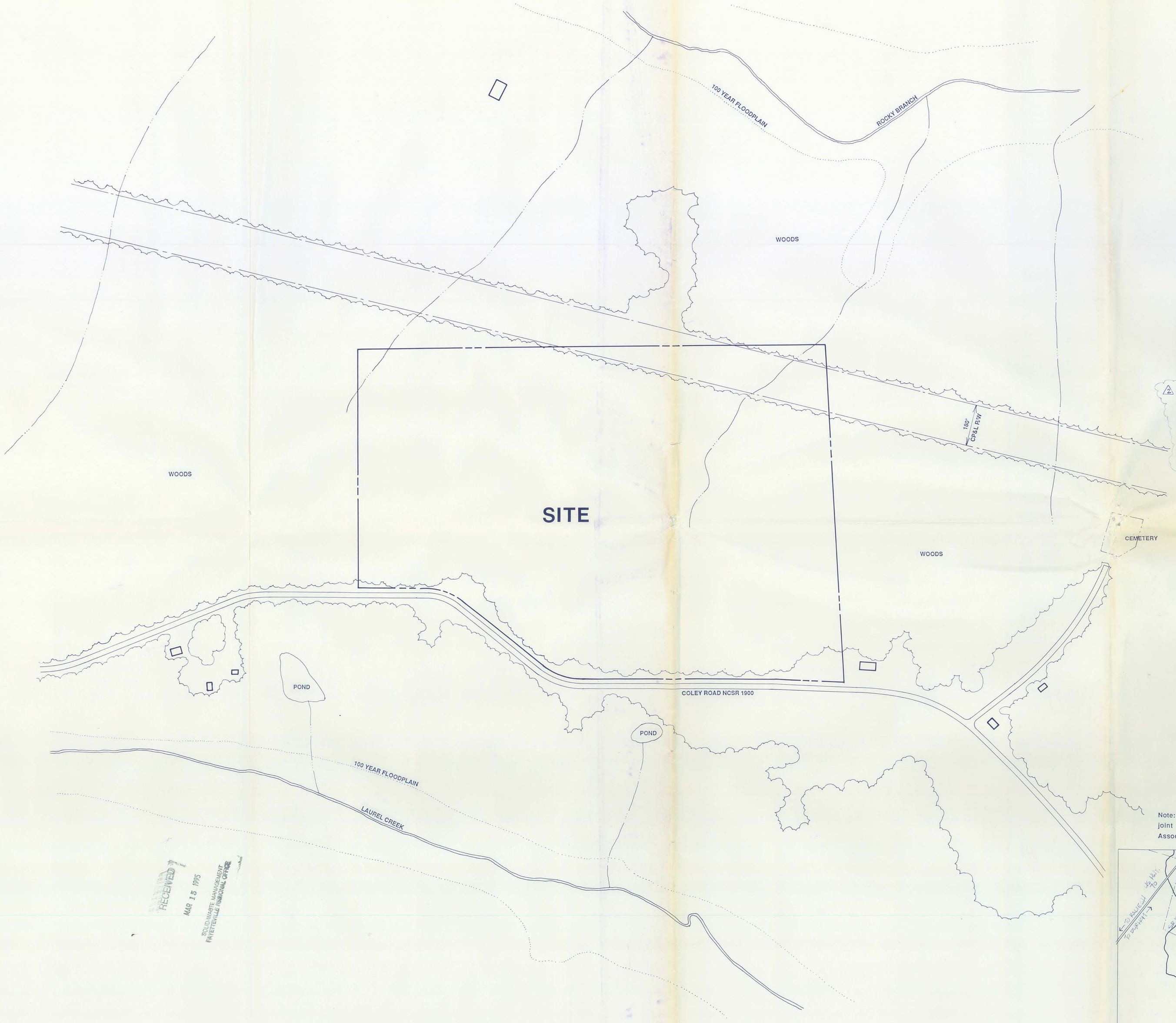
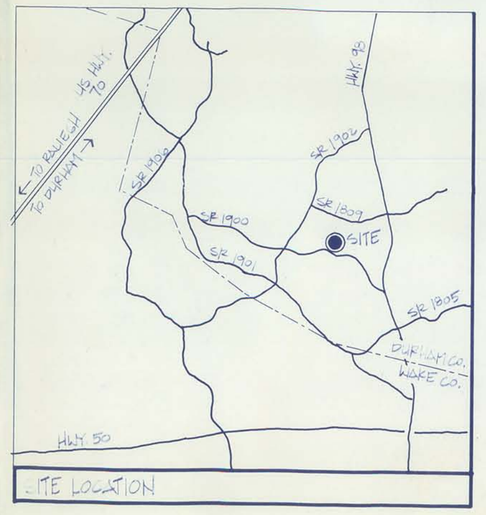


GENERAL NOTES:

1. THIS PROPERTY IS LOCATED OUTSIDE THE 100 YEAR FLOODPLAIN.
2. ACCORDING TO MAPS OF THE NATURAL HERITAGE PROGRAM, THERE ARE NO ENDANGERED OR THREATENED SPECIES OF PLANTS, FISH, OR WILDLIFE LOCATED ON, OR WITHIN 1/4 MILE OF THIS SITE.. THE FACILITIES PROPOSED WILL NOT RESULT IN THE DESTRUCTION OR ADVERSE MODIFICATION OF THE CRITICAL HABITAT OF ENDANGERED OR THREATENED SPECIES.
3. ACCORDING TO THE ARCHAEOLOGICAL AND HISTORICAL PRESERVATION MAPS AND RECORDS FOR DURHAM COUNTY, THERE ARE NO ARCHAEOLOGICAL OR HISTORICAL SITES ON THIS PROPERTY, OR WITHIN 1/4 MILE OF THIS PROPERTY.
5. THERE ARE NO STATE PARKS, RECREATION OR SCENIC AREAS, OR ANY OTHER LANDS INCLUDED IN THE STATE NATURE AND HISTORIC PRESERVE WITHIN THE VICINITY OF THIS SITE.
6. WETLANDS ON THIS SITE AMOUNT TO NO MORE THAN 1/3 OF AN ACRE AS INSPECTED AND DOCUMENTED BY THE ARMY CORPS OF ENGINEERS. SEE SHEET 7 FOR CORPS NATIONWIDE PERMIT.
7. EXCAVATION SHALL BE TO A DEPTH OF NO LESS THAN FOUR FEET FROM ABOVE THE SEASONAL HIGH WATER TABLE. WELLS DRILLED IN THE VICINITY OF THIS SITE BY GOLDSTON WELL COMPANY HAVE RECORDED GROUNDWATER DEPTHS AT OVER 200' WHEN FOUND. PROPOSED EXCAVATION OF THIS SITE IS NOT EXPECTED TO ENCOUNTER ANY GROUNDWATER. MAXIMUM CUTS WILL NOT EXCEED 40 FEET. SEE SHEET 2.
8. ALL ADJACENT HOMES ARE ON PRIVATE WELLS OR CISTERNS.
9. WHERE BEDROCK IS ENCOUNTERED, CONTRACTOR SHALL MAINTAIN SOIL A MINIMUM OF 4 FEET ABOVE BEDROCK THEREBY INSURING SUBSURFACE DRAINAGE OVER BEDROCK IS MAINTAINED AND DOES NOT CONTACT DEBRIS.

APPROVED
DIVISION OF SOLID WASTE MANAGEMENT
DATE 3/28/95 BY [signature]
RAL. CENTRAL FILE COPY
32-I (DURHAM) CUTT.

Note: This plan was prepared through a joint venture between Ballentine Associates and Little & Little.



SITE LOCATION

RECEIVED
MAR 15 1995
SOLID WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

