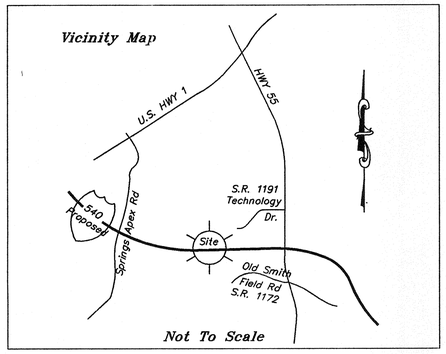
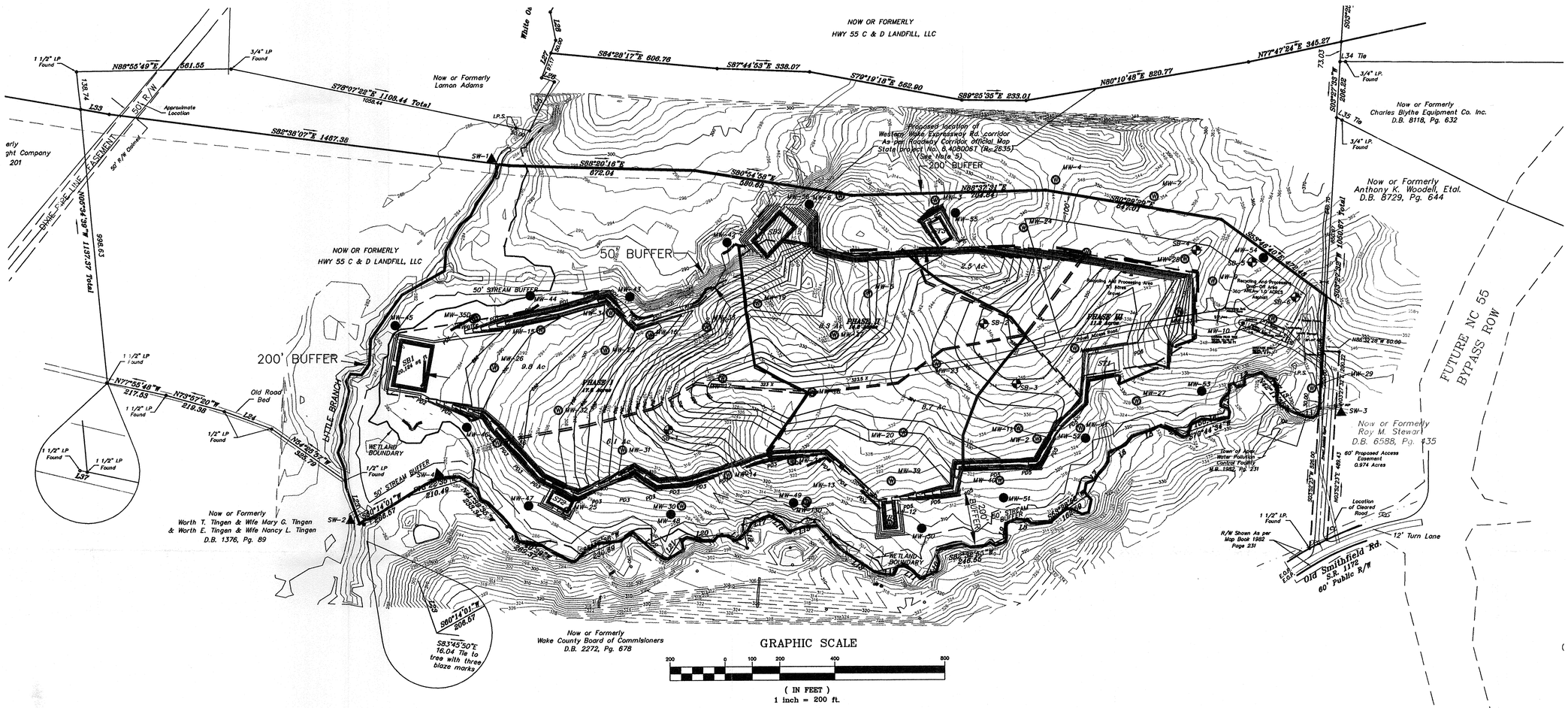


BENCHMARK	POWER POLE	WM	WATER MAIN	RAILROAD SIGNAL	TREE LINE	PAINTED LINE	DEPRESSION INT. CONTOUR
TRAVERSE POINT	POWER POLE W/ LIGHT	WV	WATER VALVE	RETAINING WALL	SMALL TREE	TRAILS (TO SCALE)	SIGN
2426.28 FIELD ELEVATION	LP	LIGHT POLE	GM	GAS METER	WATER LINE	LARGE TREE	PAVED ROADS (TO SCALE)	UNIDENTIFIED OBJECT
X 2426.3 PHOTOGRAMMETRIC ELEVATION	GUIDE WIRE	PM	PARKING METER	SEWER LINE	LARGE TREE W/ TRUNK	INDEX CONTOURS	TRAFFIC SIGNAL
PROPERTY CORNER	MH	MANHOLE	FP	FLAG POLE	GAS LINE	BUSH	DEPRESSION INDEX CONTOUR	TELEPHONE PEDESTAL
CATCH BASIN	FH	FIRE HYDRANT	MB	MAILBOX	FENCE	PINE TREE	INTERMEDIATE CONTOUR	ROTATING BEACON
							MONITORING WELL	WIND SOCK

