

FACILITY PLAN
WCA OF HIGH POINT CONSTRUCTION AND DEMOLITION LANDFILL,
PERMIT NO. 41-16
GUILFORD COUNTY, NORTH CAROLINA

Prepared for:



WCA of High Point
5830 Riverdale Drive
Jamestown, North Carolina 27282

Prepared by:



Golder Associates NC Inc.
4900 Koger Boulevard, Suite 140
Greensboro, North Carolina 27407

August 2008

Project No.: 063-6526

TABLE OF CONTENTS

SECTION	PAGE
1.0 INTRODUCTION.....	1
2.0 FACILITY PLAN DRAWINGS	1
2.1. Existing Conditions	1
2.2. Site Development Drawings	1
2.3. Landfill Construction Drawings	1
3.0 FACILITY REPORT.....	1
3.1 Waste Stream	1
3.2 Landfill Capacity	2

Tables

Table No. 1	Projected Annual Waste Disposal Rates
Table No. 2	Landfill Capacity by Phase
Table No. 3	Projected Cumulative Disposal Rates
Table No. 4	Soil Balance

Figures

Figure No. 1	Site Location Map
--------------	-------------------

Drawings

Drawing FP-1	Cover Sheet
Drawing FP-2	Existing Conditions
Drawing FP-3	Proposed Facility Base Grades
Drawing FP-4	Transitional Grades: Phase 2 Fill Plan/Phase 3 Base Grades
Drawing FP-5	Transitional Grades: Phase 3 Fill Plan/Phase 4 Base Grades
Drawing FP-6	Transitional Grades: Phase 4 Fill Plan/Phase 5 Base Grades
Drawing FP-7	Transitional Grades: Phase 5 Fill Plan/Phase 6 Base Grades
Drawing FP-8	Proposed Facility Final Grades

1.0 INTRODUCTION

This Facility Plan describes the comprehensive development of the Construction and Demolition (C&D) Landfill facility and includes a set of drawings and a report which present the long-term general design concepts related to construction, operation, and closure of the facility's C&D disposal units.

2.0 FACILITY PLAN DRAWINGS

2.1 Existing Conditions

Existing conditions at the project site are presented on the Existing Conditions Drawing (Drawing FP-2). Drawing FP-2 shows the proposed limits of waste disposal, and the environmental monitoring system. Current topography for the property is shown, as well as the required regulatory buffers (500-foot buffer from residences and wells, 200-foot buffer from the property line), and other physical site features.

2.2 Site Development Drawings

The proposed site development is presented on Drawings FP-3 through FP-8. In addition to the site features shown on the Existing Conditions Drawing (Drawing FP-2), these site development drawings depict the limits of the proposed C&D disposal units for Phases 1 through 6.

2.3 Landfill Construction Drawings

Landfill construction is proposed to occur in four phases. Phase 1 has an expected life of approximately 2.5 years, while the remaining phases have an operating life of approximately five years. Base and final grades for each phase are shown on Drawings FP-3 through FP-7. Base grades are designed to be a minimum of four feet above the seasonal high groundwater table and bedrock. Final grades shown were developed for maximum fill slope of 3 feet horizontal to 1 foot vertical (3H:1V) with ten (10) foot wide horizontal benches approximately every thirty (30) vertical feet along the slope. Drawing FP-7 shows the proposed final grades of the facility. Estimated groundwater and bedrock contours are shown on Drawings DH-3 and 6 (found in the Design Hydrogeologic Report and Groundwater Monitoring Plan for the WCA of High Point C&D Landfill, contained in Volume 2 of this submittal).

3.0 FACILITY REPORT

3.1 Waste Stream

The proposed landfill is to receive C&D waste from Guilford County and portions of Forsyth, Davidson and Randolph Counties. The landfill will accept only C&D waste which, as defined in Rule .0532(8), includes only those solid waste generated solely from the construction, remodeling, repair, or demolition operations on pavement, and buildings or structures. C&D waste does not include municipal and industrial wastes that may be generated by the on-going operations at buildings or structures.

Generally, wastewater treatment sludge shall not be accepted for disposal. However, wastewater treatment sludge may be accepted, with the approval of the Division, for use as a soil conditioner and incorporated into or applied onto the vegetative growth layer. The wastewater treatment sludge shall not be applied at rates greater than the agronomic application rates or to a depth greater than six inches. Prior to any placement of wastewater treatment sludge, WCA will contact the Division for prior approval. This request will specify the amount of sludge to be applied and where it is desired to apply sludge.

Disposal Rates: The average yearly and daily disposal rates are presented in Table 1. The maximum expected yearly disposal amount is 128,984 tons, disposed of in the year 2024. The minimum expected yearly disposal amount is 111,100 tons, disposed of in the year 2009. The average daily disposal rate is calculated to be 420 tons per day (TPD) assuming 285 operating days per year.

It is important to recognize that the rate of disposal may vary significantly for any given year as opportunities for beneficial use of the C&D materials are identified and implemented.

Area Served: The proposed facility is to receive C&D waste from Guilford County and portions of Forsyth, Davidson and Randolph Counties.

Equipment Requirements: Operation and maintenance of the site will be the responsibility of the landfill owner/operator. The minimum required operational equipment to support landfill operations at the anticipated incoming waste stream rates include:

- 1 - bulldozer
- 1 - water truck
- 1 - steel wheeled compactor
- 1 - tracked excavator
- 1 - tracked loader
- 1 - articulated dump truck

Other equipment will be purchased and/or rented as required for the facility operations.

3.2 Landfill Capacity

Landfill capacity, by phase, was calculated using airspace volumes generated from Autodesk Land Development Desktop (LDD) 2007 and the facility drawings. The data and assumptions used are consistent with the average daily disposal rate discussed in the preceding section, and are representative of the operational requirements and conditions anticipated for the facility.

The facility property totals approximately 154 acres in size, of which approximately 49.2 are proposed for C&D disposal permitting. The disposal capacity for each phase is shown in Table 2. The total anticipated disposal capacity is 3,084,113 cubic yards of gross airspace. The final cover system will consume approximately 121,813 cubic yards, and operational cover soil will consume approximately 59,246 cubic yards, resulting in a net airspace capacity of nearly 2,903,054 cubic yards for disposal of C&D material.

The soil resources, usage rates and balances are shown by phase in Table 4. Based on the conceptual design volumes, the facility will have a deficit of approximately 255,637 cubic yards of soil.

Final Cover System:

Final grading contours are shown on Drawing No. FP-8. These contours have been designed with post-settlement surface slopes of at least five percent on the top of the landfill. Areas that are at final grades (out board side slope areas), may be capped prior to the completion of filling operations. Cross-sectional details of the proposed final cover system (i.e., closure cap and an alternative cap design) are provided on Drawing No. EP-7 of the facility's Engineering Plan. The following final cover system components are proposed, from bottom to top, as shown on the referenced details (Drawing No. EP-7):

Intermediate Cover and Leveling Course – Local soil will be placed over the monthly cover soil to provide at least 12 inches of intermediate cover and a uniform base for construction of the remainder of the final cover system.

Gas Migration Layer – A geonet composite will be installed between the intermediate cover and the overlying infiltration layer. The geonet composite will provide a pathway for accumulated gas to move laterally and then upward through the landfill gas vents.

Infiltration Layer: Clay Component – The infiltration layer will consist of 18 inches of compacted soil with a permeability no greater than 1.0×10^{-5} cm/sec. The permeability requirement will be achieved using laboratory test data from the borrow source material prior to construction. Installation and testing requirements for the Infiltration Layer are provided in the technical specifications of the facility's Engineering Plan (Appendix EP-1) and the facility's CQA Plan.

Alternate Cap Infiltration Layer: Geomembrane Component – A geomembrane component is proposed as an alternate to the clay infiltration layer. Equivalency of the proposed alternate cap to the regulatory minimum soil cap is included in the facility's Engineering Plan (Appendix EP-3). This demonstration was submitted to show equivalency to the standard regulatory cap design, as required by Rule .0543(c)(3)(A).