LITTLE & LITTLE
LANDSCAPE ARCHITECTURE / PLANNING
P.O. BOX 1448 RALEIGH, NORTH CAROLINA 27602 919/821-5645

NORTH CAROLINA PROFESSIONAL SEAL 6507 ENGINEER BRUCE BALLENTINE

For Review and Approval

Land Clearing and Inert Debris Landfill

State Road 1900, Durham County, NC

SITE VICINITY

North

NORTH CAROLINA PROFESSIONAL LANDSCAPE ARCHITECT 323 MACK LITTLE

Scale: 0 100 200 400 600

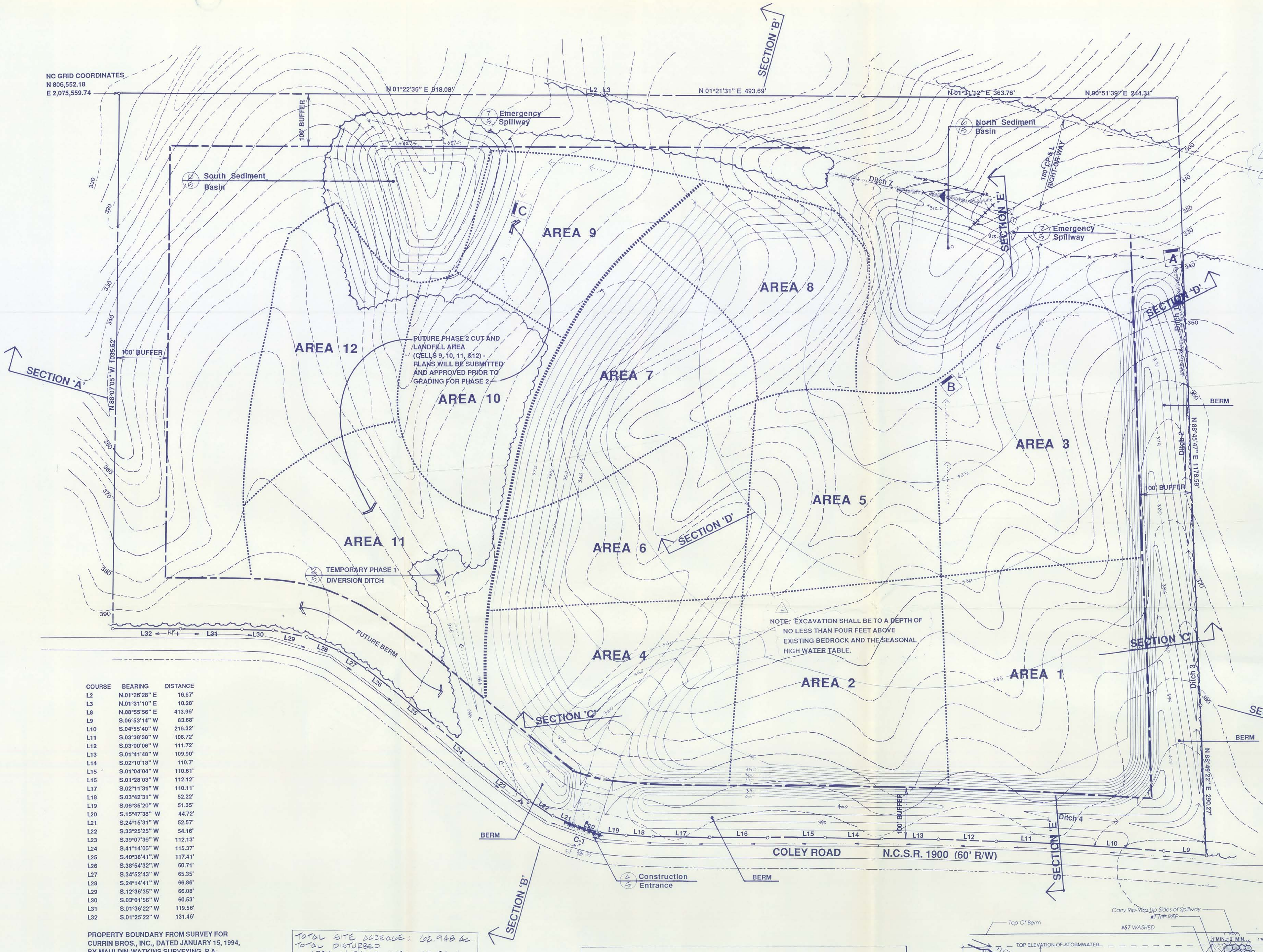
Date

30 AUGUST 1994 - FOR REVIEW AND APPROVAL BY DEHNR

2 12 DECEMBER 1994 REVISED PER DEHNR COMMENTS

Sheet: 1 of Seven

Job Number:



COURSE	BEARING	DISTANCE
L2	N.01°26'28" E	16.67'
L3	N.01°31'10" E	10.28'
L8	N.88°55'56" E	413.96'
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L10	S.04°55'40" W	216.32'
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L32	S.01°25'22" W	131.46'

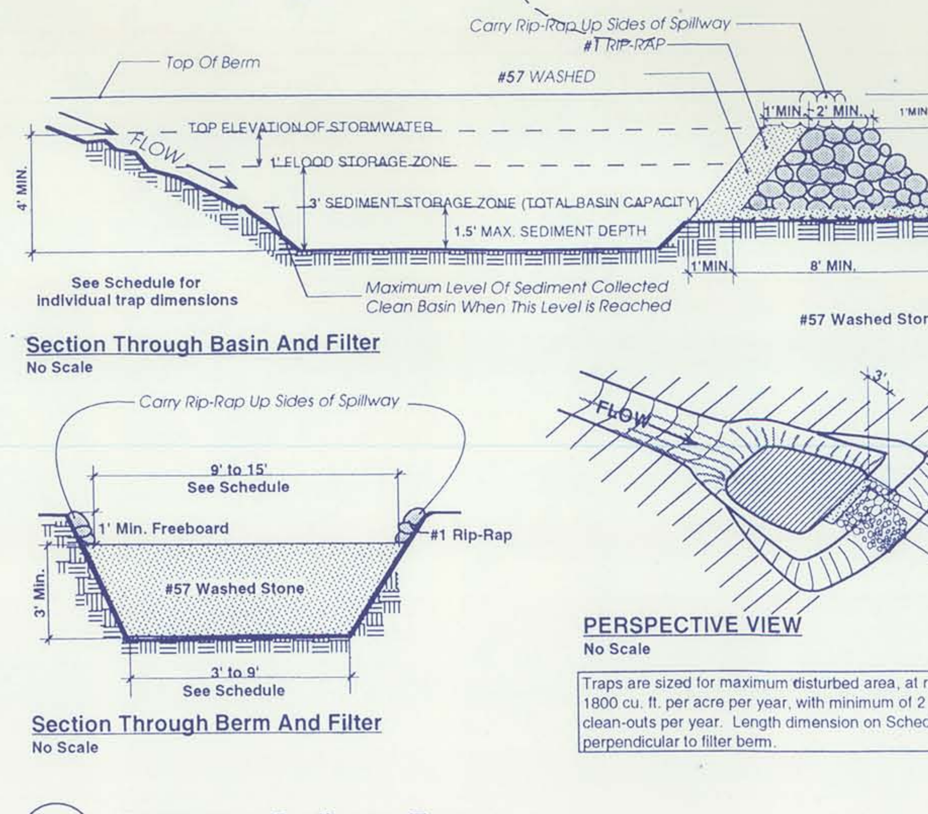
PROPERTY BOUNDARY FROM SURVEY FOR CURRIN BROS., INC., DATED JANUARY 15, 1994, BY MAULDIN-WATKINS SURVEYING, P.A.
TOPO FROM USGS BAYLEAF QUADRANGLE NORTH CAROLINA 7.5 MINUTE SERIES (TOPOGRAPHIC). TOPO CONFIRMED WITH SURVEYED SECTIONS BY MAULDIN-WATKINS SURVEYING, P.A.

TOTAL SITE ACREAGE: 62.948 Ac.
TOTAL DISTURBED AREA IN PHASE ONE: 43.74 Ac. (1,905,314 SF)

Culvert #	10 Yr. Peak Q	Length x Dia. C.M.P.	Head-water Depth	Min. Slope	Max. Slope	Max. Velocity	Invert In	Invert Out	Outlet Protection (See Detail)
C-1	14.8 CFS	80' x 24" R.C.P.	1.9 Ft.	2.5%	2.5%	7.1 FPS	379.50	377.50	NCDOT Class B Riprap 22" min. thickness 6' W x 12' L

NOTES:
Research in the area has revealed little or no ground water within several hundred feet of the surface. Drill reports from Goldston Well Company are included in the project manual for documentation purposes. Proposed excavation of this site is not expected to encounter any groundwater; however, should groundwater be encountered, sufficient fill will be placed to provide a minimum of 4' between the water table and the bottom elevation of the land clearing and inert debris. In addition, where bedrock is encountered, contractor shall maintain soil a minimum of 4 feet above bedrock thereby insuring subsurface drainage over bedrock is maintained without contact with debris. (2)

The operation of the LCID landfill shall be in accordance with the operational requirements as outlined under Rule .0566 of NC Solid Waste Management Rules 15A NCAC 13B as amended through January 4, 1994 as prepared by the NC Department of Environment, Health, and Natural Resources, Solid Waste Section.



Temporary Sediment Trap
Not to Scale

Note: This plan was prepared through a joint venture between Ballentine Associates and Little & Little.

Durham County I.C.L.D. Landfill Sediment Trap/Filter Berm Schedule				10/25/94
TRAP	Disturbed Area	Sediment Storage	Dimensions L x W x D	Filter Berm Top Width x Bottom Width
Trap A	2.89 Ac.	2620 Cu.Ft.	44' x 20' x 4'	15' x 9'
Trap B	2.19 Ac.	1987 Cu.Ft.	33' x 20' x 4'	15' x 9'
Trap C	1.51 Ac.	1370 Cu.Ft.	23' x 20' x 4'	15' x 9'

Notes: Traps are sized for maximum disturbed area with 2 clean-outs per year.
Length dimension is perpendicular to filter berm.

