July 12, 2013

Donna J. Wilson
Environmental Engineer
Solid Waste Section/Division of Waste Management/NC DENR

RE: McGill Permit Modification SWC 19-06

Donna,

In advance of our meeting I am forwarding a draft of our proposed permit modification. As you will see from the text there are a number of proposed changes and upgrades. We have several motivations for these changes.

First and foremost we are always seeking opportunities to improve the facility. We feel this is essential if we are to survive and thrive in the competitive world we operate in. These changes amount to a very significant investment but we believe they will make us more efficient, maintain our regulatory record and insure top quality products for the higher end markets we depend more and more on.
Our screening equipment is aging. This has resulted in gradual increases in maintenance costs and reduced efficiency.
The changes will also make us more independent of the ever changing marketplace for good amendments.
Finally the changes will improve our energy footprint. This will be achieved by replacing the portable diesel screen with a stationary electric one, higher throughput of newer technologies and more streamlined materials handling.

Specifically the modifications are as follows.

- Replace the existing portable Doppstadt screen with a stationary Liwell deck screen with stacking conveyer.
- Cover a 90’ by 100’ area opposite the processing bays in preparation for future location for inside screen.
- Install new inside screen in newly covered area. This will replace the existing trommel screen.
- Install fans with variable frequency drives in bays 2, 4, 6, 8, 10, 12, and 14. The purpose of this will be to further cure and dry compost and amendments. Dryer materials will greatly benefit the blending process and indeed the mix.
- Removal of the remainder of the old building. This is an open sided metal structure covering the curing bays 21, 23 and 25 and over the existing trommel

screening plant.

- Remove the old trommel screen, construct a new building over the curing bays 21, 23 and 25. This would take the same general shape as the portion of the old building covering these bays currently. It would however have a resolite roof and corrosion protection.

Impacts of the upgrades

1) The existing old building is deteriorated and will eventually become structurally unsound requiring it to be removed. We do not want to wait for this to happen.

2) Footprint reduction. Compost coming from the screen will be pulled back inside the current screening area. This will result in a further tightening of the foot print of about 100' behind the building and a total footprint saving of 100'by 150'. (Attached drawing)

3) Stormwater management. In addition to the footprint reduction, compost from the screen will be contained by existing concrete walls on two sides in addition to concrete floor.

