM |
| 0 200 SCALE | STATE : NORTH CAROLINA | |
| | ZONE : | TAX MAP: PARCEL : |

# ORTHOPHOTO MAP SECTION OF CHATHAM COUNTY, NORTH CAROLINA

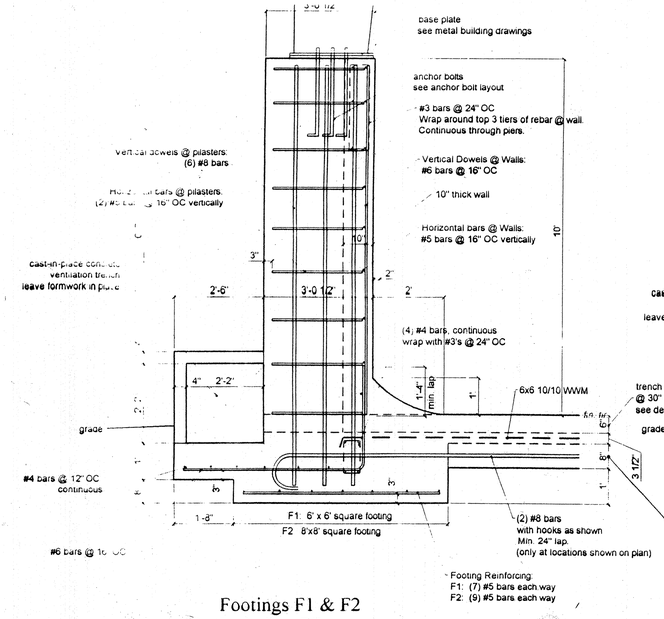



ORTHOPHOTO MAP BY Landmark Engineering
P.O. Box 668 Cary, N.C.
Photography Date 3-86, 3-87
Project No.

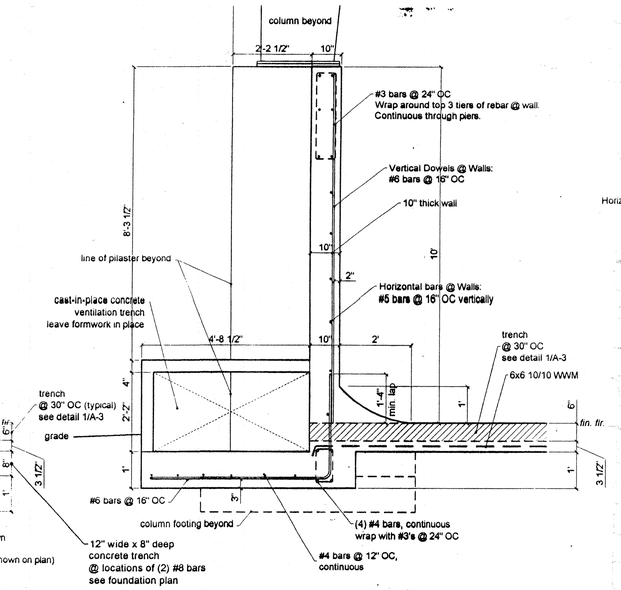
Map Compiled By Stereophotogrammetric Methods In Accordance
With National Map Accuracy Standards

Grid Based On North Carolina State Plane Coordinate System

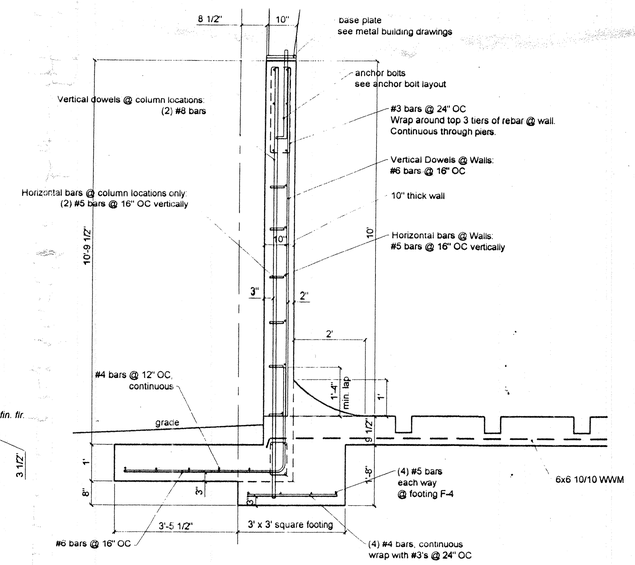
19-06



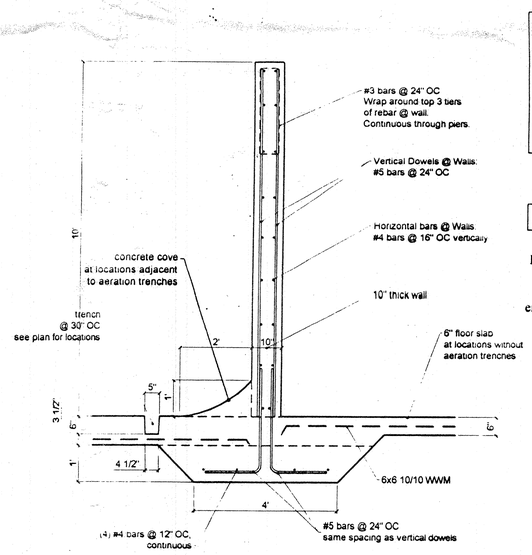

4 Footings F1 & F2 Including Pilaster
A-3 1/2" = 1'-0"




3 Wall Section
A-3 1/2" = 1'-0"



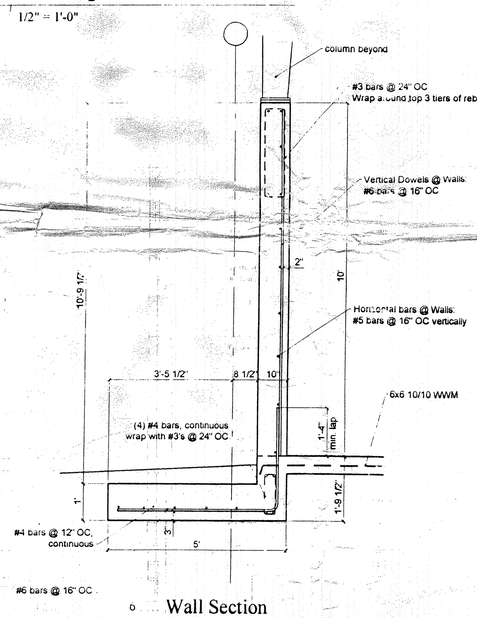

2 Wall Section @ End Wall Including Footing F-4
A-3 1/2" = 1'-0"



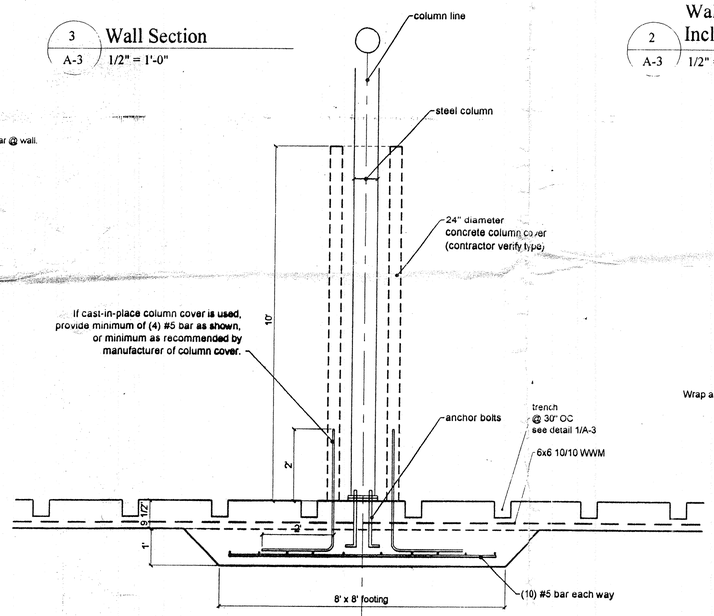

1 Footing @ Interior Concrete Walls
A-3 1/2" = 1'-0"


Adams
Architecture
608 West Broad Street
Elizabethtown, NC 28337
phone 910.862.3131
fax 910.862.3636
email cadams@intrstar.net

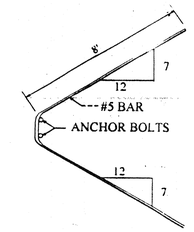

Christopher Gareth Adams
Registered Architect
7482
North Carolina
Elizabethtown, NC