LEGEND

- R.C.P. PIPE
- INLET PROTECTION
- TEMP. DIVERSION DITCH
- PERMANENT DITCH
- SILT FENCE
- ROCK CHECK DAM
- SEDIMENT TRAP

CONSTRUCTION SEQUENCE
1. Obtain erosion control permit from Durham County.
2. Obtain driveway permit from NCDOT.
3. Install construction entrance and Culvert 1.
4. Install silt fence below the basins as shown on the plans.
5. Install Sediment Traps B and C and diversion ditches in Areas 3 and 9.
6. Clear and grubb portions of Areas 3 & 9 and areas for Sediment Basins.
7. Install the two riser basins using soil from Areas 3 and 9 for the construction.
8. Install Ditches 1, 2, & 3 and Sediment Trap A along northern property line.
9. Install Temporary Phase 1 Diversion Ditch from Coley Road toward South Sediment Basin.
10. Call for inspection of devices by Durham County Sediment & Erosion Control inspector.
11. Clear and grub area to be initially excavated (Area 1 and a portion of Area 3).
12. Excavate Area 1 and build the berm adjacent to SR 1900 and the northern property line installing Ditch 4 along side of berm. Maintain Positive drainage from excavation in Areas 1 and 3 to North Sediment Basin.
13. Stabilize the exterior slope of the berm per the seeding schedule on the plans.
14. Begin fill and grade operations for Area 1 according to the plans as approved and permitted by the State. Borrow fill from Area 3.
15. Clear and grub next area of operations (uncleared portion of Area 3 and a portion of Area 5).
16. Excavate remaining Area 3 and stockpile in Area 5.
17. Begin fill and grade operations for Area 3 according to the plans as approved and permitted by the State. Continue fill operations for Area 1. Borrow fill from Area 5.
18. Install Ditches 5 & 6 during fill operations.
19. Stabilize the exterior slopes per the seeding schedule on the plans.
20. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
21. Clear and grub next area to be excavated (Area 2 and the remainder of Area 5).
22. Install Culvert 2, Ditch 10, and inlet and outlet protections.
23. Excavate Area 2 and build the berm adjacent to SR 1900 over Culvert 2. Maintain Positive drainage from excavation to North Sediment Basin.
24. Begin fill and grade operations for Area 2 according to the plans as approved and permitted by the State. Continue fill operations for Area 1. Borrow fill from Area 5.
25. As the fill is increased in the berm along Coley Road, extend Ditch 4 along slope as shown on the plans.
26. Continue to stabilize the exterior slopes per the seeding schedule on the plans.
27. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
28. Clear and grub next area to be excavated (uncleared portion of Area 5, Area 4, and a portion of Area 6 adjacent to Area 5).
29. Begin fill and grade operations for Area 5 according to the plans as approved and permitted by the State. Continue Fill operations for areas 2, and 3. Complete fill operations for Area 1. Borrow fill from Area 4 and a portion of Area 6 maintaining positive drainage to North Sediment Basin.
30. Stabilize the exterior slopes and Area 1 per the seeding schedule on the plans.
31. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
32. Clear and grub next area to be excavated (uncleared portion of Area 6).
33. Begin fill and grade operations for Area 4 according to the plans as approved and permitted by the State. Continue fill operatins for Area 2. Borrow fill from Area 6.
34. Install remainder or Ditch 4 and Ditches 8 & 9.
35. Stabilize the exterior slopes per the seeding schedule on the plans.
36. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
37. Clear and grub next area to be excavated (Area 7).
38. Begin fill and grade operations for Area 6 according to the plans as approved and permitted by the State. Continue fill operations for Area 5. Complete fill operations for Areas 2 & 4. Borrow fill from Area 7.
39. Stabilize the exterior slopes and Areas 2 & 4 per the seeding schedule on the plans.
40. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
41. Install Ditch 7.
42. Clear and grub next area to be excavated (Area 8).
43. Begin fill and grade operations for Area 7 according to the plans as approved and permitted by the State. Continue fill operations for area 5 and complete operations for Area 6. Borrow fill from Area 8.
44. Stabilize the exterior slopes and Area 6 per the seeding schedule on the plans.
45. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
46. Install temporary diversion along clearing limits at Area 9.
47. Clear and grub remaining uncleared portion of Area 9.
48. Begin fill and grade operations for Area 8 according to the plans as approved and permited by the State. Complete fill operations for Areas 5 & 7. Borrow fill from Area 9.
49. Stabilize the exterior slopes and Areas 5 & 7 per the seeding schedule on the plans.
50. Maintain the sediment control devices according to the plans or as necessary to prevent overtopping and off site siltation.
51. Renew permits as required by law. Submit plans for Areas 9, 10, 11, & 12 before proceeding with landfill operations in these Areas.

LITTLE & LITTLE
LANDSCAPE ARCHITECTURE / PLANNING
P.O. BOX 1448 RALEIGH, NORTH CAROLINA 27602 919/821-5645

NORTH CAROLINA PROFESSIONAL SEAL 6507 ENGINEER J. BRUCE BALLENTINE

For Review and Approval

Land Clearing and Inert Debris Landfill
State Road 1900, Durham County, NC

EXCAVATION PLAN
PHASE 1 - FUTURE PHASE 2

North

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT MACK LITTLE

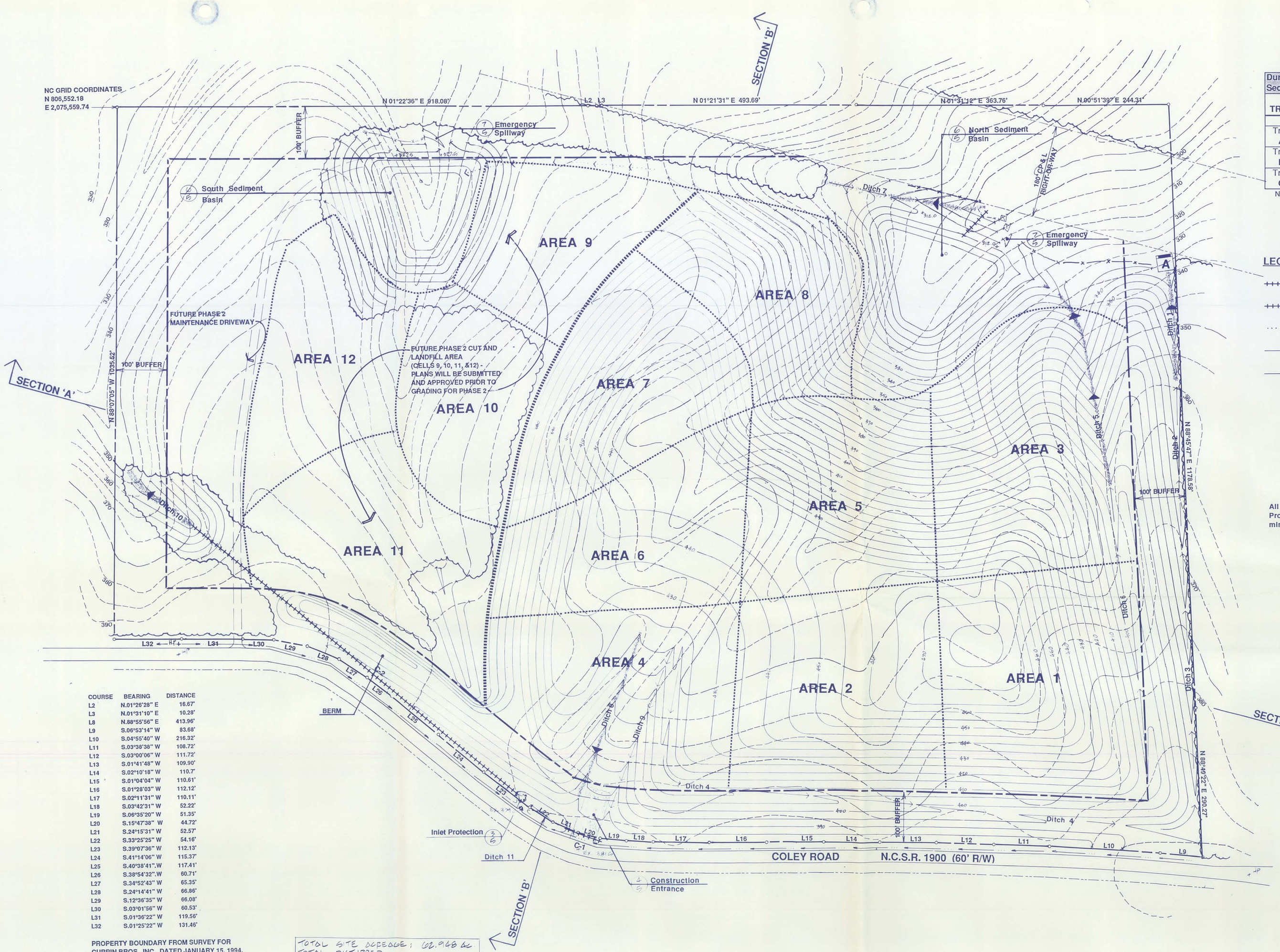
Scale: 0 50 100 200 300

Date
30 AUGUST 1994. FOR REVIEW AND APPROVAL BY DEHNR
(1) 18 NOVEMBER 1994. REVISED PER DURHAM CO. S&E REVIEW
(2) 12 DECEMBER 1994 PER DEHNR COMMENTS

Sheet: 2 of Seven

Job Number:

A-1 B-1 L-1
A-1 B-1 L-1



COURSE	BEARING	DISTANCE
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PROPERTY BOUNDARY FROM SURVEY FOR CURRIN BROS., INC., DATED JANUARY 15, 1994, BY MAULDIN-WATKINS SURVEYING, P.A. TOPO FROM USGS BAYLEAF QUADRANGLE NORTH CAROLINA 7.5 MINUTE SERIES (TOPOGRAPHIC). TOPO CONFIRMED WITH SURVEYED SECTIONS BY MAULDIN-WATKINS SURVEYING, P.A.