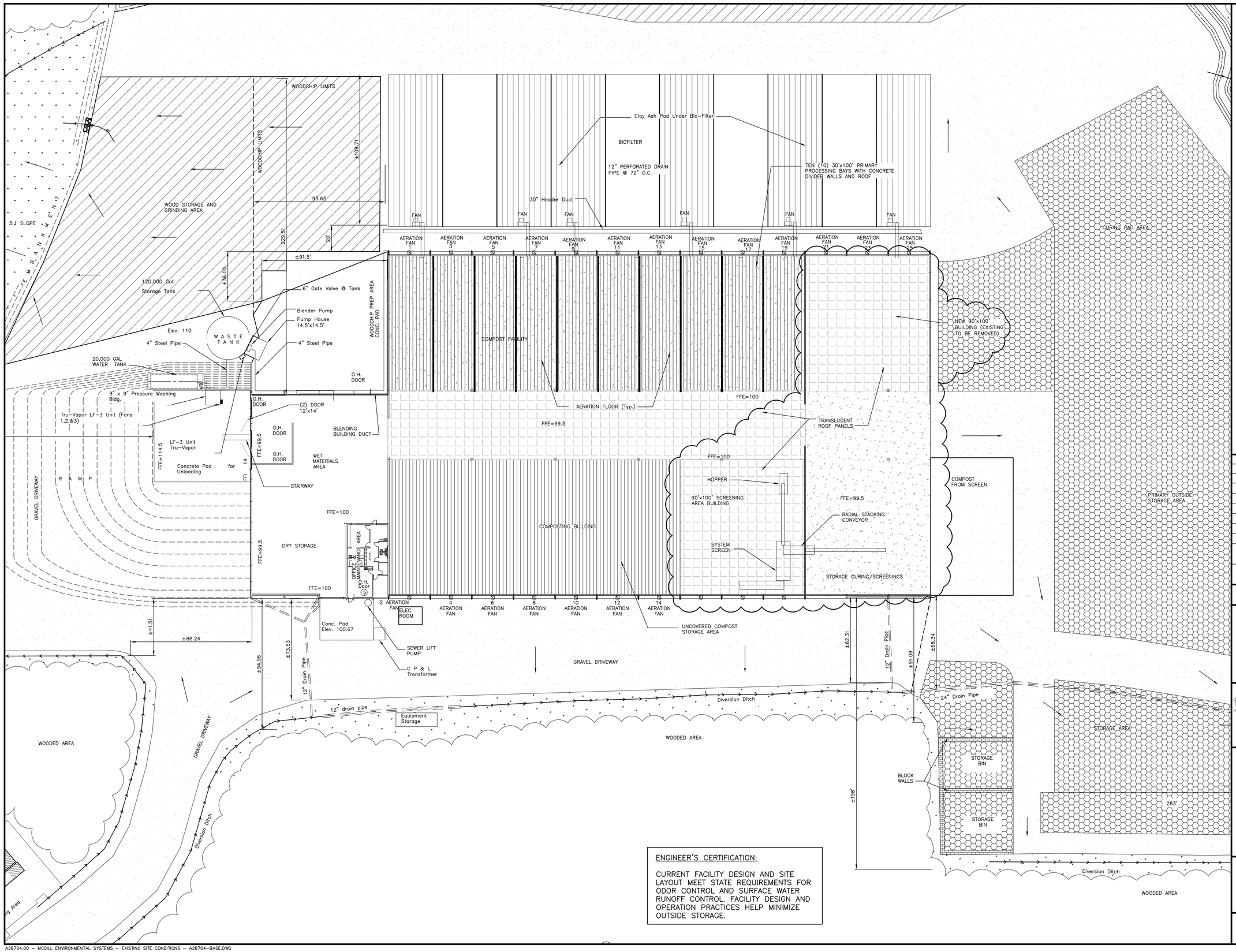
4) There should be no negative potential for odor generation. We would however expect some benefits from having the ability to keep the material stored on bays 2 to 14 aerated.

The desired timeline is to commence later this year and have everything completed by the end of 2014.

Noel and I look forward to discussing all of this in further detail with you on Wednesday the 17th.

Best regards,

Steve Cockman
McGill Environmental Systems



ENGINEER'S CERTIFICATION:

CURRENT FACILITY DESIGN AND SITE LAYOUT MEET STATE REQUIREMENTS FOR ODOR CONTROL AND SURFACE WATER RUNOFF CONTROL. FACILITY DESIGN AND OPERATION PRACTICES HELP MINIMIZE OUTSIDE STORAGE.

NOTES

1. SEE C-101 FOR ALL GENERAL NOTES.

LEGEND

- EXISTING TREE LINE
- DIVERSION DITCH
- (FLOW) SLOPE DIRECTION
- ALL AREA CLASSIFIED AS IMPERVIOUS, INCLUDING STRUCTURES, BUILDINGS, ROADWAYS, PARKING, AND PRODUCT STORAGE. SEE CHART BELOW FOR TOTAL
- RIP-RAP EROSION CONTROL PROTECTION
- STORAGE AREA
- AREA SEPARATION LIMITS LINE
- VEGETATIVE GRASS BUFFER AREA
- GRINDING AREA
- DRAINAGE SWALE (FLOW)
- ADJACENT PROPERTY

REVISIONS

NO.	DATE	DESCRIPTION
1	3/30/06	REVISED PER NCDENR REVIEW
2	5/18/06	FINAL REVIEW
3	5/31/06	FINAL SUBMITTAL
4	2/16/09	REVISED PER CLIENT
5	7/12/10	REVISED PER CLIENT
6	12/7/12	REVISED PER SWS
7	7/2/13	REVISED PER CLIENT

PROJECT MANAGER:	PROJECT ENGINEER:
GSM	ZLF
DRAWN BY:	CHECKED BY:
MAE	GSM

DATE: DECEMBER 08, 2005

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MCGILL ENVIRONMENTAL SYSTEMS