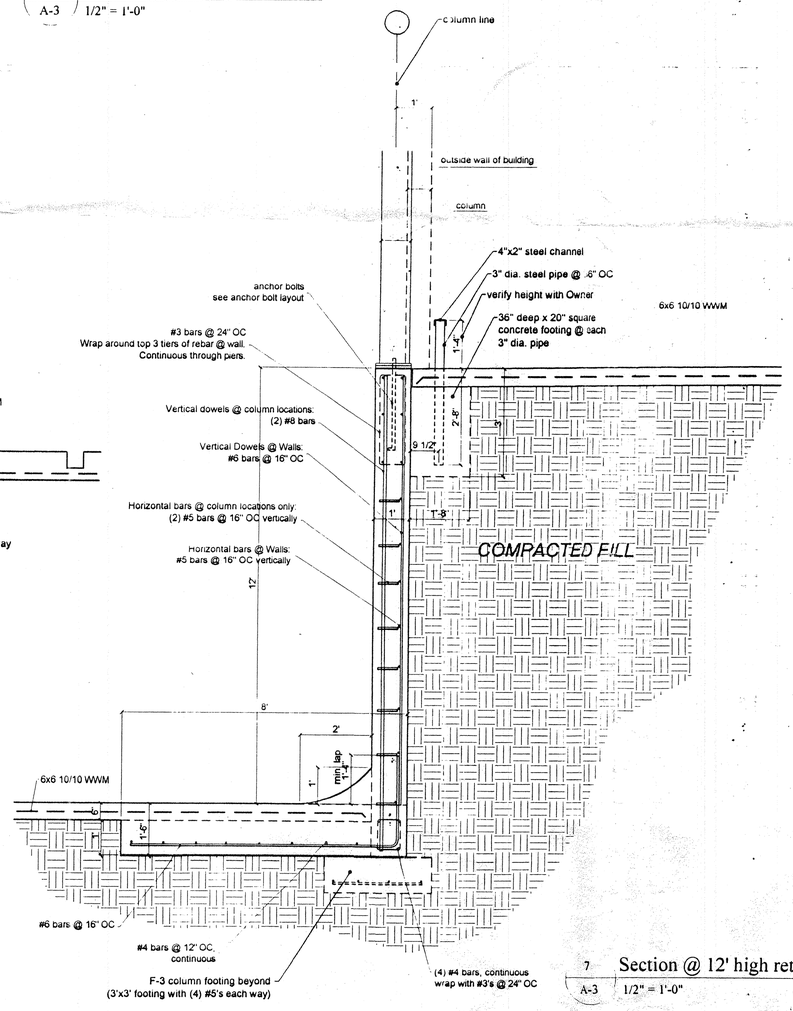

6 Wall Section
A-3 1/2" = 1'-0"



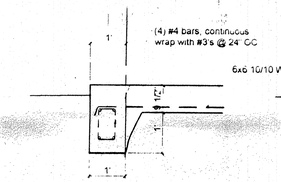

5 Section @ Interior Column Including Footing F-3
A-3 1/2" = 1'-0"



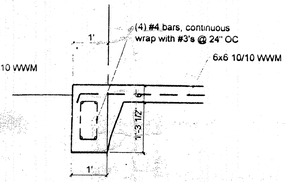

Hairpin Detail
not to scale



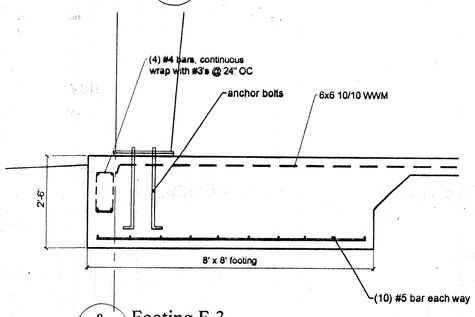

7 Section @ 12' high retaining wall
A-3 1/2" = 1'-0"




10 Footing F6
A-3 1/2" = 1'-0"




9 Footing F7
A-3 1/2" = 1'-0"




8 Footing F-3
A-3 1/2" = 1'-0"

Project:
McGill Environmental Systems
Chatham County, NC

Contractor:

Foundation Details

| date | revision |
|---|---|
| | |
| | |
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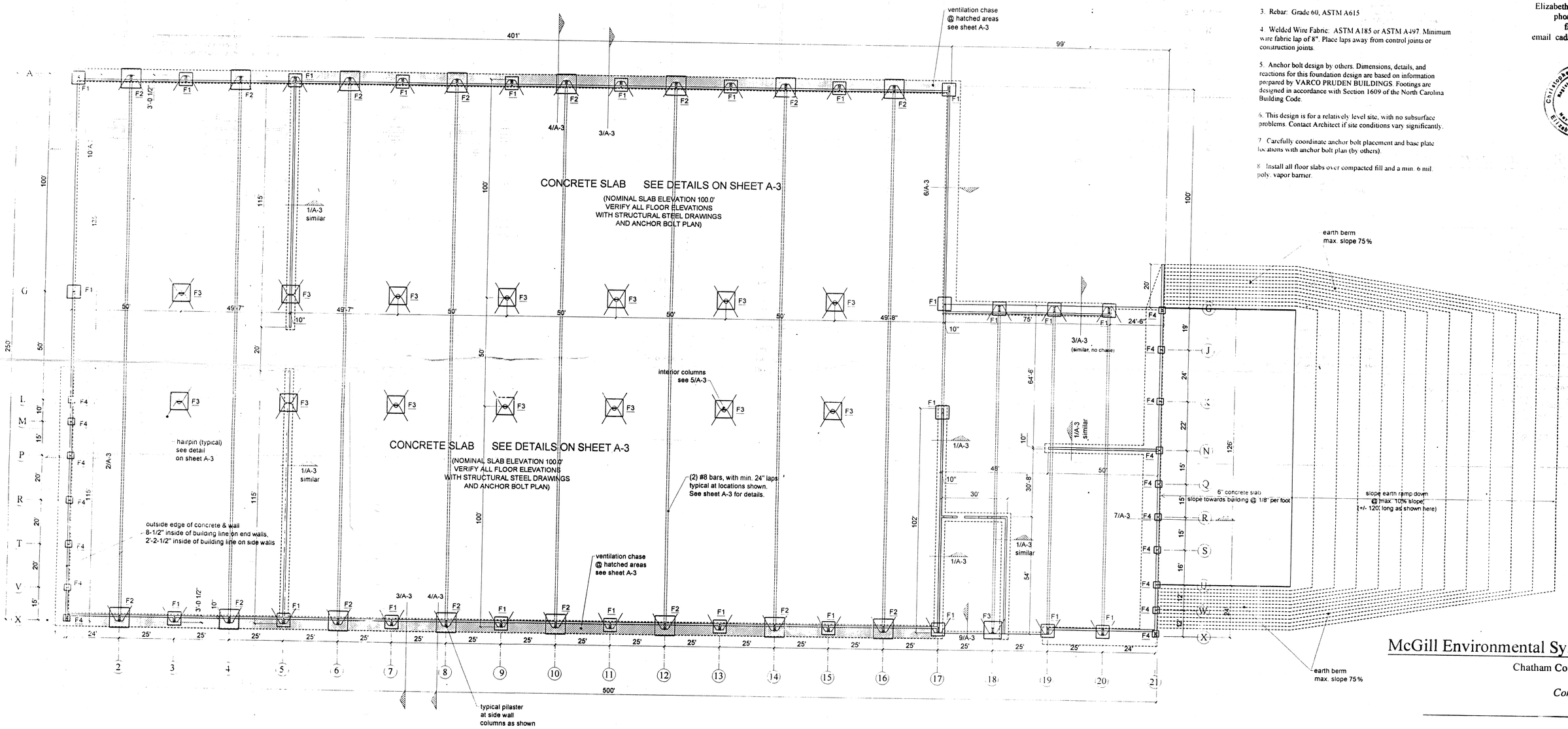
| | |

February 26, 2001

Working Drawings for Construction

sheet A-3




GENERAL NOTES:

1. Presumptive soil bearing capacity of 2,000 PSF. Contractor shall verify compaction below footings to a minimum of 95% Proctor.

2. Concrete to have a minimum 28 day compressive strength of 3,000 PSI.

3. Rebar: Grade 60, ASTM A615

4. Welded Wire Fabric: ASTM A185 or ASTM A497. Minimum wire fabric lap of 8". Place laps away from control joints or construction joints.

5. Anchor bolt design by others. Dimensions, details, and reactions for this foundation design are based on information prepared by VARCO PRUDEN BUILDINGS. Footings are designed in accordance with Section 1609 of the North Carolina Building Code.

6. This design is for a relatively level site, with no subsurface problems. Contact Architect if site conditions vary significantly.

7. Carefully coordinate anchor bolt placement and base plate locations with anchor bolt plan (by others).

8. Install all floor slabs over compacted fill and a min. 6 mil. poly. vapor barrier.


Adams
Architecture
608 West Broad Stree
Elizabethtown, NC 2833
phone 910.862.313
fax 910.862.363
email cadams@intrstar.ne


Christopher Gareth Adams
Registered Architect
7462
North Carolina
Elizabethtown, NC

FOUNDATION DESIGN PARAMETERS

1. WIND LOAD = 80 MPH; EXPOSURE "C"
2. ROOF LOAD = 20 PSF LIVE LOAD
3. RF SHT+SECONDARY DEAD LOAD = 2.06 PSF
4. ADD'L GRAVITY COLLATERAL LOAD = 3 PSF
5. REACTIONS FURNISHED BY BUILDING MANUFACTURER
6. PRESUMPTIVE BEARING CAPACITY OF SOIL = 2000 PSF
7. GROUND SNOW LOAD = 10 PSF
8. ROOF SNOW LOAD (FLAT) = 10 PSF
9. REFER TO BLDG. MFGR. ANCHOR BOLT SETTING PLAN & BLDG. MFGR. LETTER OF CERTIFICATION.