Should this alternate cap design be implemented, the geomembrane component serving as the infiltration layer will consist of a dual textured 40 mil flexible geomembrane (LLDPE). This geomembrane component will be in direct contact with the underlying gas migration layer. The testing program and quality assurance requirements for the geomembrane component are described in the facility's CQA Plan.

Alternate Cap Drainage Layer – A geomembrane infiltration layer is proposed as an alternate to the standard clay infiltration layer. Should the alternate cap design be implemented, a geosynthetic drainage layer consisting of a geonet and geotextile composite will be used over the geomembrane component to promote lateral drainage and increase the veneer stability of the protective cover soils.

Protective Layer – A layer consisting of at least 12 inches of local soil will be placed above the compacted soil infiltration barrier, or if the alternate cap is used, the protective layer will

be placed above the alternate cap drainage layer to provide a protective cover for the underlying cap components. Compaction of the protective layer will be limited to 90 percent of the Standard Proctor maximum dry density so that the vegetation layer can develop a strong root system as well as to avoid possible damage to the geosynthetic cap components while trying to achieve a higher compaction rate.

Erosion/Vegetative Layer – A layer of topsoil material and/or organically amended local soil will be placed above the protective layer. This soil layer will be at least 6 inches in thickness. The topsoil material will be lightly compacted so that a good stand of vegetation can be established. Soil tests may be conducted prior to seeding to determine if soil additives are needed to establish and maintain the proposed vegetation.

Vegetation – After placement of the erosion/vegetative layer, the area will be seeded. Seeding will be accomplished in accordance with the “North Carolina Erosion and Sediment Control Planning and Design Manual,” and recommendations from the Guilford County Agricultural Extension Office. Mulch and erosion control matting will be used, as needed, to control erosion and promote vegetative growth. The vegetative cover will be inspected regularly during the post-closure care period. Areas found during inspections to be sparsely covered will be revegetated and mulched until a strong stand of vegetation is established.

The stability of the cap system was evaluated under static conditions by examining potential rotational failure surfaces through the exterior slopes, veneer failure of the final soil cover, and tension failure in the geosynthetic components. Calculations for these analyses are found in the facility’s Engineer Plan (Appendix EP-2). These analyses indicate that both proposed final cover systems will be stable under design static conditions.

Although the results of the stability analyses indicate that the proposed final cover systems will be stable under the design static loadings, certain minimum physical properties were assumed in the calculations. These assumptions included interface friction angles and soil properties. Laboratory testing of actual materials proposed for use in constructing the cap will be completed prior to their use to verify that the materials meet the specified parameters for stability.

Additional information on the design, construction, and maintenance of the final cover system can be found in the facility’s Closure and Post-Closure Plan.

Gas Management System:

To protect public health and safety in the vicinity of the landfill, landfill gas produced by the decomposition of C&D waste will be controlled and monitored during the operational, closure, and post-closure periods. A gas management plan and gas monitoring program will be implemented for the purpose of maintaining the concentration of methane gas below the following regulatory levels, if necessary:

- The concentration of methane gas generated is not to exceed 25 percent of the lower explosive limit (LEL) for methane in on-site structures (excluding gas control or recovery system components); and

- The concentration of methane gas is not to exceed the LEL for methane at the facility property boundary.

Landfill gas is a by-product from the decomposition of organic waste in a C&D Landfill. The major components of landfill gas are methane and carbon dioxide. Other gases, such as volatile organic compounds, are present in trace quantities. The landfill gas is proposed to be managed by a passive gas collection system. The gas may be actively recovered in the future if generation rates are sufficient to justify the additional costs of an active system.

Gas monitoring will be performed during the active life of the landfill and throughout the closure and post-closure periods. At a minimum, quarterly monitoring of explosive gases will be conducted at all gas detection probes and in structures at the landfill. If additional structures are built, the monitoring program will be expanded to include the new structures. Gas detection probes will be installed around the boundary of the waste disposal unit. Probes should not be needed where site topography permits gas to be released to the atmosphere before it migrates to the property boundaries, or where the site is bound by surface water features. The facility's Operation Plan contains more detailed information regarding landfill gas management.

Stormwater Management:

High intensity storms can cause temporary flooding and hinder operations in active disposal cells. To minimize these effects, temporary drainage features will be provided to segregate stormwater from coming into contact with the C&D waste where possible. Within each disposal cell, a temporary system of berms, dikes, and temporary culverts and slope drains will be used to divert and transport uncontaminated stormwater from active fill areas. Temporary pumps may be used during the initial fill stages of newly constructed cells.

Inactive areas will be covered with intermediate soil cover and temporary berms, dikes, and slope drains will be used to allow stormwater runoff to collect and be safely transported from the disposal areas. Ultimately, all stormwater runoff will be directed to the facility's permanent sediment basins.

(end)

Table 1
Projected Ash Disposal Rates
WCA of Highpoint Construction and Demolition Landfill
GANCI Project No. 063-6526

YEAR	C&D			TOTAL	
	tons	avg. tons/day	cubic yards	tons	cubic yards
2004	61,781	217	95,047	61,781	95,047
2005	117,534	412	180,821	117,534	180,821
2006	91,959	323	141,475	91,959	141,475
2007	81,344	285	125,144	81,344	125,144
2008	110,000	386	169,231	110,000	169,231
2009	111,100	390	170,923	111,100	170,923
2010	112,211	394	172,632	112,211	172,632
2011	113,333	398	174,359	113,333	174,359
2012	114,466	402	176,102	114,466	176,102
2013	115,611	406	177,863	115,611	177,863
2014	116,767	410	179,642	116,767	179,642
2015	117,935	414	181,438	117,935	181,438
2016	119,114	418	183,253	119,114	183,253
2017	120,305	422	185,085	120,305	185,085
2018	121,508	426	186,936	121,508	186,936
2019	122,724	431	188,805	122,724	188,805
2020	123,951	435	190,693	123,951	190,693
2021	125,190	439	192,600	125,190	192,600
2022	126,442	444	194,526	126,442	194,526
2023	127,707	448	196,472	127,707	196,472
2024	128,984	453	198,436	128,984	198,436
Total:	1,917,349	420	2,949,767	1,917,349	2,949,767

Notes:

- *C&D densities are assumed to be an average of 48 pcf.
- *Avg. tons/day based on 285 working days a year.
- *Assumed Phase 3 starts at the beginning of 2009
- *Totals do not include years 2004 through 2008

Golder Associates NC Inc.

Table 2
Landfill Capacity by Phase
WCA of Highpoint Construction and Demolition Landfill
GANCI Project No. 063-6526

PHASE	AREA (acres)	AIRSPACE (CY)	CAP (CY)	COVER (CY)	C&D VOLUME (CY)	C&D QUANTITY (Ton)
3	6.5	563,690	32,718	10,619	520,352	338,229
4	5.6	894,022	28,188	17,317	848,517	551,536
5	8.5	702,871	42,786	13,202	646,884	420,474
6	3.6	923,530	18,121	18,108	887,301	576,746
Total:	24.2	3,084,113	121,813	59,246	2,903,054	1,886,985

Notes:

*C&D densities are assumed to be an average of 48 pcf.