MAGNETIC



PROPOSED CONSTRUCTION AND
DEMOLITION LANDFILL SITE
USEABLE ACRES 42.9
TOTAL ACRES 88.6

Legend

- MW-18 = Monitoring Well Location
- SB-3 = Soil Boring Location
- = Wetland Boundary
- = 50' Stream Buffer
- = Total Landfill Boundary
- = Usable Landfill Boundary
- = Drainage Area

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

FEB 2002
Received
Solid Waste
Section

PATTERSON BREWER & Associates
Engineering * Surveying * Planning
Post Office Box 1387 * Mooresville, NC 28115
704/662-0100 * Fax 704/662-0101

JOB NAME:

HWY 55 C&D LANDFILL AND RECYCLING CENTER

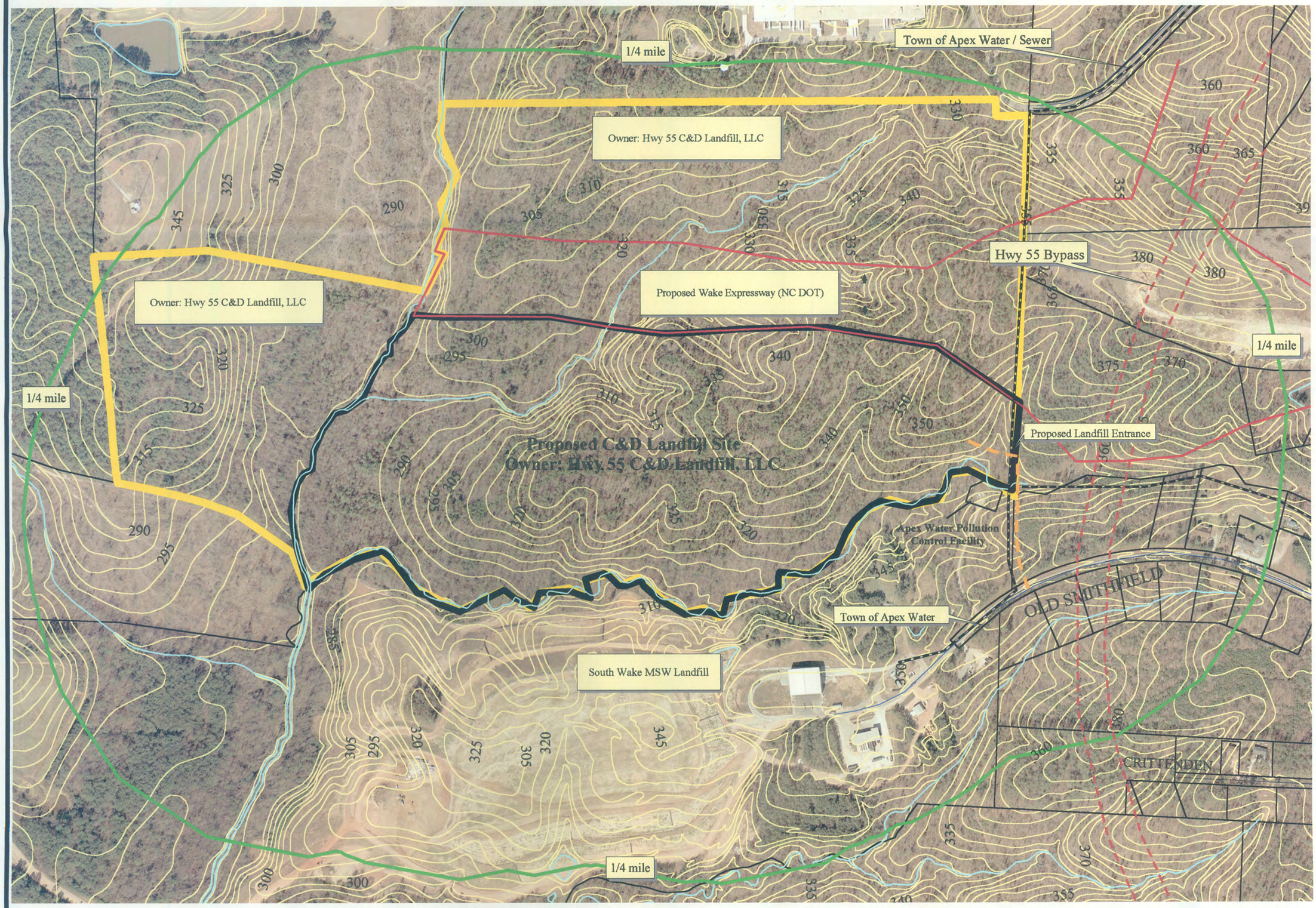
PRELIMINARY GRADING PLAN

92-30

LOCATION: WAKE COUNTY, NC	DRAWN BY: TPD	CHECKED BY: DEB
	SCALE: 1" = 200'	
OWNERS: HWY 55 C & D LANDFILL, LLC 19109-118 WEST CATAWBA AVENUE CORNELIUS, NC 28031-5613	DATE OF FIELD SURVEY: 1/1/00	
	DATE OF MAP: 1/1/00	
	JOB NUMBER MO1117	SHEET NUMBER FIGURE 1A