1 / A-2 Foundation Plan
3/64" = 1'-0"

PROJECT INFORMATION:

Location: Chatham County, North Carolina
Construction Type: Type IV, unprotected, unsprinklered
Building Height: See metal building drawings
Gross Area: 115,000 square feet

General: This project is an open-air composting facility. Fully enclosed (heated & cooled) space is limited to the office and maintenance area of approximately 1,620 square feet.

*Project:*
McGill Environmental Systems
Chatham County, NC

*Contractor:*

Foundation Plan

| date | revision |
|---|---|
| | |
| | |
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| | |
| | |

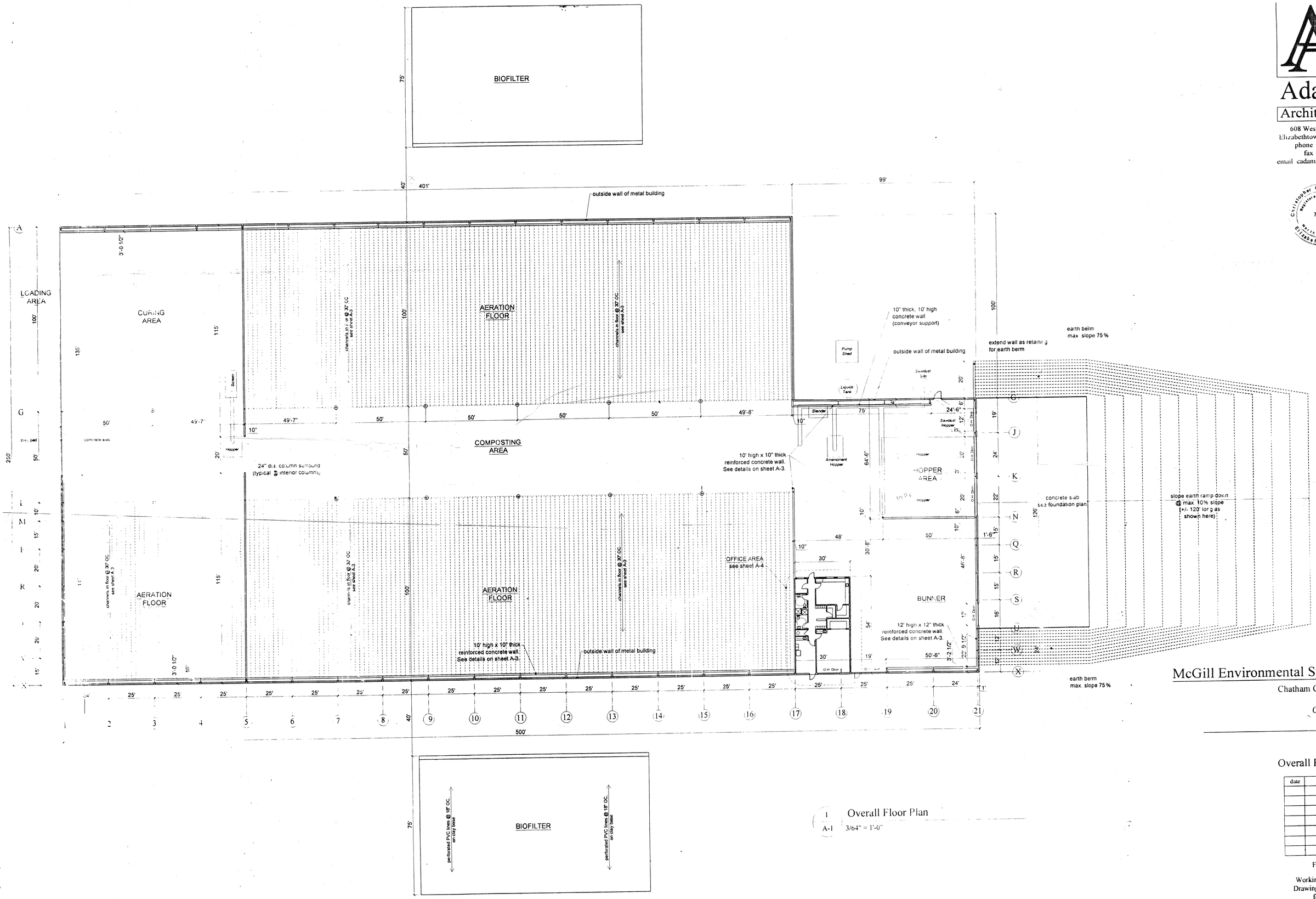
February 26, 2001

Working Drawings for Construction

sheet A-2

Adams
Architecture
608 West Broad Street
Elizabethtown, NC 28337
phone 910.862.3131
fax 910.862.3636
email cadams@intrstar.net

Christopher Gareth Adams
Registered Architect
7462
North Carolina
Elizabethtown, NC




1 Overall Floor Plan
A-1 3/64" = 1'-0"

*Project:*
McGill Environmental Systems
Chatham County, NC

*Contractor:*

Overall Floor Plan

| date | revision |
|---|---|
| | |
| | |
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| | |
| | |
| | |
| | |

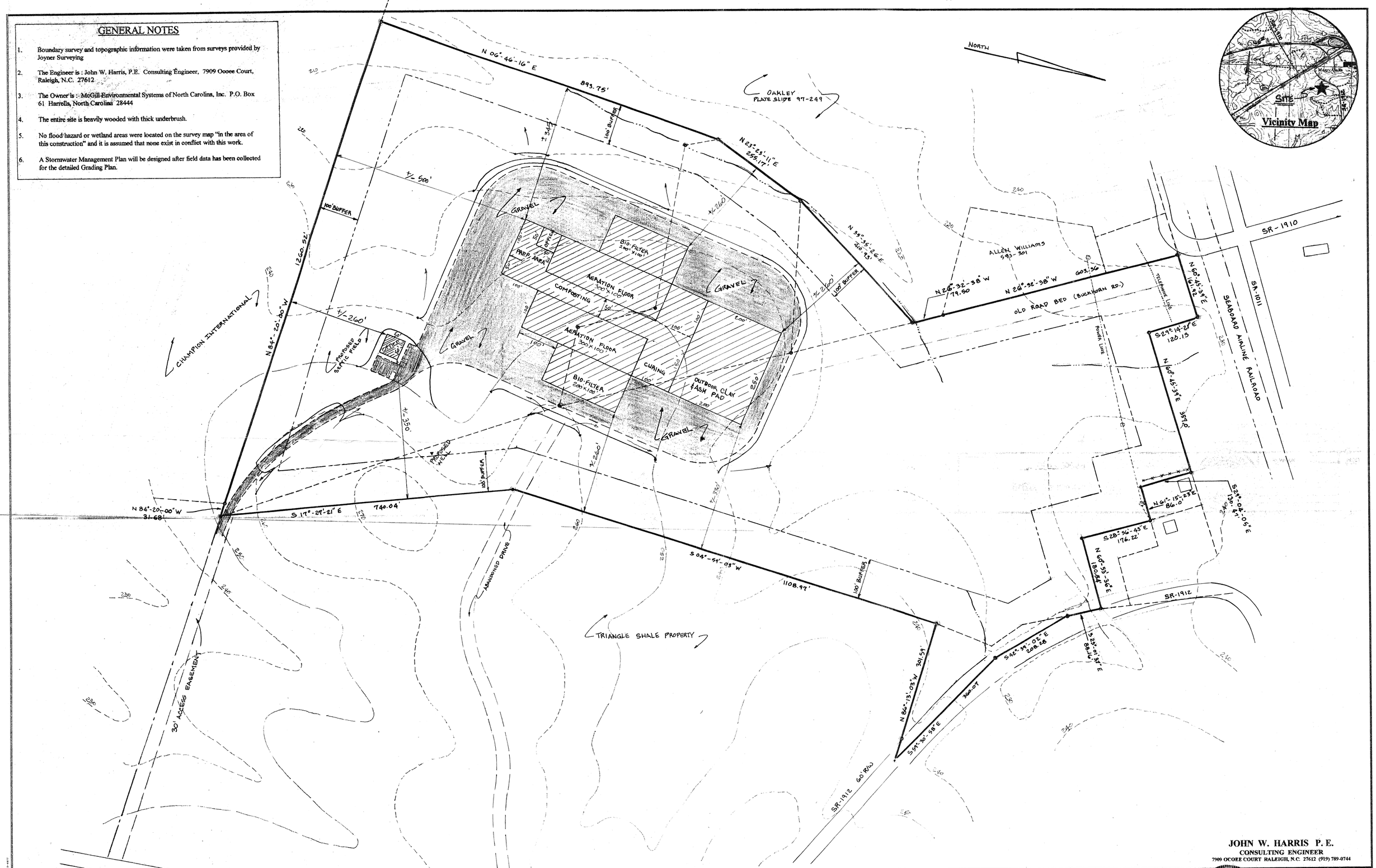
February 26, 2001

Working Drawings for Construction

sheet
A-1

## GENERAL NOTES

1. Boundary survey and topographic information were taken from surveys provided by Joyner Surveying
2. The Engineer is : John W. Harris, P.E. Consulting Engineer, 7909 Ocoee Court, Raleigh, N.C. 27612
3. The Owner is : McGill Environmental Systems of North Carolina, Inc. P.O. Box 61 Harrells, North Carolina 28444
4. The entire site is heavily wooded with thick underbrush.
5. No flood hazard or wetland areas were located on the survey map "in the area of this construction" and it is assumed that none exist in conflict with this work.
6. A Stormwater Management Plan will be designed after field data has been collected for the detailed Grading Plan.