CHATHAM COUNTY FACILITY

CHATHAM COUNTY, NC

COMPOSTING FACILITY PROPOSED MODIFICATIONS

PROJECT NUMBER	DRAWING NUMBER
A26704.00	C-104

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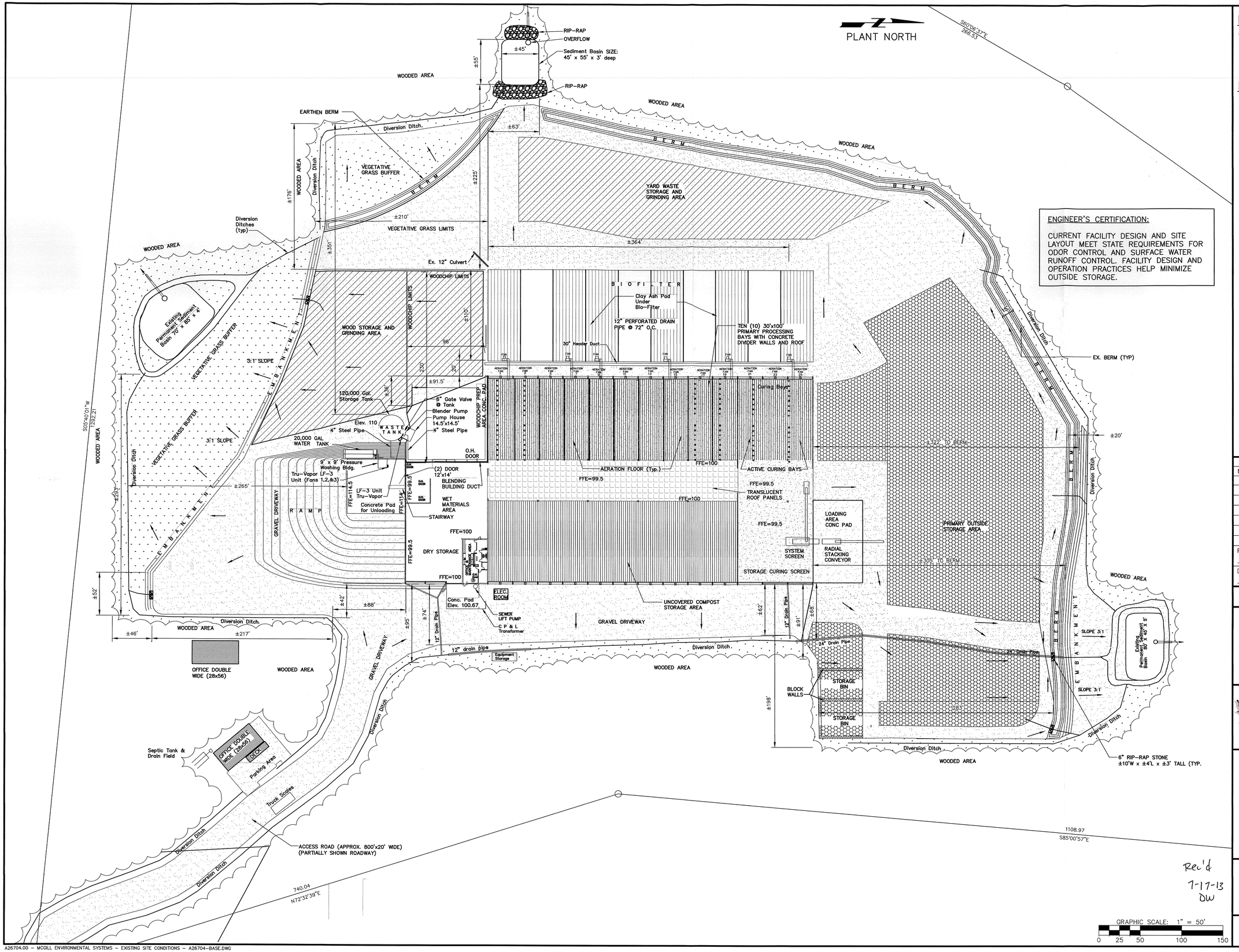
A26704.00 – MCGILL ENVIRONMENTAL SYSTEMS – EXISTING SITE CONDITIONS – A26704-BASE.DWG



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CURRENT FACILITY DESIGN AND SITE LAYOUT MEET STATE REQUIREMENTS FOR ODOR CONTROL AND SURFACE WATER RUNOFF CONTROL. FACILITY DESIGN AND OPERATION PRACTICES HELP MINIMIZE OUTSIDE STORAGE.

