SPECIAL PERMIT APPLICATION RENEWAL PLAN

OCCOQUAN QUARRY EXPANSION

MOUNT VERNON MAGISTERIAL DISTRICT

FAIRFAX COUNTY, VIRGINIA

SUBMITTED PURSUANT TO REQUIREMENTS OF FAIRFAX COUNTY ZONING ORDINANCE SECTION 8 – 011

FAIRFAX COUNTY ZONING TAX MAP

SCALE: 1" = 500'

(FOR ILLUSTRATION PURPOSES ONLY)

GENERAL NOTES:

1. THE PROPERTY SHOWN HEREON IS PRESENTLY IN THE NAME OF (AS LISTED BELOW), AMONG THE LAND RECORDS OF FAIRFAX COUNTY, VIRGINIA.
   - A) VULCAN MATERIALS COMPANY
     DEED BOOK 7654, PAGE 208
     TAX MAP: 106-3-1-PART OF 48
     ZONE: R-1
     USE: OTHER
   - B) NEWTON ASPHALT COMPANY
     TAX MAP: 106-3-1-P/O 48
     106-4-1-P/O 54
     112-2-1-12
     ZONE: R-1 AND I-6
     USE: OTHER
   - C) U.S. GOVERNMENT, D.C. DEPT. OF CORRECTIONS
     TAX MAP: 112-2-1-13
     112-2-1-P/O 9
     112-2-1-P/O 11
     112-2-1-P/O 8
     ZONE: R-1
     USE: OTHER
2. NO TITLE REPORT FURNISHED
3. CTI CONSULTANTS, INC. DOES NOT CERTIFY TO THE EXISTANCE OF ANY UNDERGROUND UTILITIES ON THIS SITE
4. a) STORM WATER MANAGEMENT/BMP FACILITIES WILL BE HANDLED BY UTILIZING THE EXISTING QUARRY PIT FLOOR AND PUMPING TO THE EXISTING SETTLING POND.
   b) DEVELOPMENT WITHIN THE EXPANSION AREA SHALL COMPLY WITH THE REQUIREMENTS OF THE CHESAPEAKE BAY PRESERVATION ACT.
5. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON IS TAKEN FROM AN AERIAL SURVEY PERFORMED BY BELL MAPPING COMPANY (WINSTON-SALEM, N.C.) IN OCTOBER 1992, WITH A CONTOUR INTERVAL OF 5 FEET (5.0').
3 6. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO NEW STRUCTURES PROPOSED FOR THIS SITE; HOWEVER THE EXISTING PRIMARY CRUSHER MAY BE RELOCATED IN THE FUTURE.
7. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO GRAVES ON THIS SITE.
8. THE MINIMUM YARDS WILL BE IN ACCORDANCE WITH SECTION 8-105, PARAGRAPH 4 AND 6 OF THE FAIRFAX COUNTY ZONING ORDINANCE. THERE WILL ALSO BE A 200 FOOT BUFFER ALONG THE NORTHERN PROPERTY LINE OF THE APPROVED EXPANSION AREA, AS SHOWN ON THE SPECIAL PERMIT APPLICATION AND A 100.0' BUFFER RUNNING WITH THE PERIMETER OF THE WESTERN BOUNDARY OF PARCEL 12.
9. THE DEVELOPMENT (MINING) OF THIS PROPERTY WILL COMMENCE AS SOON AS THE REQUIRED COUNTY APPROVALS AND NECESSARY PERMITS ARE OBTAINED.
10. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO HAZARDOUS OR TOXIC SUBSTANCES AS SET FORTH IN TITLE 40, CODE OF FEDERAL REGULATIONS PARTS 116.4, 302.4 AND 355 ON THE QUARRY AREA. IN ADDITION THERE ARE NO HAZARDOUS WASTE ON THE AREA AS SET FORTH IN COMMONWEALTH OF VA. DEPT. OF WASTE MANAGEMENT REGULATION VR 672-10-1-VA. HAZARDOUS WASTE MANAGEMENT REGULATIONS. THE CHEMICALS AND PETROLEUM PRODUCTS ANTICIPATED FOR USE AT THE SITE AREA, IN CONJUNCTION WITH QUARRY EQUIPMENT AREAS ARE AS FOLLOWS:
    GASOLINE, DIESAL FUEL, ENGINE GEAR & WASTE OIL, HYDRAULIC FLUID, GREASES, ANTI-FREEZES AND FUEL CONDITIONER.
11. PARKING TABULATION:
    PARKING REQUIREMENTS FOR THIS SITE WERE BASED ON MANUFACTURING/PREPARTION OPERATION PURSUANT TO SECTION 11-105, PARAGRAPH (1).
    REQUIRED PARKING: ONE (1) SPACE PER ONE (1) EMPLOYEE ON MAJOR SHIFT
    ONE (1) SPACE PER COMPANY VEHICLES
    ONE (1) SPACE FOR PIECE OF MOBILE EQUIPMENT
    (PARKING PROVIDED BY UTILIZING THE EXISTING PARKING SPACES LOCATED ON THE EXISTING QUARRY SITE.)
12. ON-SITE TRAFFIC CIRCULATION WILL BE HANDLED BY HAUL ROADS THRU THE EXISTING QUARRY. THE LOCATIONS OF THE ROADS ARE BASED ON SITE RESTRAINTS RELATIVE TO MINING CONDITIONS, AND MAY CHANGE LOCATIONS FREQUENTLY. PENIWILL DRIVE, OFF ROUTE 123, IS NOT INTENDED TO BE USED AS A PRIMARY/SECONDARY ACCESS ROAD, NOR TO AUGMENT THE EXISTING ROAD. HOWEVER, WHEN REQUIRED, WILL BE USED AS AN EMERGENCY ACCESS.
13. TRAILS TO BE PROVIDED AS PER THE FAIRFAX COUNTY COMPREHENSIVE PLAN.
1 14. a) LANDSCAPING AND SCREENING WILL BE PROVIDED AS PER SECTION 13-300 OF THE FAIRFAX COUNTY ZONING ORDINANCE; HOWEVER, TWO ROWS OF WHITE PINES SHALL BE PROVIDED AS SHOWN IN THE DETAIL (SHEET 3 OF 9) ON THE NORTHERNLY AND EASTERNLY BERMS, PROVIDED IN SP-92-V-027.
    b) TREE COVER, ON-SITE, WILL BE UNDISTURBED AND MAINTAINED AS LONG AS POSSIBLE.
15. MAXIMUM FAR SHALL NOT EXCEED THE ALLOWABLE AS PER THE FAIRFAX COUNTY ZONING ORDINANCE FOR THE APPROPRIATE ZONING DISTRICT AS FOLLOWS:

ZONE	FAR ALLOWABLE	FAR PROVIDED	COMMENTS
R-1	0.15	——	POSSIBLE LOCATION CRUSHER RELOCATION
R-C	0.10	——	SAME AS ABOVE

16. CREEK DELINEATION IS SHOWN AS DETAILED ON CURRENT USGS MAPPING.
17. EQC LIMITS ARE SHOWN IN ACCORDANCE WITH THE 15% SLOPE CRITERIA.
18. IF REQUIRED BY PUBLIC FACILITIES MANUAL AS PART OF SITE PLAN APPROVAL, A FIELD STUDY TO DETERMINE THE FIELD LIMITS OF THE EQC AREA WILL BE CARRIED OUT PRIOR TO SITE PLAN APPROVAL.
19. VULCAN MATERIALS COMPANY RESERVES THE OPTION TO STORE EXCAVATED MATERIAL AROUND THE PERIMENTER OF THE PIT AREA; HOWEVER, NO MATERIAL WILL BE STORED CLOSER THAN 200.0' FEET FROM PENNIWILL DRIVE.
20. THE AVERAGE OVERBURDEN THICKNESS COVERING THE QUARRY AREA IS 23.5± ACRES.
21. THE PROPOSED SURFACE TREATMENT FOR ALL INTERNAL ROADS WILL CONTINUE TO BE AN ALL WEATHERED STONE SURFACE.
22. THE SITE IS SERVED BY PUBLIC WATER.
23. THE SITE IS SERVED BY AN EXISTING AND APPROVED SEPTIC FIELD.
24. PARKING PROVIDED:

AREA/USE	REQUIRED	PROVIDED
OFFICE	5 SPACES	10 SPACES
HANDICAPPED SPACES	1 SPACE	1 SPACE
EMPLOYEE PARKING	50 SPACES	52 SPACES
MOBILE EQUIPMENT	18 SPACES	18 SPACES

SITE TABULATIONS:

SPECIAL PERMIT APPLICATION AREA	305.4± AC 3
SITE AREA OF EQC/WILDLIFE HABITAT/ BUFFER ON VULCAN MATERIALS PROPERTY	31.4± AC.
SITE AREA OF 100.0' GREENBELT AREA ON NEWTON ASPHALT PROPERTY	9.7± AC
SITE AREA OF EQC LIMITS ON LEASED D.C. PROPERTY	25.0± AC
SITE AREA OF BERM/OPEN SPACE/ACCESS ROAD ON VULCAN MATERIALS PROPERTY	15.4± AC 3
SITE AREA OF PROPOSED PIT ON VULCAN MATERIALS PROPERTY	39.0± AC 3
SITE AREA OF PIT ON LEASED D.C. PROPERTY	36.0± AC
SITE AREA OF PIT ON LEASED NEWTON ASPHALT PROPERTY	62.8± AC

NO	DESCRIPTION	DATE	DRAWN	CHECKED
3	PROPOSED QUARRY EXPANSION ADDED			
2	ADD NOTE UNDER MAP	2/23/95	LADI	
1	REVISED NOTES 6 & 14	1/3/95	MJ	

Application No. SPA 82-V-091-4

APPROVED SE/(SP) PLAT

SEE DEVELOPMENT CONDITIONS

Director (DES) (BZA) approval May 2, 2001

Staff Coordinator Jennifer Josiah

Sheet 1 of 12

CHRIS STEVENSON Lic. No. 012378 12/29/00 PROFESSIONAL ENGINEER

STEVENSON AND STEWART, INC.
CIVIL ENGINEERING ■ SURVEYING ■ STRUCTURAL ENGINEERING ■ PROJECT MANAGEMENT
14221-B WILLARD ROAD SUITE 100
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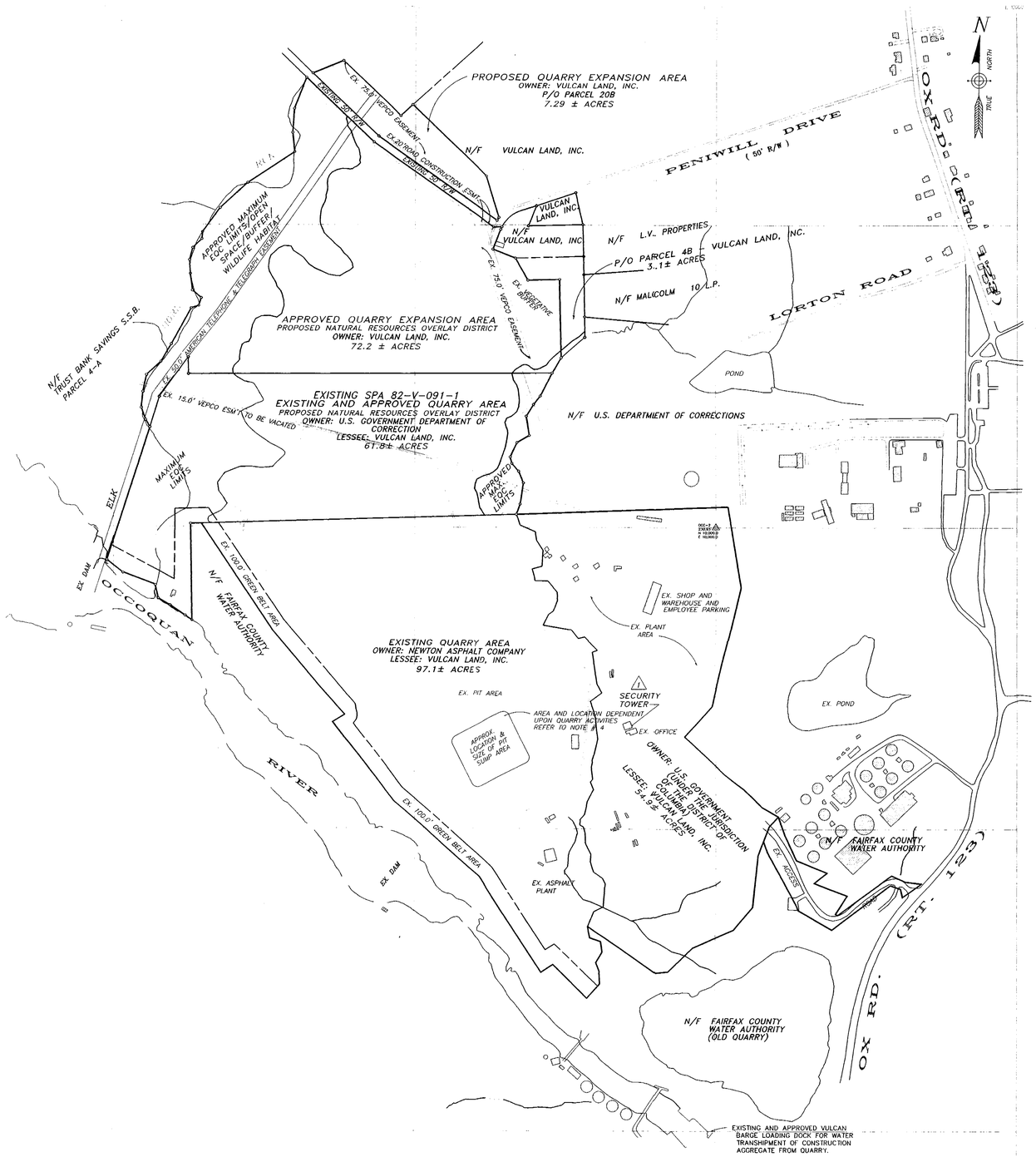
CTI CONSULTANTS INC