**JOHN W. HARRIS P. E.**
CONSULTING ENGINEER
7909 OCOEE COURT RALEIGH, N.C. 27612 (919) 789-0744


J.W. HARRIS & ASSOCIATES
CONSULTING ENGINEER

SCALE: 1" = 100'
DATE: JAN. '01
DRAWN BY: JWH

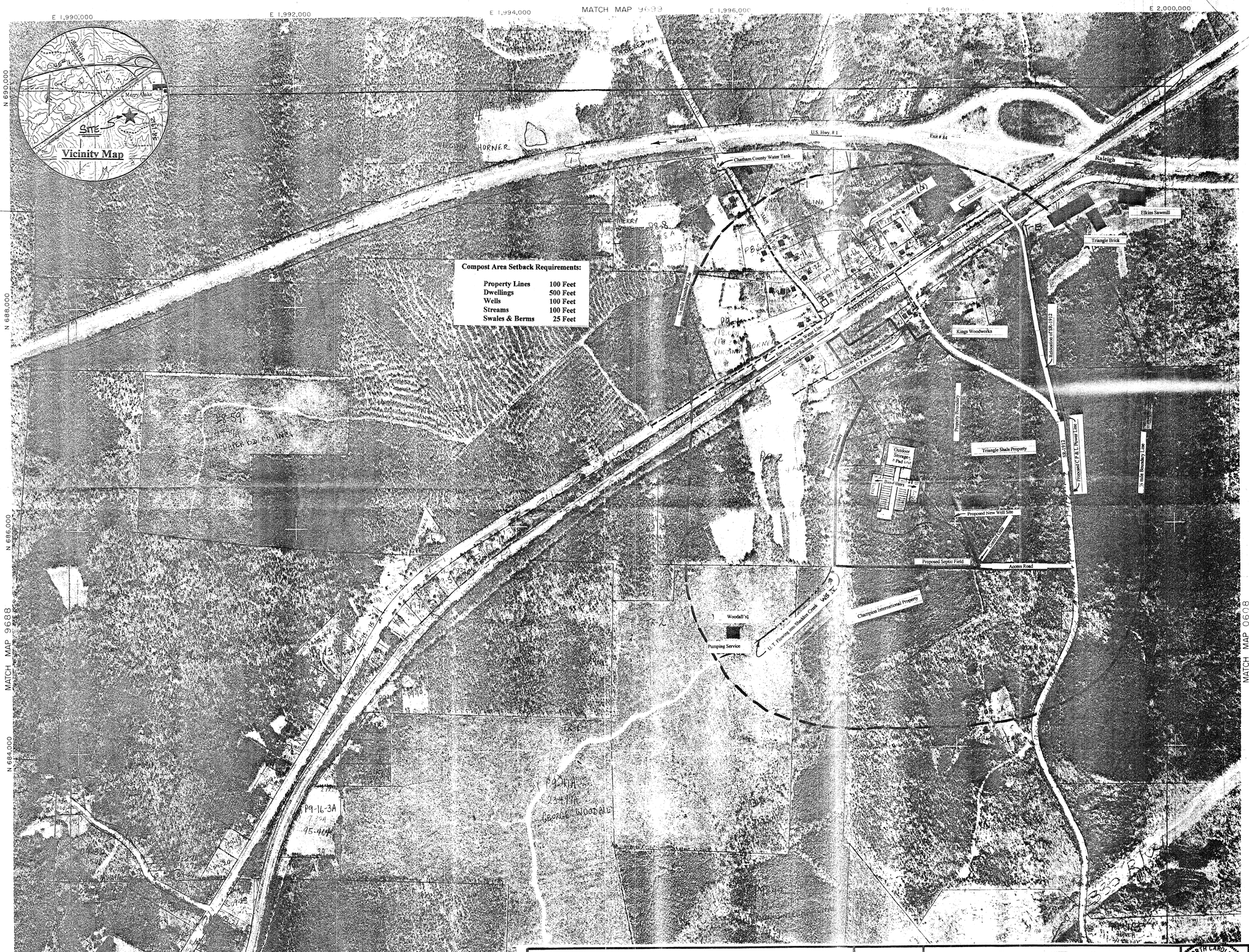
**Site Plan**
**McGill Environmental, Inc.**

NORTH CAROLINA PROFESSIONAL SEAL 10742 ENGINEER JOHN W. HARRIS

| REVISION | SHEET |
|---|---|
| | |

# ORTHOPHOTO MAP SECTION OF CHATHAM COUNTY, NORTH CAROLINA

Scale : 1" = 400'




**Compost Area Setback Requirements:**

| | |
|---|---|
| Property Lines | 100 Feet |
| Dwellings | 500 Feet |
| Wells | 100 Feet |
| Streams | 100 Feet |
| Swales & Berms | 25 Feet |


JOHN W. HARRIS P. E.
CONSULTING ENGINEER
7989 OCOEE COURT RALEIGH, N.C. 27612 (919) 789-0744


J.W. HARRIS & ASSOCIATES
CONSULTING ENGINEER

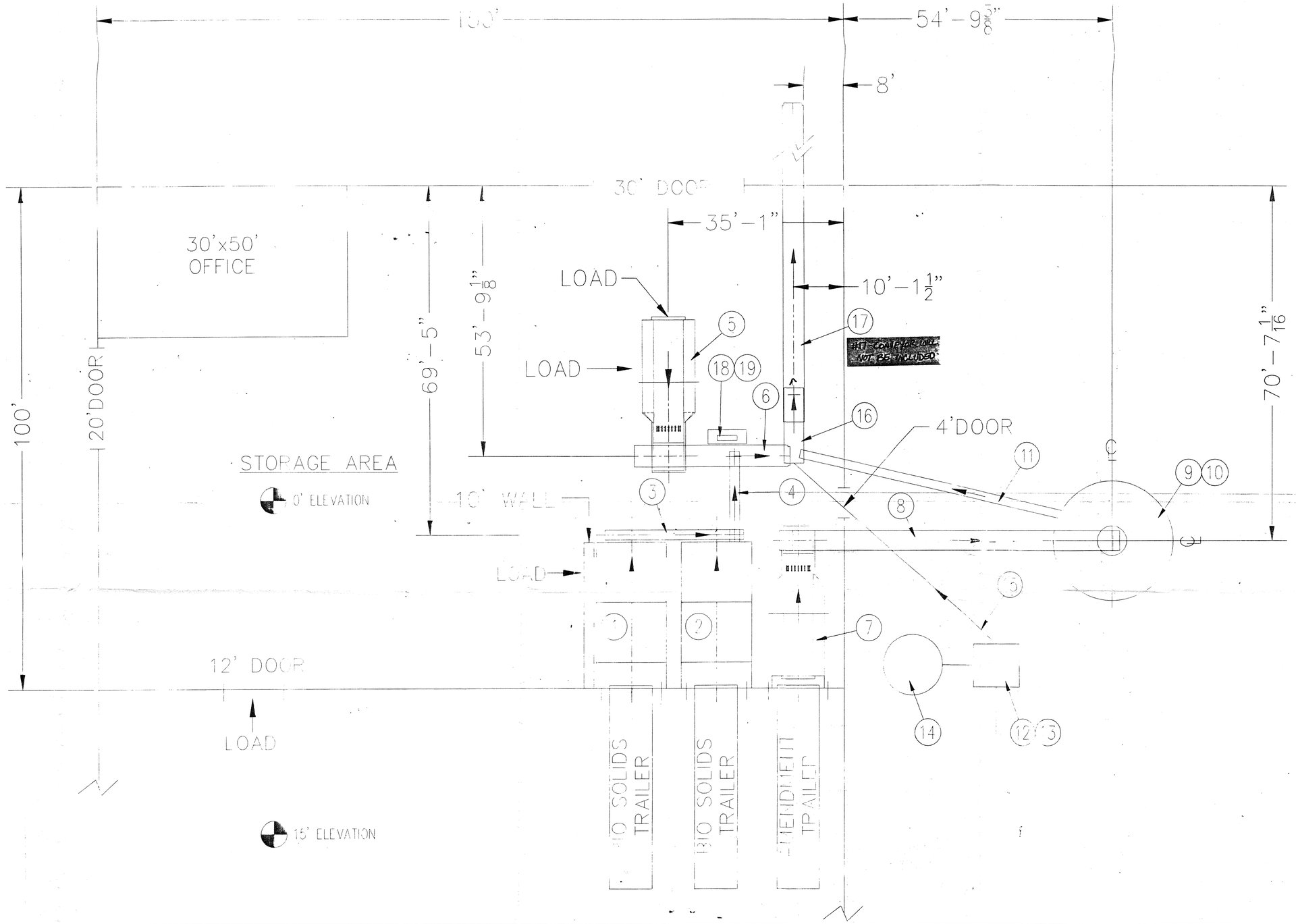
SCALE: 1" = 400'
DATE: JAN. '01
DRAWN BY: JWH