Table 3
Projected Cumulative Ash Disposal Rates
WCA of Highpoint Construction and Demolition Landfill
GANCI Project No. 063-6526

Year	Projected C&D Tonnage	Projected C&D Volume (CY)	Cumulative C&D Tonnage	Cumulative C&D Volume (CY)	Phase Projected C&D Capacity (CY)
2009	111,100	170,923	111,100	170,923	
2010	112,211	172,632	223,311	343,555	
2011	113,333	174,359	336,644	517,914	End of Phase 3
2012	114,466	176,102	451,111	694,016	520,352
2013	115,611	177,863	566,722	871,879	
2014	116,767	179,642	683,489	1,051,521	
2015	117,935	181,438	801,424	1,232,960	End of Phase 4
2016	119,114	183,253	920,538	1,416,212	1,368,869
2017	120,305	185,085	1,040,843	1,601,298	
2018	121,508	186,936	1,162,352	1,788,234	
2019	122,724	188,805	1,285,075	1,977,039	End of Phase 5
2020	123,951	190,693	1,409,026	2,167,732	2,015,753
2021	125,190	192,600	1,534,216	2,360,333	
2022	126,442	194,526	1,660,659	2,554,859	
2023	127,707	196,472	1,788,365	2,751,331	End of Phase 6
2024	128,984	198,436	1,917,349	2,949,767	2,903,054

Notes:

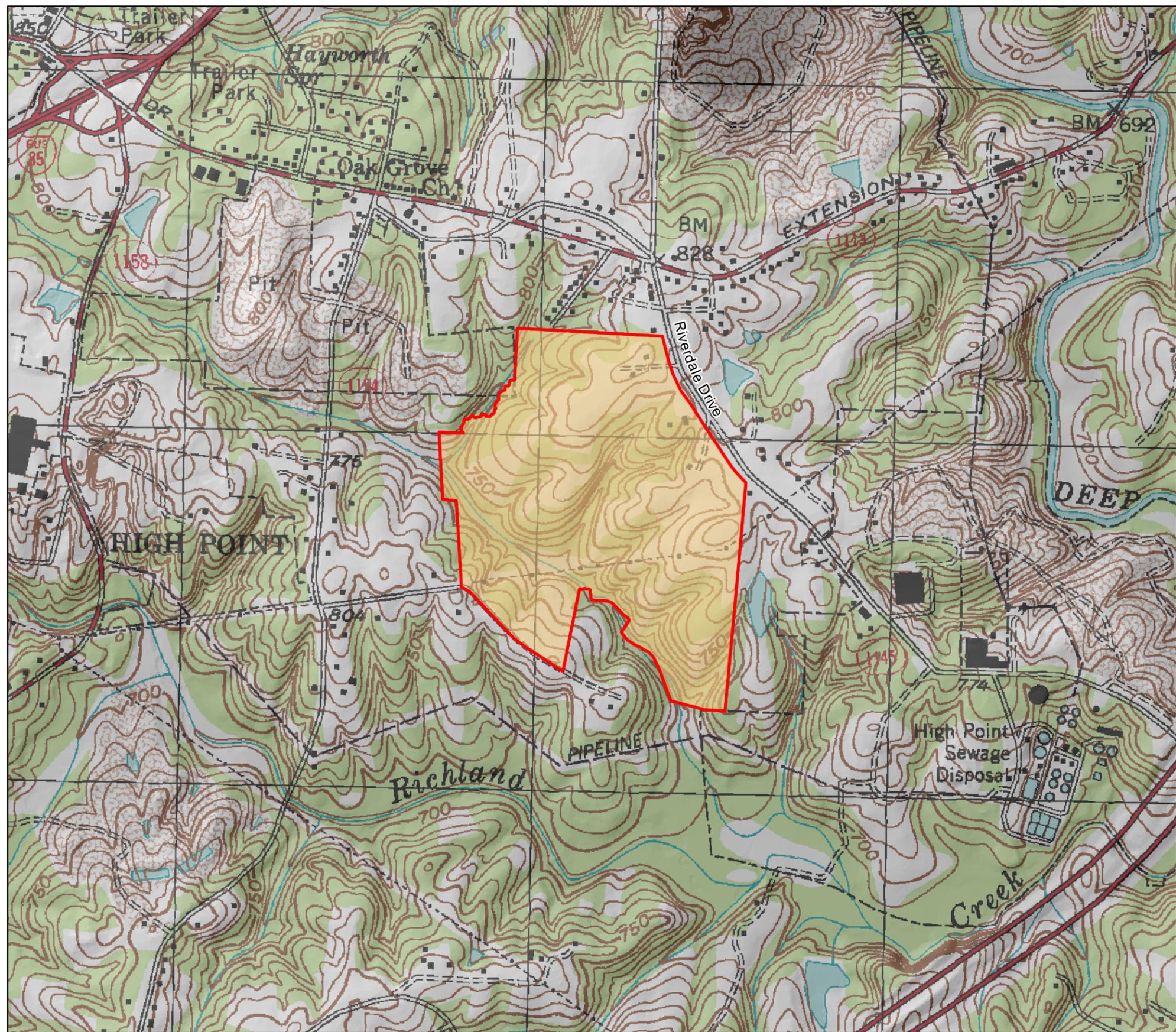
*C&D densities are assumed to be an average of 48 pcf.

Table 4
Soil Balance
WCA of Highpoint Construction and Demolition Landfill
GANCI Project No. 063-6526

PHASE	AREA (AC)	AVAILABLE ON-SITE SOIL (CY)	STRUCTURAL FILL (CY)	CAP (CY)	COVER (CY)	BALANCE (CY)	CUMULATIVE BALANCE (CY)
3	6.5	6,454	74,089	32,718	10,619	-110,973	-110,973
4	5.6	57,448	10,354	28,188	17,317	1,589	-109,384
5	8.5	31,266	46,325	42,786	13,202	-71,046	-180,430
6	3.6	8,775	47,753	18,121	18,108	-75,207	-255,637
Total:	24.2	103,943	178,521	121,813	59,246	-255,637	-255,637

Notes:

*C&D densities are assumed to be an average of 48 pcf.



LEGEND

 WCA of High Point Property

REFERENCE

NAD 1983 State Plane North Carolina FIPS 3200 Feet
 Projection: Lambert Conformal Conic
 Topographic Map Base: High Point East 7.5 Minute USGS
 Topographic Quadrangle.