Vulcan Materials Company

DESIGNED	DRAWN	CHECKED	APPROVED	JOB NO.
N/A	RRY	RS		201150
SCALE	DATE			TAX MAP
1" = 500'	JANUARY 4, 2001			
	SHEET 1 OF 9			

RECEIVED
DEPARTMENT OF PLANNING AND ZONING
JAN 24 2001
ZONING EVALUATION DIVISION

EXPIRES: 8 JAN 2001
DATE: JAN 26 2001



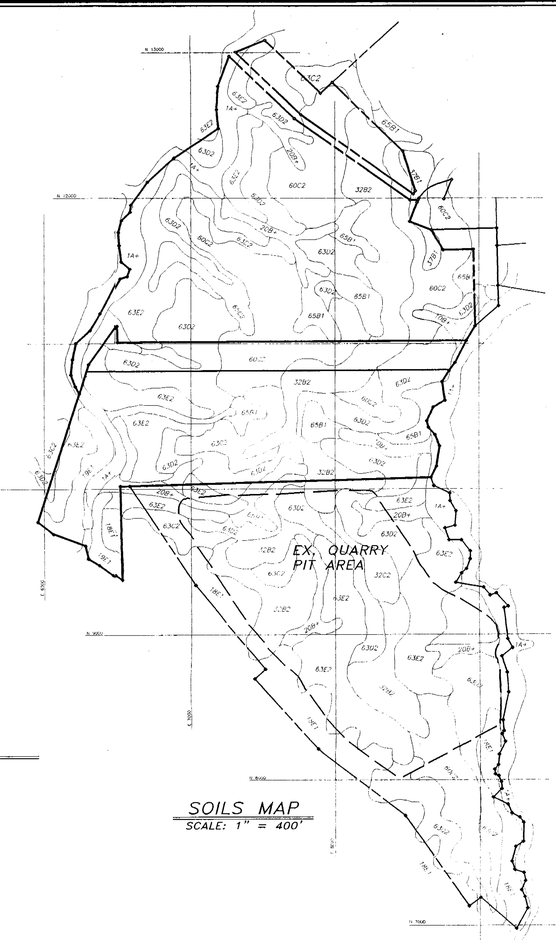
SCALE: 1" = 400'

SOILS SCHEDULE

SOIL ID NUMBERS	SERIES NAME	FOUNDATION SUPPORT	SUBSURFACE DRAINAGE	SLOPE STABILITY	ERODABILITY	GEOTECHNICAL REPORT REQ'D.
1A+	MIXED ALLUVIAL	POOR F, B, W	POOR F, W	GOOD	SLIGHT	YES
10B+	GLENVILLE	POOR F, B, W	MARGINAL W	GOOD	MODERATE	MAYBE
20B+	MEADOWVILLE	POOR F, B, W	MARGINAL W	GOOD	MODERATE	MAYBE
18E1	MIXED ALLUVIAL	GOOD R	MARGINAL R	GOOD	MODERATE	NO
19E1	MIXED ALLUVIAL	GOOD R	MARGINAL R	GOOD	MODERATE	NO
32B2	FAIRFAX (SIC)	GOOD P	MARGINAL P	GOOD	SEVERE	MAYBE
37B1	BELTSVILLE	FAIR P	MARGINAL P	GOOD	MODERATE	MAYBE
60C2	APPLING	GOOD	GOOD	GOOD	SEVERE	NO
63C2	LOUISBURG	GOOD	GOOD	GOOD	SEVERE	NO
63D2	LOUISBURG	GOOD	GOOD	GOOD	SEVERE	NO
63E2	LOUISBURG	GOOD	GOOD	GOOD	SEVERE	NO
65B1	COLFAX	MARGINAL B, P	MARGINAL W, P	GOOD	MODERATE	MAYBE
65C2	COLFAX	MARGINAL B, P	MARGINAL W, P	GOOD	MODERATE	MAYBE

BEARING & DISTANCE TABLE:

1	N 34° 00' 06" W	56.13'	52	S 00° 20' 36" W	99.85'	102	S 66° 41' 25" E	94.82'
2	N 24° 12' 49" W	85.90'	53	S 70° 46' 06" W	71.59'	103	S 34° 03' 48" W	62.48'
3	N 02° 07' 11" E	105.84'	54	S 23° 27' 04" E	85.44'	104	S 09° 55' 48" W	201.72'
4	N 07° 50' 53" E	114.67'	55	N 86° 11' 26" E	86.15'	105	S 03° 48' 35" E	302.52'
5	N 43° 45' 43" E	130.17'	56	S 42° 28' 04" E	96.83'	106	S 29° 07' 10" W	174.50'
6	N 32° 48' 40" E	144.49'	57	S 03° 53' 54" E	53.08'	107	S 56° 04' 59" W	266.41'
7	N 67° 22' 00" E	50.90'	58	S 17° 18' 26" W	72.50'	108	S 37° 22' 47" W	204.41'
8	N 15° 16' 40" E	53.42'	59	S 43° 13' 06" W	45.45'	109	S 73° 41' 37" W	67.00'
9	N 53° 27' 55" W	77.44'	60	S 28° 13' 26" W	76.05'	110	S 38° 13' 22" E	122.16'
10	N 11° 28' 21" W	112.22'	61	S 84° 23' 04" E	194.81'	111	S 28° 35' 26" E	179.00'
11	N 07° 25' 35" W	90.86'	62	S 42° 23' 34" E	71.03'	112	S 80° 32' 11" E	234.17'
12	N 07° 25' 35" W	83.74'	63	N 67° 36' 26" E	45.61'	113	N 39° 46' 35" E	120.00'
13	N 42° 13' 09" E	84.37'	64	S 46° 09' 44" E	122.29'	114	S 85° 21' 04" E	232.09'
14	N 01° 15' 03" E	47.27'	65	S 65° 37' 16" W	30.36'	115	S 16° 41' 57" W	146.16'
15	N 32° 11' 30" E	196.91'	66	S 10° 19' 54" E	215.33'	116	S 73° 15' 29" W	13.78'
16	N 09° 29' 29" W	129.25'	67	S 32° 33' 54" E	67.54'	117	N 38° 39' 35" E	281.23'
17	N 00° 06' 43" W	158.56'	68	S 48° 10' 06" W	94.87'	118	N 45° 41' 25" E	157.12'
18	N 17° 15' 13" E	222.14'	69	S 22° 28' 44" E	117.18'	119	S 83° 28' 49" E	110.00'
19	N 84° 26' 38" E	55.32'	70	S 07° 58' 44" E	136.01'	120	N 85° 38' 59" E	93.68'
20	R = 213.23' A = 19.33		71	S 07° 53' 16" W	196.73'	121	S 37° 31' 58" W	153.60'
21	S 17° 36' 09" W	139.45'	72	S 09° 27' 34" E	74.06'	122	N 27° 41' 58" W	65.36'
22	S 72° 35' 38" E	159.66'	73	S 28° 24' 06" E	25.81'	123	N 83° 28' 49" W	70.46'
23	N 33° 59' 12" W	168.91'	74	S 28° 45' 04" E	57.01'	124	S 45° 41' 25" W	117.39'
24	S 84° 40' 42" W	207.75'	75	S 21° 31' 16" W	98.01'	125	N 73° 15' 29" W	256.89'
25	S 27° 28' 20" W	118.58'	76	S 01° 32' 56" W	72.84'	126	N 28° 35' 26" W	61.61'
26	N 05° 75' 05" W	110.87'	77	S 33° 55' 06" W	41.11'	127	S 42° 28' 00" E	190.24'
27	S 32° 10' 45" W	325.10'	78	S 10° 49' 44" E	31.00'	128	N 42° 28' 00" W	104.12'
28	S 13° 15' 45" W	210.51'	79	S 67° 39' 44" E	26.42'	129	S 42° 28' 00" E	70.00'
29	S 04° 37' 14" E	135.43'	80	S 28° 42' 34" E	46.24'	130	S 34° 38' 47" W	140.18'
30	S 45° 34' 15" W	208.97'	81	S 08° 18' 24" E	49.01'	131	S 14° 15' 33" W	50.00'
31	S 23° 10' 56" W	171.42'	82	S 36° 41' 54" E	77.03'	132	S 25° 39' 48" E	151.84'
32	S 33° 13' 25" W	69.34'	83	S 05° 44' 24" E	41.01'	133	S 63° 19' 33" E	100.00'
33	S 27° 41' 29" W	90.35'	84	S 28° 17' 54" E	66.40'	134	S 79° 58' 39" E	224.74'
34	S 12° 38' 02" E	128.10'	85	S 66° 48' 44" E	61.40'	135	S 23° 19' 27" W	51.38'
35	S 55° 47' 47" W	94.30'	86	S 40° 28' 44" E	45.49'	136	N 79° 58' 39" W	220.24'
36	S 21° 23' 05" W	104.18'	87	S 03° 38' 34" E	131.24'	137	N 63° 19' 33" W	267.77'
37	S 18° 26' 35" E	44.27'	88	S 53° 09' 06" W	64.50'	138	N 14° 15' 33" E	365.55'
38	S 45° 35' 55" E	68.59'	89	S 10° 14' 56" W	103.74'	139	S 73° 26' 35" E	77.20'
39	S 26° 16' 00" E	83.63'	90	S 23° 44' 44" E	59.48'	140	S 61° 24' 55" E	355.31'
40	S 04° 49' 21" W	142.51'	91	S 75° 10' 34" E	66.85'	141	S 52° 25' 53" E	65.60'
41	S 16° 26' 39" W	72.19'	92	S 15° 16' 04" E	56.57'	142	S 54° 43' 39" E	100.44'
42	N 59° 47' 57" W	55.53'	93	S 19° 48' 06" W	68.42'	143	S 70° 45' 02" E	133.46'
43	N 39° 54' 29" W	120.49'	94	S 30° 46' 04" E	52.39'	144	S 85° 52' 34" E	58.04'
44	N 63° 45' 30" W	90.46'	95	S 17° 53' 14" E	90.41'	145	S 59° 25' 18" W	129.38'
45	N 16° 36' 07" W	90.21'	96	S 25° 03' 26" W	159.53'	146	N 69° 49' 52" W	69.92'
46	N 73° 08' 29" W	229.89'	97	N 53° 23' 04" W	325.11'	147	N 47° 17' 27" W	129.49'
47	N 55° 34' 22" W	136.27'	98	S 50° 28' 46" W	100.00'	148	N 62° 01' 32" W	85.00'
48	S 23° 25' 54" E	61.81'	99	N 43° 42' 46" E	100.00'	149	N 52° 08' 32" W	63.41'
49	S 69° 05' 34" E	121.24'	100	S 39° 27' 24" W	270.34'	150	N 63° 52' 02" W	386.41'
50	S 06° 03' 24" E	53.01'	101	S 58° 50' 32" E	152.04'	151	N 23° 19' 27" E	56.50'
51	S 34° 39' 44" E	80.06'						



SOILS MAP
SCALE: 1" = 400'

Application No. SPA 82-V-091-4

APPROVED SP/SE PLAT

SEE DEVELOPMENT CONDITIONS

Board (BOS) (BZA) approval May 2, 2001

Staff Coordinator Jennifer Josiah

Sheet 2 of 12

Vulcan
Materials Company

NO.	DESCRIPTION	DATE	DRAWN	CHECKED
1	ADDED PROPOSED SECURITY TOWER	1-3-95	MJ	

TOTAL MINING SCHEMATIC
SPECIAL PERMIT APPLICATION RENEWAL PLAN
OCCOQUAN QUARRY
MOUNT VERNON MAGISTERIAL DISTRICT
FAIRFAX COUNTY, VIRGINIA

STEVENSON AND STEWART, INC.
CIVIL ENGINEERING ■ SURVEYING ■ STRUCTURAL ENGINEERING ■ PROJECT MANAGEMENT
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GTI CONSULTANTS INC