Quarter-Mile Location Map
**McGill Environmental, Inc.**
CHATHAM COUNTY, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 10742 ENGINEER JOHN W. HARRIS

| REVISION | SHEET |
|---|---|
| | |

19-06




| REV. NO | DATE | DESCRIPTION | REV. BY | CHK |
|---|---|---|---|---|

SOUTHTECH INDUSTRIES, INC.
P.O. BOX 72[illegible] / HWY 123 SOUTH
ARITON, AL 36311
PHONE: 334 702-2391 FAX [illegible]

STI INC

PROJECT TITLE:
McGill Environmental Systems, Inc.
Compost Facility

DRAWING TITLE
RAW MATERIAL PROCESSING PLANT

SHEET 1

| CONTRACT NO / SUB-DIRECTORY | DIRECTORY | | | |
|---|---|---|---|---|
| DRAWN MH | DATE 01/10/01 | SCALE 3/32" = 1'-0" | CHECKED | DATE |

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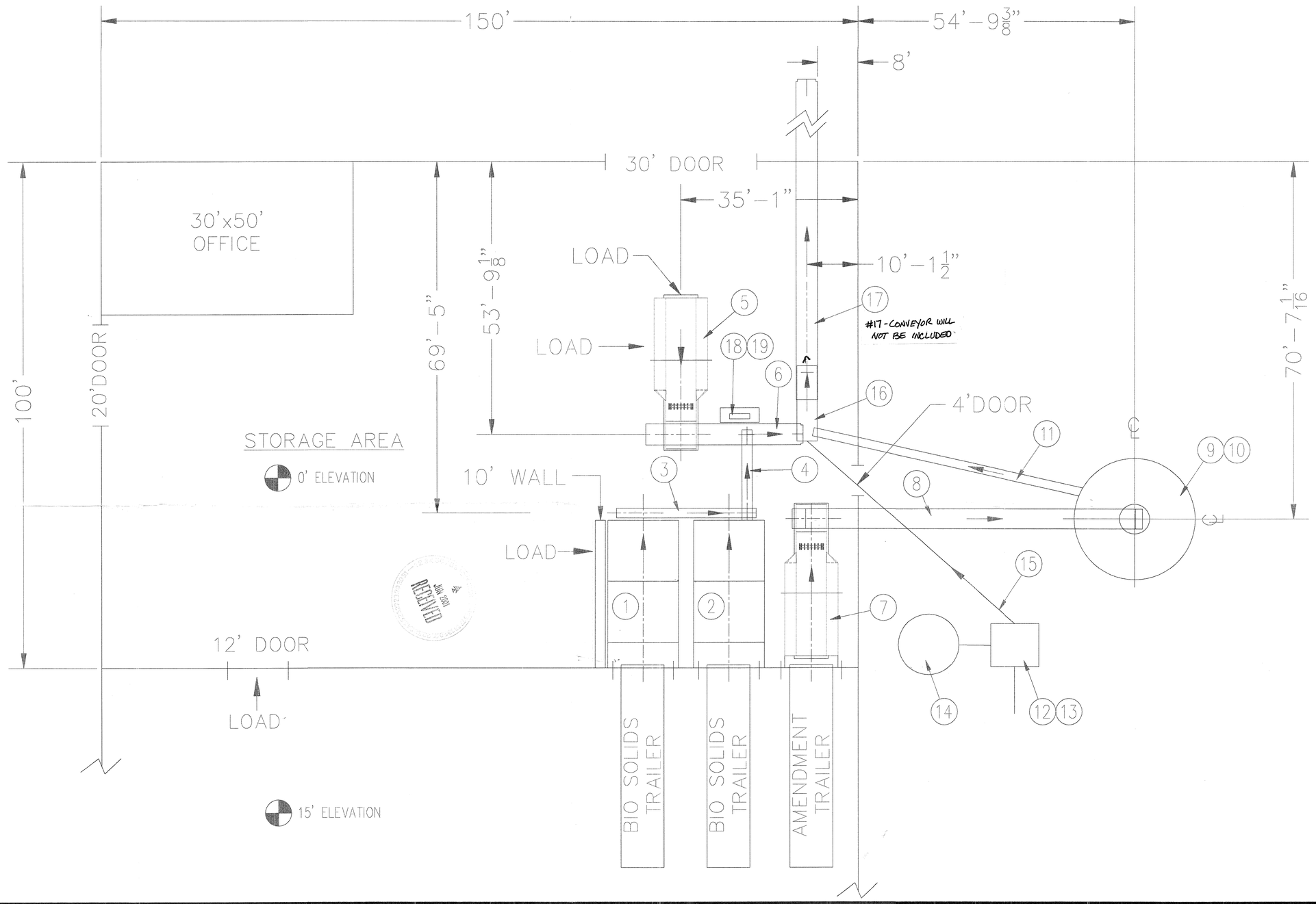
DWG. NO.

REV. E

19-06




| REV. NO | DATE | DESCRIPTION | REV. BY | CHK |
|---|---|---|---|---|

STI INC
SOUTHTECH INDUSTRIES, INC.
P.O. BOX 720 / HWY 123 SOUTH
ARITON, AL 36311
PHONE: 334-762-2391 FAX: -2948

JOB TITLE:
McGill Environmental System, Inc.
Compost Facility

DRAWING TITLE
RAW MATERIAL PROCESSING PLANT

SHEET 1

CONTRACT NO./ SUB-DIRECTORY

DIRECTORY

| DRAWN | DATE | SCALE | CHECKED | ENGR |
|---|---|---|---|---|
| MH | 01/10/01 | 3/32" = 1'-0" | | |

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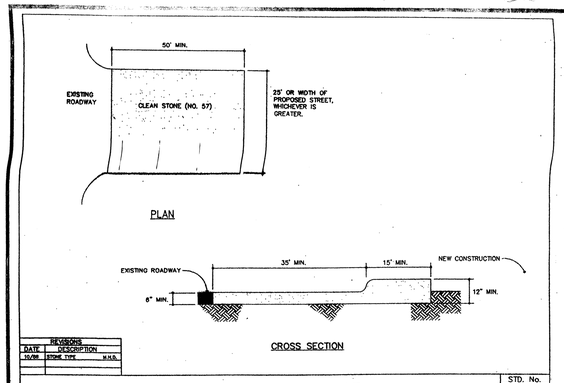
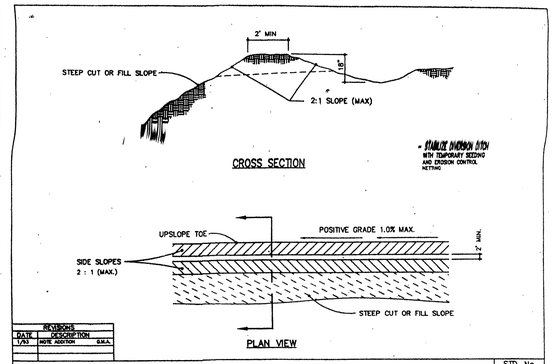
CAD DWG. NO.

REVISION B

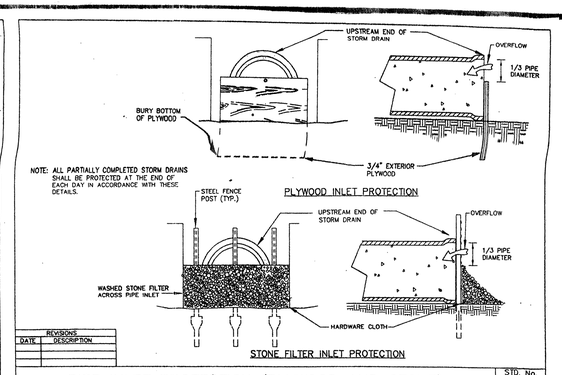
19.01



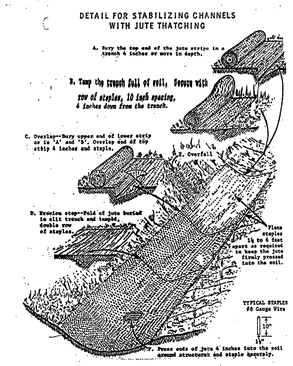

CONSTRUCTION ENTRANCE — STD. No. 4.07




DIVERSION DITCH — STD. No. 4.09




PIPE INLET PROTECTION (PLYWOOD AND STONE) — STD. No. 4.12




## SEEDING SCHEDULE

### Shoulders, Side Ditches, & Slopes (Max. 3 : 1)

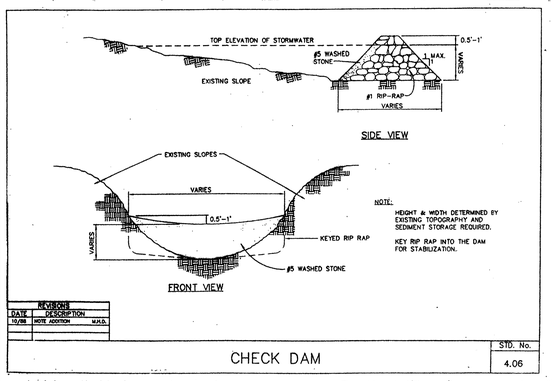
| DATE | TYPE | PLANTING RATE |
|---|---|---|
| *Aug 15 – Nov. 1* | *Tall Fescue* | *300 lbs./acre* |
| Nov. 1-Mar. 1 | Tall Fescue | 300 lbs./acre |
| | & Abruzzi Rye | 25 lbs./acre |
| Mar. 1 – April 15 | Tall Fescue | 300 lbs./acre |
| April 15 – June 30 | Hulled Common Bermudagrass | 25 lbs./acre |
| July 1 – Aug. 15 | Tall Fescue and | 120 lbs./acre |
| | Browntop Millet*** | 35 lbs/acre |
| | or Sorghum-Sudan Hybrids*** | 30 lbs/acre |