SCALE 1:12,000



TITLE
Site Location Map

CLIENT
 WCA of High Point, LLC

DATE
 12/13/06

DESIGN
 CGP

GIS
 CGP

CHECK

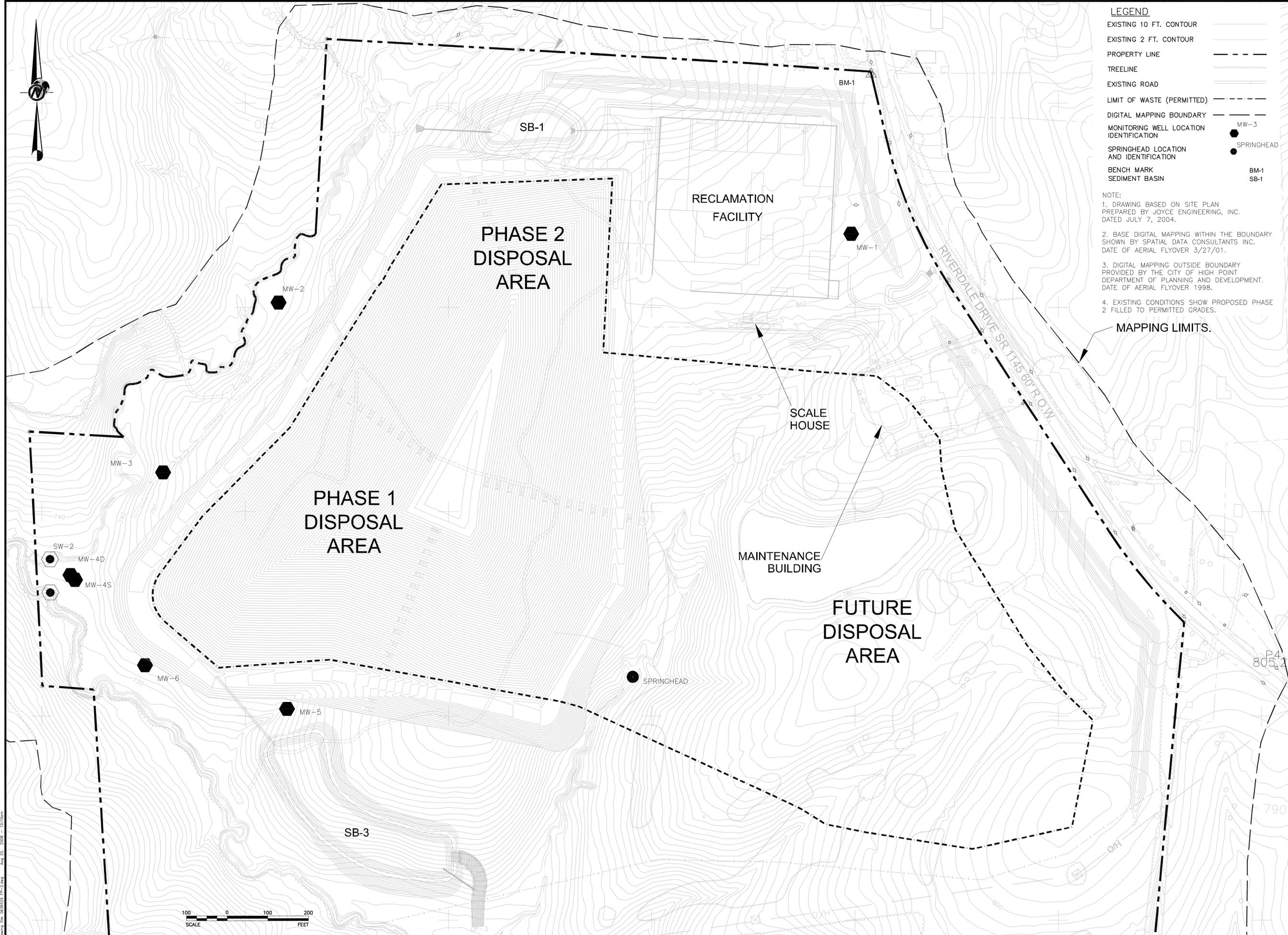
REVIEW

FIGURE: 1

PROJECT No. 0636526.100

FILE Figure 1 Location Map.mxd

REV. 0



LEGEND

- EXISTING 10 FT. CONTOUR
- EXISTING 2 FT. CONTOUR
- PROPERTY LINE
- TREELINE
- EXISTING ROAD
- LIMIT OF WASTE (PERMITTED)
- DIGITAL MAPPING BOUNDARY
- MONITORING WELL LOCATION IDENTIFICATION
- SPRINGHEAD LOCATION AND IDENTIFICATION
- BENCH MARK
- SEDIMENT BASIN

NOTE:

1. DRAWING BASED ON SITE PLAN PREPARED BY JOYCE ENGINEERING, INC. DATED JULY 7, 2004.
2. BASE DIGITAL MAPPING WITHIN THE BOUNDARY SHOWN BY SPATIAL DATA CONSULTANTS INC. DATE OF AERIAL FLYOVER 3/27/01.
3. DIGITAL MAPPING OUTSIDE BOUNDARY PROVIDED BY THE CITY OF HIGH POINT DEPARTMENT OF PLANNING AND DEVELOPMENT. DATE OF AERIAL FLYOVER 1998.
4. EXISTING CONDITIONS SHOW PROPOSED PHASE 2 FILLED TO PERMITTED GRADES.

MAPPING LIMITS.

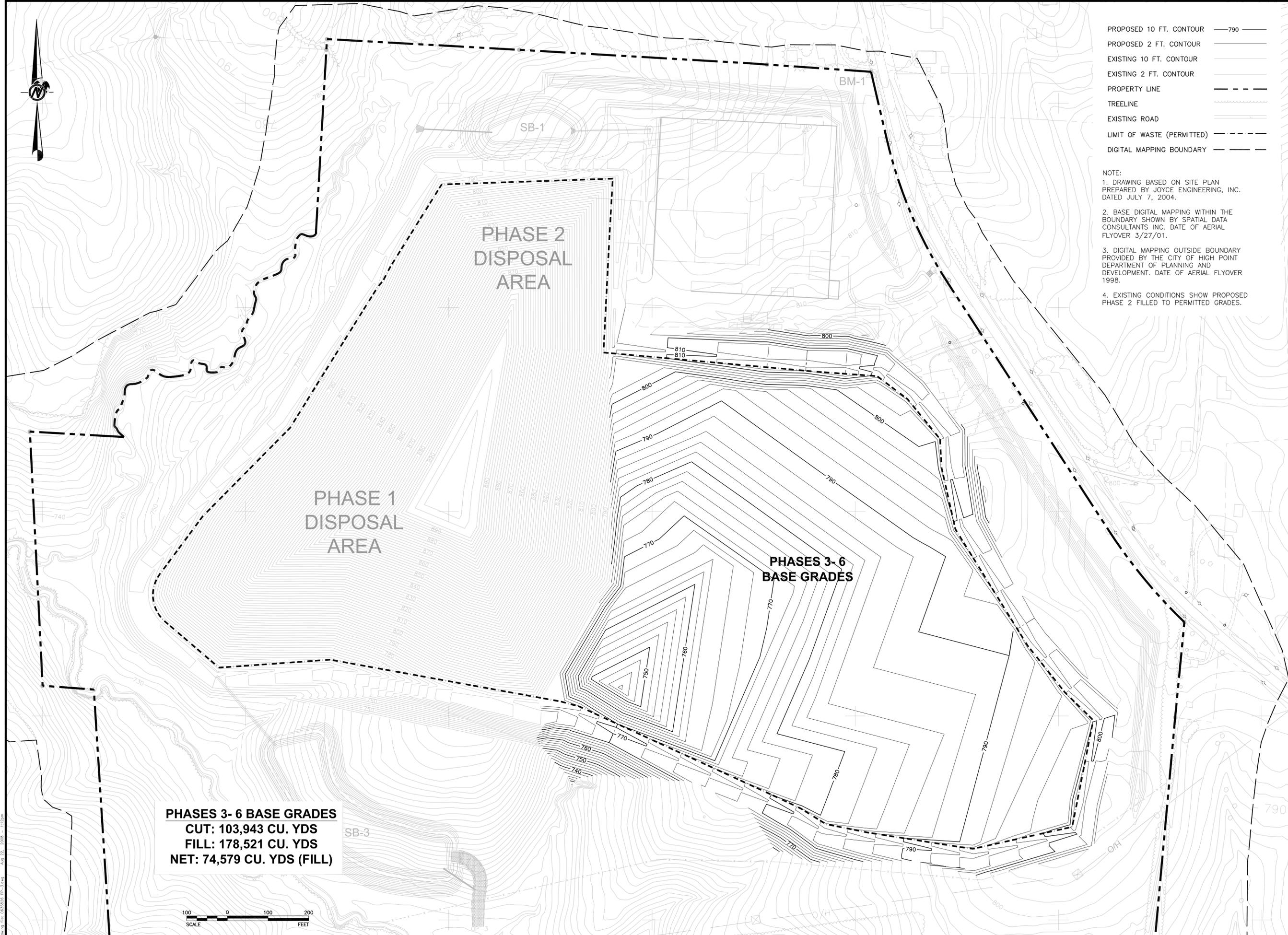


REV.	DATE	DES.	CHK.	APP.	DESCRIPTION

PROJECT
**WCA OF HIGH POINT
 CONSTRUCTION AND
 DEMOLITION DEBRIS
 LANDFILL AND RECLAMATION
 FACILITY**
 GUILFORD COUNTY, NC