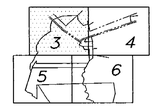
1/22/01

DESIGNED	DRAWN	CHECKED	APPROVED	JOB NO.
N/A	RRY	RS		201150
SCALE		DATE		TAX MAP
1" = 400'		JANUARY 4, 2001		
		SHEET 2 OF 9		

DWG NAME: SP 11541-LOT15C1/SPA-SHEET2
PLOT @ 1" = 400'
DATE: JAN 15, 2001

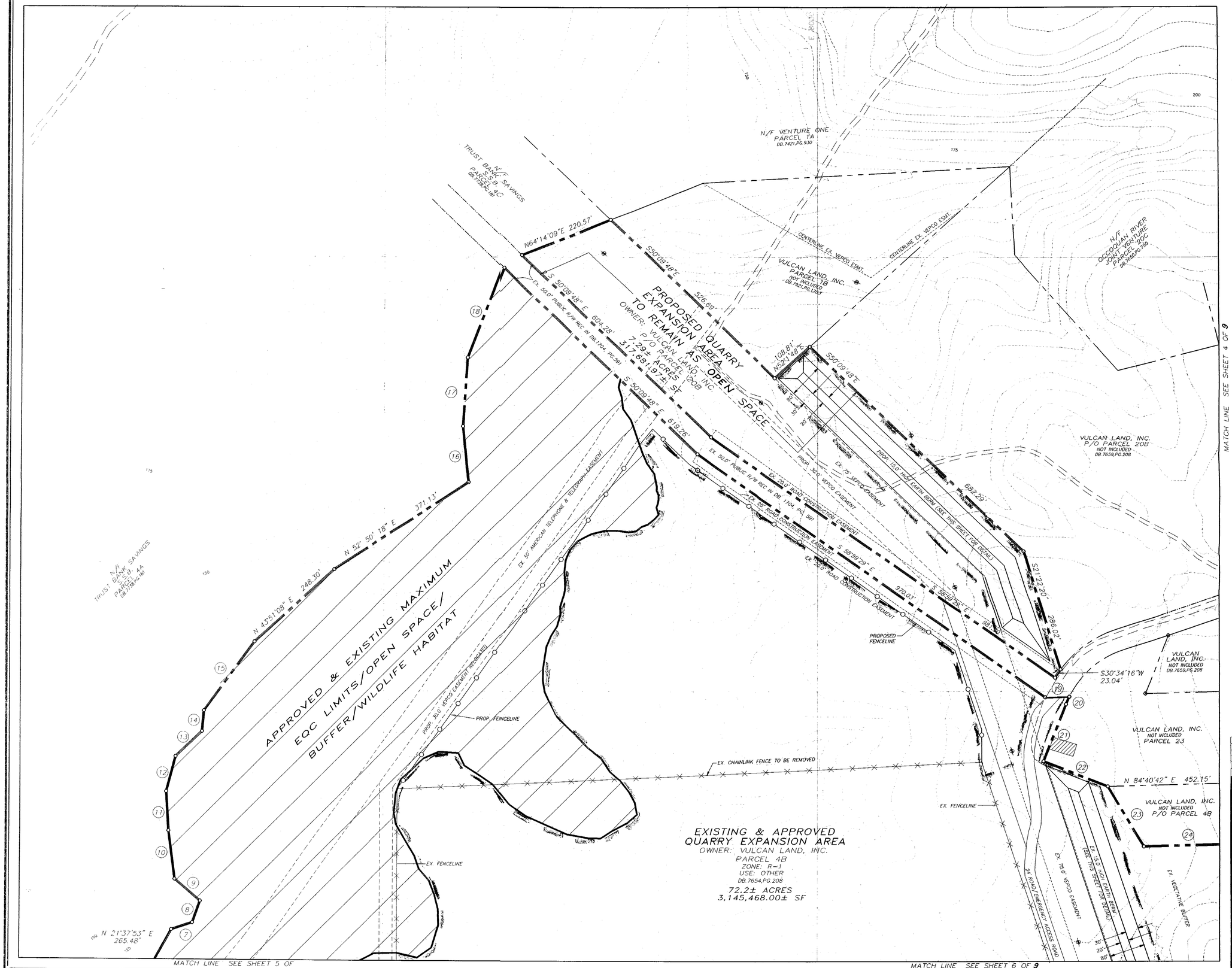
COMPILED PHOTOGRAMMETRICALLY BY :
BELL MAPPING COMPANY WINSTON-SALEM, N.C.
DATE OF PHOTOGRAPHY : 10-20-92
HORIZONTAL DATUM ARBITRARY - BASED ON NORTH
VERTICAL DATUM - MEAN SEA LEVEL
CONTOURS IN TREED AREAS ARE APPROXIMATE
NATIONAL GEODETIC DATUM OF 1929

Vulcan
Materials Company



KEY SITE MAP

NOTE:
FOR BEARINGS & DISTANCES TABLE, SEE SHEET 2 OF 9



LEGEND:

- $\triangle^{H}$ DENOTES EX. HORIZONTAL CONTROL POINT
- $\triangle^{V}$ DENOTES EX. VERTICAL CONTROL POINT
- 3500 DENOTES EX. INDEX CONTOURS
- DENOTES EX. INTERMEDIATE CONTOURS
- + 751.6 DENOTES EX. SPOT SHOT ELEVATION
- DENOTES EX. WATER
- DENOTES EX. ROADS
- DENOTES EX. BUILDINGS
- DENOTES EX. UTILITY POLES
- DENOTES EX. FENCE
- DENOTES EX. TREES
- LIMITS OF CLEARING & GRADING

Application No. SPA 82-V-091-4

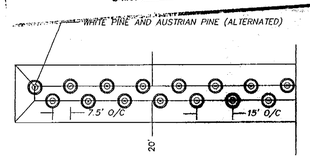
APPROVED SE (SP) PLAT

SEE DEVELOPMENT CONDITIONS

Date of (BOS) (BZA) approval May 2, 2001

Staff Coordinator Jennifer Josiah

Sheet 3 of 12



TYPICAL BERM PLANTING DETAIL
NOT TO SCALE

GRAPHIC SCALE
CONTOUR INTERVAL 5'
SCALE: 1" = 100'
100 0 100 200

PLOT @ 1" = 200'
DATE: 1/22/2001
DWG \000 TO 154\20150\SPASHEETS

NO.	DESCRIPTION	DATE	DRAWN	CHECKED
1	BERM & SPA LIMITS RELOCATED	12-28-00	RRY	RS
2	REVISED BERM LOCATION TO MATCH RGP-ADDED AUSTRIAN PINE	1-3-95	MJ	

MINING PLAN
SPECIAL PERMIT APPLICATION RENEWAL PLAN
OCCOQUAN QUARRY
MOUNT VERNON MAGISTERIAL DISTRICT
FAIRFAX COUNTY, VIRGINIA

STEVENSON AND STEWART, INC.
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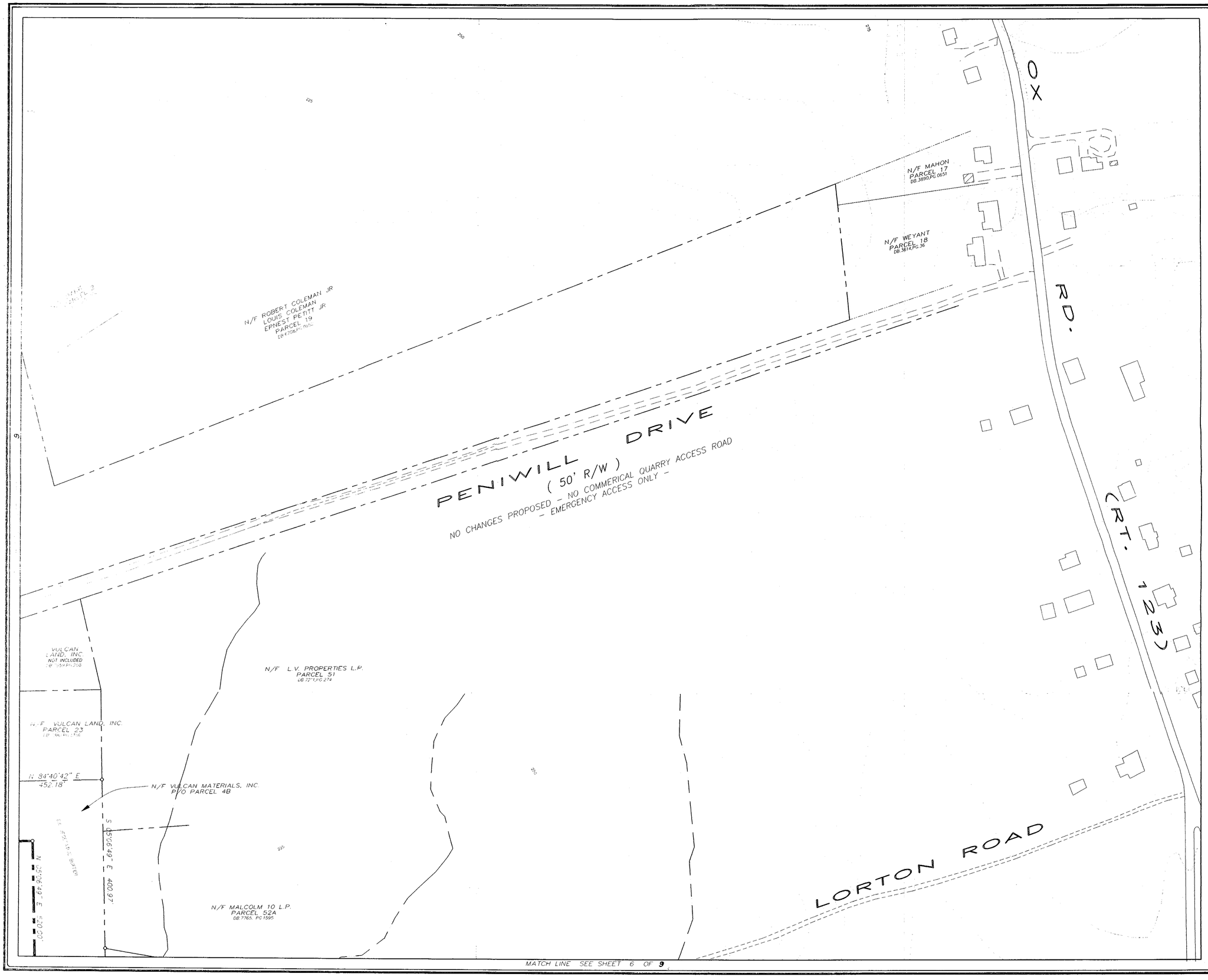
LEWIS STEVENSON III
Lic. No. 015378
1/22/01
PROFESSIONAL ENGINEER

CTI CONSULTANTS INC

DESIGNED	DRAWN	CHECKED	APPROVED	JOB NO.
N/A	RRY	RS		20150

SCALE	DATE	TAX MAP
1" = 100'	JANUARY 4, 2001	

SHEET 3 OF 9



COMPILED PHOTOGRAMMETRICALLY BY :
BELL MAPPING COMPANY WINSTON-SALEM, N.C.
DATE OF PHOTOGRAPHY : 10-16-90
HORIZONTAL DATUM ARBITRARY - BASED ON NORTH
VERTICAL DATUM - MEAN SEA LEVEL
CONTOURS IN TREED AREAS ARE APPROXIMATE
NATIONAL GEODETIC DATUM OF 1929

Vulcan
Materials Company

N

LEGEND

- DENOTES EX. HORIZONTAL CONTROL POINT
- DENOTES EX. VERTICAL CONTROL POINT
- 3500 DENOTES EX. INDEX CONTOURS
- DENOTES EX. INTERMEDIATE CONTOURS
- + 751.6 DENOTES EX. SPOT SHOT ELEVATION
- DENOTES EX. WATER
- DENOTES EX. ROADS
- DENOTES EX. BUILDINGS
- DENOTES EX. UTILITY POLES
- DENOTES EX. FENCE
- DENOTES EX. TREES

Application No. SPA 82-V-091-4
APPROVED SE/SP PLAT
SEE DEVELOPMENT CONDITIONS
Date of (BOS) (UZA) approval May 2, 2001
Staff Coordinator Jennifer Josiah
Sheet 4 of 12

100 0 100 200
GRAPHIC SCALE
CONTOUR INTERVAL 5'
SCALE: 1" = 100'

PLOT @ 1" =200'
DATE: JAN. 19, 2001
DWG 1000 TO 1154\201150\SPASHEET4

NO.	DESCRIPTION	DATE	DRAWN	CHECKED

MINING PLAN
SPECIAL PERMIT APPLICATION
RENEWAL PLAN
OCCOQUAN QUARRY
MOUNT VERNON MAGISTERIAL DISTRICT
FAIRFAX COUNTY, VIRGINIA