TOTAL SITE ACREAGE: 62.968 AC
TOTAL DISTURBED AREA IN PHASE ONE: 43.74 AC. (1,906,314 SF)

Culvert #	10 Yr. Peak Q	Length x Dia. C.M.P.	Head-water Depth	Min. Slope	Max. Slope	Max. Velocity	Invert In	Invert Out	Outlet Protection (See Detail)
C-1	14.8 CFS	80' x 24" R.C.P.	1.9 Ft.	2.5%	2.5%	7.1 FPS	379.50	377.50	NCDOT Class B Riprap 22" min. thickness 6' W x 12' L
C-2	29.8 CFS	840' x 30" R.C.P.	2.7 Ft.	2.0%	2.0%	12.8 FPS	375.30	358.50	NCDOT Class B Riprap 22" min. thickness 12' W x 160' L

Note: This plan was prepared through a joint venture between Ballentine Associates and Little & Little.

Durham County I.C.L.D. Landfill Sediment Trap/Filter Berm Schedule				10/25/94
TRAP	Disturbed Area	Sediment Storage	Dimensions L x W x D	Filter Berm Top Width x Bottom Width
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Notes: Traps are sized for maximum disturbed area with 2 clean-outs per year.
Length dimension is perpendicular to filter berm.

LEGEND

- R.C.P. PIPE
- INLET PROTECTION
- TEMP. DIVERSION DITCH
- PERMANENT DITCH
- SILT FENCE
- ROCK CHECK DAM
- SEDIMENT TRAP

All permanent slopes are 3:1 - Provide 10 foot wide bench with 2% min slope every 30 vertical feet.

Seeding Schedule and Seedbed Preparation Notes

SEEDING SCHEDULE FOR ALL GRASSED AREAS

PLANTING DATES	SEED MIX	RATES: LBS/ACRE
March 1 - June 1	Sericea lespedeza (scarified)	50
	KY-31 Fescue	120
June 1 - September 1	KY-31 Fescue	120
	Sorghum - Sudan hybrids	50
September 1 - March 1	Sericea lespedeza (unhulled, unscarified)	70
	KY-31 Fescue	120
	Abruzzi rye	25

Fertilize seedbeds with 2 tons/acre lime and 500 lbs /acre 10-20-20

Mulch with 2 tons/acre clean straw or hay.

Tack with rapid setting emulsified asphalt at 10 gal./1000 sq. ft., or other tacking agent approved by Owner.

SEEDBED PREPARATION NOTES

1. Surface water control measures are to be installed according to plan.
2. Areas to be seeded shall be ripped and spread with topsoil (if available), 3" deep. Total seedbed prepared depth shall be 4" to 6" deep.
3. Loose rocks, roots and other obstructions shall be removed from the surface so that they will not interfere with establishment and maintenance of vegetation. Surface for final seedbed preparation, at finish grades shown, shall be reasonably smooth and uniform.
4. If no soil test is taken, fertilizer and lime shall be according to the seeding specifications above. In addition, provide 15 lbs./1000 sq. ft. of super-phosphate.
5. If soil test is taken, provide lime and fertilizer according to the soil test report. A soil test is recommended.
6. Lime and fertilizer shall be applied uniformly and mixed with the soil during seedbed preparation.
7. WATER all seeded areas and ~~keep~~ moist until new grass is established.

Seeding Schedule and Seedbed Preparation Notes

LITTLE & LITTLE
LANDSCAPE ARCHITECTURE / PLANNING
P.O. BOX 1448 RALEIGH, NORTH CAROLINA 27602 919/821-5645

NORTH CAROLINA PROFESSIONAL SEAL 6507 ENGINEER J. BRUCE BALLENTINE

For Review and Approval

Land Clearing and Inert Debris Landfill
State Road 1900, Durham County, NC

FILL PLAN
PHASE 1

North

Scale: 0 50 100 200 300

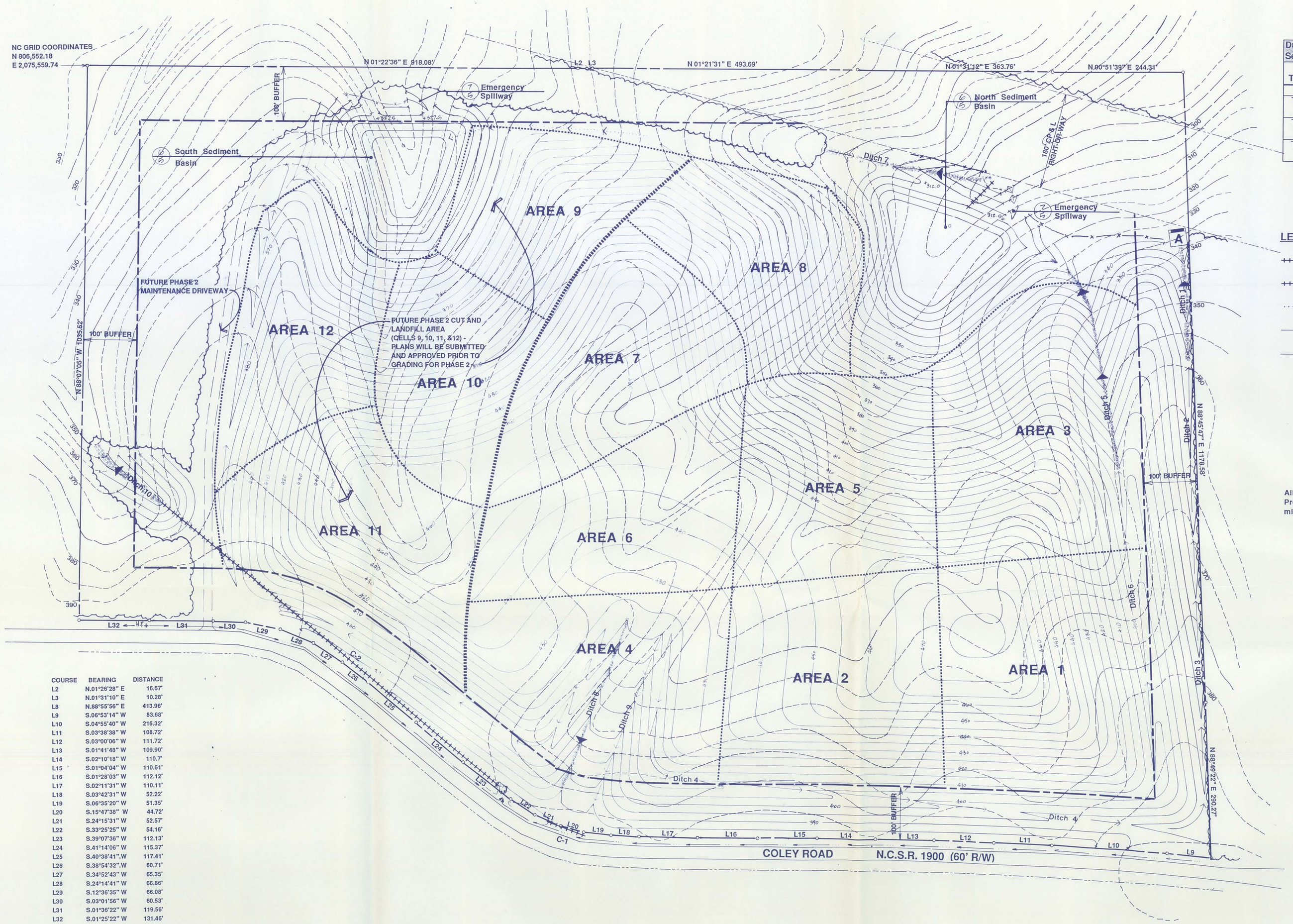
NORTH CAROLINA PROFESSIONAL SEAL 023 ARCHITECT MACK LITTLE

Date
30 AUGUST 996 - FOR REVIEW & APPROVAL BY DENHR
18 NOVEMBER 996 - REVISED PER DURHAM CO. S&E REVIEW
2 DECEMBER 996 PER DENHR COMMENTS

Sheet: 3 of Seven

Job Number:

Note: This plan was prepared through a joint venture between Ballentine Associates and Little & Little.



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TOTAL SITE ACREAGE: 62.948 AC
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Durham County I.C.L.D. Landfill Sediment Trap/Filter Berm Schedule				10/25/94
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Notes: Traps are sized for maximum disturbed area with 2 clean-outs per year.
Length dimension is perpendicular to filter berm.

LEGEND

- R.C.P. PIPE
- INLET PROTECTION (3/5)
- TEMP. DIVERSION DITCH (2/5)
- PERMANENT DITCH
- SILT FENCE (5/5)
- ROCK CHECK DAM (11/5)
- SEDIMENT TRAP (1/2)

All permanent slopes are 3:1 - Provide 10 foot wide bench with 2% min slope every 30 vertical feet.