TITLE	
PROJECT No.	063-6526
FILE No.	0636562 FP-2
REV.	SCALE AS SHOWN
DESIGN	CH 08/21/08
CADD	JCB 08/21/08
CHECK	
REVIEW	

Drawing file: W0636562 FP-2.dwg Aug 22, 2008 10:10am



- PROPOSED 10 FT. CONTOUR — 790 —
- PROPOSED 2 FT. CONTOUR — —
- EXISTING 10 FT. CONTOUR — —
- EXISTING 2 FT. CONTOUR — —
- PROPERTY LINE — - - - -
- TREELINE — ~ ~ ~ ~
- EXISTING ROAD — — — —
- LIMIT OF WASTE (PERMITTED) — - - - -
- DIGITAL MAPPING BOUNDARY — - - - -

- NOTE:
1. DRAWING BASED ON SITE PLAN PREPARED BY JOYCE ENGINEERING, INC. DATED JULY 7, 2004.
 2. BASE DIGITAL MAPPING WITHIN THE BOUNDARY SHOWN BY SPATIAL DATA CONSULTANTS INC. DATE OF AERIAL FLYOVER 3/27/01.
 3. DIGITAL MAPPING OUTSIDE BOUNDARY PROVIDED BY THE CITY OF HIGH POINT DEPARTMENT OF PLANNING AND DEVELOPMENT. DATE OF AERIAL FLYOVER 1998.
 4. EXISTING CONDITIONS SHOW PROPOSED PHASE 2 FILLED TO PERMITTED GRADES.

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RW

PHASES 3- 6 BASE GRADES
CUT: 103,943 CU. YDS
FILL: 178,521 CU. YDS
NET: 74,579 CU. YDS (FILL)





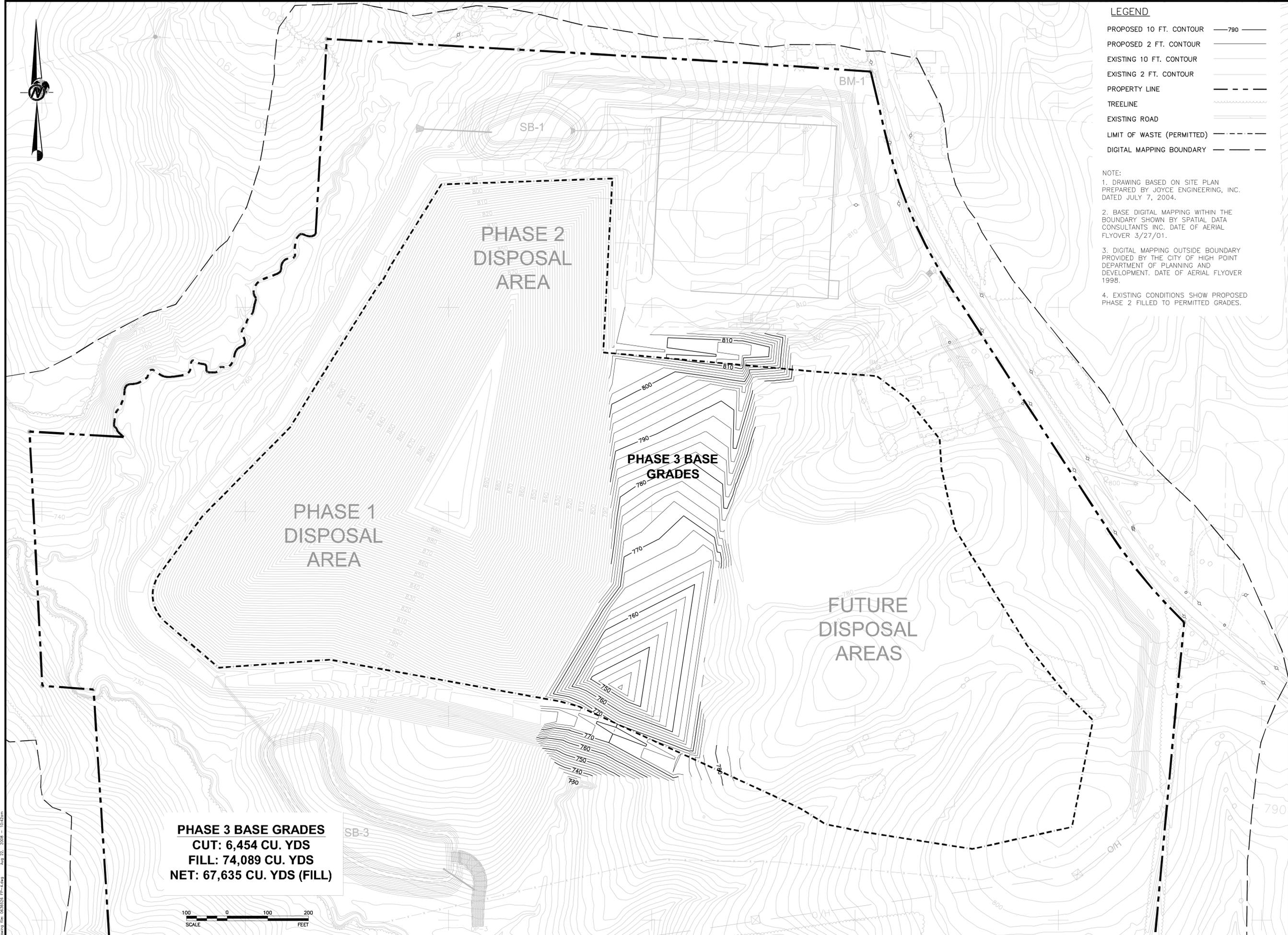
Golder Associates
GREENSBORO, NORTH CAROLINA

**WCA OF HIGH POINT
CONSTRUCTION AND
DEMOLITION DEBRIS
LANDFILL AND RECLAMATION
FACILITY
GUILFORD COUNTY, NC**

**PROPOSED FACILITY BASE
GRADES**

FP-3

Aug 22, 2006 11:30am
 D:\proj\063652\FP-3.dwg
 063652



LEGEND

- PROPOSED 10 FT. CONTOUR ——— 790 ———
- PROPOSED 2 FT. CONTOUR ———
- EXISTING 10 FT. CONTOUR ———
- EXISTING 2 FT. CONTOUR ———
- PROPERTY LINE ———
- TREELINE ———
- EXISTING ROAD ———
- LIMIT OF WASTE (PERMITTED) ———
- DIGITAL MAPPING BOUNDARY ———

- NOTE:
1. DRAWING BASED ON SITE PLAN PREPARED BY JOYCE ENGINEERING, INC. DATED JULY 7, 2004.
 2. BASE DIGITAL MAPPING WITHIN THE BOUNDARY SHOWN BY SPATIAL DATA CONSULTANTS INC. DATE OF AERIAL FLYOVER 3/27/01.
 3. DIGITAL MAPPING OUTSIDE BOUNDARY PROVIDED BY THE CITY OF HIGH POINT DEPARTMENT OF PLANNING AND DEVELOPMENT. DATE OF AERIAL FLYOVER 1998.
 4. EXISTING CONDITIONS SHOW PROPOSED PHASE 2 FILLED TO PERMITTED GRADES.