STEVENSON AND STEWART, INC.
CIVIL ENGINEERING ■ SURVEYING ■ STRUCTURAL ENGINEERING ■ PROJECT MANAGEMENT
14221-B WILLARD ROAD SUITE 100
CHANTILLY, VIRGINIA 20151
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EMAIL: ssiengineer@aol.com

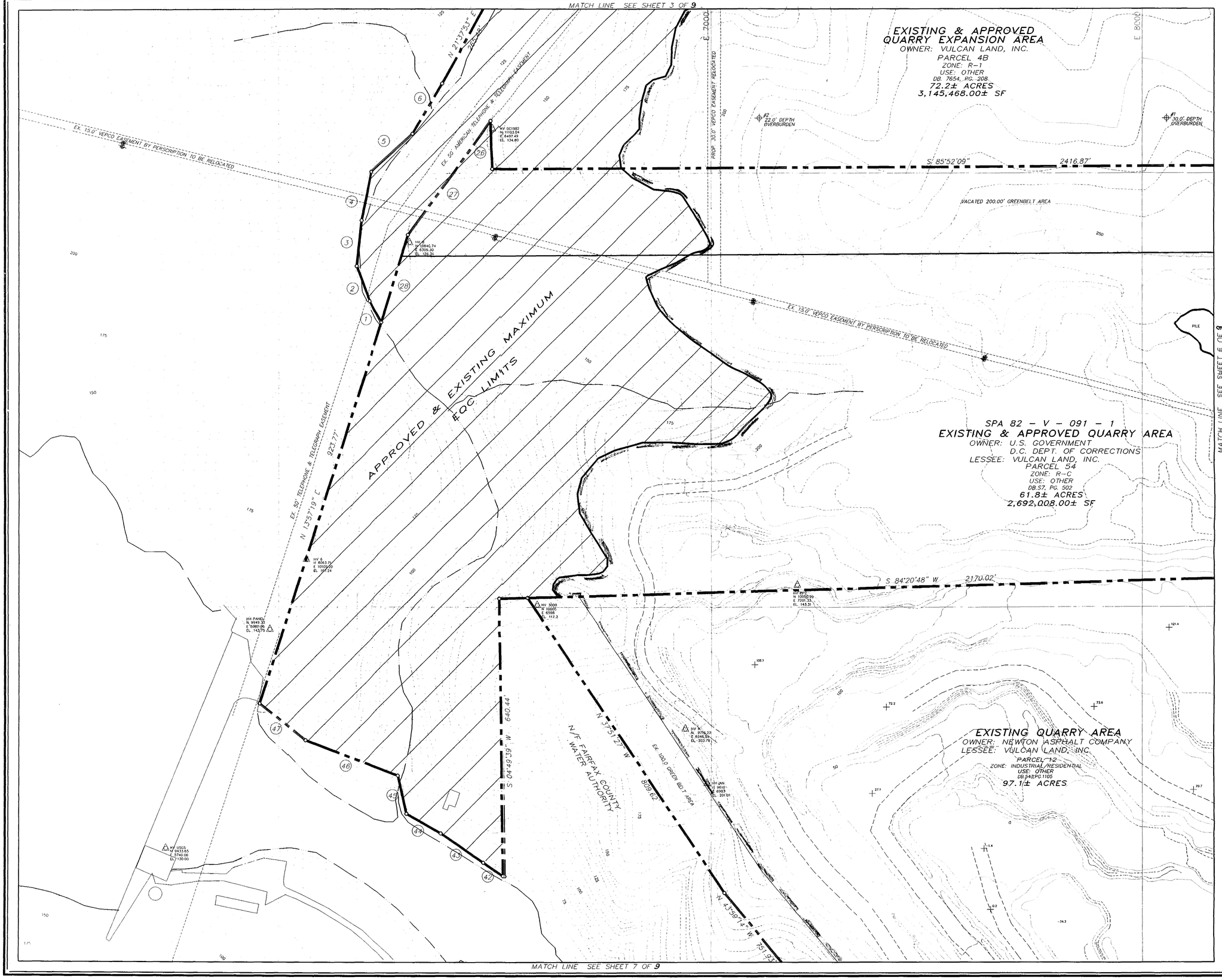
COMMONWEALTH OF VIRGINIA
CHRIS STEVENSON
LICENSE NO. 015376
1/22/01
PROFESSIONAL ENGINEER

CTI CONSULTANTS INC.

DESIGNED	DRAWN	CHECKED	APPROVED	JOB NO.
N/A	RRY	RS		201150

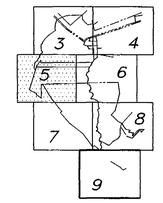
SCALE	DATE	TAX MAP
1" = 100'	JANUARY 4, 2001	

SHEET 4 OF 9



COMPILED PHOTOGRAMMETRICALLY BY :
BELL MAPPING COMPANY WINSTON-SALEM, N.C.
DATE OF PHOTOGRAPHY : 10-20-92
HORIZONTAL DATUM ARBITRARY - BASED ON NORTH
VERTICAL DATUM - MEAN SEA LEVEL
CONTOURS IN TREED AREAS ARE APPROXIMATE
NATIONAL GEODETIC DATUM OF 1929

Vulcan
Materials Company



KEY SITE MAP

NOTE:
FOR BEARINGS & DISTANCES TABLE, SEE SHEET 2 OF 9

LEGEND

- DENOTES EX. HORIZONTAL CONTROL POINT
- DENOTES EX. VERTICAL CONTROL POINT
- 3500 DENOTES EX. INDEX CONTOURS
- DENOTES EX. INTERMEDIATE CONTOURS
- + 751.6 DENOTES EX. SPOT SHOT ELEVATION
- DENOTES EX. WATER
- DENOTES EX. ROADS
- DENOTES EX. BUILDINGS
- DENOTES EX. UTILITY POLES
- DENOTES EX. FENCE
- DENOTES EX. TREES
- LIMITS OF CLEARING & GRADING

Application No. SPA 82-V-091-4
APPROVED SE/SP PLAT
SEE DEVELOPMENT CONDITIONS
Date of (DPZ) (BZA) approval May 2, 2001
Staff Coordinator Jennifer Josiah
Sheet 5 of 12

100 0 100 200
GRAPHIC SCALE
CONTOUR INTERVAL 5'
SCALE: 1" = 100'

PLOT @ 1" = 200'
DATE: JAN. 19, 2001
DWG 1000 TO 1154\201150\SPASHEET5

NO.	DESCRIPTION	DATE	DRAWN	CHECKED

MINING PLAN
GRADING PLAN
OCCOQUAN QUARRY
MOUNT VERNON MAGISTERIAL DISTRICT
FAIRFAX COUNTY, VIRGINIA

STEVENSON AND STEWART, INC.
CIVIL ENGINEERING ■ SURVEYING ■ STRUCTURAL ENGINEERING ■ PROJECT MANAGEMENT
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TEL: (703) 961-1960 FAX: (703) 803-4586
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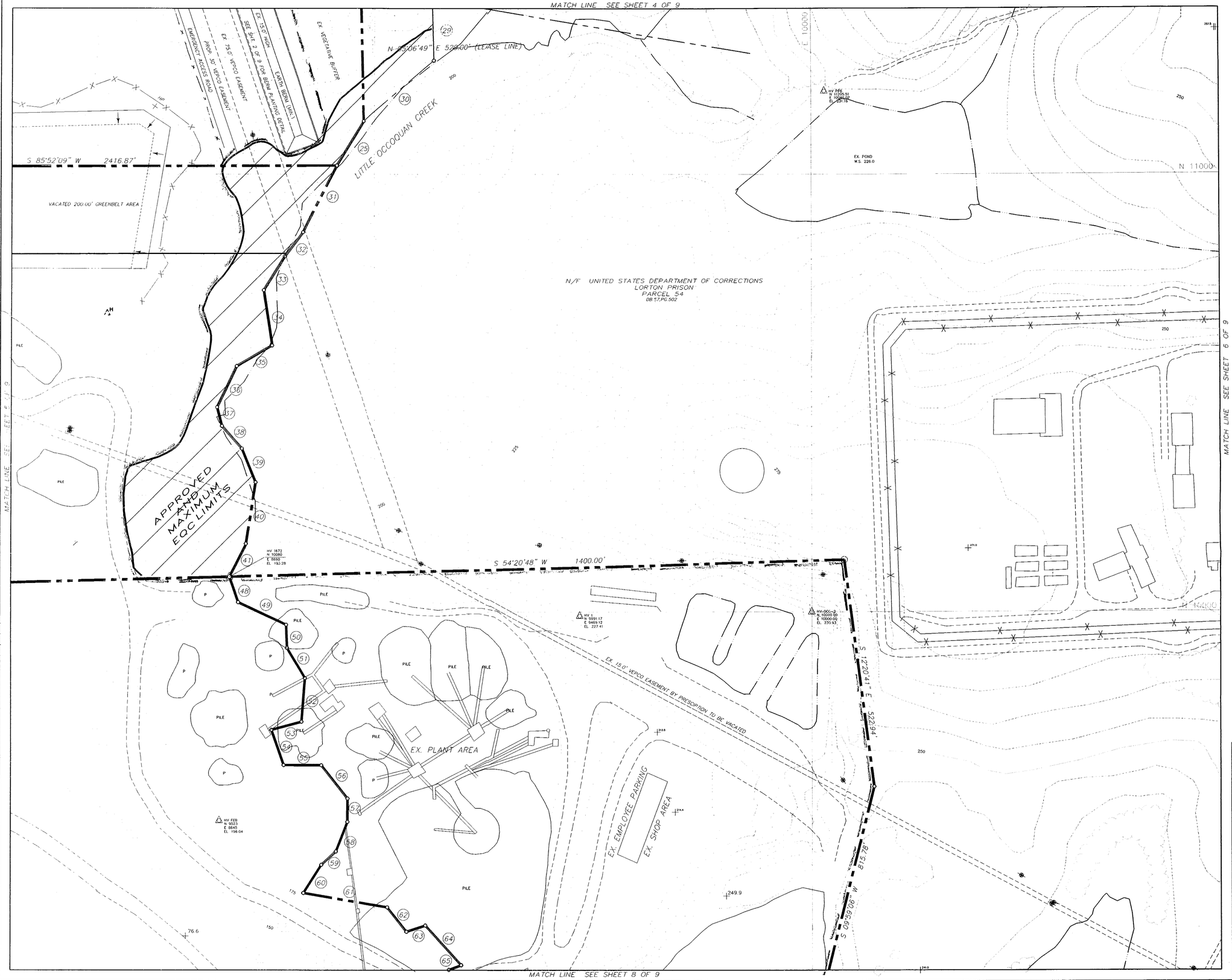
CHRIS STEVENSON
LICENSE NO. 015373
12/31/01
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA

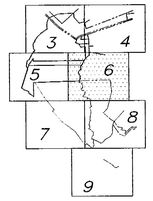
GTI CONSULTANTS INC.

DESIGNED	DRAWN	CHECKED	APPROVED	JOB NO.
N/A	RRY	RS		201150
SCALE		DATE		TAX MAP
1" = 100'		JANUARY 4, 2001		
		SHEET 5 OF 9		



COMPILED PHOTOGRAMMETRICALLY BY :
BELL MAPPING COMPANY WINSTON-SALEM, N.C.
DATE OF PHOTOGRAPHY : 10-20-92
HORIZONTAL DATUM ARBITRARY - BASED ON NORTH
VERTICAL DATUM - MEAN SEA LEVEL
CONTOURS IN TREED AREAS ARE APPROXIMATE
NATIONAL GEODETIC DATUM OF 1929

Vulcan
Materials Company



KEY SITE MAP

NOTE:
FOR BEARINGS & DISTANCES TABLE, SEE SHEET 2 OF 9

LEGEND

△H	DENOTES EX. HORIZONTAL CONTROL POINT
◌V	DENOTES EX. VERTICAL CONTROL POINT
3500	DENOTES EX. INDEX CONTOURS
	DENOTES EX. INTERMEDIATE CONTOURS
+ 751.6	DENOTES EX. SPOT SHOT ELEVATION
	DENOTES EX. WATER
	DENOTES EX. ROADS
	DENOTES EX. BUILDINGS
	DENOTES EX. UTILITY POLES
X X X	DENOTES EX. FENCE
	DENOTES EX. TREES
	LIMITS OF CLEARING & GRADING

Application No. SPA 82-V-091-4

APPROVED SE/SP PLAT

SEE DEVELOPMENT CONDITIONS

Date of (BOS) (BZA) approval May 2, 2001

Staff Coordinator Jennifer Josiah

Sheet 6 of 12

100 0 100 200
GRAPHIC SCALE
CONTOUR INTERVAL 5'
SCALE: 1" = 100'

PLOT @ 1" = 200'
DATE: JAN 19, 2001
DWG 1000 TO 1154\201150\SPASHEET6

NO.	DESCRIPTION	DATE	DRAWN	CHECKED

MINING PLAN
SPECIAL PERMIT APPLICATION
RENEWAL PLAN
OCCOQUAN QUARRY
MOUNT VERNON MAGISTERIAL DISTRICT
FAIRFAX COUNTY, VIRGINIA

STEVENSON AND STEWART, INC.
CIVIL ENGINEERING ■ SURVEYING ■ STRUCTURAL ENGINEERING ■ PROJECT MANAGEMENT
14221-B WILLARD ROAD SUITE 100
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COMMONWEALTH OF VIRGINIA
CHRIS STEVENSON
LICENSE NO.
015371
1/22/01
PROFESSIONAL ENGINEER

CTI CONSULTANTS INC.