92-30

Proposed Hwy 55 C & D Landfill and Recycling Center
1/4 Mile Radius Aerial Photograph



Map Legend

Apex / Holly Springs Utilities

- Sewer
- Water
- Hydrology
- Topo
- Proposed Expressway Corridor
- Proposed Hwy 55 Bypass
- Tax Parcel Boundaries
- Proposed C&D Landfill Site
- Hwy 55 C&D Landfill, LLC owned land

Note: No Schools, Airports, or private drinking wells within a 1/4 mile radius of proposed landfill site.

Wake County does not distribute FEMA 100yr Floodplain data in a GIS format to the public.

N

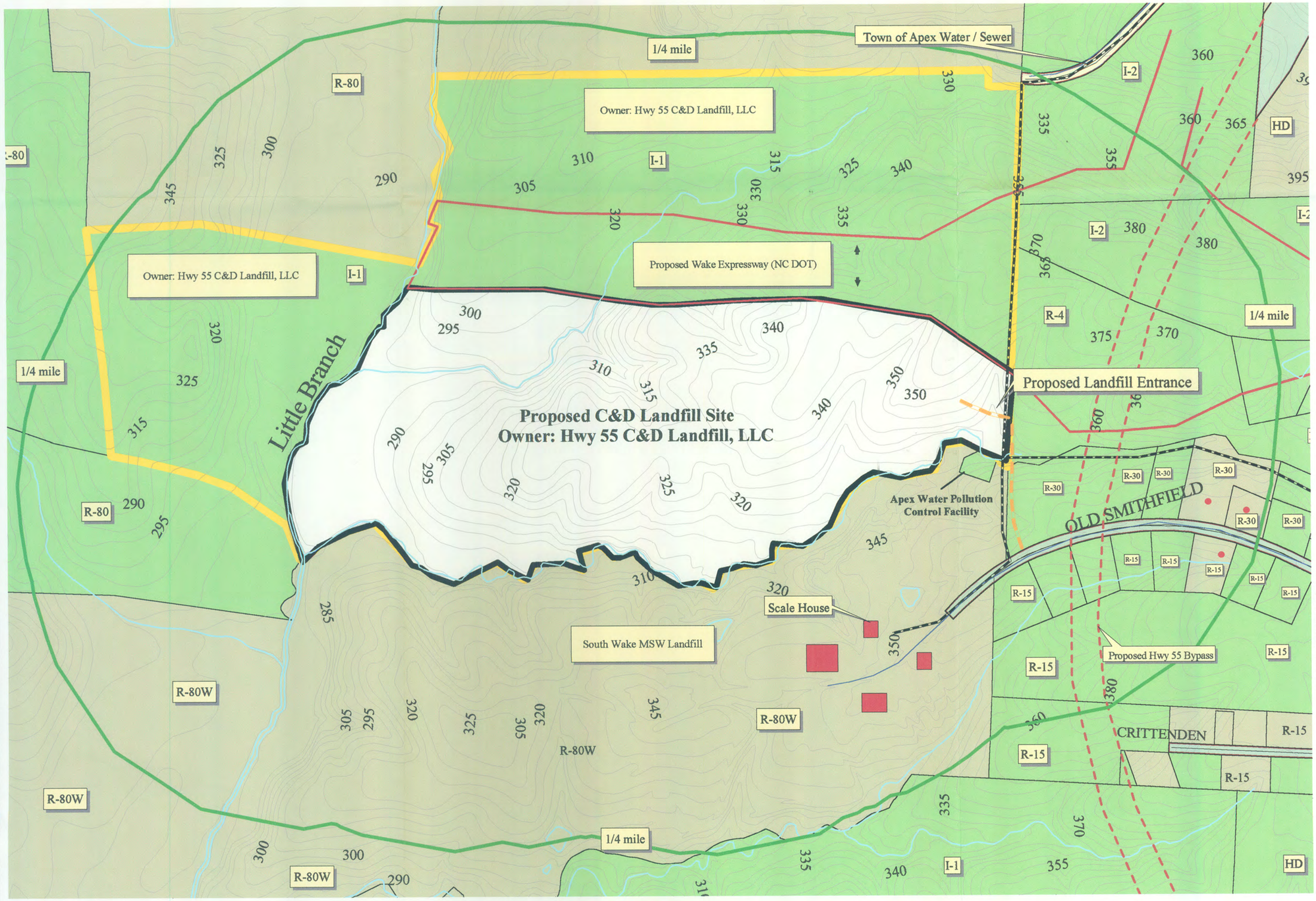
0 400 Feet

Map Scale 1 : 4800
1 inch = 400 feet

Figure 3

92-30

Proposed Hwy 55 C & D Landfill and Recycling Center
1/4 Mile Radius Survey Map



Map Legend

Apex / Holly Springs Utilities

- Sewer
- Water
- Hydrology
- Topo
- Proposed Expressway Corridor
- Proposed Hwy 55 Bypass
- Houses
- Buildings
- Developed Parcels
- Undeveloped Parcels
- Tax Parcel Boundaries
- Proposed C&D Landfill Site
- Hwy 55 C&D Landfill, LLC owned land

