



ARNOLD AIKEN, PE 2954  
AS TO SEDIMENTATION  
AND SOIL EROSION  
DESIGN ONLY.

MARRIOTT CORP. PROP.  
ZONED B-2  
USE: HOTEL

1. ALL DIMENSIONS SHALL COMPLY WITH THE TOWN OF CARY BUILDING CODES
2. A DIF FORMATTED COMPUTER DISK IS AVAILABLE UPON REQUEST FOR COMPLETE LAYOUT INFORMATION

**SITE DATA**

SITE AREA 172671.8 / 3.964 AC  
ZONING B-2  
BUILDING USE OFFICE SPACE  
REQ. PARKING PHASE 1: 68 SPACES  
PHASE 2: 31 SPACES  
PARKING PROVIDED PHASE 1 92 SPACES  
PHASE 2 33 SPACES  
HDGP REQUIRED 3 SPACES  
HDGP PROVIDED 3 SPACES  
BUILDING HEIGHT 1 STORY  
VEHICLE SURFACE 56,800 SF BOTH PHASES  
BUILDING AREA 20,400 SF PHASE 1  
9,100 SF PHASE 2  
TOTAL IMPERVIOUS AREA 86,300 SF

OWNER:  
PIZZAGALLI INVESTMENT COMPANY  
2000 AERIAL CENTER PARKWAY  
CARY, NORTH CAROLINA

FLOOD FRINGE  
ELEV. 288.0

PROPERTY OF WAKE COUNTY  
ZONED RESOURCE CONSERVATION  
USE OPEN SPACE

PROVIDE TRAPEZOID CHANNEL, 3' BASE  
AND 1:1 SIDE SLOPE TO DIRECT RUNOFF  
FROM CURB CUT. FLOW IS (0.25 AC X  
0.9 X 7.5) 1.7 CFS. SLOPE IS 33%.  
VELOCITY IS 5 FPS  
FLATTEN CHANNEL SLOPE AT  
NATURAL GROUND TO 5% AND  
EXTEND LINING FOR 6 FEET.  
RE-CALCULATING AT 5% SLOPE,  
VELOCITY IS 2.9 FPS AND  
NON-EROSIVE.

PROVIDE DRAINAGE SWALE TO ENSURE ALL  
SILT-LADEN ON-SITE RUNOFF IS DIVERTED  
INTO THIS STRUCTURE, EXCEPT WHERE RETAINED  
BY THE SILT FENCE.

GRAVEL AND RIP-RAP FILTER BASIN  
STD 4.03 ON SHEET 4  
SIZING:  
BASIN WILL CATCH 1.7 AC OF RUNOFF  
AT 1800 CF SILT/YEAR/ACRE. BASIN MUST  
RETAIN 3060 CF OF SILT. AT DEPTH OF  
BASIN TO BE 28' X 28'

FES OUTLET PROTECTION:  
DRAINAGE AREA 1.6 AC.  
C=0.9 I=7.5"/HR A=1.6  
Q=11 CFS  
PIPE SLOPE = 1.25%  
OUTLET VELOCITY = 8.2 FPS

NY DOT CHART USED FOR CONTROL  
ZONE 2 REQUIRES CLASS "B" RIP-RAP,  
LENGTH OF 12', WIDTH OF 6'-  
TYPE A, DET. W-1, SHEET 4

PROPOSED SITE PLAN FOR  
**COORDINATED MEDICAL SERVICES  
AERIAL CENTER EXECUTIVE PARK**

TOWN OF CARY, NORTH CAROLINA  
JULY 30, 1991 SCALE 1" = 20'

ISSUED FOR CONSTRUCTION

**SEDIMENTATION AND EROSION CONTROL SHEET 3 OF 7**

REVISED 9/5/91

**MVA** Murphy Valle Associates  
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