DESIGNED	DRAWN	CHECKED	APPROVED	JOB NO.
N/A	RRY	RS		201150
SCALE		DATE		TAX MAP
1" = 100'		JANUARY 3, 2001		
		SHEET 6 OF 9		

MATCH LINE SEE SHEET 5 OF 9

OCCOQUAN RIVER

EX. PIT AREA

PILE

EX. 100.0' GREEN BELT AREA

N 43°59'14" W 751.93'

N 46°17'14" W 652.82'

N 58°46'09" W 758.65'

N 39°37'14" W 761.94'

EX. ASPHALT PLANT

EX. 100.0' GREEN BELT AREA

EXDAM

PILE

MATCH LINE SEE SHEET 8 OF 9

MATCH LINE SEE SHEET 9 OF 9

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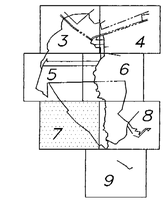
BELL MAPPING COMPANY WINSTON-SALEM, N.C.
DATE OF PHOTOGRAPHY : 10-20-92
HORIZONTAL DATUM ARBITRARY - BASED ON NORTH
VERTICAL DATUM - MEAN SEA LEVEL
CONTOURS IN TREED AREAS ARE APPROXIMATE
NATIONAL GEODETIC DATUM OF 1929

Vulcan
Materials Company

N



KEY SITE MAP

NOTE:
FOR BEARINGS & DISTANCES TABLE, SEE SHEET 2 OF 9

LEGEND

△H	DENOTES EX. HORIZONTAL CONTROL POINT
○V	DENOTES EX. VERTICAL CONTROL POINT
3500	DENOTES EX. INDEX CONTOURS
	DENOTES EX. INTERMEDIATE CONTOURS
+ 751.6	DENOTES EX. SPOT SHOT ELEVATION
	DENOTES EX. WATER
	DENOTES EX. ROADS
	DENOTES EX. BUILDINGS
	DENOTES EX. UTILITY POLES
	DENOTES EX. FENCE
	DENOTES EX. TREES
	LIMITS OF CLEARING & GRADING

Application No. SPA 82-V-091-4

APPROVED SE (ST) PLAT

SEE DEVELOPMENT CONDITIONS

Date of (DPZ) (ZAB) approval May 2, 2001

Staff Coordinator Jennifer Josiah

Sheet 7 of 12

100 0 100 200
GRAPHIC SCALE
CONTOUR INTERVAL 5'
SCALE: 1" = 100'

PLOT @ 1" = 200'
DATE: JAN 18, 2001
DWG 1000 TO 1154\201150\SPASHEET7

NO.	DESCRIPTION	DATE	DRAWN	CHECKED

MINING PLAN
SPECIAL PERMIT APPLICATION
RENEWAL PLAN
OCCOQUAN QUARRY
MOUNT VERNON MAGISTERIAL DISTRICT
FAIRFAX COUNTY, VIRGINIA

STEVENSON AND STEWART, INC.
CIVIL ENGINEERING ■ SURVEYING ■ STRUCTURAL ENGINEERING ■ PROJECT MANAGEMENT
14221-B WILLARD ROAD SUITE 100
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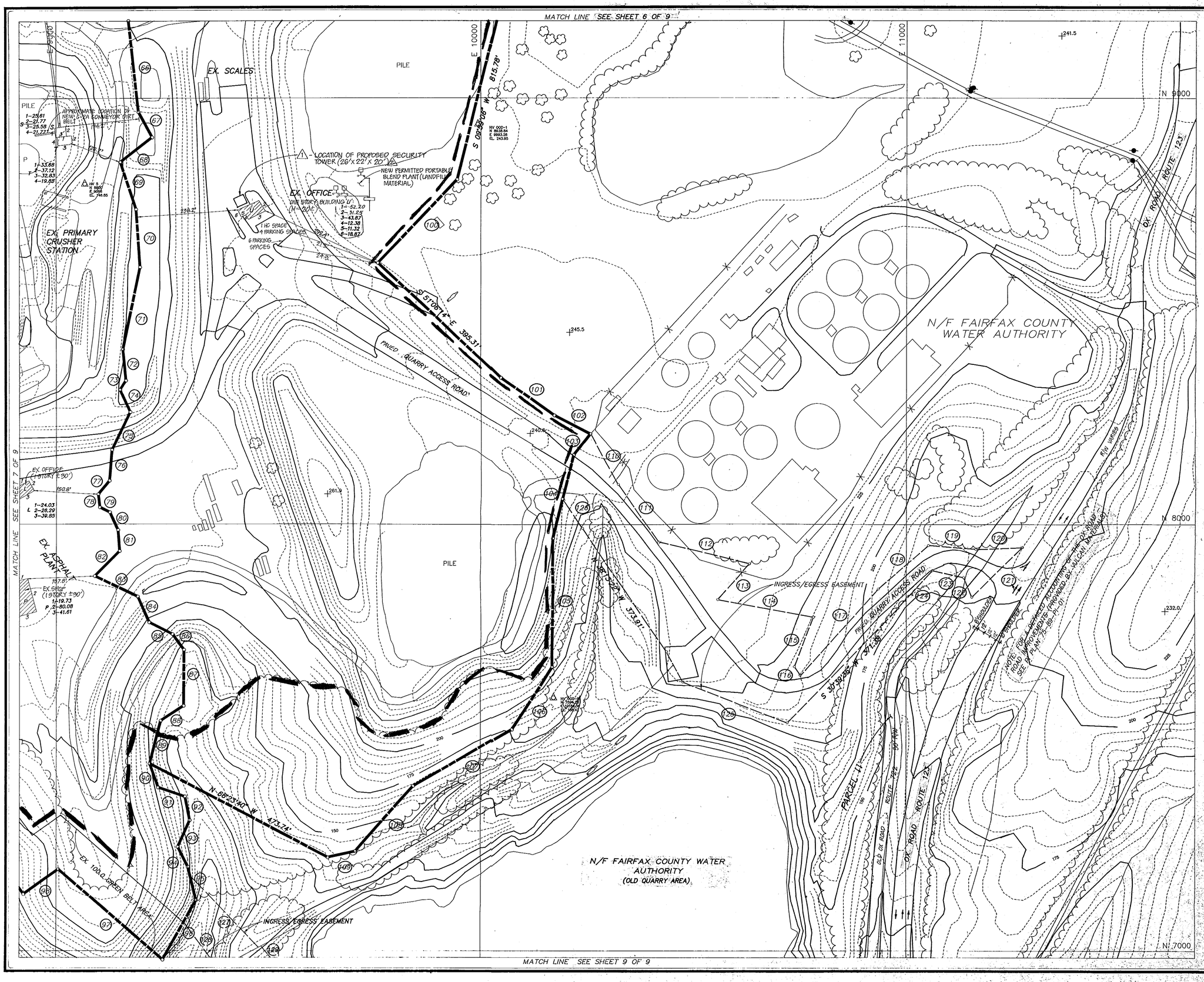
EMAIL: sslengineer@aol.com

CTI CONSULTANTS INC

COMMONWEALTH OF VIRGINIA
Robert Stewart
Lic. No. 14
PROFESSIONAL ENGINEER
1/22/01

DESIGNED	DRAWN	CHECKED	APPROVED	JOB NO.
N/A	RRY	RS		201150
SCALE	DATE			TAX MAP
1" = 100'	JANUARY 3, 2001			

SHEET 7 OF 9



COMPILED PHOTOGRAMMETRICALLY BY
BELL MAPPING COMPANY WINSTON-SALEM, N.C.
DATE OF PHOTOGRAPHY : 10-20-92
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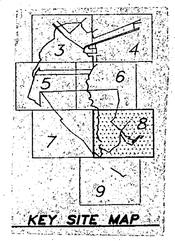
NATIONAL GEODETIC DATUM OF 1929

Vulcan
Materials Company



KEY SITE MAP

NOTE:
FOR BEARINGS & DISTANCES TABLE, SEE SHEET 2 OF 9

LEGEND

- DENOTES EX. HORIZONTAL CONTROL POINT
- DENOTES EX. VERTICAL CONTROL POINT
- 3500 DENOTES EX. INDEX CONTOURS
- DENOTES EX. INTERMEDIATE CONTOURS
- 751.6 DENOTES EX. SPOT SHOT ELEVATION
- DENOTES EX. WATER
- DENOTES EX. ROADS
- DENOTES EX. BUILDINGS
- DENOTES EX. UTILITY POLES
- DENOTES EX. FENCE
- DENOTES EX. TREES
- DENOTES LIMITS OF CLEARING AND GRADING

Application No. SPA 82-V-091-4

APPROVED SE/SP PLAT

SEE DEVELOPMENT CONDITIONS

Date of (BZA) approval May 2, 2001

Staff Coordinator Jennifer Josiah

Sheet 8 of 12

GRAPHIC SCALE
CONTOUR INTERVAL 5'
SCALE: 1" = 100'

NO.	DESCRIPTION	DATE	DRAWN	CHECKED
2	ADD BLDG DIMENSIONS FOR SECURITY TOWER	2-23-95	LADI	
1	ADD PROP. SECURITY TOWER	1-3-95	MJ	

MINING PLAN
SPECIAL PERMIT APPLICATION
RENEWAL PLAN
OCCOQUAN QUARRY
MOUNT VERNON MAGISTERIAL DISTRICT
FAIRFAX COUNTY, VIRGINIA

STEVENSON AND STEWART, INC.
CIVIL ENGINEERING ■ SURVEYING ■ STRUCTURAL ENGINEERING ■ PROJECT MANAGEMENT
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COMMONWEALTH OF VIRGINIA
CHRIS STEVENSON
LICENSE No. 015376
PROFESSIONAL ENGINEER

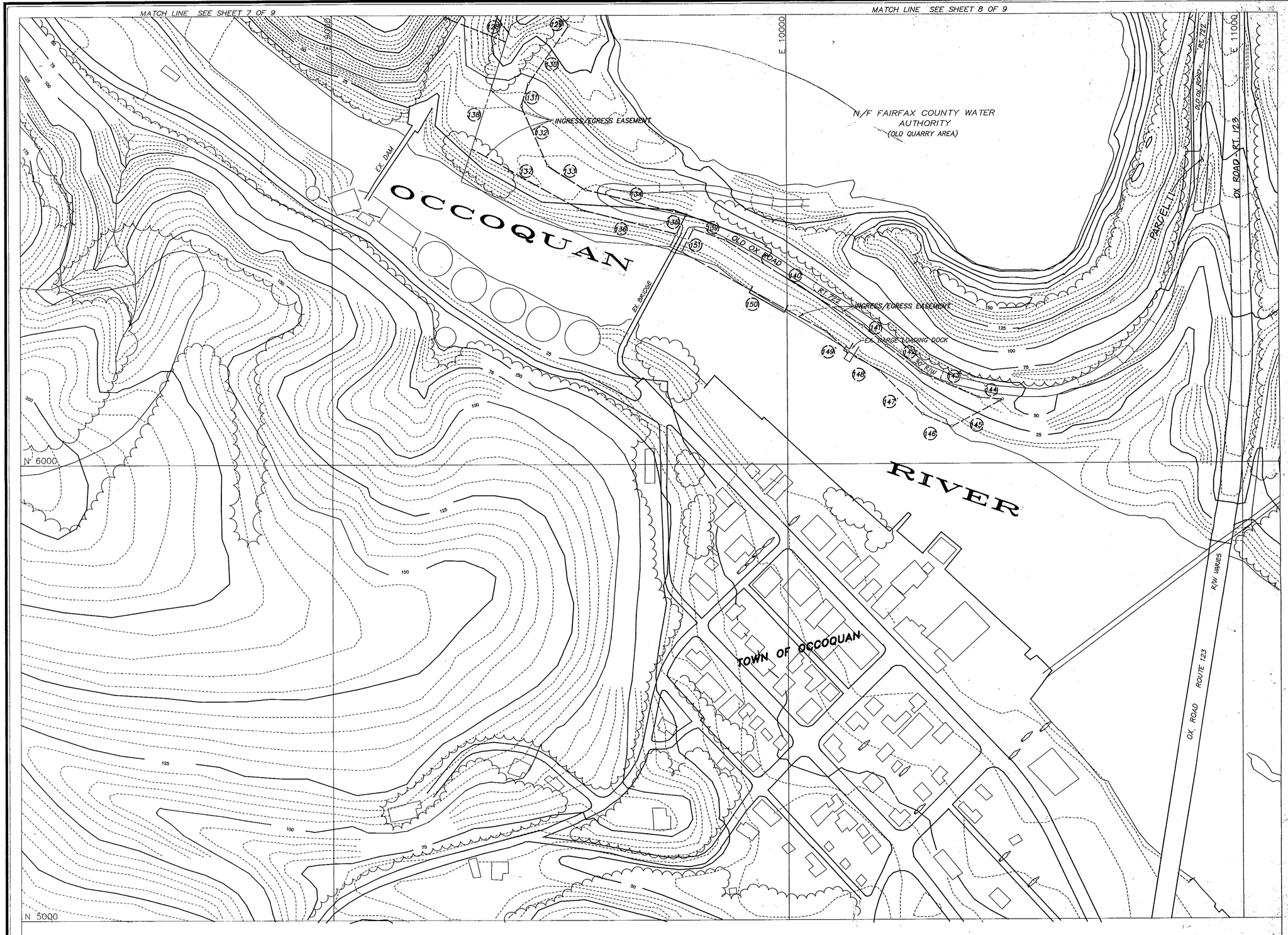
DESIGNED	DRAWN	CHECKED	APPROVED	JOB NO.
N/A	LADI	SCL		497