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MCGILL ENVIRONMENTAL SYSTEMS

CHATHAM COUNTY FACILITY
CHATHAM COUNTY, NC

COMPOSTING FACILITY CURRENT SITE PLAN

PROJECT NUMBER	DRAWING NUMBER
A26704.00	C-102

Rec'd 7-17-13 DW

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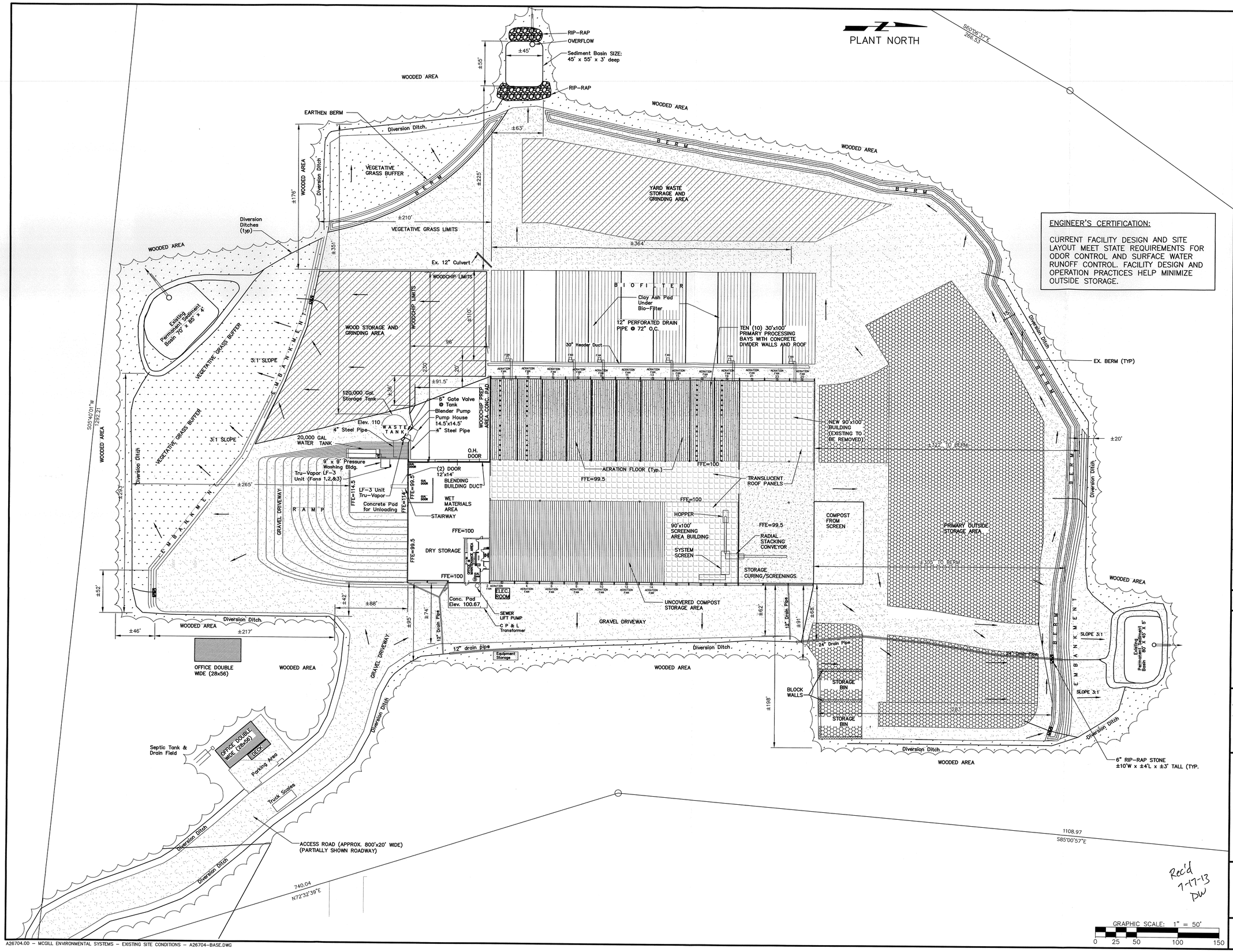

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