Zoning Codes

R80 & R-80W(critical watershed) - 50 du/acre
R-40 & R-40W(critical watershed) - 1 du/acre
R-30 - 1.45 du/acre
R-20 - 2.17 du/acre
R-15 - 2.90 du/acre
R-10 - 4.35 du/acre
R-5 - 8.7 du/acre
HD - Highway District (1.45 du/acre)
OI - Office & Institutional
GB - General Business District
HC - Heavy Commercial District
I1 - Indistrial District
I2 - Industrial District 2
RA - Research Applications District

Note: No Schools, Airports, or private drinking wells within a 1/4 mile radius of proposed landfill site.

Wake County does not distribute FEMA 100yr Floodplain data in a GIS format to the public.

N

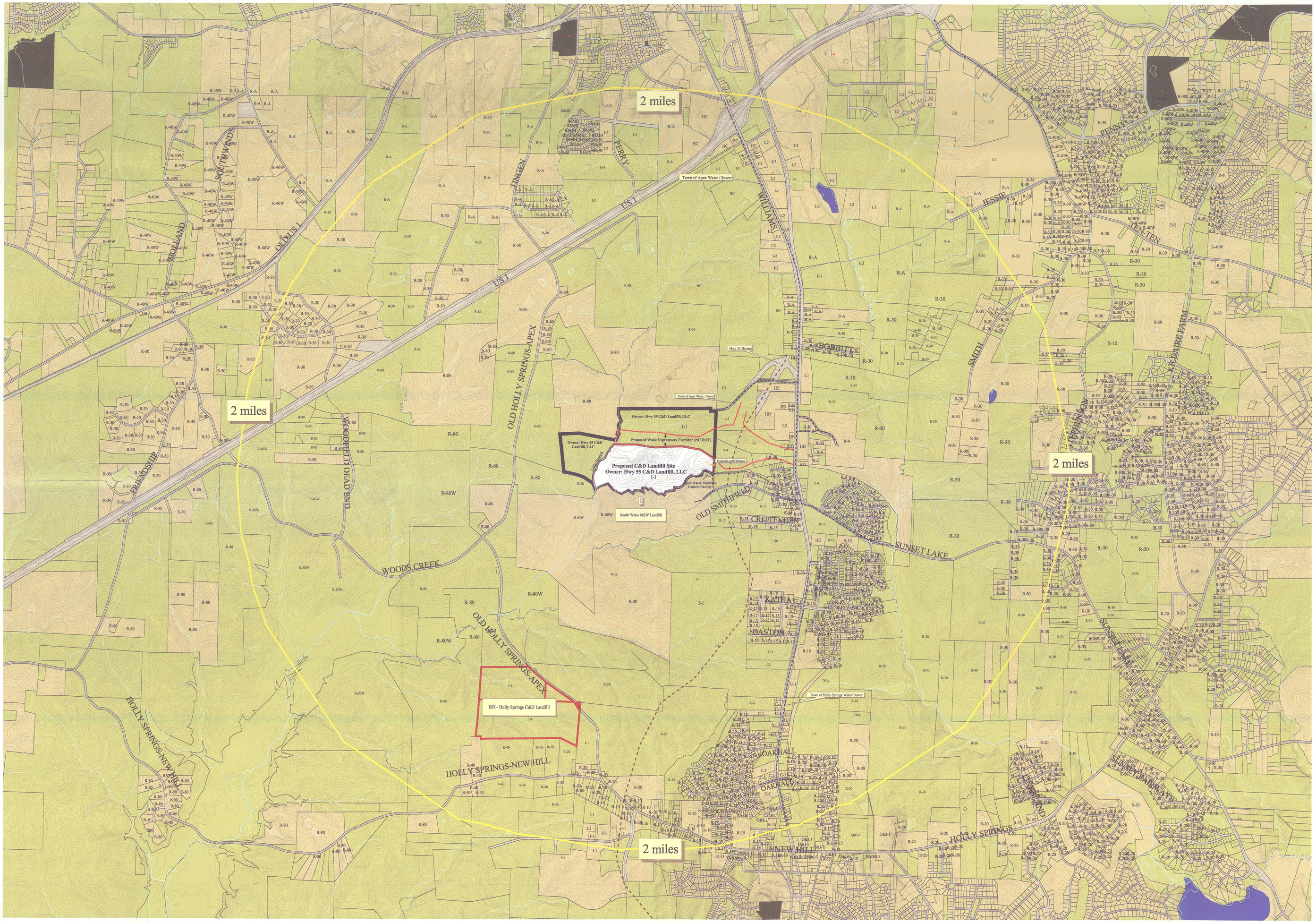
0 400 Feet

Map Scale 1 : 4800
1 inch = 400 feet

Figure 4

92-30

Proposed Highway 55 C&D Landfill & Recycling Center
2 Mile Radius Map



Proposed Wake County Expressway Corridor

Proposed Roads

Rail

Schools

Parks

Topography

Hydrology

Lakes

Undeveloped Parcels

Developed Parcels

Apex / Holly Springs Utilities

Sewer

Water

Hwy 55 C&D, LLC Owned Land

BFI-Holly Springs C&D Landfill

Proposed C&D Landfill Site

Note: No Schools, Airports, or significant groundwater users or water intakes were identified within a 2 mile radius of proposed landfill.