SCALE 1" = 100'
DATE FEBRUARY 19, 1993
TAX MAP

FILE#\DWG\D683SPA7

SHEET 8 OF 9

#2D-683



COMPILED PHOTOGRAMMETRICALLY BY :
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DATE OF PHOTOGRAPHY : 10-20-92
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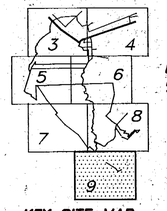
Vulcan
Materials Company



KEY SITE MAP

NOTE: FOR BEARINGS & DISTANCES TABLE, SEE SHEET 2 OF 9

LEGEND

△H	DENOTES EX. HORIZONTAL CONTROL POINT
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3500	DENOTES EX. INDEX CONTOURS
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	DENOTES EX. ROADS
	DENOTES EX. BUILDINGS
	DENOTES EX. UTILITY POLES
X—X—X	DENOTES EX. FENCE
	DENOTES EX. TREES

Application No. SPA 82-V-091-4

APPROVED SE/SP PLAT

SEE DEVELOPMENT CONDITIONS

[illegible] (BOS) (BZA) approval May 2, 2001
Staff Coordinator Jennifer Josiah
Sheet 9 of 12

100 0 100 200
GRAPHIC SCALE
CONTOUR INTERVAL 5'
SCALE: 1" = 100'

NO.	DESCRIPTION	DATE	DRAWN	CHECKED

MINING PLAN
SPECIAL PERMIT APPLICATION RENEWAL PLAN
OCCOQUAN QUARRY
MOUNT VERNON MAGISTERIAL DISTRICT
FAIRFAX COUNTY, VIRGINIA

STEVENSON AND STEWART, INC.
CIVIL ENGINEERING ■ SURVEYING ■ STRUCTURAL ENGINEERING ■ PROJECT MANAGEMENT
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COMMONWEALTH OF VIRGINIA
CHRIS STEVENSON
LICENSE No. 015376
PROFESSIONAL ENGINEER

CTI CONSULTANTS

DESIGNED	DRAWN	CHECKED	APPROVED	JOB NO.
N/A	LADI	SCL		497
SCALE		DATE		TAX MAP
1" = 100'		FEBRUARY 19, 1993		

FILE #\DWG\D683SPA8

SHEET 9 OF 9

<#497B> #2D683

Vulcan
Materials Company

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BELL MAPPING COMPANY WINSTON–SALEM, N.C.
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VERTICAL DATUM – MEAN SEA LEVEL
CONTOURS IN TREED AREAS ARE APPROXIMATE
NATIONAL GEODETIC DATUM OF 1929

Application No. SPA 82-V-091-4

APPROVED SE/SP PLAT

SEE DEVELOPMENT CONDITIONS

(BOS) (BZA) approval May 2, 2001
Staff Coordinator Jennifer Josiah
Sheet 10 of 12

SITE TABULATIONS:

SPECIAL PERMIT AREA	305.4± AC
SITE AREA OF EQC/WILDLIFE HABITAT/BUFFER ON VULCAN MATERIALS PROPERTY	31.4± AC
SITE AREA OF 100.0' GREENBELT AREA ON NEWTON ASPHALT PROPERTY	9.7± AC
SITE AREA OF EQC LIMITS ON LEASED D.C. PROPERTY	25.0± AC
SITE AREA OF BERM/OPEN SPACE/ACCESS ROAD ON VULCAN MATERIALS COMPANY, INC. PROPERTY	15.4± AC
SITE ARA OF PROPOSED PIT ON VULCAN MATERIALS COMPANY, INC. PROPERTY	39.0± AC
SITE AREA OF PIT AREA ON LEASED D.C PROPERTY	36.0± AC
SITE AREA OF PIT ON LEASED NEWTON ASPHALT PROPERTY	62.8± AC

BEARING & DISTANCE TABLE:

1	N 34° 00' 06" W	56.13'	52	S 00° 20' 36" W	99.85'	102	S 66° 41' 25" E	94.82'
2	N 24° 12' 49" W	85.90'	53	S 70° 46' 06" W	71.59'	103	S 34° 03' 48" W	62.48'
3	N 02° 07' 11" E	105.84'	54	S 23° 27' 04" E	85.44'	104	S 09° 55' 48" W	201.72'
4	N 07° 50' 53" E	114.67'	55	N 86° 11' 26" E	86.15'	105	S 03° 48' 35" E	302.52'
5	N 43° 45' 43" E	130.17'	56	S 42° 28' 04" E	96.83'	106	S 29° 07' 10" W	174.50'
6	N 32° 48' 40" E	144.49'	57	S 03° 53' 54" E	53.08'	107	S 56° 04' 59" W	266.41'
7	N 67° 22' 00" E	50.90'	58	S 17° 18' 26" W	72.50'	108	S 37° 22' 47" W	204.41'
8	N 15° 16' 40" E	53.42'	59	S 43° 13' 06" W	45.45'	109	S 73° 41' 37" W	67.00'
9	N 53° 27' 55" W	77.44'	60	S 28° 13' 26" W	76.05'	110	S 38° 13' 22" E	122.16'
10	N 11° 28' 21" W	112.22'	61	S 84° 23' 04" E	194.81'	111	S 28° 35' 26" E	179.00'
11	N 07° 25' 35" W	90.86'	62	S 42° 23' 34" E	71.03'	112	S 80° 32' 11" E	234.17'
12	N 07° 25' 35" W	83.74'	63	N 67° 36' 26" E	45.61'	113	N 39° 46' 35" E	120.00'
13	N 42° 13' 09" E	84.37'	64	S 46° 09' 44" E	122.29'	114	S 85° 21' 04" E	232.09'
14	N 01° 15' 03" E	47.27'	65	S 65° 37' 16" W	30.36'	115	S 16° 41' 57" W	146.16'
15	N 32° 11' 30" E	196.91'	66	S 10° 19' 54" E	215.33'	116	S 73° 15' 29" E	13.78'
16	N 09° 29' 29" W	129.25'	67	S 32° 33' 54" E	67.54'	117	N 38° 39' 35" E	281.23'
17	N 00° 06' 43" W	158.56'	68	S 48° 10' 06" W	94.87'	118	N 45° 41' 25" E	157.12'
18	N 17° 15' 13" E	222.14'	69	S 22° 28' 44" E	117.18'	119	S 83° 28' 49" E	110.00'
19	N 84° 26' 38" E	55.32'	70	S 07° 58' 44" E	136.01'	120	N 85° 38' 59" E	93.68'
20	R = 213.73' A =	19.33'	71	S 07° 53' 16" W	196.73'	121	S 37° 31' 58" W	153.60'
21	S 17° 36' 09" W	139.95'	72	S 09° 27' 34" E	74.06'	122	N 27° 41' 58" W	65.36'
22	S 72° 35' 38" E	159.66'	73	S 28° 24' 06" E	25.81'	123	N 83° 28' 49" W	70.46'
23	N 33° 59' 12" W	168.91'	74	S 28° 45' 04" E	57.01'	124	S 45° 41' 25" W	117.39'
24	S 84° 40' 42" W	207.75'	75	S 21° 31' 16" W	98.01'	125	N 73° 15' 29" W	256.89'
25	S 27° 28' 20" W	118.58'	76	S 01° 32' 56" W	72.84'	126	N 28° 35' 26" W	61.61'
26	N 05° 75' 05" W	110.87'	77	S 33° 55' 06" W	41.11'	127	S 42° 28' 00" E	190.24'
27	S 32° 10' 45" W	325.10'	78	S 10° 49' 44" E	31.00'	128	N 42° 28' 00" W	104.12'
28	S 13° 15' 45" W	210.51'	79	S 67° 39' 44" E	26.42'	129	S 42° 28' 00" E	70.00'
29	S 04° 37' 14" E	135.43'	80	S 28° 42' 34" E	46.24'	130	S 34° 38' 47" W	140.18'
30	S 45° 34' 15" W	208.97'	81	S 08° 18' 24" E	49.01'	131	S 14° 15' 33" W	50.00'
31	S 23° 10' 56" W	171.42'	82	S 36° 41' 54" E	77.03'	132	S 25° 39' 48" E	151.84'
32	S 33° 13' 25" W	69.34'	83	S 05° 44' 24" E	41.01'	133	S 63° 19' 33" E	100.00'
33	S 27° 41' 29" W	90.35'	84	S 28° 17' 54" E	66.48'	134	S 79° 58' 39" E	224.74'
34	S 12° 38' 02" E	128.10'	85	S 66° 48' 44" E	61.40'	135	S 23° 19' 27" W	51.38'
35	S 55° 47' 47" W	94.30'	86	S 40° 28' 44" E	45.49'	136	N 79° 58' 39" W	220.24'
36	S 21° 23' 05" W	104.18'	87	S 03° 38' 34" E	131.24'	137	N 63° 19' 33" W	267.77'
37	S 18° 26' 35" E	44.27'	88	S 53° 07' 06" W	84.50'	138	N 14° 15' 33" E	365.55'
38	S 45° 35' 55" E	68.59'	89	S 10° 14' 56" W	103.74'	139	S 73° 26' 35" E	77.20'
39	S 26° 16' 00" E	83.63'	90	S 23° 44' 44" E	59.48'	140	S 61° 24' 55" E	355.31'
40	S 04° 49' 21" W	142.51'	91	S 75° 10' 34" E	66.85'	141	S 52° 25' 53" E	65.60'
41	S 16° 26' 39" W	72.19'	92	S 15° 16' 04" E	56.57'	142	S 54° 43' 39" E	100.44'
42	N 59° 47' 57" W	55.53'	93	S 19° 48' 06" W	68.42'	143	S 70° 45' 02" E	133.46'
43	N 39° 54' 29" W	120.49'	94	S 30° 46' 04" E	52.39'	144	S 85° 52' 34" E	58.04'
44	N 63° 45' 30" W	90.46'	95	S 17° 53' 14" E	90.41'	145	S 59° 25' 18" W	129.38'
45	N 16° 36' 07" W	90.21'	96	S 25° 03' 26" W	159.53'	146	N 69° 49' 52" W	69.92'
46	N 73° 08' 29" W	229.89'	97	N 53° 23' 04" W	325.11'	147	N 47° 17' 27" W	129.49'
47	N 55° 34' 22" W	136.27'	98	S 50° 28' 46" W	100.00'	148	N 62° 01' 32" W	85.00'
48	S 23° 25' 54" E	61.81'	99	N 43° 42' 46" E	100.00'	149	N 52° 08' 32" W	63.41'
49	S 69° 05' 34" E	121.24'	100	S 39° 27' 24" W	270.34'	150	N 63° 52' 02" W	386.41'
50	S 06° 03' 24" E	53.01'	101	S 58° 50' 32" E	152.04'	151	N 23° 19' 27" E	56.50'
51	S 34° 39' 44" E	80.06'						

LEGEND:

△H	DENOTES EX. HORIZONTAL CONTROL POINT
○V	DENOTES EX. VERTICAL CONTROL POINT
3500	DENOTES EX. INDEX CONTOURS
	DENOTES EX. INTERMEDIATE CONTOURS
751.6	DENOTES EX. SPOT SHOT ELEVATION
	DENOTES EX. WATER
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	DENOTES EX. BUILDINGS
	DENOTES EX. UTILITY POLES
	DENOTES EX. FENCE
	DENOTES EX. TREES
	DENOTES PROPOSED LIMITS OF CLEARING AND GRADING

0 500 1000
GRAPHIC SCALE

NARRATIVE:

AS CAN BE SEEN FROM THE PLAN OF OPERATION OVERLAY, THERE IS APPROXIMATELY 62.8± ACTIVE ACRES OF EXISTING PIT AREA, LOCATED ON THE PROPERTY LEASED FROM NEWTON ASPHALT COMPANY BY VULCAN MATERIALS. THERE IS AN ADDITIONAL 75± ACRES OF RESERVED PIT AREA, LOCATED ON PARCEL 4B AND A PORTION OF PARCEL 54, LEASED FROM THE U.S. GOVERNMENT, DEPT. OF CORRECTIONS, WHICH WILL BECOME ACTIVE IN EARLY 1993. THERE IS A TOTAL SITE AREA OF 305.4± ACRES UNDER CONSTRUCTION FOR THE SPECIAL PERMIT APPLICATION.