REV.	DATE	DES.	REVISION DESCRIPTION	CADD	CHK	RAW

PROJECT

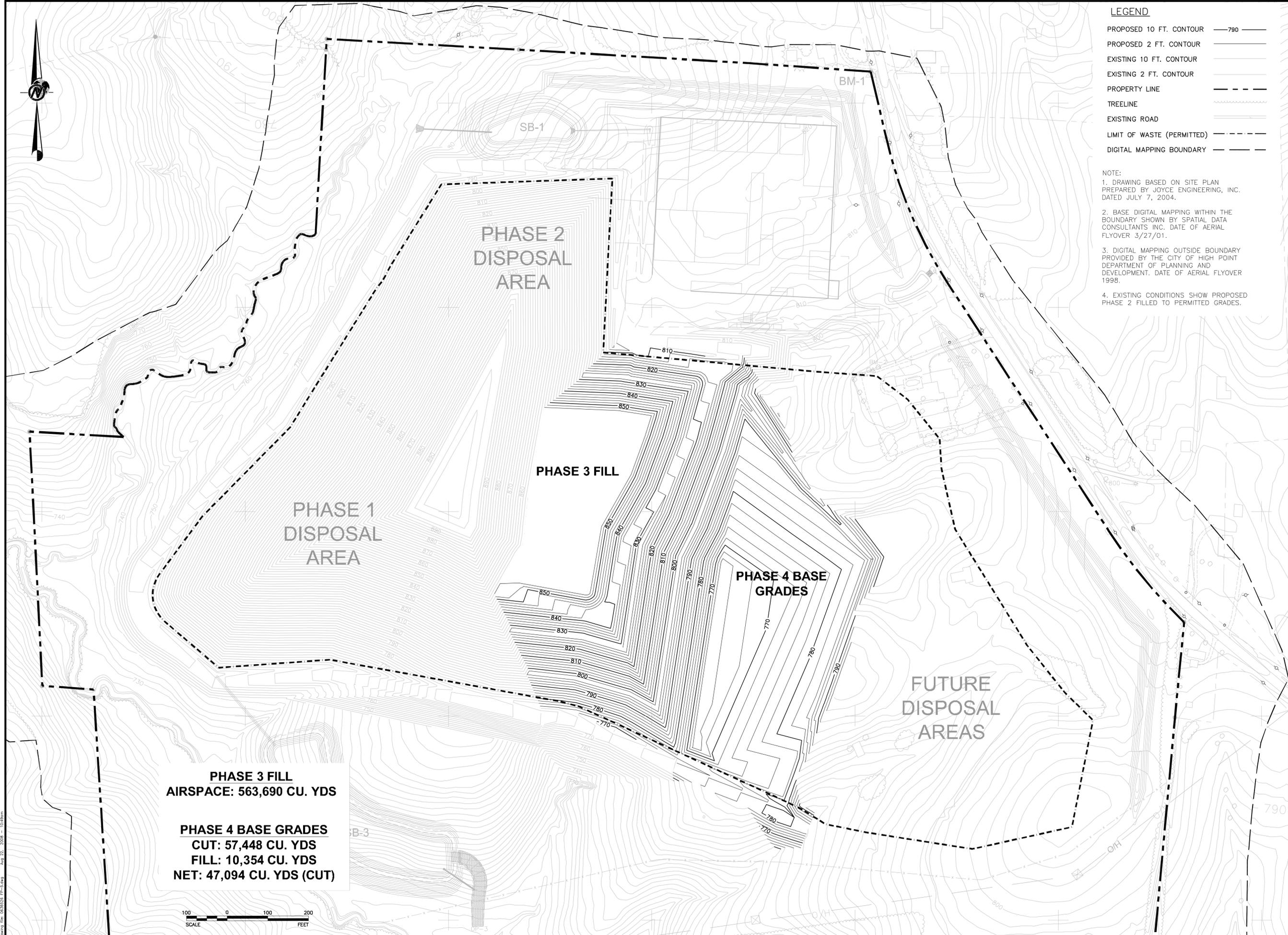
WCA OF HIGH POINT
 CONSTRUCTION AND
 DEMOLITION DEBRIS
 LANDFILL AND RECLAMATION
 FACILITY
 GUILFORD COUNTY, NC

TITLE

**TRANSITIONAL GRADES:
 PHASE 2 FILL PLAN/PHASE 3
 BASE GRADES**

PROJECT No.	063-6526
FILE No.	0636562 FP-4
REV.	SCALE AS SHOWN
DESIGN	CH 08/21/08
CADD	JCB 08/21/08
CHECK	
REVIEW	

FP-4



LEGEND

- PROPOSED 10 FT. CONTOUR ——— 790 ———
- PROPOSED 2 FT. CONTOUR ———
- EXISTING 10 FT. CONTOUR ———
- EXISTING 2 FT. CONTOUR ———
- PROPERTY LINE ———
- TREELINE ———
- EXISTING ROAD ———
- LIMIT OF WASTE (PERMITTED) - - - - -
- DIGITAL MAPPING BOUNDARY - - - - -

NOTE:

1. DRAWING BASED ON SITE PLAN PREPARED BY JOYCE ENGINEERING, INC. DATED JULY 7, 2004.
2. BASE DIGITAL MAPPING WITHIN THE BOUNDARY SHOWN BY SPATIAL DATA CONSULTANTS INC. DATE OF AERIAL FLYOVER 3/27/01.
3. DIGITAL MAPPING OUTSIDE BOUNDARY PROVIDED BY THE CITY OF HIGH POINT DEPARTMENT OF PLANNING AND DEVELOPMENT. DATE OF AERIAL FLYOVER 1998.
4. EXISTING CONDITIONS SHOW PROPOSED PHASE 2 FILLED TO PERMITTED GRADES.

PHASE 3 FILL
AIRSPACE: 563,690 CU. YDS

PHASE 4 BASE GRADES
CUT: 57,448 CU. YDS
FILL: 10,354 CU. YDS
NET: 47,094 CU. YDS (CUT)