### Slopes (3 : 1 to 2 : 1)

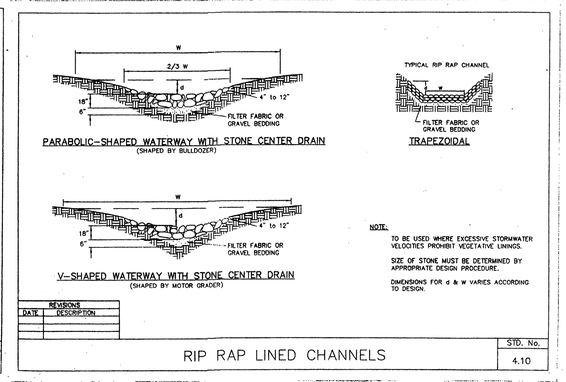
| | | |
|---|---|---|
| Mar. 1 – June 1 | Sericea Lespedeza (scarified) | 50 lbs/acre |
| | & | |
| (Mar. 1 – April 15) | Add Tall Fescue | 120 lbs/acre |
| (Mar. 1 – June 30) | or Add Weeping Lovegrass | 10 lbs/acre |
| (Mar. 1 – June 30) | or Add Hulled Common Bermudagrass | 25 lbs/acre |
| June 1 – Sept. 1 | ***Tall Fescue and | 120 lbs/acre |
| | Browntop Millet*** | 35 lbs/acre |
| | *** or Sorghum-Sudan Hybrids*** | 30 lbs/acre |
| Sept. 1 – Mar. 1 | Sericea Lespedeza (unhulled-unscarified) | 70 lbs/acre |
| | And Tall Fescue | 120 lbs./acre |
| Nov. 1 – Mar. 1 | Add Abruzzi Rye | 25 lbs./acre |

**Consult Conservation Engineer or soil conservation service for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those, which do well under local conditions. Other seeding rate combinations are possible.**

***Temporary - Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow over 12" in height before mowing, Otherwise, Fescue may become shaded out.**




CHECK DAM — STD. No. 4.06




RIP RAP LINED CHANNELS — STD. No. 4.10

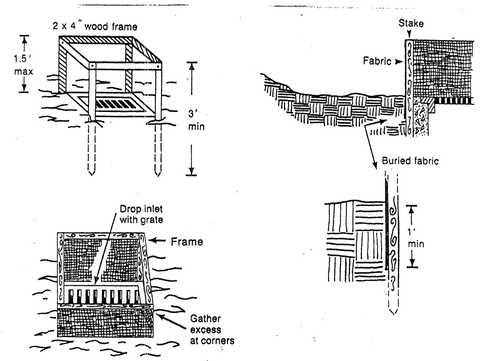



Figure 6.51a Installation of fabric and supporting frame for inlet protection.

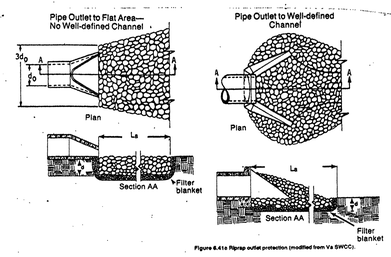
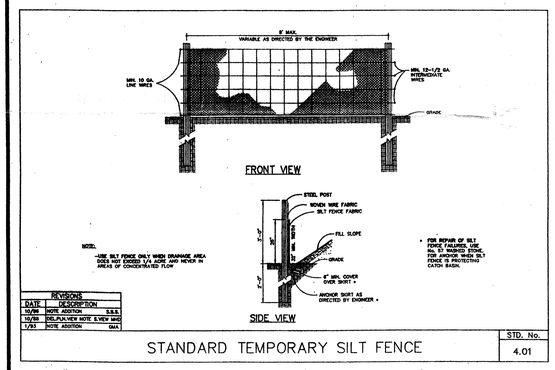
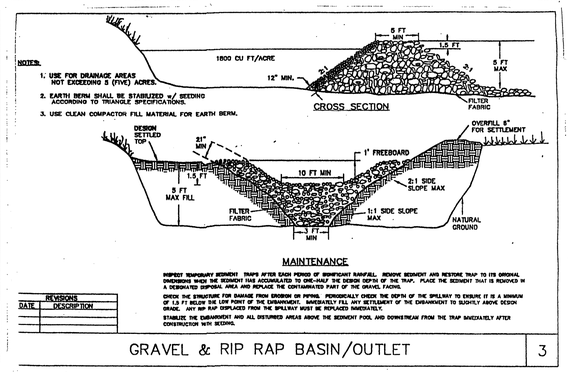



Figure 6.41a Riprap outlet protection (modified from Va SWCC).

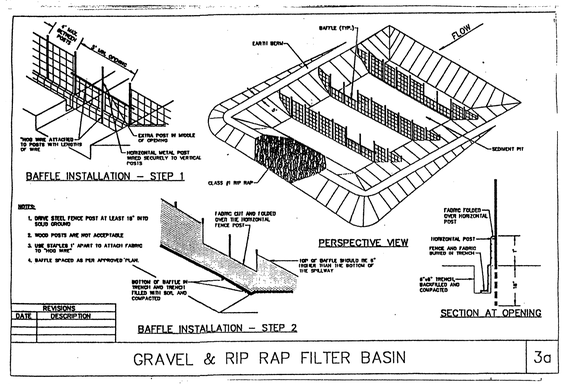
OUTLET STONE PLACEMENT DETAIL



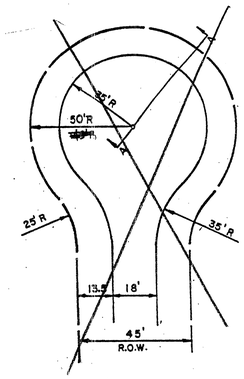

STANDARD TEMPORARY SILT FENCE — STD. No. 4.01




GRAVEL & RIP RAP BASIN/OUTLET — 3




GRAVEL & RIP RAP FILTER BASIN — 3a



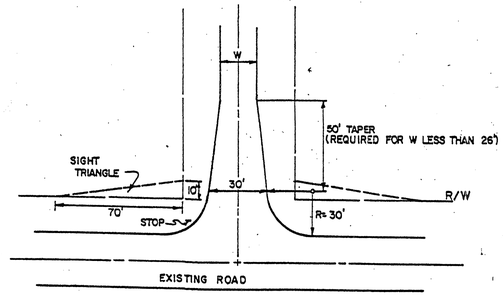
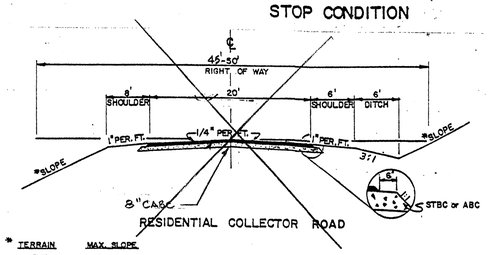
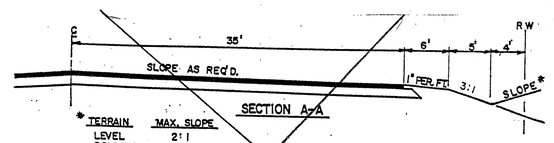




FIGURE 4

RECOMMENDED ROAD CONNECTION
NEW RESIDENTIAL ROAD OR RESIDENTIAL COLLECTOR ROAD AND EXISTING STATE MAINTAINED ROAD

STOP CONDITION




DRIVEWAY TURNOUT GRADES

FIGURE 7

SYMMETRICAL CUL-DE-SAC NO CURB & GUTTER

## WAKE COUNTY CONSTRUCTION SEQUENCE

1. Obtain a land-disturbing permit. Schedule a pre-construction conference with the Environmental Engineer. (856-6198)

2. Install gravel construction pad, temporary diversions, silt fence, sediment basins or other measures as shown on the approved plan. Clean only as necessary to install these devices. Seed temporary diversions, berms and basins immediately after construction.

3. Call (856-6198) for an on-site inspection by the Environmental Engineer to obtain a certificate of compliance.

4. Begin clearing and grubbing. Maintain devices as needed. Rough grade site.

5. Install storm sewers, if shown, and protect inlets with block and gravel inlet controls, sediment traps or other approved measures as shown on the plan. Begin construction, buildings etc.

6. Stabilize site as areas are brought up to finished grade, with vegetation, paving, ditch linings, etc. Seed and mulch denuded areas with in thirty (30) days of completion of any phase of construction.

7. When construction is complete, and all areas are stabilized completely, call (856-6198) for an inspection by the Environmental Engineer.

8. If site is approved, removed temporary diversions, silt fence, sediment basins etc. and seed out or stabilize any resulting bare areas. All remaining permanent erosion control devices, such as velocity dissipaters should now be installed.