A SITE INVESTIGATION FOUND ACTIVE SETTLING PONDS, WASHING FACILITIES, CRUSHING AND TREATMENT FACILITIES, AS WELL AS, STOCKPILES WITH A PORTION OF THE SITE OPERATING SOUTH OF THE EXISTING 200.0' GREENBELT AREA.

VULCAN MATERIALS PLANS TO DIVIDE THE 305.4± AREA SITE AS FOLLOWS:

A) SITE AREA OF PIT	6,002,568.0± SF/137.8± AC
B) SITE AREA OF BUFFERS/BERMS/ACCESS ROADS	670,824.0± SF/ 15.4± AC
C) SITE AREA OF EQC/WILDLIFE HABITAT/GREENBELT AREAS	2,879,316± SF/ 66.1± AC

TOTAL SITE AREA: 13,303,224.0± SF/305.4± AC

INCLUDED IN THE AREA OF THE PIT, THERE IS APPROXIMATELY 609,840.0± SF OR 14.0± AC RESERVED FOR THE PROPOSED STORAGE/STOCKPILE AREA

STORMWATER MANAGEMENT/BMP FACILITIES WILL BE HANDLED BY UTILIZING THE EXISITNG QUARRY PIT FLOOR AND PUMPING TO THE EXISITNG SETTLING POND.

EROSION AND SEDIMENT CONTROL WILL BE DESIGNED AND INSPECTED IN ACCORDANCE WITH THE FAIRFAX COUNTY EROSION AND SEDIMENT CONTROL MANUAL UTILIZING PERIMETER AND ON-SITE DEVICES TO ENSURE SEDIMENT LADEN RUNOFF DOES NOT LEAVE THE SITE.

PLAN OF OPERATION
SPECIAL PERMIT APPLICATION RENEWAL
OCCOQUAN QUARRY
MOUNT VERNON MAGISTERIAL DISTRICT
FAIRFAX COUNTY, VIRGINIA

COMMONWEALTH OF VIRGINIA
CHRIS S...
LIC...
01...
1-2-01
PROFESSIONAL ENGINEER

STEVENSON AND STEWART, INC.
CONSTRUCTION CONSULTANTS • TESTING & INSPECTION • ENGINEERING & SURVEYING
14221–B WILLARD ROAD SUITE 100
CHANTILLY, VIRGINIA 20151
TEL: (703) 961–1960 FAX: (703) 803–4586

CTI CONSULTANTS INC

DESIGNED	DRAWN	CHECKED	APPROVED	JOB NO.
N/A	RRY	RS		2D1150
SCALE 1" = 500'		DATE JANUARY 3, 2001		TAX MAP
		SHEET 1 OF 1		

Vulcan
Materials Company

COMPILED PHOTOGRAMMETRICALLY BY :
BELL MAPPING COMPANY WINSTON-SALEM, N.C.
DATE OF PHOTOGRAPHY : 10-20-92
HORIZONTAL DATUM ARBITRARY - BASED ON NORTH
VERTICAL DATUM ARBITRARY - BASED ON
CONTOURS IN TREED AREAS ARE APPROXIMATE
NATIONAL GEODETIC DATUM OF 1929

Application No. SPA 82-V-091-4

APPROVED SE (SP) PLAT

DEVELOPMENT CONDITIONS

Dated 5/2 (BS) (BZA) approval May 2 2001

Staff Coordinator Jennifer Josiah

Sheet 11 of 12

BEARING & DISTANCE TABLE:

1	N 34° 00' 06" W	56.13'	52	S 00° 20' 36" W	99.85'	102	S 66° 41' 23" E	94.82'
2	N 74° 17' 49" W	85.90'	53	S 70° 46' 06" W	71.59'	103	S 34° 03' 49" W	62.48'
3	N 00° 07' 11" E	105.84'	54	S 23° 27' 04" E	85.44'	104	S 09° 55' 48" W	201.72'
4	N 01° 50' 53" E	114.67'	55	N 86° 11' 26" E	86.15'	105	S 03° 49' 35" E	302.52'
5	N 43° 45' 43" E	130.17'	56	S 42° 28' 04" E	96.83'	106	S 29° 07' 10" W	174.50'
6	N 32° 48' 40" E	144.49'	57	S 03° 53' 34" E	53.08'	107	S 56° 04' 59" W	266.41'
7	N 67° 22' 00" E	50.90'	58	S 17° 18' 26" W	72.50'	108	S 37° 22' 47" W	204.41'
8	N 15° 16' 40" E	53.42'	59	S 43° 13' 06" W	45.45'	109	S 73° 41' 37" W	67.00'
9	N 53° 27' 55" W	77.44'	60	S 29° 13' 26" W	76.05'	110	S 38° 13' 23" E	122.16'
10	N 11° 28' 21" W	112.22'	61	S 84° 23' 04" E	194.81'	111	S 28° 35' 26" E	179.00'
11	N 07° 25' 35" W	90.86'	62	S 42° 23' 34" E	71.03'	112	S 80° 32' 11" E	234.17'
12	N 10° 25' 35" W	83.74'	63	N 67° 36' 26" E	45.61'	113	N 39° 44' 35" E	120.00'
13	N 49° 13' 09" E	84.37'	64	S 46° 09' 46" E	122.29'	114	S 85° 21' 04" E	232.09'
14	N 01° 15' 03" E	47.27'	65	S 65° 17' 16" W	30.36'	115	S 16° 41' 57" W	146.16'
15	N 32° 11' 30" E	196.91'	66	S 10° 19' 54" E	215.33'	116	S 73° 15' 55" E	13.78'
16	N 09° 29' 29" W	129.25'	67	S 32° 33' 34" E	67.54'	117	N 38° 39' 35" E	281.23'
17	N 00° 06' 43" W	158.56'	68	S 48° 10' 06" W	94.87'	118	N 45° 41' 25" E	157.12'
18	N 17° 15' 13" E	222.14'	69	S 22° 28' 44" E	117.18'	119	S 83° 28' 49" E	110.00'
19	N 84° 26' 39" E	10.32'	70	S 07° 58' 44" E	136.01'	120	N 85° 38' 59" E	93.68'
20	R = 213.23' A =	19.33'	71	S 07° 53' 16" W	196.73'	121	S 37° 31' 58" W	153.60'
21	S 17° 36' 09" W	139.95'	72	S 09° 27' 34" E	74.08'	122	N 27° 41' 58" W	65.36'
22	S 72° 35' 38" E	159.66'	73	S 28° 24' 06" E	25.81'	123	N 83° 28' 49" W	70.46'
23	N 13° 59' 12" W	168.91'	74	S 28° 45' 04" E	57.01'	124	S 45° 41' 25" W	117.39'
24	S 84° 40' 42" W	207.75'	75	S 21° 31' 16" W	98.01'	125	N 73° 15' 29" W	256.89'
25	S 27° 28' 00" W	118.58'	76	S 01° 32' 56" W	72.84'	126	N 28° 35' 26" W	61.61'
26	N 05° 75' 05" W	110.87'	77	S 33° 55' 06" W	41.11'	127	S 42° 28' 00" E	190.24'
27	S 32° 15' 45" W	325.01'	78	S 10° 49' 44" E	31.00'	128	N 42° 28' 00" W	104.12'
28	S 13° 15' 45" W	210.51'	79	S 67° 39' 44" E	26.42'	129	S 42° 28' 00" E	70.00'
29	S 04° 37' 14" E	135.43'	80	S 28° 42' 34" E	46.24'	130	S 34° 36' 47" W	140.18'
30	S 45° 34' 15" W	208.92'	81	S 08° 18' 24" E	49.01'	131	S 14° 15' 33" W	50.00'
31	S 23° 10' 56" W	171.42'	82	S 36° 41' 54" E	77.03'	132	S 25° 39' 48" E	151.84'
32	S 33° 13' 25" W	69.34'	83	S 05° 44' 24" E	41.01'	133	S 63° 19' 33" E	100.00'
33	S 27° 41' 29" W	90.35'	84	S 28° 17' 54" E	66.48'	134	S 39° 58' 39" E	224.74'
34	S 13° 38' 02" E	128.10'	85	S 66° 48' 44" E	61.40'	135	S 23° 19' 27" W	51.38'
35	S 55° 47' 27" W	94.30'	86	S 40° 28' 44" E	45.49'	136	N 39° 58' 39" W	220.74'
36	S 21° 23' 05" W	104.18'	87	S 03° 38' 34" E	131.24'	137	N 63° 19' 33" E	267.77'
37	S 18° 26' 35" E	44.27'	88	S 53° 07' 06" W	64.50'	138	N 14° 15' 33" E	365.55'
38	S 45° 35' 55" E	68.59'	89	S 10° 14' 56" W	103.74'	139	S 73° 15' 55" E	77.50'
39	S 26° 16' 00" E	83.63'	90	S 23° 44' 44" E	59.48'	140	S 61° 24' 55" E	355.31'
40	S 04° 49' 21" W	142.51'	91	S 75° 10' 34" E	66.85'	141	S 52° 25' 53" E	65.60'
41	S 04° 49' 21" W	72.19'	92	S 15° 16' 04" E	56.57'	142	S 54° 43' 39" E	100.44'
42	N 59° 47' 57" W	55.53'	93	S 19° 48' 06" W	68.42'	143	S 70° 45' 02" E	133.46'
43	N 39° 54' 29" W	120.49'	94	S 10° 46' 04" E	52.39'	144	S 85° 52' 34" E	58.04'
44	N 63° 45' 30" W	90.46'	95	S 17° 53' 14" E	90.41'	145	S 89° 25' 18" W	129.38'
45	N 16° 36' 07" W	90.21'	96	S 25° 03' 26" W	159.53'	146	N 69° 49' 52" W	69.92'
46	N 73° 09' 29" W	229.89'	97	N 53° 53' 04" W	325.11'	147	N 47° 17' 27" W	129.49'
47	N 55° 34' 22" W	136.27'	98	S 50° 28' 46" W	100.00'	148	N 62° 01' 32" W	85.00'
48	S 23° 28' 54" E	81.81'	99	N 43° 42' 46" E	100.00'	149	N 52° 08' 32" W	63.41'
49	S 69° 05' 34" E	121.24'	100	S 39° 27' 24" W	270.34'	150	N 63° 52' 02" W	386.41'
50	S 06° 03' 24" E	53.01'	101	S 58° 50' 32" E	152.04'	151	N 23° 19' 27" E	56.50'
51	S 34° 39' 44" E	80.06'						

NARRATIVE:

A SITE INVESTIGATION FOUND 81.5± ACRES OF THE TOTAL 305.4± ACRES OF THE SITE AREA TO BE IN ITS NATURAL STATE, VOID OF ANY QUARRYING OR RESTORATION ACTIVITY.

AS CAN BE SEEN, THE AREA SUBJECT TO RESTORATION WILL BE PRIMARILY OUTSIDE OF THE EXISTING QUARRY PIT AND THE RESERVED PIT AREA, TOTALING APPROXIMATELY 1,432,528.04 SF OR 78.8± ACRES.

AT THE END OF THE QUARRY'S USEFUL LIFE, VULCAN MATERIALS COMPANY WILL CONSIDER A NUMBER OF USES FOR THE QUARRY AREA, INCLUDING BUT NOT LIMITED TO: STORAGE, RECREATION, AND WATER RESERVOIR. IN MANY CASES, COMPLETED QUARRY SITES ARE USED AS WATER RESERVOIRS BY FAIRFAX COUNTY WATER AUTHORITY AND BECAUSE OF THE QUARRY'S PROXIMITY TO THE OCCOQUAN RIVER, THE SUBJECT PROPERTY MAY BE RESTORED FOR A SIMILAR USE. DUE TO THE ANTICIPATED MAJOR CHANGES IN TECHNOLOGY AND ENVIRONMENTAL REQUIREMENTS OVER THE PROPOSED QUARRY'S LIFE, IT IS IMPOSSIBLE AT THIS PRESENT TIME TO DEFINE OR COMMIT TO THE QUARRY'S END USE. HOWEVER, VULCAN MATERIALS COMPANY WILL WORK WITH THE COUNTY OF FAIRFAX TO INSURE THE QUARRY IS USED FOR A PRODUCTIVE AND COMPATIBLE USE.