LITTLE & LITTLE
LANDSCAPE ARCHITECTURE/PLANNING
P.O. BOX 1448 RALEIGH, NORTH CAROLINA 27602 919/821-5645

NORTH CAROLINA PROFESSIONAL SEAL 6507 ENGINEER BRUCE BALLENTINE

For Review and Approval

Land Clearing and Inert Debris Landfill

State Road 1900, Durham County, NC

FILL PLAN

PHASE 1 - FUTURE PHASE 2

North

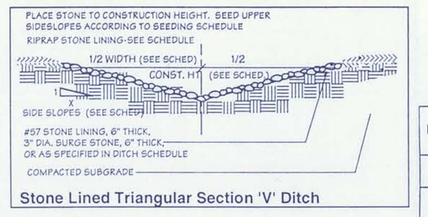
NORTH CAROLINA LANDSCAPE ARCHITECT MACK LITTLE

Scale: 0 50 100 200 300

Date
30 AUGUST 994, FOR REVIEW AND APPROVAL BY DEHNR
2 DECEMBER 994 PER DEHNR

Sheet: 4 of Seven

Job Number:



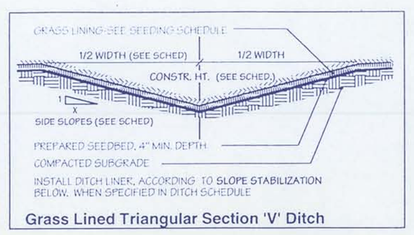
Stone Lined Triangular Section 'V' Ditch

Ditch #	C-L Slope	Construction Dimensions for Triangular 'V' Ditch with Riprap Lining: Ht. x Top W	Side Slope	Length	Lining	Reference
# 1	8.6%	1.5' x 9'	3 to 1	200 Ft.	NCDOT Class B Riprap 22" min. thickness	Install 1 permanent rock check dam
# 5	16.6%	1.25' x 7.5'	3 to 1	560 Ft.	NCDOT Class B Riprap 22" min. thickness	Install 2 permanent rock check dams
# 7	10.7%	1.25' x 7.5'	3 to 1	320 Ft.	NCDOT Class B Riprap 22" min. thickness	Install 1 permanent rock check dam
# 8	10.0%	1.25' x 7.5'	3 to 1	400 Ft.	NCDOT Class B Riprap 22" min. thickness	Install 1 permanent rock check dam
# 10	5.3%	2' x 12'	3 to 1	160 Ft.	NCDOT Class B Riprap 22" min. thickness	Install 1 permanent rock check dam

DITCH LINING SPECIFICATIONS

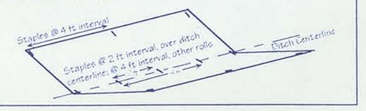
1. EXCAVATE TO SUFFICIENT DEPTH TO ALLOW FOR THICKNESS OF LINING.
2. WHERE D50 DIA. OF SPECIFIED (OR AVAILABLE) STONE LINING EXCEEDS 6", INSTALL 6" #57 CLEAN STONE, OR 6" OF 3" DIA. SURGE STONE, OR THICKNESS SPECIFIED IN SCHEDULE.

1/5 Stone Lined Ditches
Not to Scale



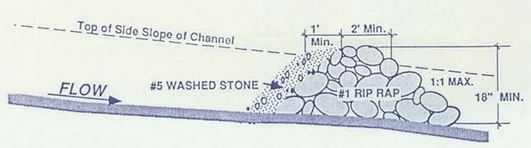
Grass Lined Triangular Section 'V' Ditch

CHANNEL STABILIZATION:
PREPARE, FERTILIZE, AND SEED DITCH SIDE SLOPES ACCORDING TO SEEDING SCHEDULE. IF EXCELSIOR MATTING IS SPECIFIED, AFTER SEEDING, INSTALL (CURLEX BY AMERICAN EXCELSIOR CO. OR EQUIVALENT), ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. INSTALL ROLLS CENTERED LENGTHWISE IN DITCH. USE 4 STAPLES ACROSS AT THE START OF EACH ROLL. STAPLE ALONG BOTH SIDES OF THE ROLL AT 4 FT. INTERVALS. USE A COMMON ROW OF STAPLES ON ADJOINING ROLLS. ALSO INSTALL STAPLES DOWN THE CENTERLINE OF EACH ROLL, AT 4 FT INTERVAL, STAGGERED 2 FT FROM THE SIDE STAPLES. FOR THE ROLL CENTERED OVER CENTER OF DITCH, INSTALL CENTERLINE STAPLES AT 2 FT INTERVALS.

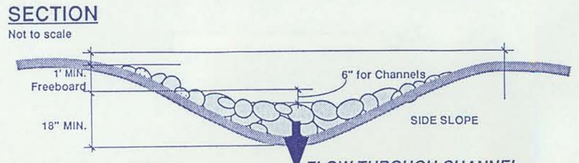


Ditch #	C-L Slope	Construction Dimensions for Triangular 'V' Ditch - Grass Lined: Ht. x Top W	Side Slope	Length	Lining
# 2	2.9%	2' x 12'	3 to 1	340 Ft.	Grass w/ 3-4 ft. strip excelsior lining
# 3	3.5%	2' x 12'	3 to 1	550 Ft.	Grass w/ 3-4 ft. strip excelsior lining
# 4	2.5%	2' x 12'	3 to 1	1300 Ft.	Grass w/ 3-4 ft. strip excelsior lining
# 6	2.2%	1.5' x 9'	3 to 1	620 Ft.	Grass w/ 2-4 ft. strip excelsior lining
# 9	10.0%	1' x 6'	3 to 1	400 Ft.	Grass w/ 3-4 ft. strip excelsior lining
# 11	2.0%	2' x 12'	3 to 1	110 Ft.	Grass w/ 3-4 ft. strip excelsior lining

10/5 Grass Lined Ditches
Not to Scale

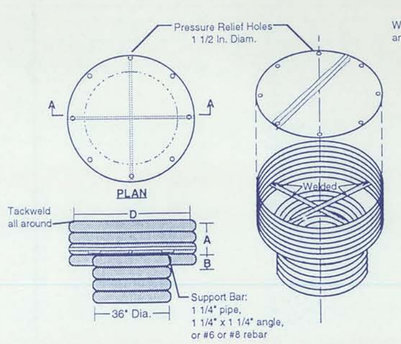


SECTION
Not to scale



CROSS SECTION

11/5 ROCK CHECK DAM
Not to scale



Top is 14 gauge corrugated metal or 1/8" steel plate. Pressure relief holes may be omitted, if ends of corrugations are left fully open when top is attached.

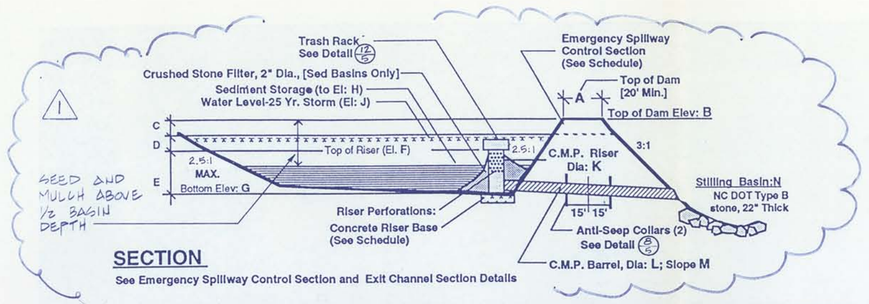
Cylinder is 16 gauge corrugated metal pipe or fabricated from 1/8" steel plate.

Notes:
1. The cylinder must be firmly fastened to the top of the riser.
2. Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

Refer to Pond Schedules.

1/5 Trash Rack & Anti-Vortex Device
Not to Scale

TRASH RACK	DIA.	RACK DIMENSIONS Gage	D	A	B	GAGE of TOP and Stiffener	Minimum Support Bar
North Basin	30 in.	16 g.	4 2 in.	1 5 in.	8 in.	14 g. none	#6 Rebar
South Basin	30 in.	16 g.	4 2 in.	1 5 in.	8 in.	14 g. none	#6 Rebar

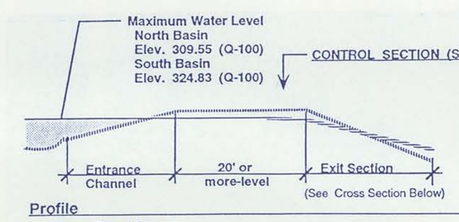


SECTION
See Emergency Spillway Control Section and Exit Channel Section Details

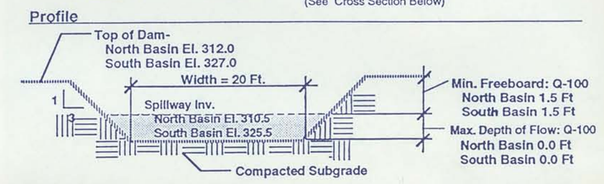
	Top of Dam: A Top Width	B Top Elev.	Basin Dimensions: C	D	E Riser Ht.	F Top of Riser El	G Bottom Elev	H Sediment Storage El.	Maximum Capacities: Stormwater Runoff Storage	Basin Capacity to Riser Inv	Maximum Sediment Storage	Sediment Clean Out Level	Peak Discharge Data: J 25 Yr. Storm El	Q-25 Inflow+ Outflow	Q-100
North Basin	15 Ft	312.0	1.5 Ft	4.5 Ft	6.0 Ft	306.0	300.0	303.0	54,000 CuFt	81,000 CuFt	27,000 CuFt	4.25 ft fr. top trash rack	310.0	85 CFS 39 CFS	124 CFS 94 CFS
South Basin	15 Ft	327.0	1.5 Ft	2.3 Ft	8.2 Ft	323.2	310.0	314.4	102,000 CuFt	119,000 CuFt	17,000 CuFt	10 ft fr. top trash rack	325.1	60 CFS 39 CFS	88 CFS 81 CFS