Golder Associates
GREENSBORO, NORTH CAROLINA

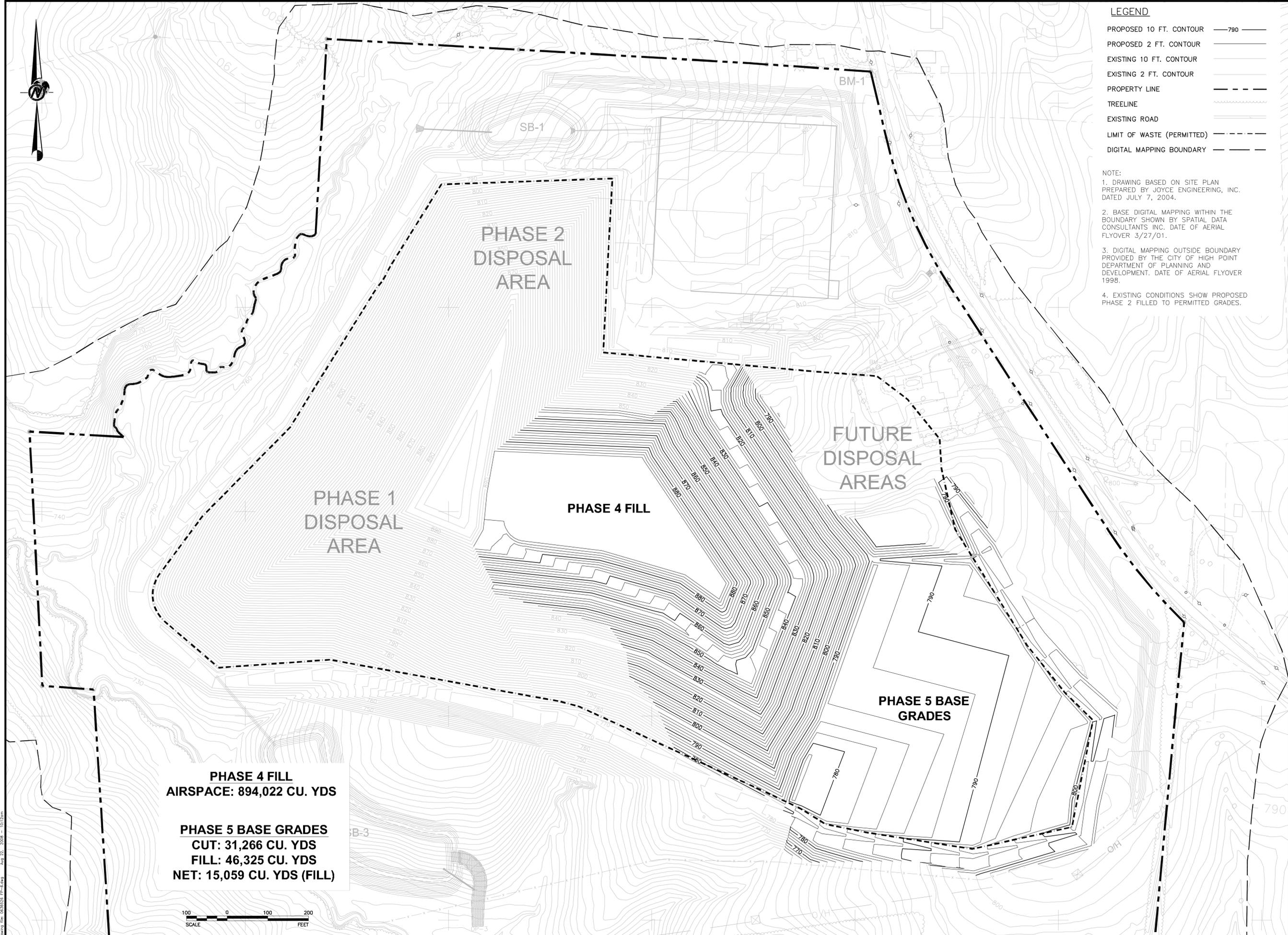
REVISION DESCRIPTION	DATE	DES	CHK	RW

PROJECT
WCA OF HIGH POINT
CONSTRUCTION AND
DEMOLITION DEBRIS
LANDFILL AND RECLAMATION
FACILITY
GUILFORD COUNTY, NC

TITLE
TRANSITIONAL GRADES:
PHASE 3 FILL PLAN/PHASE 4
BASE GRADES

PROJECT No.	063-6526
FILE No.	0636562 FP-5
REV.	SCALE AS SHOWN
DESIGN	CH 08/21/08
CADD	JCB 08/21/08
CHECK	
REVIEW	

FP-5



LEGEND

- PROPOSED 10 FT. CONTOUR ——— 790 ———
- PROPOSED 2 FT. CONTOUR ———
- EXISTING 10 FT. CONTOUR ———
- EXISTING 2 FT. CONTOUR ———
- PROPERTY LINE ———
- TREELINE ———
- EXISTING ROAD ———
- LIMIT OF WASTE (PERMITTED) - - - - -
- DIGITAL MAPPING BOUNDARY - - - - -

- NOTE:
1. DRAWING BASED ON SITE PLAN PREPARED BY JOYCE ENGINEERING, INC. DATED JULY 7, 2004.
 2. BASE DIGITAL MAPPING WITHIN THE BOUNDARY SHOWN BY SPATIAL DATA CONSULTANTS INC. DATE OF AERIAL FLYOVER 3/27/01.
 3. DIGITAL MAPPING OUTSIDE BOUNDARY PROVIDED BY THE CITY OF HIGH POINT DEPARTMENT OF PLANNING AND DEVELOPMENT. DATE OF AERIAL FLYOVER 1998.
 4. EXISTING CONDITIONS SHOW PROPOSED PHASE 2 FILLED TO PERMITTED GRADES.

PHASE 4 FILL
AIRSPACE: 894,022 CU. YDS

PHASE 5 BASE GRADES
CUT: 31,266 CU. YDS
FILL: 46,325 CU. YDS
NET: 15,059 CU. YDS (FILL)





Golder Associates
GREENSBORO, NORTH CAROLINA

REV.	DATE	DES.	CHK.	CADD.	RW.	REVISION DESCRIPTION

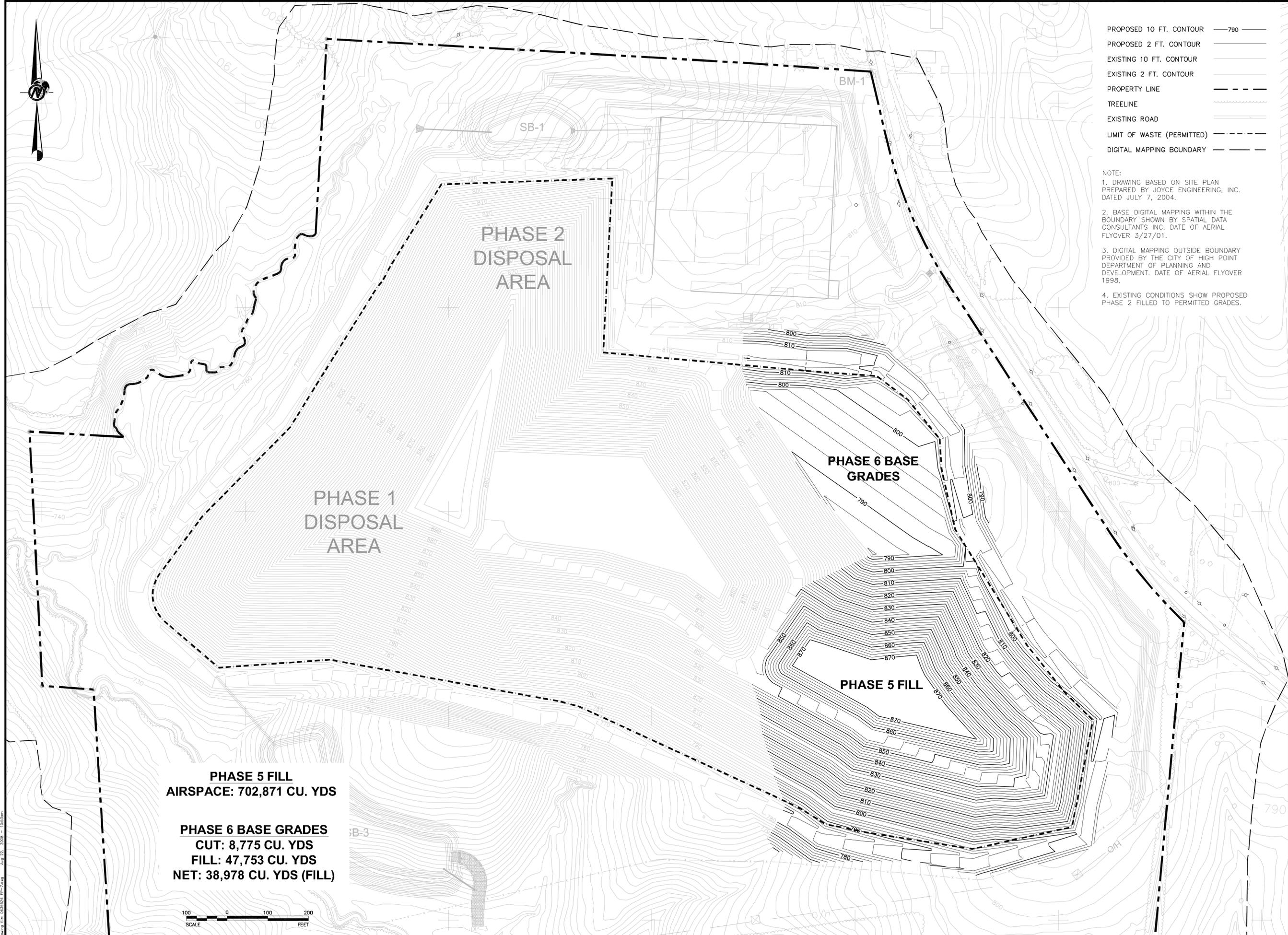
**WCA OF HIGH POINT
CONSTRUCTION AND
DEMOLITION DEBRIS
LANDFILL AND RECLAMATION
FACILITY
GUILFORD COUNTY, NC**

**TRANSITIONAL GRADES:
PHASE 4 FILL PLAN/PHASE 5
BASE GRADES**

PROJECT No.	063-6526
FILE No.	0636562 FP-6
REV.	SCALE AS SHOWN
DESIGN	CH 08/21/08
CADD	JCB 08/21/08
CHECK	
REVIEW	

FP-6

Drawing File: W036562 FP-6.dwg Aug 22, 2008 10:10am



- PROPOSED 10 FT. CONTOUR — 790 —
- PROPOSED 2 FT. CONTOUR —
- EXISTING 10 FT. CONTOUR —
- EXISTING 2 FT. CONTOUR —
- PROPERTY LINE — - - - -
- TREELINE — ~~~~~
- EXISTING ROAD — = = = =
- LIMIT OF WASTE (PERMITTED) — - - - -
- DIGITAL MAPPING BOUNDARY — - - - -

NOTE:
 1. DRAWING BASED ON SITE PLAN PREPARED BY JOYCE ENGINEERING, INC. DATED JULY 7, 2004.
 2. BASE DIGITAL MAPPING WITHIN THE BOUNDARY SHOWN BY SPATIAL DATA CONSULTANTS INC. DATE OF AERIAL FLYOVER 3/27/01.
 3. DIGITAL MAPPING OUTSIDE BOUNDARY PROVIDED BY THE CITY OF HIGH POINT DEPARTMENT OF PLANNING AND DEVELOPMENT. DATE OF AERIAL FLYOVER 1998.
 4. EXISTING CONDITIONS SHOW PROPOSED PHASE 2 FILLED TO PERMITTED GRADES.