THERE ARE NO EXISTING TOPSOIL OR OVERBURDEN STORAGE AREAS. HOWEVER, VULCAN MATERIALS INTENDS TO PROVIDE AN OVERBURDEN DISPOSAL AREA OF APPROXIMATELY 150,400.0± SF OR 3.5± AC. ALONG THE EASTERNLY PROPERTY LINE TO AID IN SCREENING QUARRY ACTIVITIES FROM THE ADJOINING PROPERTY OWNERS, AS PART OF THE FINAL QUARRY RESTORATION ON COMPLETION OF OPERATIONS. VULCAN MATERIALS COMPANY WILL SELECTIVELY USE DIRT FROM THE BERMS AND THE OVERBURDEN STORAGE AREAS FOR VEGETATIVE COVER, ON DISTURBED AREAS OUTSIDE THE PIT AREA.

RECLAMATION REQUIREMENTS FOR THE MINES AND QUARRIES ARE REGULATED UNDER NUMEROUS FEDERAL AND STATE LAWS, BUT NOT LIMITED TO VA CODE § 45.1-180, ET SEQ., WHICH REQUIRES THE POSTING OF FINANCIAL BONDS TO INSURE RECLAMATION COMPLIANCE. CONSEQUENCELY, VULCAN MATERIALS WILL BE REQUIRED TO PREPARE AND EXECUTE, PURSUANT TO FEDERAL, STATE AND LOCAL REGULATIONS, A WELL CONCEIVED RESTORATION PLAN AND PROGRAM WHICH SERVES BOTH ITS OPERATIONAL NEEDS AND THE PUBLIC GOOD. THE RESTORATION WILL ALLOW THE PROPERTY THAT IS DISTURBED BY QUARRY OPERATIONS AND OUTSIDE THE QUARRY PIT AREA TO BE RECLAIMED FOR A PRODUCTIVE USE, COMPATIBLE TO THE SURROUNDING LAND USES, AT SUCH TIME AS VULCAN MATERIALS QUARRYING OPERATIONS HAVE BEEN CONCLUDED.

LEGEND:

- DENOTES EX. HORIZONTAL CONTROL POINT
- DENOTES EX. VERTICAL CONTROL POINT
- 3500 — DENOTES EX. INDEX CONTOURS
- DENOTES EX. INTERMEDIATE CONTOURS
- 751.6 — DENOTES EX. SPOT SHOT ELEVATION
- DENOTES EX. WATER
- DENOTES EX. ROADS
- DENOTES EX. BUILDINGS
- DENOTES EX. UTILITY POLES
- DENOTES EX. FENCE
- DENOTES EX. TREES
- DENOTES PROPOSED LIMITS OF CLEARING AND GRADING

0 500 1000
GRAPHIC SCALE

PLAN OF RESTORATION
SPECIAL PERMIT APPLICATION
RENEWAL
OCCOQUAN QUARRY
MOUNT VERNON MAGISTERIAL DISTRICT
FAIRFAX COUNTY, VIRGINIA

STEVENSON AND STEWART, INC.
CONSTRUCTION CONSULTANTS • TESTING & INSPECTION • SURVEYING & DRAFTING
14221-B WILLARD ROAD SUITE 100
CHANTILLY, VIRGINIA 20151
TEL: (703) 961-1900 FAX: (703) 803-4596
EMAIL: sales@gti-va.com

DESIGNED	DRAWN	CHECKED	APPROVED	JOB NO.
N/A	SKY	RS	———	201150
SCALE		DATE		TAX MAP
1" = 500'		JANUARY 3, 2001		
		SHEET 1 OF 1		

DWG. LOG TO 11-941201150\SPASHEET10
PLOT @ 1"=200'
DATE: JAN 10, 2001

Vulcan
Materials Company

COMPILED PHOTOGRAMMETRICALLY BY :
BELL MAPPING COMPANY WINSTON-SALEM, N.C.
DATE OF PHOTOGRAPHY : 10-20-92
HORIZONTAL DATUM ARBITRARY - BASED ON NORTH
VERTICAL DATUM - MEAN SEA LEVEL
CONTOURS IN TREED AREAS ARE APPROXIMATE
NATIONAL GEODETIC DATUM OF 1929

BEARING & DISTANCE TABLE:

No.	Bearing	Distance
1	N 34° 00' 06" W	56.13'
2	N 24° 12' 49" W	85.90'
3	N 02° 07' 11" E	105.84'
4	N 07° 50' 53" E	114.67'
5	N 43° 45' 43" E	130.17'
6	N 32° 48' 40" E	144.49'
7	N 67° 22' 00" E	50.90'
8	N 15° 16' 40" E	53.42'
9	N 53° 27' 55" W	77.44'
10	N 11° 28' 21" W	112.22'
11	N 07° 25' 35" W	90.86'
12	N 07° 25' 35" W	83.74'
13	N 42° 13' 09" E	84.37'
14	N 01° 15' 03" E	47.27'
15	N 32° 11' 30" E	196.91'
16	N 09° 29' 29" W	129.25'
17	N 00° 06' 43" W	158.56'
18	N 17° 15' 13" E	222.14'
19	N 84° 26' 38" E	55.32'
20	R = 213.73' A = 19.33'	
21	S 17° 36' 09" W	139.95'
22	S 72° 35' 38" E	159.86'
23	N 33° 59' 12" W	168.91'
24	S 84° 40' 42" W	207.75'
25	S 27° 28' 20" W	118.58'
26	N 05° 75' 05" W	110.87'
27	S 32° 10' 45" W	325.10'
28	S 13° 15' 45" W	210.51'
29	S 04° 37' 14" E	135.43'
30	S 45° 34' 15" W	208.97'
31	S 23° 10' 56" W	171.42'
32	S 33° 13' 25" W	69.34'
33	S 27° 41' 29" W	80.35'
34	S 12° 38' 02" E	128.10'
35	S 55° 47' 47" W	94.30'
36	S 21° 23' 05" W	104.18'
37	S 18° 26' 35" E	44.27'
38	S 45° 35' 55" E	68.59'
39	S 26° 16' 00" E	83.63'
40	S 04° 49' 21" W	142.51'
41	S 16° 26' 39" W	72.19'
42	N 59° 47' 57" W	55.53'
43	N 39° 54' 29" W	120.49'
44	N 63° 45' 30" W	90.46'
45	N 16° 36' 07" W	90.21'
46	N 73° 08' 29" W	229.89'
47	N 55° 34' 22" W	136.27'
48	S 23° 25' 54" E	61.81'
49	S 69° 05' 34" E	121.24'
50	S 06° 03' 24" E	53.01'
51	S 34° 39' 44" E	80.06'
52	S 00° 20' 36" W	99.85'
53	S 70° 46' 06" W	71.59'
54	S 23° 27' 04" E	85.44'
55	N 86° 11' 26" E	86.15'
56	S 42° 28' 04" E	96.83'
57	S 03° 53' 54" E	53.08'
58	S 17° 18' 26" W	72.50'
59	S 43° 13' 06" W	45.45'
60	S 28° 13' 26" W	76.05'
61	S 84° 23' 04" E	194.81'
62	S 42° 23' 34" E	71.03'
63	N 67° 36' 26" E	45.61'
64	S 46° 09' 44" E	122.29'
65	S 65° 37' 16" W	30.36'
66	S 10° 19' 54" E	215.33'
67	S 32° 33' 54" E	67.54'
68	S 46° 10' 06" W	94.87'
69	S 22° 28' 44" E	117.18'
70	S 07° 58' 44" E	136.01'
71	S 07° 53' 16" W	196.73'
72	S 09° 27' 34" E	74.06'
73	S 26° 24' 06" E	25.81'
74	S 26° 45' 04" E	57.01'
75	S 21° 31' 16" W	98.01'
76	S 01° 32' 56" W	72.84'
77	S 33° 55' 06" W	41.11'
78	S 10° 49' 44" E	31.00'
79	S 67° 39' 44" E	26.42'
80	S 26° 42' 34" E	46.24'
81	S 08° 18' 24" E	49.01'
82	S 36° 41' 54" E	77.03'
83	S 05° 44' 24" E	41.01'
84	S 28° 17' 54" E	66.48'
85	S 66° 48' 44" E	61.40'
86	S 40° 28' 44" E	45.49'
87	S 03° 38' 34" E	131.24'
88	S 53° 07' 06" W	84.50'
89	S 10° 14' 56" W	103.74'
90	S 23° 44' 44" E	59.48'
91	S 75° 10' 34" E	66.85'
92	S 15° 16' 04" E	56.57'
93	S 19° 48' 06" W	68.42'
94	S 30° 46' 04" E	52.39'
95	S 17° 53' 14" E	90.41'
96	S 25° 03' 26" W	159.53'
97	N 53° 23' 04" W	325.11'
98	S 50° 28' 46" W	100.00'
99	N 43° 42' 46" E	100.00'
100	S 39° 27' 24" W	270.34'
101	S 58° 50' 32" E	152.04'
102	S 66° 41' 25" E	94.82'
103	S 34° 03' 48" W	62.48'
104	S 09° 55' 48" W	201.72'
105	S 03° 48' 35" E	302.52'
106	S 29° 07' 10" W	174.50'
107	S 56° 04' 59" W	266.41'
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111	S 28° 35' 26" E	179.00'
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114	S 85° 21' 04" E	232.09'
115	S 16° 41' 57" W	146.16'
116	S 73° 15' 29" E	13.78'
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118	N 45° 41' 25" E	157.12'
119	S 83° 28' 49" E	110.00'
120	N 85° 38' 59" E	93.68'
121	S 37° 31' 58" W	153.60'
122	N 27° 41' 58" W	65.36'
123	N 83° 28' 49" W	70.46'
124	S 45° 41' 25" W	117.39'
125	N 73° 15' 29" W	256.89'
126	N 28° 35' 26" W	61.61'
127	S 42° 28' 00" E	190.24'
128	N 42° 28' 00" W	104.12'
129	S 42° 28' 00" E	70.00'
130	S 34° 38' 47" W	140.18'
131	S 14° 15' 33" W	50.00'
132	S 25° 39' 48" E	151.84'
133	S 63° 19' 33" E	100.00'
134	S 79° 58' 39" E	224.74'
135	S 23° 19' 27" W	51.38'
136	N 79° 58' 39" W	220.24'
137	N 63° 19' 33" W	267.77'
138	N 14° 15' 33" E	365.55'
139	S 73° 26' 35" E	77.20'
140	S 61° 24' 55" E	355.31'
141	S 52° 25' 53" E	65.60'
142	S 54° 43' 39" E	100.44'
143	S 70° 45' 02" E	133.46'
144	S 85° 52' 34" E	58.04'
145	S 59° 25' 18" W	129.38'
146	N 69° 49' 52" W	69.92'
147	N 47° 17' 27" W	129.49'
148	N 62° 01' 32" W	85.00'
149	N 52° 08' 32" W	63.41'
150	N 63° 52' 02" W	386.41'
151	N 23° 19' 27" E	56.50'

Application No. SPA 82-V-091-4

APPROVED SE/SP PLAT

SEE DEVELOPMENT CONDITIONS

Date of (BOS) (BZA) approval May 2, 2001
Staff Coordinator Jennifer Josiah
Sheet 12 of 12

LEGEND:

Symbol	Description
△H	DENOTES EX. HORIZONTAL CONTROL POINT
⊙V	DENOTES EX. VERTICAL CONTROL POINT
3500	DENOTES EX. INDEX CONTOURS
	DENOTES EX. INTERMEDIATE CONTOURS
751.6	DENOTES EX. SPOT SHOT ELEVATION
	DENOTES EX. WATER
	DENOTES EX. ROADS
	DENOTES EX. BUILDINGS
	DENOTES EX. UTILITY POLES
	DENOTES EX. FENCE
	DENOTES EX. TREES
	DENOTES PROPOSED LIMITS OF CLEARING AND GRADING

0 500 1000
GRAPHIC SCALE

NOTES

1) AREAS WHICH REQUIRE THE PLACEMENT OF TOPSOIL TO PROMOTE VEGETATION SHALL BE COVERED NOT LESS THAN 0.5'.

2) ALL AREAS OF THE SITE EXCEPT FOR THE QUARRY PIT SHALL BE GRADED TO PRECLUDE THE IMPONDMENT OF WATER.

FINAL GRADING PLAN

SPECIAL PERMIT APPLICATION RENEWAL

OCCOQUAN QUARRY

MOUNT VERNON MAGISTERIAL DISTRICT
FAIRFAX COUNTY, VIRGINIA

COMMONWEALTH OF VIRGINIA
CHRIS STEVENSON
LICENSE No. 015376
PROFESSIONAL ENGINEER

STEVENSON AND STEWART, INC.
CONSTRUCTION CONSULTANTS • TESTING & INSPECTION • ENGINEERING & SURVEYING
14221-B WILLARD ROAD, SUITE 100
CHANTILLY, VIRGINIA 20151
TEL: (703) 961-1960 FAX: (703) 803-4586
EMAIL: ssiengineer@aol.com

CTI

DESIGNED	DRAWN	CHECKED	APPROVED	JOB NO.
N/A		FM		4978
SCALE		DATE		TAX MAP
1" = 500'		FEBRUARY 19, 1993		
		SHEET 1 OF 2		

FILE #683FGD.DWG

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