Primary Outlet	K Riser Dia.	L Barrel Dia.	M Barrel Slope	N Stilling Basin	Riser Gauge	PERFORATIONS per Row	Rows	Elev.	Imbed Riser 8" Into Base Concrete Riser Base	TRASH RACK RISER DIA.	RACK Gage	DIMENSIONS D	A	B	GAGE of TOP and Stiffener	Minimun Support Bar
North Basin	30 in	24 in	2.1%	6' W 15' L	14 Gauge 30 " C.M.P.	21-1/2" holes 4" apart	6 rows 8" apart	301.0 304.3	3'-3" x 3'-3" 3'.0"	30 in.	16 g.	4 2 in.	1 5 in.	8 in.	14 g. none	#6 Rebar
South Basin	30 in	24 in	1.7%	6' W 15' L	14 Gauge 30 " C.M.P.	21-1/2" holes 4" apart	6 rows 8" apart	315.5 318.8	3'-6" x 3'-6" 3'.0"	30 in.	16 g.	4 2 in.	1 5 in.		14 g. none	#6 Rebar

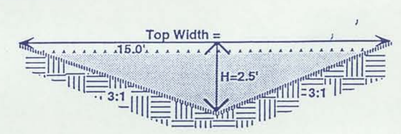
1/5 Sediment Basin
Not to Scale



Profile



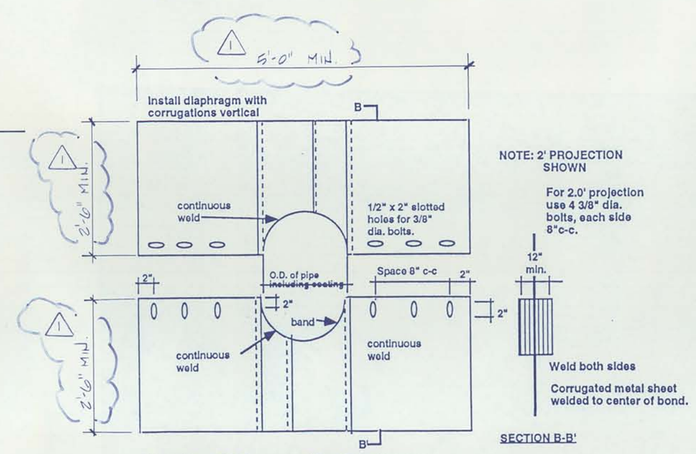
Control Section
(Cross Section)



Slopes Vary:
Place NCDOT Class B riprap on Exit Section slopes greater than 8%; otherwise, establish grass cover.

Exit Section (Cross Section from Control Section)

7/5 EMERGENCY SPILLWAY
NO SCALE Rev. 10-28-94

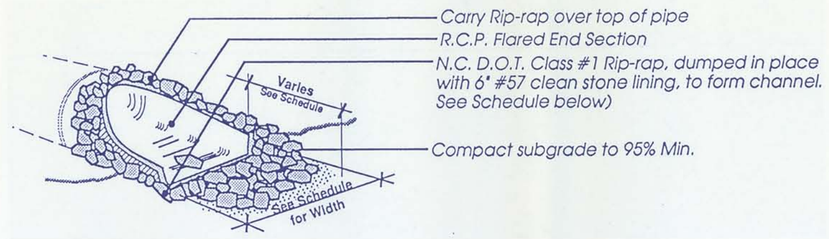


Elevation Of Unassembled Diaphragm

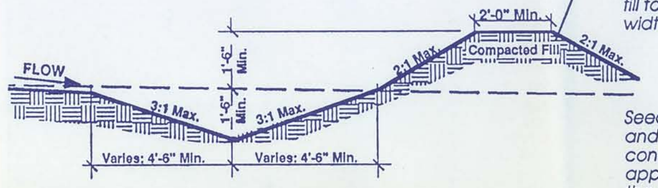
NOTES FOR DIAPHRAGM:

1. All material to be in accordance with construction and construction materials specifications.
2. When specified on the plans, coating shall be in accordance with construction and construction material specifications.
3. Unassembled diaphragms shall be marked by painting or tagging to identify matching pairs.
4. The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
5. Each diaphragm shall be furnished with two 1/2" dia. rods with standard tank lugs for connecting diaphragms to pipe.

8/5 Anti-Seep Collar
No Scale



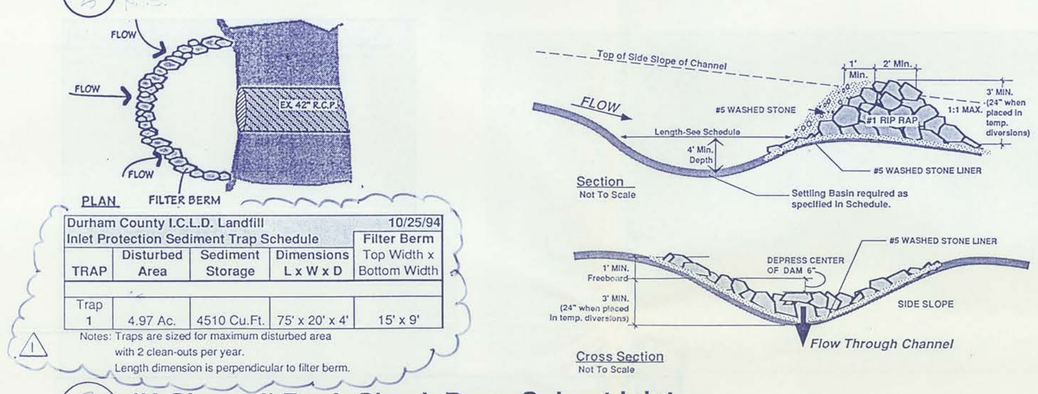
1/5 Outlet Protection
N.T.S.



Place material from excavation on downhill side of flow. Use additional fill to achieve specified height and width.

Seed and mulch diversion channel and dike immediately after construction. Choose an appropriate seeding mixture that is consistent with the seeding schedule.

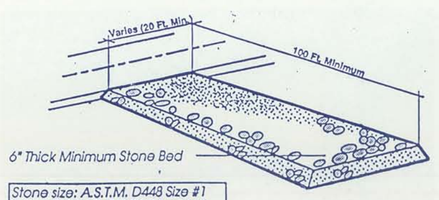
2/5 Temporary Diversion
N.T.S.



Durham County I.C.L.D. Landfill Inlet Protection Sediment Trap Schedule				10/25/94 Filter Berm
TRAP	Disturbed Area	Sediment Storage	Dimensions L x W x D	Top Width x Bottom Width
Trap 1	4.97 Ac.	4510 Cu.Ft.	75' x 20' x 4'	15' x 9'

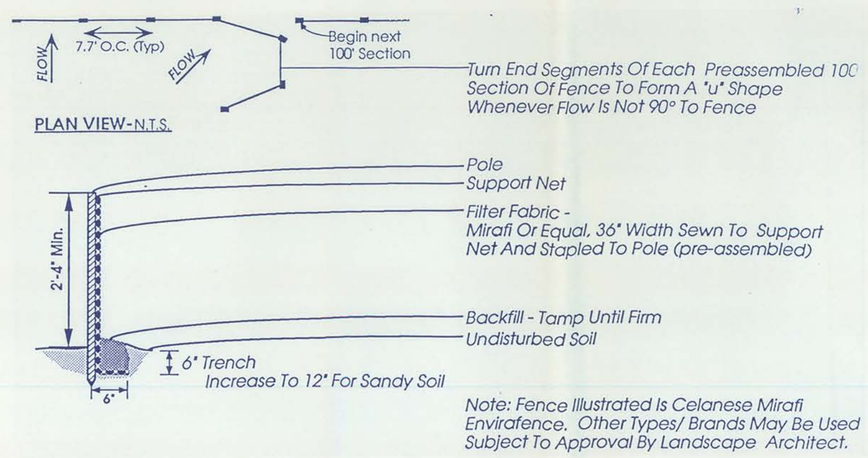
Notes: Traps are sized for maximum disturbed area with 2 clean-outs per year.
Length dimension is perpendicular to filter berm.

3/5 'U-Shaped' Rock Check Dam: Culvert Inlet
N.T.S.



Stone size: A.S.T.M. D448 Size #1 (1-1/2" to 3-1/2" Diameter)
Note: May require periodic top dressing with 2" stone

4/5 Construction Entrance
N.T.S.



Note: Fence Illustrated Is Celanese Mirafi Envirafence. Other Types/ Brands May Be Used Subject To Approval By Landscape Architect.

5/5 Silt Fence
N.T.S.

Note: This plan was prepared through a joint venture between Ballentine Associates and Little & Little.