1) Potential sources of surface water-groundwater pollution.

Zoning Codes

R80 & R-80W(critical watershed) - 50 du/acre
R-40 & R-40W(critical watershed) - 1 du/acre
R-30 - 1.45 du/acre
R-20 - 2.17 du/acre
R-15 - 2.90 du/acre
R-10 - 4.35 du/acre
R-5 - 8.7 du/acre
HD - Highway District (1.45 du/acre)
OI - Office & Institutional
GB - General Business District
HC - Heavy Commercial District
I1 - Industrial District
I2 - Industrial District 2
RA - Research Applications District

N

0 0.5 Miles

Map Scale 1:12000, 1 inch = 1000 feet

Figure 5

92-30

Proposed Highway 55 C&D Landfill & Recycling Center
2 Mile Radius Aerial Photograph

Apex / Holly Springs Utilities
- Sewer
- Water

Hydrology

Proposed Expressway Corridor

Proposed Hwy 55 Bypass

BFI-Holly Springs C&D Landfill

Hwy 55 C&D, LLC Owned Land

Proposed C&D Landfill Site

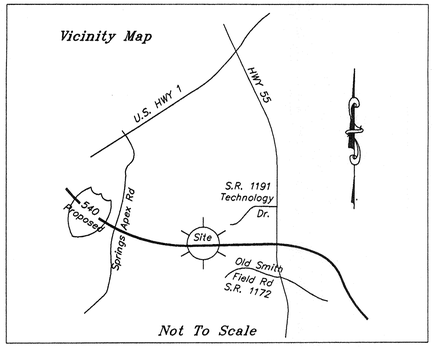
Note: No Schools, Airports, or significant groundwater users or water intakes were identified within a 2 mile radius of proposed landfill.

N

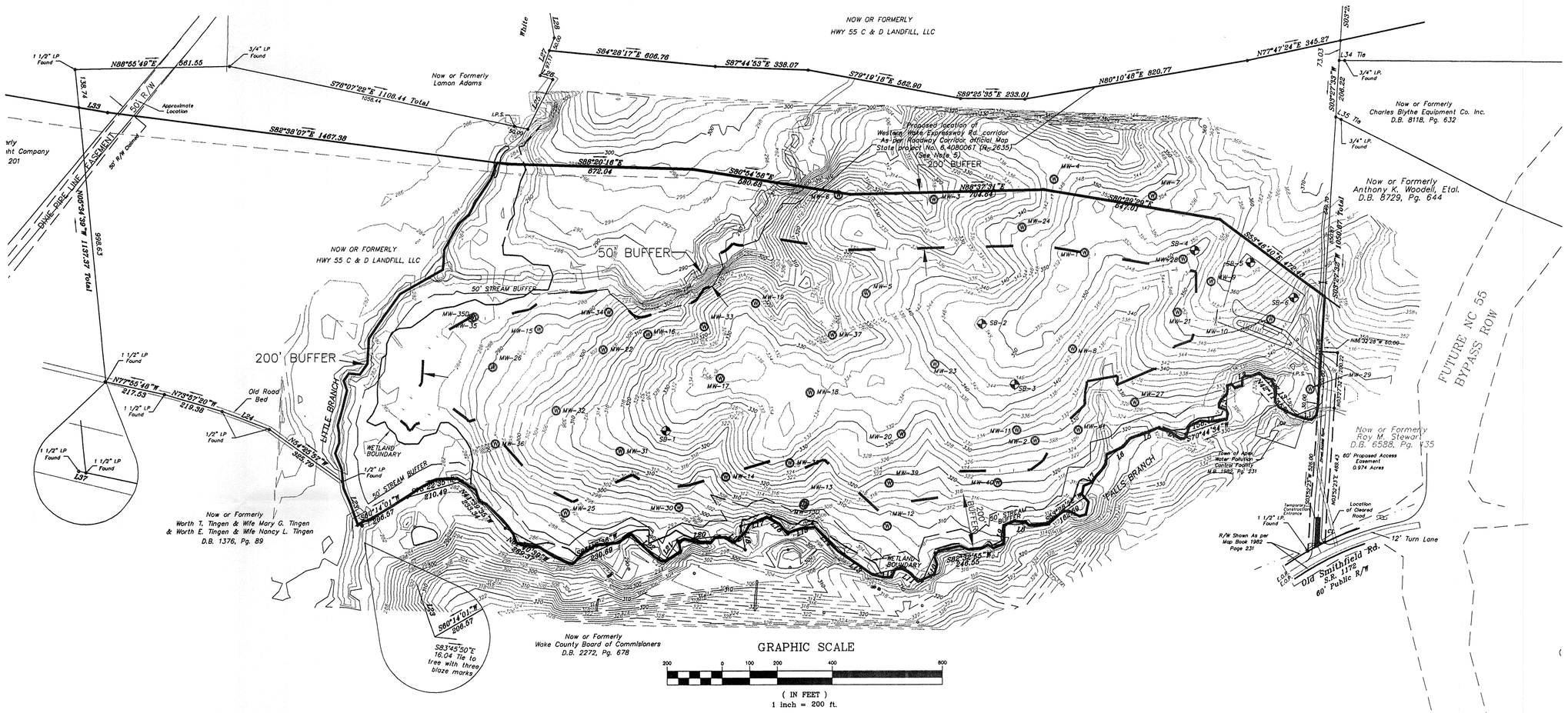
0 0.5 Miles

Map Scale 1:12000, 1 inch = 1000 feet

Figure 5 A



BENCHMARK	POWER POLE	WM	WATER MAIN	RAILROAD SIGNAL	TREE LINE	PAINTED LINE	DEPRESSION INT. CONTOUR
TRAVERSE POINT	POWER POLE W/ LIGHT	WV	WATER VALVE	RETAINING WALL	SMALL TREE	TRAILS (TO SCALE)	SIGN
2426.26 FIELD ELEVATION	LP	LIGHT POLE	GM	GAS METER	WATER LINE	LARGE TREE	PAVED ROADS (TO SCALE)	UNIDENTIFIED OBJECT
x 2426.3 PHOTOGRAMMETRIC ELEVATION	GUIDE WIRE	PM	PARKING METER	SEWER LINE	LARGE TREE W/ TRUNK	INDEX CONTOURS	TRAFFIC SIGNAL
PROPERTY CORNER	MH	MANHOLE	FP	FLAG POLE	GAS LINE	BUSH	DEPRESSION INDEX CONTOUR	TELEPHONE PEDESTAL
CATCH BASIN	FH	FIRE HYDRANT	MB	MAILBOX	FENCE	PINE TREE	INTERMEDIATE CONTOUR	ROTATING BEACON
							MONITORING WELL	WIND SOCK



PROPOSED CONSTRUCTION AND
DEMOLITION LANDFILL SITE
USEABLE ACRES 42.9
TOTAL ACRES 88.6

Legend

- MW-18 = Monitoring Well Location
- SB-3 = Soil Boring Location
- = Wetland Boundary
- = 50' Stream Buffer
- = Total Landfill Boundary
- = Usable Landfill Boundary

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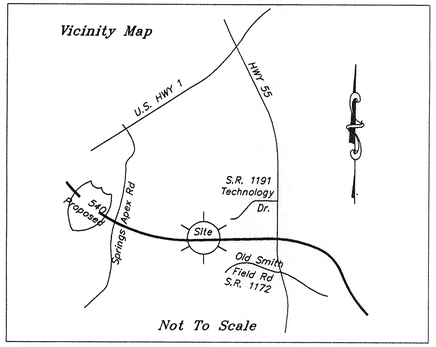
JOB NAME:

HWY 55 C&D LANDFILL AND RECYCLING CENTER

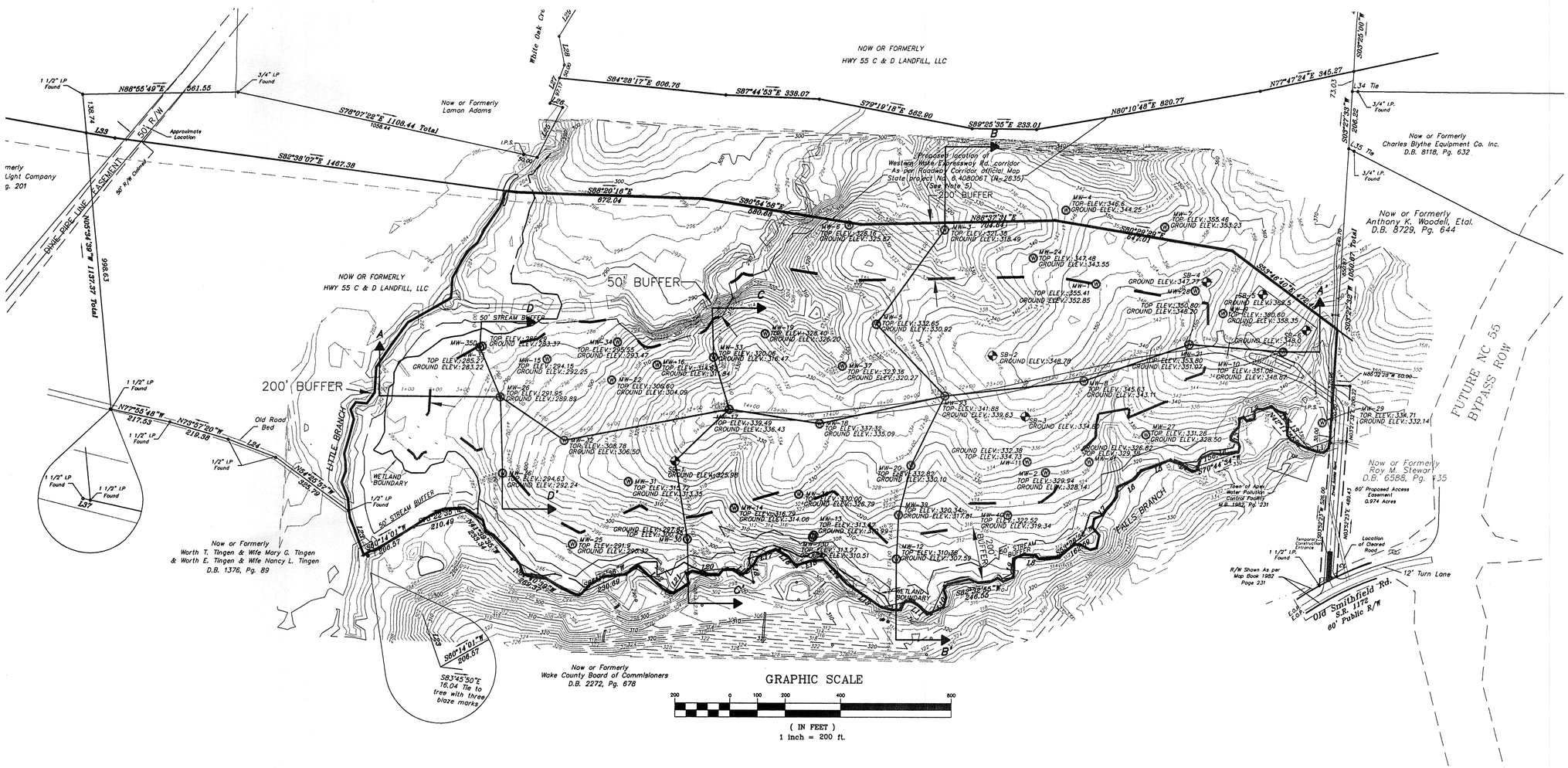
MONITORING WELL/BORING LOCATION PLAN

LOCATION: WAKE COUNTY, NC	DRAWN BY: TPD / CHECKED BY: DEB
	SCALE: 1" = 200'
OWNERS: HWY 55 C & D LANDFILL, LLC, 19109-118 WEST CATAWBA AVENUE, CORNELIUS, NC 28031-5613	DATE OF FIELD SURVEY: 1/1/00
	DATE OF MAP: 1/1/00
	JOB NUMBER M01117 / SHEET NUMBER FIGURE 6



BENCHMARK	POWER POLE	WM	WATER MAIN	RAILROAD SIGNAL	TREE LINE	PAINTED LINE	DEPRESSION INT. CONTOUR
TRAVERSE POINT	POWER POLE W/ LIGHT	WV	WATER VALVE	RETAINING WALL	SMALL TREE	TRAILS (TO SCALE)	SIGN
2426.28 FIELD ELEVATION	LIGHT POLE	GM	GAS METER	WATER LINE	LARGE TREE	PAVED ROADS (TO SCALE)	UNIDENTIFIED OBJECT
2426.3 PHOTOGRAMMETRIC ELEVATION	GUIDE WIRE	PM	PARKING METER	SEWER LINE	LARGE TREE W/ TRUNK	INDEX CONTOURS	TRAFFIC SIGNAL
PROPERTY CORNER	MANHOLE	FP	FLAG POLE	GAS LINE	BUSH	DEPRESSION INDEX CONTOUR	TELEPHONE PEDESTAL
CATCH BASIN	FIRE HYDRANT	MB	MAILBOX	FENCE	PINE TREE	INTERMEDIATE CONTOUR	ROTATING BEACON
						MONITORING WELL	WIND SOCK