9. When vegetation has become established, call for a final site inspection by the Environmental Engineer. (856-6198). Obtain a Certificate of Completion.


J.W. HARRIS & ASSOCIATES
CONSULTING ENGINEER
7909 OCOEE COURT RALEIGH, N.C. (919) 789-0744
27612


SCALE: NTS
DATE:
DRAWN BY: JWH

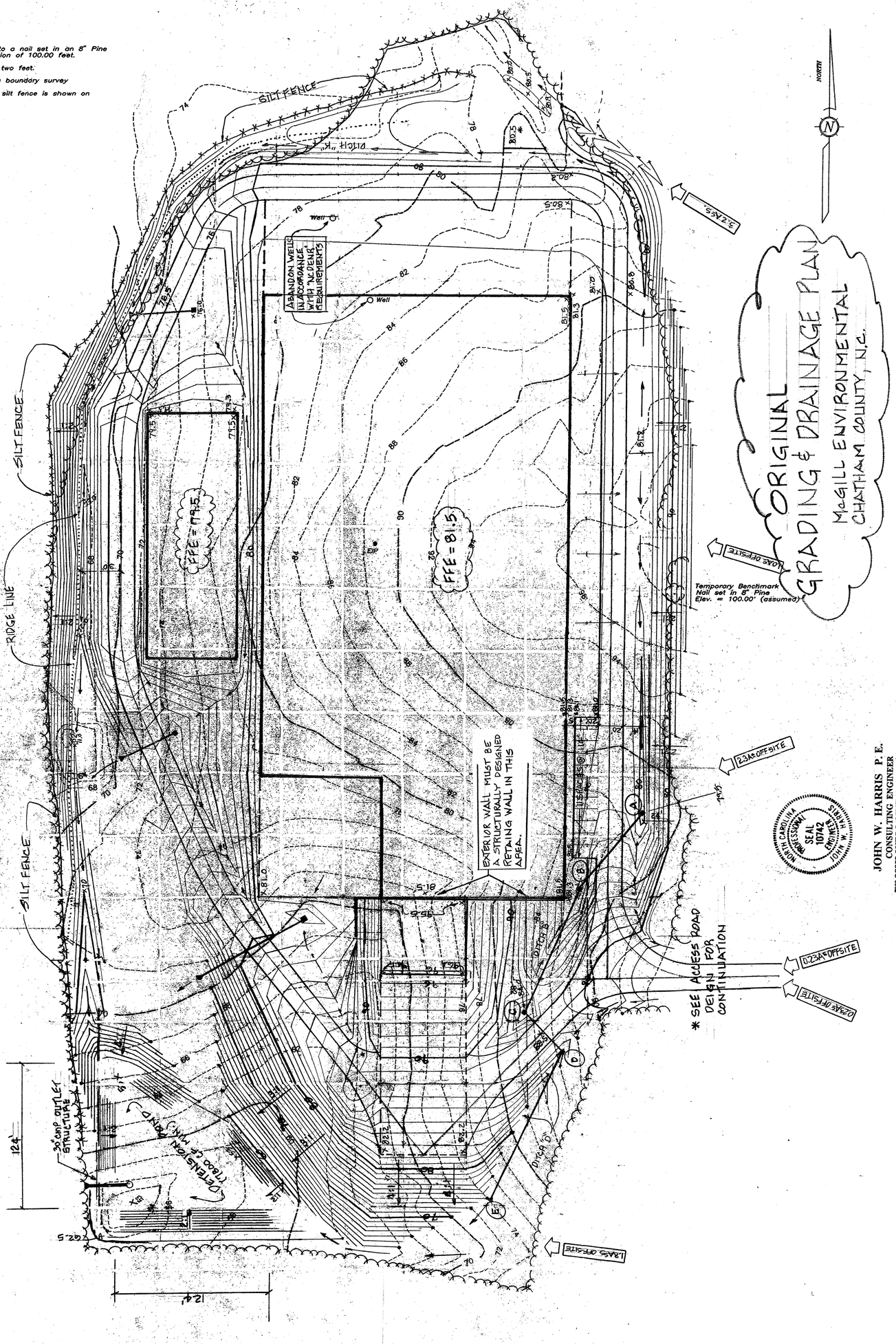
**STANDARD DETAILS FOR ROADWAY & EROSION CONTROL**

NORTH CAROLINA PROFESSIONAL SEAL 10742 ENGINEER JOHN W. HARRIS

| REVISION | SHEET |
|---|---|
| 5-29-1 JWH | 7 |

## NOTES

1. Elevations shown are relative to a nail set in an 8" Pine which has an assumed elevation of 100.00 feet.
2. The contour interval shown is two feet.
3. This plat does not represent a boundary survey
4. Only a portion of the existing silt fence is shown on this plat.




TOPOGRAPHIC SURVEY
FOR

# STEVE COCKMAN

SCALE: 1" = 40'  DATE: JUNE 22, 2001
REVISED: SEPTEMBER 4, 2001

40 20 0 40 80 120

CAPE FEAR TOWNSHIP  CHATHAM COUNTY, N.C.

**VAN R. FINCH - LAND SURVEYS, P.A.**
**109 Hillsboro St. Pittsboro, N.C. 27312**

NORTH CAROLINA PROFESSIONAL SEAL L-2507 LAND SURVEYOR VAN R. FINCH

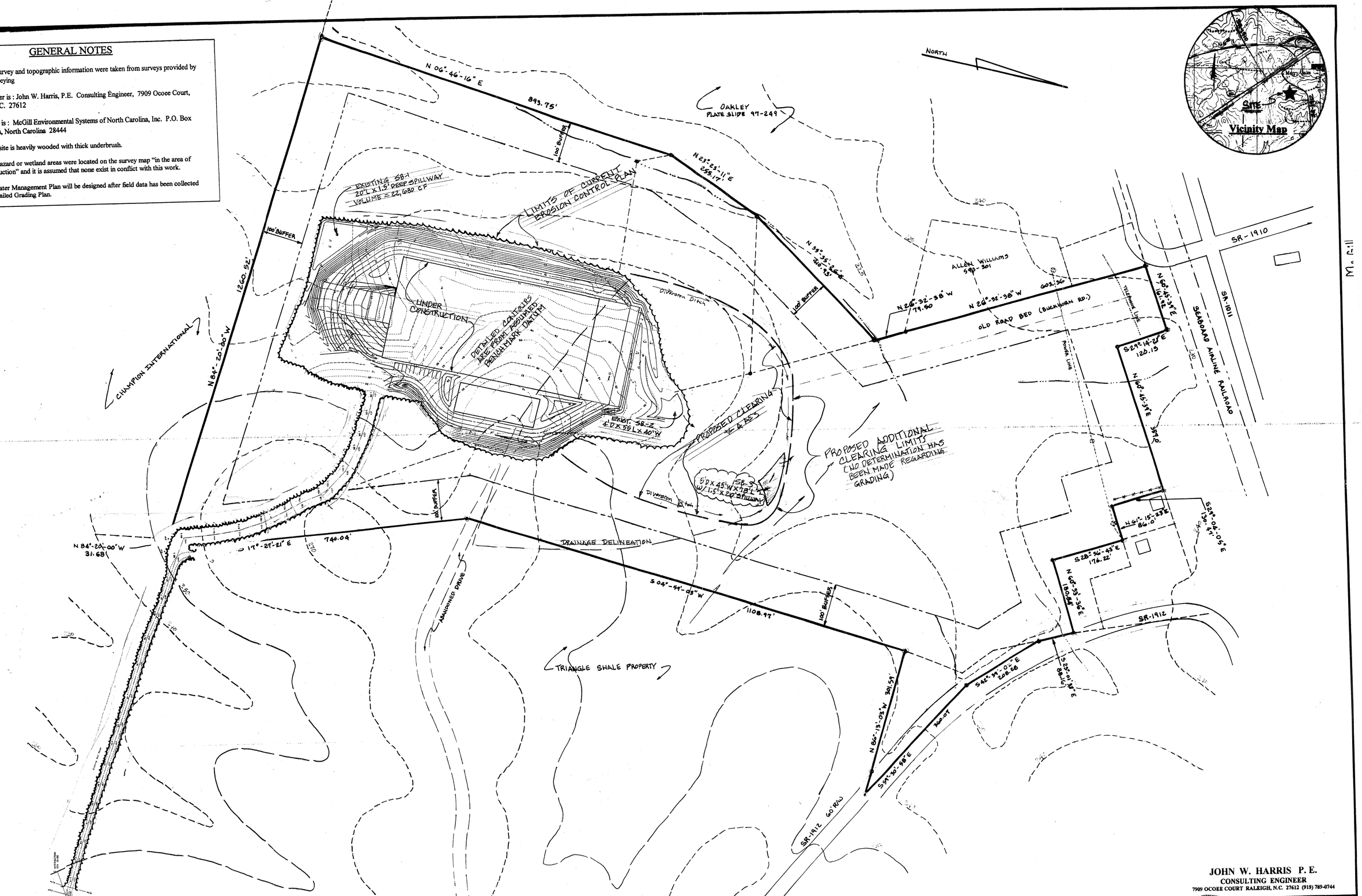
9-4-01

## MAP LEGEND

- EIP — EXISTING IRON PIPE
- IPS — IRON PIPE SET
- CM — CONCRETE MONUMENT
- RRS — RAILROAD SPIKE
- EXN — EXISTING NAIL
- PP — POWER POLE
- CMP — COMPUTED POINT

## GENERAL NOTES

1. Boundary survey and topographic information were taken from surveys provided by Joyner Surveying
2. The Engineer is : John W. Harris, P.E. Consulting Engineer, 7909 Ocoee Court, Raleigh, N.C. 27612
3. The Owner is : McGill Environmental Systems of North Carolina, Inc. P.O. Box 61 Harrells, North Carolina 28444
4. The entire site is heavily wooded with thick underbrush.
5. No flood hazard or wetland areas were located on the survey map "in the area of this construction" and it is assumed that none exist in conflict with this work.
6. A Stormwater Management Plan will be designed after field data has been collected for the detailed Grading Plan.