LITTLE & LITTLE
LANDSCAPE ARCHITECTURE/PLANNING
P.O. BOX 1448 RALEIGH, NORTH CAROLINA 27602 919/821-5645

NORTH CAROLINA PROFESSIONAL SEAL 6507 ENGINEER BRUCE BALLENTINE

For Review and Approval

Land Clearing and Inert Debris Landfill
State Road 1900, Durham County, NC

Details

North

NORTH CAROLINA PROFESSIONAL SEAL 3 LANDSCAPE ARCHITECT MACK LITTLE

Scale: 0

Date
22 AUGUST 1994 - FOR REVIEW AND APPROVAL BY DEHNR
1 8 NOVEMBER 1994 REVISED PER DEHNR CO. ACE REVIEW
12 DECEMBER 1994 PER DEHNR COMMENTS

Sheet: 5 of Seven

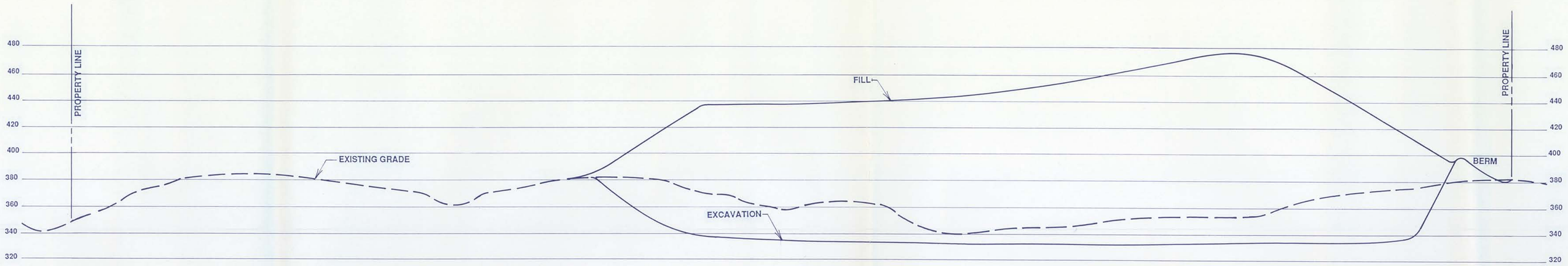
Job Number:

Note: This plan was prepared through a joint venture between Ballentine Associates and Little & Little.

LITTLE & LITTLE

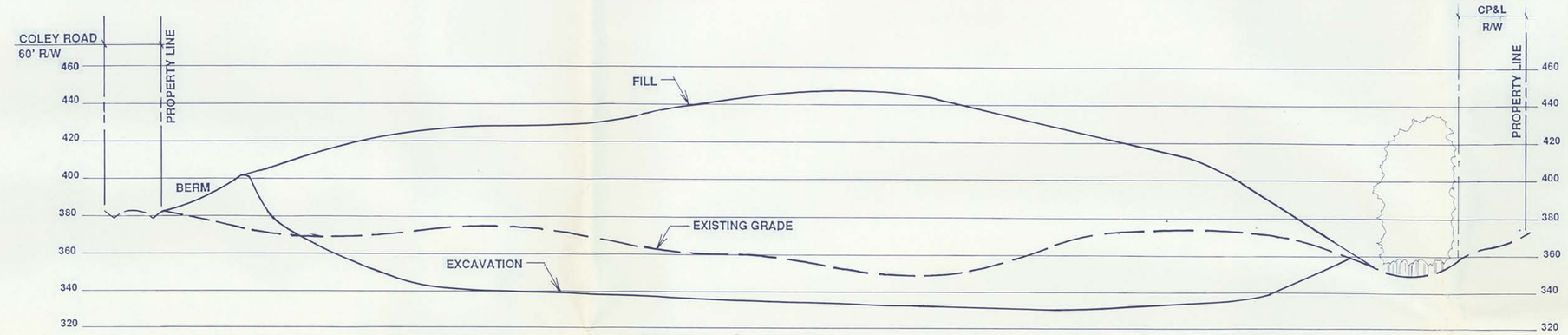
LANDSCAPE ARCHITECTURE/PLANNING

P.O. BOX 1448 RALEIGH, NORTH CAROLINA 27602 919/821-5645



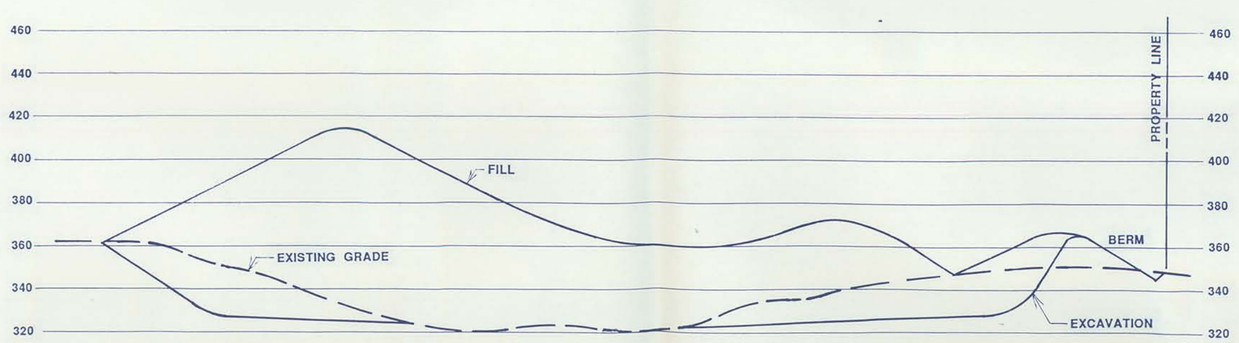
SECTION 'A'

SCALE: HORIZONTAL: 1"=100' / VERTICAL: 1"=50'



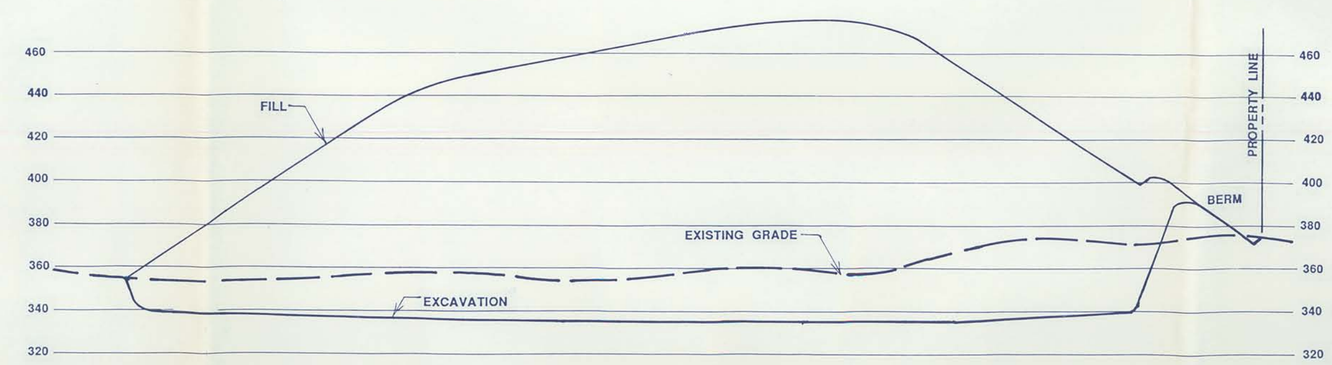
SECTION 'B'

SCALE: HORIZONTAL: 1"=100' / VERTICAL: 1"=50'



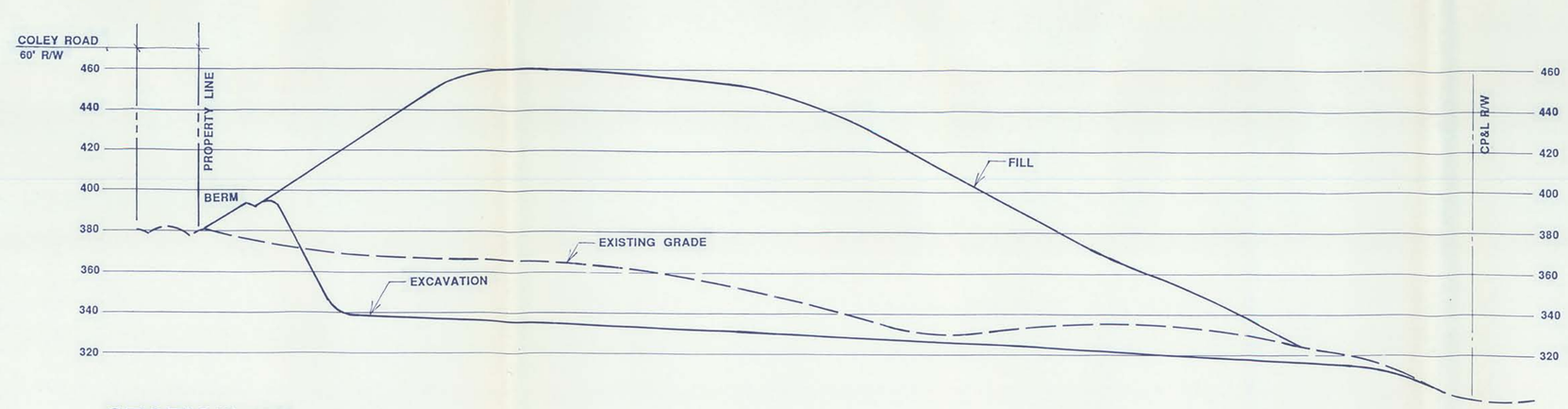
SECTION 'D'

SCALE: HORIZONTAL: 1"=100'/VERTICAL 1"=50'



SECTION 'C'

SCALE: HORIZONTAL: 1"=100'/VERTICAL 1"=50'



SECTION 'E'

SCALE: HORIZONTAL: 1"=100'/VERTICAL 1"=50'

For Review and Approval

Land Clearing and Inert Debris Landfill

State Road 1900, Durham County, NC

LANDFILL SECTIONS

North

Scale:

0

Date
30 AUGUST 1996 - FOR REVIEW AND APPROVAL BY DENR
12 DECEMBER 1996 - PER DENR COMMENTS

Sheet: 6 of Seven

Job Number:

U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT

Action ID._____ County Durham

GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION

Property Owner/Agent Currin Bros, Inc. c/o Allen Currin
Address ~~Rt 1~~ 1610 Wolfpack Lane
Raleigh, N.C. 27609
Telephone No. (919) 876-1138
Size and Location of project (waterbody, road name/number, town, etc.) 62.948 acres on W side of Coley Rd. (S.R. 1900), about 2,500 ft. N of S.R. 1902, E of Durham, about 1/2 mile W of Durham/Wake County line, N.C.
Description of Activity
Construction of sediment basins + filling of less than 1/3 of an acre of creek channels (no wetlands on site).