MAGNETIC



PROPOSED CONSTRUCTION AND
DEMOLITION LANDFILL SITE
USEABLE ACRES 42.9
TOTAL ACRES 88.6

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- MW-18 = Monitoring Well Location
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- = Wetland Boundary
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ENVIRO-PRO, P.C.
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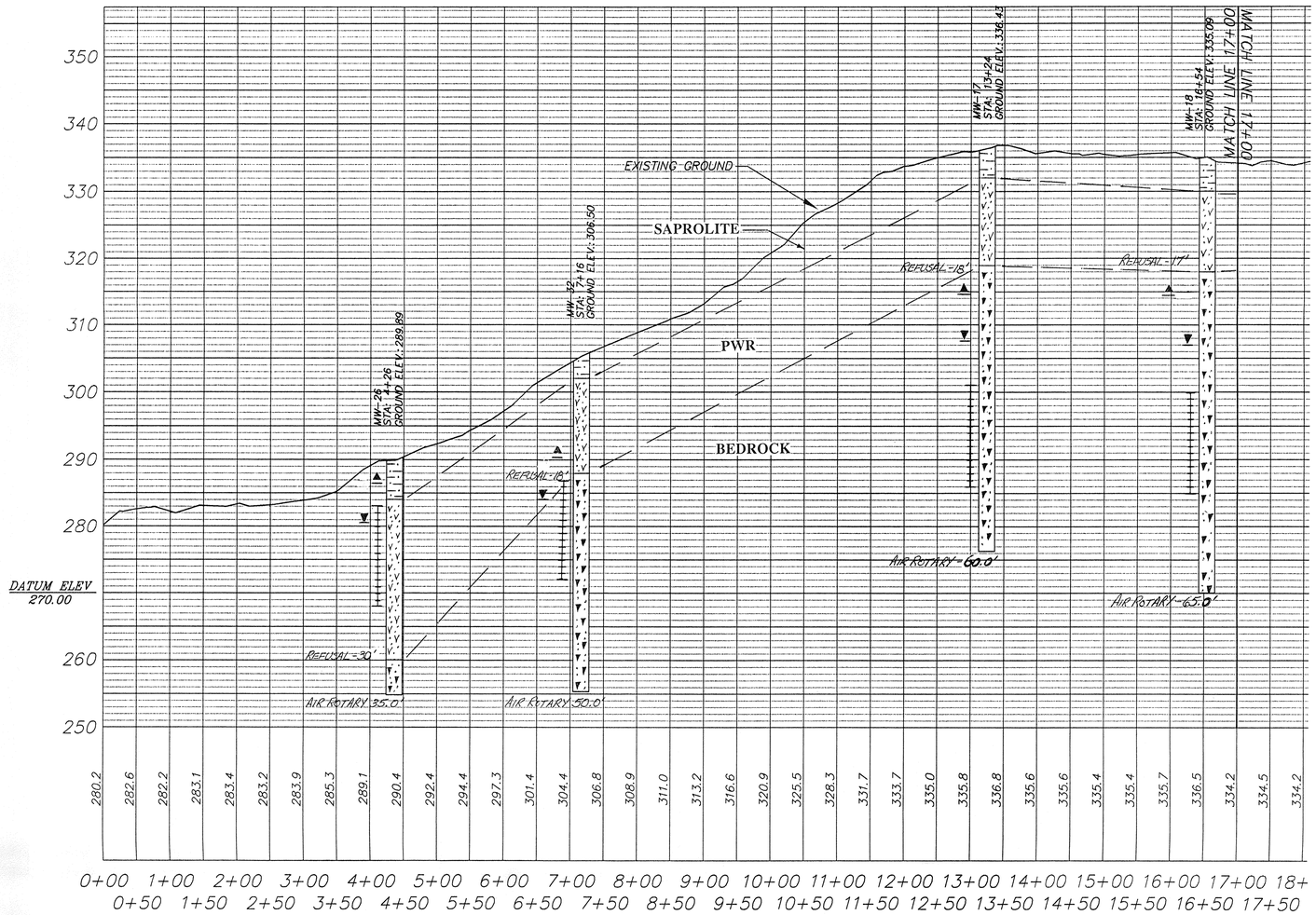
Post Office Box 1387 • Mooresville, NC 28115
704/662-0100 • Fax 704/662-0101

JOB NAME:

HWY 55 C&D LANDFILL AND RECYCLING CENTER

HYDROGEOLOGIC CROSS-SECTION PROFILE MAP

LOCATION: WAKE COUNTY, NC	DRAWN BY: TPD	CHECKED BY: DEB
	SCALE: 1" = 200'	
OWNERS: GRIFFIN BROTHERS COMPANIES, 19109 WEST CATAWBA COUNTY, CORNELIUS, NC 28031	DATE OF FIELD SURVEY: 1/1/00	
	DATE OF MAP: 1/1/00	
	JOB NUMBER M01117	SHEET NUMBER FIGURE 7



VERTICAL
GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

PROFILE A–A'
0+00 – 17+00

HORIZONTAL
GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

SEE FIGURE 7
HYDROGEOLOGIC CROSS–SECTION
PROFILE MAP

LITHOLOGY

- ▲ SEASONAL HIGH GROUNDWATER ELEVATION
- ▼ GROUNDWATER ELEVATION
- SCREEN INTERVAL
- CLAYEY SILT
- PARTIALLY WEATHERED ROCK (PWR) SAMPLED AS SLIGHTLY CLAYEY SANDY SILT WITH ROCK FRAGMENTS
- BEDROCK – FANGLOMERATE

ENVIRO–PRO, P.C.
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JOB NAME:

HWY 55 C&D LANDFILL AND RECYCLING CENTER

HYDROGEOLOGIC CROSS–SECTION PROFILE A–A' (0+00–17+00)

LOCATION: WAKE COUNTY, NC	DRAWN BY: TPD / CHECKED BY: DEB
	SCALE: 1" = 100'
OWNERS: GRIFFIN BROTHERS COMPANIES, 19109 WEST CATAWBA COUNTY, CORNELIUS, NC 28031	DATE OF FIELD SURVEY: 1/1/00
	DATE OF MAP: 1/1/00
	JOB NUMBER: M01117 / SHEET NUMBER: FIGURE 8