JOHN W. HARRIS P. E.
CONSULTING ENGINEER
7909 OCOEE COURT RALEIGH, N.C. 27612 (919) 789-0744


J.W. HARRIS & ASSOCIATES
CONSULTING ENGINEER

SCALE: 1" = 100'
DATE: JAN. '01
DRAWN BY: JWH

**Site Plan**

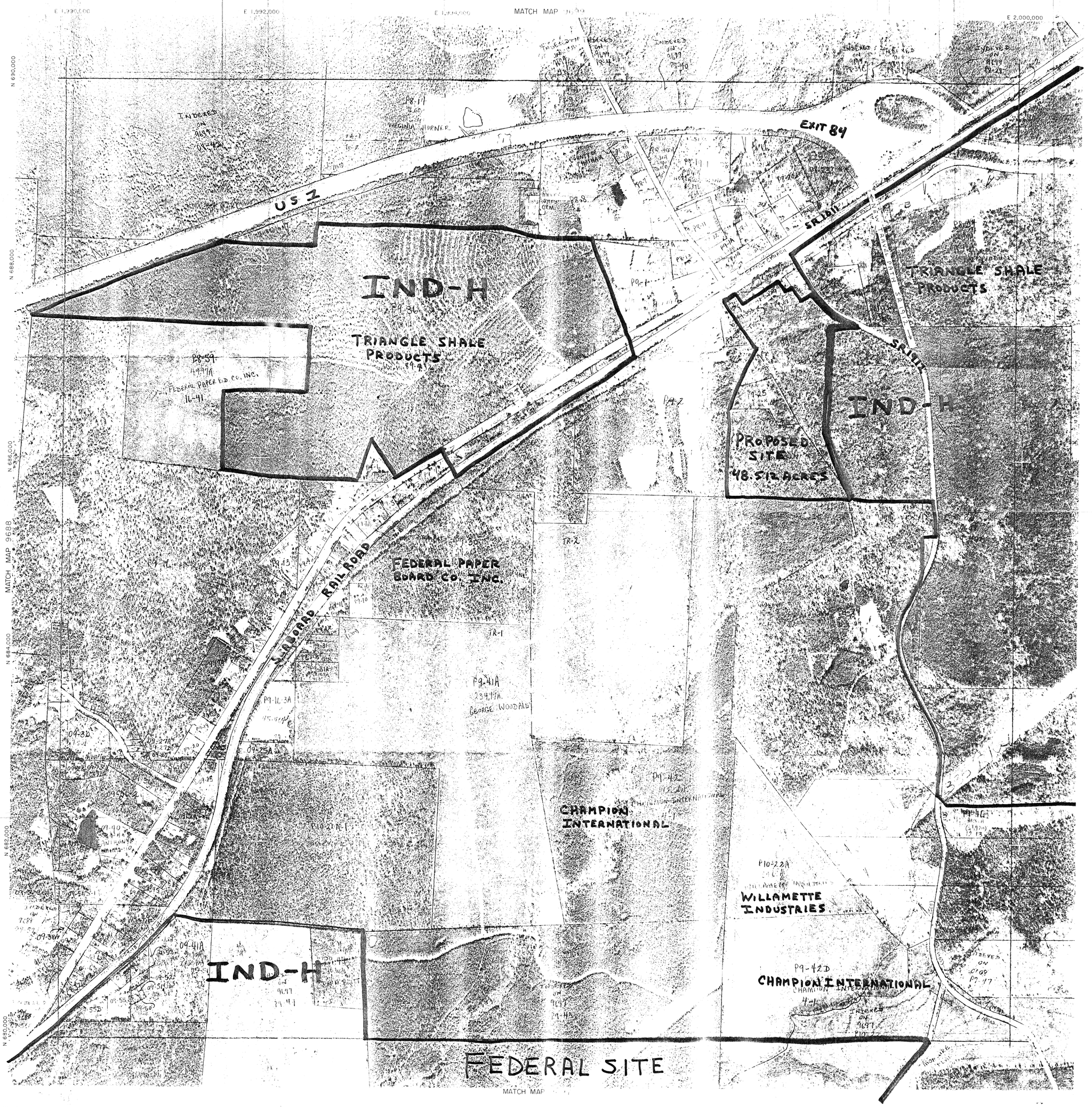
McGill Environmental, Inc.

19-06

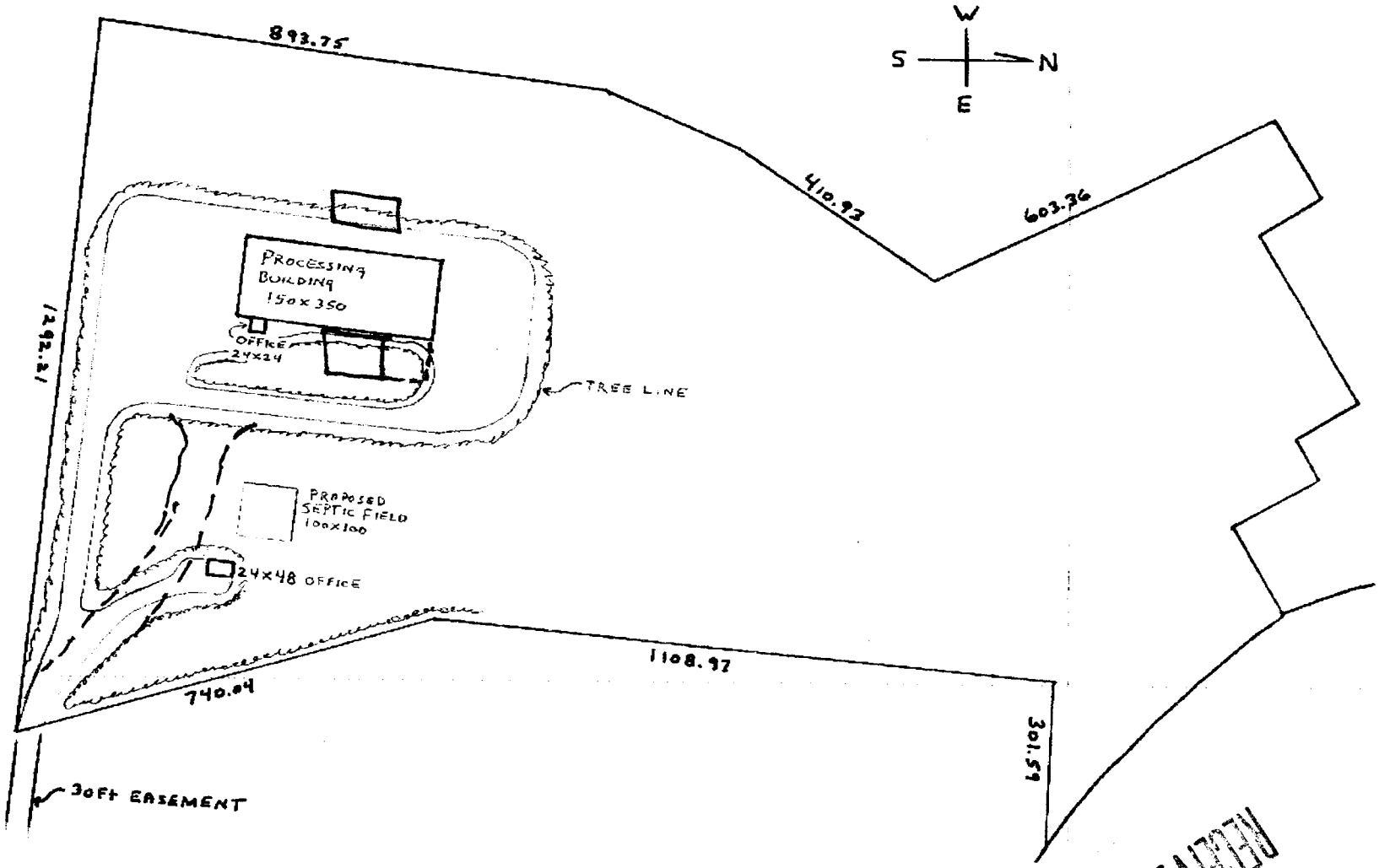
NORTH CAROLINA PROFESSIONAL SEAL 10742 ENGINEER JOHN W. HARRIS

| REVISION | SHEET |
|---|---|
| 4-22-2 JWH | |

# ORTHOPHOTO MAP SECTION OF CHATHAM COUNTY, NORTH CAROLINA




19-06




PRELIMINARY SITE PLAN

RECEIVED NOV 2000

IA-06