✓ Section 404 (Clean Water Act, 33 USC 1344) only.
___ Section 10 (River and Harbor Act of 1899) only.
___ Section 404 and Section 10.
26 Regional General Permit or Nationwide Permit Number.

Any violation of the conditions of the Regional General or Nationwide Permit referenced above may subject the permittee to a stop work order, a restoration order, and/or appropriate legal action.

This Department of the Army Regional General/Nationwide Permit verification does not relieve the undersigned permittee of the responsibility to obtain any other required Federal, State, or local approvals/permits. The permittee may need to contact appropriate State and local agencies before beginning work.

By signature below, the permittee certifies an understanding and acceptance of all terms and conditions of this permit.

Property Owner/Authorized Agent Signature Currin Bros. Inc. By: C Allen Currin
Regulatory Project Manager Signature Joan B. Moravala
Date May 26, 1994 Expiration Date May 26, 1996

SURVEY PLATS, FIELD SKETCH, WETLAND DELINEATION FORM, ETC., MUST BE ATTACHED TO THE YELLOW (FILE) COPY OF THIS FORM, IF REQUIRED OR AVAILABLE.

CESAW Form 591
Dec 1993

North Carolina Department of Cultural Resources

James B. Hunt Jr., Governor
Betty Ray McCain, Secretary

Division of Archives and History
William S. Price, Jr., Director

August 3, 1994

J. Andy Otten
Little & Little
P.O. Box 1448
Raleigh, NC 27602

Re: Inert debris landfill, Durham County
ER 95-7098

Dear Mr. Otten:

Thank you for your letter of July 14, 1994, concerning the above project.

We have conducted a review of the project and are aware of no properties of architectural, historic, or archaeological significance which would be affected by the project. Therefore, we have no comment on the project as currently proposed.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act of 1966 and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106, codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, please contact Renee Gledhill-Earley, environmental review coordinator, at 919/733-4763.

Sincerely,

David Brook
Deputy State Historic Preservation Officer

DB:slw

109 East Jones Street • Raleigh, North Carolina 27601-2807

Durham City County Planning Department

101 City Hall Plaza
Durham, NC 27701
(919) 560-4137
Fax 560-4641

March 16, 1994

Mr. Steve Deaton
6508 Falls of Neuse Road, Suite 100
Raleigh, NC 27615

Dear Mr. Deaton:

Based upon a letter dated February 28, 1994 from Jim Barber, Eastern Area Engineer of the Division of Solid Waste Management, Department of Environmental Health and Natural Resources, I have reviewed, via a request by Allen Currin, Currin Brothers, Inc., to determine the legality of a potential site for a Land Clearing and Inert Debris (LCID) permit for property located on Coley Road and further described on Tax Map 986, Block 1, Lot 4. This location has been submitted for consideration as a permitted use under the regulations of the Rural District zoning classification in the Durham County Zoning Ordinance prior to January 1, 1994.

Prior to January 1, 1994, a Land Clearing and Inert Debris (LCID) landfill was a permitted use in Rural District under the Durham County Zoning Ordinance. Therefore, since this location on Coley Road was under active consideration before January 1, 1994 for purchase, design, and permitting the Planning Department supports the final permit application conditioned upon State approval for conformance with North Carolina Solid Waste Management Rules (15A NCAC 13); Section .0500 - Disposal Sites, Paragraphs .0563 (Applicability Requirements for Land Clearing/Inert Debris Landfills); 0564 (Siting criteria for Land Clearing/Inert Debris Landfills); .0565 (Application Requirements for Land Clearing/Inert Debris Landfills) and .0566 (Operational Requirements for Land Clearing/Inert Debris Landfills).

Mr. Steve Deaton
March 16, 1994
Page 2

For your information, the merged Durham Zoning Ordinance, effective December 31, 1993 at 11:59 p.m. prohibits land clearing/inert debris landfills in the City and County of Durham Watersheds except for Jordan District B and Eno River District B areas.

If I can be of further assistance, please call me at 560-4137.

Sincerely,

Gerald E. Kelley
Assistant Director

GEK/bd

cc: Jim Barber, Eastern Area Engineer
Fayetteville Regional Office
226 Green Street, Suite 601
Fayetteville, NC 28301

Allen Currin
Currin Brothers, Inc.
P. O. Box 547
Fuquay-Varina, NC 27526

State of North Carolina
Department of Environment, Health and Natural Resources
Division of Parks & Recreation

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Dr. Philip K. McKnelly, Director

DEHNR

July 29, 1994

Mr. Andy Otten
Little & Little
P.O. Box 1448
Raleigh, NC 27602

SUBJECT: Rare Species and Significant Natural Areas in the Proposed Project Area Near Falls Lake in Durham County, NC

Dear Mr. Otten:

The North Carolina Natural Heritage Program does not have records of known rare species, high quality natural communities, or significant natural areas occurring at the proposed project site. To our knowledge, this project area has not been systematically inventoried and we cannot definitively state that rare species or significant natural areas do not occur there.

This project site is located on Rocky Branch which flows into Falls Lake State Park. Because this project site occurs along Rocky Branch, we recommend that erosion and siltation control measures be taken to reduce impacts to Falls Lake.

Located adjacent to the northwestern portion of the project site is a parcel of land that belongs to Falls Lake State Park. Also, located less than 0.5 mile north of this site is a significant natural area referred to as Lick Creek Bottomland Forest. This site is a Registered Natural Heritage Area and is considered to be of Regional Significance. Located at this registered area is a population of Cardamine douglassii (Douglass's bittercress) which is significantly rare in North Carolina. Due to its proximity, it is possible that this species may also occur at the project site.

Enclosed is a list of rare species that are known to occur in Durham County. If suitable habitat for any of these species occurs in the project area, then those species may be present at the project site. If it is necessary to be certain that this site does not contain rare species, a field survey would need to be conducted.

P.O. Box 27687, Raleigh, North Carolina 27611-7687 Telephone 919-733-4181 FAX 919-715-3085
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Mr. Otten
Page 2
July 28, 1994

Please contact me at the address below or call me at (919) 733-7701 if you have any questions or need further information.

Sincerely,

Inge Smith
Information Specialist
Natural Heritage Program

/iks

Enclosures

State of North Carolina
Department of Environment, Health and Natural Resources
Division of Parks & Recreation

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Dr. Philip K. McKnelly, Director

DEHNR

October 13, 1994

Mr. Andy Otten
Little & Little
P.O. Box 1448
Raleigh, NC 27602

LITTLE & LITTLE

SUBJECT: Rare Species and Significant Natural Areas in the Proposed Project Area Near Falls Lake in Durham County, NC

Dear Mr. Otten:

The North Carolina Natural Heritage Program answered an information request from you on July 29, 1994 about a project site on Rocky Branch, near Falls Lake State Park. In this response, reference was made to a population of Cardamine douglassii (Douglass's bittercress), a significantly rare plant in North Carolina, that occurs about 0.5 mile from the project site.

Due to this population's proximity to the project site, it is possible that this species may occur at there. This plant usually occurs in bottomlands and rich lower slopes, which apparently are not present at the project site. We do not require that a survey be conducted for this species. However, we do recommend that erosion and siltation control measures be taken to reduce impacts to Rocky Branch and Falls Lake State Park.

Please contact me at the address below or call me at (919) 733-7701 if you have any questions or need further information.

Sincerely,

Inge Smith
Information Specialist
Natural Heritage Program

/iks

Enclosures

P.O. Box 27687, Raleigh, North Carolina 27611-7687 Telephone 919-733-4181 FAX 919-715-3085
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Note: This plan was prepared through a joint venture between Ballentine Associates and Little & Little.

LITTLE & LITTLE

LANDSCAPE ARCHITECTURE/PLANNING

P.O. BOX 1448 RALEIGH, NORTH CAROLINA 27602 919/821-5645

NORTH CAROLINA PROFESSIONAL SEAL 6507 ENGINEER BRUCE BALLENTINE

For Review and Approval

Land Clearing and Inert Debris Landfill
State Road 1900, Durham County, NC

APPROVALS

North

Scale:
0

Date
30 AUGUST 1994 - FOR REVIEW AND APPROVAL BY DEHNR
12 DECEMBER 1994 PER DEHNR COMMENTS

Sheet: 7 of Seven

Job Number: