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Colee Creek (Weatherstone SP)
Intersection Sight Distance Calculations

Reference is made to the AASHTO "Green Book", 2004, pp. 657 - 662.

The formula is: $ISD = 1.47V_{major} \times \text{grade adjustment factor}$

Speed used is 45 mph for Maynard Road and 25 mph for other roads. All sight triangles begin at 14.5 feet back from the edge of pavement of the major road.

Road "A" is the road from NW Maynard Rd. into the project. Road "B" is the road that intersects Road "A" in two locations. Road "C" is the cul-de-sac road.

NW Maynard Rd. (major) and Road "A"
Right Turn ISD = 1.47(45)(7.0)(1.0) = 465.03' Say 464'
Left Turn ISD = 1.47(45)(8.0)(1.0) = 529.20' Say 510'

Road "A" (major) and Road "C"
Right Turn ISD = 1.47(25)(5.5)(1.0) = 218.88' Say 219'
Left Turn ISD = 1.47(25)(7.5)(1.0) = 275.63' Say 276'

Road "A" (major) and Road "B" (NW intersection)
Right Turn ISD = 1.47(25)(5.5)(1.0) = 218.88' Say 219'
Left Turn ISD = 1.47(25)(7.5)(1.0) = 275.63' Say 276'

Road "B" (major) and Road "A" (SE intersection)
Right Turn ISD = 1.47(25)(5.5)(1.0) = 218.88' Say 219'
Left Turn ISD = 1.47(25)(7.5)(1.0) = 275.63' Say 276'

Project File # & ABC# (Weatherstone SP, 106562900) 105105



SIGHT EASEMENTS WILL BE RECORDED WHERE SIGHT-LINES ENCRUCH INTO PRIVATE PROPERTY.

ALL INTERIOR SITE ROADS ARE TO BE MINOR LOCAL.

PREVIOUSLY APPROVED WEATHERSTONE GREENS SECTION ONE (CONGREGATE CARE & CONDOMINIUMS)



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PROJECT: WEATHERSTONE SP

SKETCH PLAN APPROVAL FOR

Colee Creek at Weatherstone

Section Two
Cary, North Carolina

12-25 TBC

DATE	CHECKED
WH/JA	WH
SCALE	DATE
1"=60'	9/16/05
SYMBOLS	SHRUBS

SIGHT-LINE PLAN

FILE NO. 2850
SHEET NO. 2850

05-SB-017
APPROVED TOWN OF CARY

DRG DRC DATE 1/18/05

PLANNING DATE 12/14/05

ENGINEERING DATE 12/14/05

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