PHASE 5 FILL
 AIRSPACE: 702,871 CU. YDS

PHASE 6 BASE GRADES
 CUT: 8,775 CU. YDS
 FILL: 47,753 CU. YDS
 NET: 38,978 CU. YDS (FILL)



REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RAW

PROJECT
 WCA OF HIGH POINT
 CONSTRUCTION AND
 DEMOLITION DEBRIS
 LANDFILL AND RECLAMATION
 FACILITY
 GUILFORD COUNTY, NC

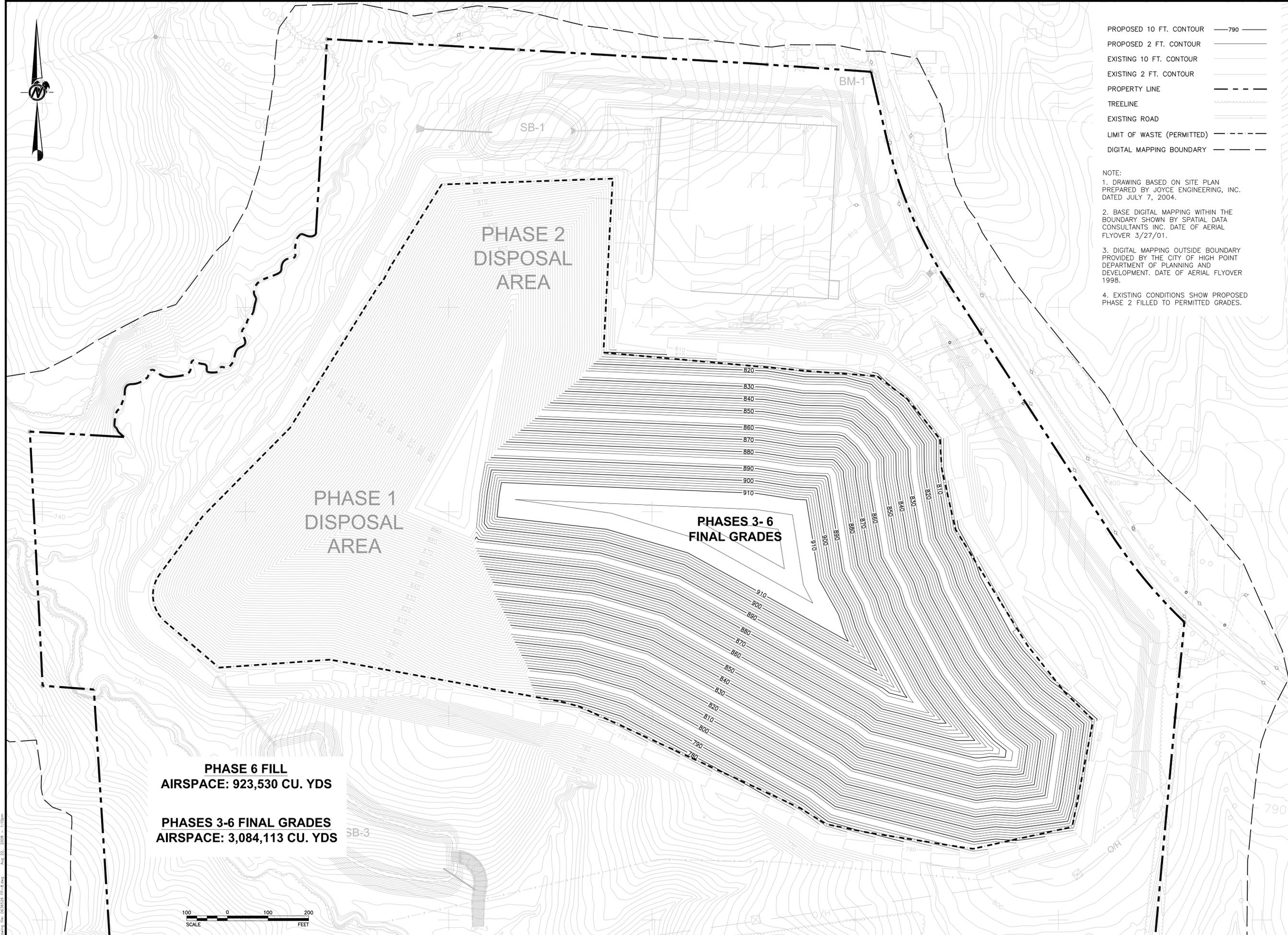
TITLE
**TRANSITIONAL GRADES:
 PHASE 5 FILL PLAN/PHASE 6
 BASE GRADES**

PROJECT No.	063-6526	
FILE No.	0636562 FP-7	
REV.	SCALE	AS SHOWN
DESIGN	CH	08/21/08
CADD	JCB	08/21/08
CHECK		
REVIEW		

FP-7



Drawing file: W0636526 FP-7.dwg Aug 22, 2008 1:10:35pm



- PROPOSED 10 FT. CONTOUR ——— 790 ———
- PROPOSED 2 FT. CONTOUR ———
- EXISTING 10 FT. CONTOUR ———
- EXISTING 2 FT. CONTOUR ———
- PROPERTY LINE ———
- TREELINE ———
- EXISTING ROAD ———
- LIMIT OF WASTE (PERMITTED) ———
- DIGITAL MAPPING BOUNDARY ———

NOTE:
 1. DRAWING BASED ON SITE PLAN PREPARED BY JOYCE ENGINEERING, INC. DATED JULY 7, 2004.
 2. BASE DIGITAL MAPPING WITHIN THE BOUNDARY SHOWN BY SPATIAL DATA CONSULTANTS INC. DATE OF AERIAL FLYOVER 3/27/01.
 3. DIGITAL MAPPING OUTSIDE BOUNDARY PROVIDED BY THE CITY OF HIGH POINT DEPARTMENT OF PLANNING AND DEVELOPMENT. DATE OF AERIAL FLYOVER 1998.
 4. EXISTING CONDITIONS SHOW PROPOSED PHASE 2 FILLED TO PERMITTED GRADES.

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RW

PHASE 6 FILL
 AIRSPACE: 923,530 CU. YDS

PHASES 3-6 FINAL GRADES
 AIRSPACE: 3,084,113 CU. YDS





Golder Associates
GREENSBORO, NORTH CAROLINA

**WCA OF HIGH POINT
 CONSTRUCTION AND
 DEMOLITION DEBRIS
 LANDFILL AND RECLAMATION
 FACILITY
 GUILFORD COUNTY, NC**

**PROPOSED FACILITY FINAL
 GRADES**

PROJECT No.	063-6526
FILE No.	0636562 FP-8
REV.	SCALE AS SHOWN
DESIGN	CH 08/21/08
CADD	JCB 08/21/08
CHECK	
REVIEW	

FP-8