



RESEARCH BOULEVARD  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'

Sight Distance Measurement and Evaluation Worksheet

Project: Mallory Square (VM1667A) #120120180  
Date: 01/30/2012

Entrance 1

RIGHT ←      ←      →      RIGHT

Lights      ←      →      Lights

Research boulevard

**Research Boulevard Evaluation**

Speed Limit for Evaluation  
Posted Speed = 30 mph  
Target Speed = Posted Speed = 30 mph      \* - Criteria Met Reference.

INTERSECTION SIGHT DISTANCE (ISD)	REQUIREMENT (ft)	
	LEFT	RIGHT
• 3.5' object placed at proposed access	335	290
• 3.5' driver's eye height on approaching lane		

STOPPING SIGHT DISTANCE (SSD)	REQUIREMENT (ft)	
	LEFT	RIGHT
• 2.0' object placed at proposed access	200	200
• 3.5' driver's eye height on approaching lane		

Turning Movement	State Standard ISD Measurement Based on Posted Speed	State Standard SSD Measurement Based on Posted Speed
	Left Turn onto Research Blvd. from Entrance 1	375 and 295
Right Turn from Entrance 1 onto Research Blvd.	295	295

**Design Criteria Used**  
Per Montgomery County Council Bill 48-06, Article 3, 49-26 - "The target speed is usually the posted speed limit"  
Per AASHTO Case B1 (Left Turn from Stop)  
Per AASHTO Case B2 (Right Turn from Stop)

Sight Distance Measurement and Evaluation Worksheet

Project: Mallory Square (VM1667A) #120120180  
Date: 01/30/2012

Entrance 2

RIGHT ←      ←      →      RIGHT

Lights      ←      →      Lights

Research boulevard

**Research Boulevard Evaluation**

Speed Limit for Evaluation  
Posted Speed = 30 mph  
Target Speed = Posted Speed = 30 mph      \* - Criteria Met Reference.

INTERSECTION SIGHT DISTANCE (ISD)	REQUIREMENT (ft)	
	LEFT	RIGHT
• 3.5' object placed at proposed access	335	290
• 3.5' driver's eye height on approaching lane		

STOPPING SIGHT DISTANCE (SSD)	REQUIREMENT (ft)	
	LEFT	RIGHT
• 2.0' object placed at proposed access	200	200
• 3.5' driver's eye height on approaching lane		

Turning Movement	State Standard ISD Measurement Based on Posted Speed	State Standard SSD Measurement Based on Posted Speed
	Left Turn onto Research Blvd. from Entrance 2	370 and 493
Right Turn from Entrance 2 onto Research Blvd.	493	493

**Design Criteria Used**  
Per Montgomery County Council Bill 48-06, Article 3, 49-26 - "The target speed is usually the posted speed limit"  
Per AASHTO Case B1 (Left Turn from Stop)  
Per AASHTO Case B2 (Right Turn from Stop)

Sight Distance Measurement and Evaluation Worksheet

Project: Mallory Square (VM1667A) #120120180  
Date: 01/30/2012

Entrance 3

RIGHT ←      ←      →      RIGHT

Lights      ←      →      Lights

Research boulevard

**Research Boulevard Evaluation**

Speed Limit for Evaluation  
Posted Speed = 30 mph  
Target Speed = Posted Speed = 30 mph      \* - Criteria Met Reference.

INTERSECTION SIGHT DISTANCE (ISD)	REQUIREMENT (ft)	
	LEFT	RIGHT
• 3.5' object placed at proposed access	335	290
• 3.5' driver's eye height on approaching lane		

STOPPING SIGHT DISTANCE (SSD)	REQUIREMENT (ft)	
	LEFT	RIGHT
• 2.0' object placed at proposed access	200	200
• 3.5' driver's eye height on approaching lane		

Turning Movement	State Standard ISD Measurement Based on Posted Speed	State Standard SSD Measurement Based on Posted Speed
	Left Turn onto Research Blvd. from Entrance 3	400 and 685
Right Turn from Entrance 3 onto Research Blvd.	685	685

**Design Criteria Used**  
Per Montgomery County Council Bill 48-06, Article 3, 49-26 - "The target speed is usually the posted speed limit"  
Per AASHTO Case B1 (Left Turn from Stop)  
Per AASHTO Case B2 (Right Turn from Stop)

ENTRANCES 1, 2 AND 3  
TARGET SPEED: 30 MPH  
STOPPING SIGHT DISTANCE REQUIRED = 200'  
INTERSECTION SITE DISTANCE REQUIRED = 335' (LEFT)  
290' (RIGHT)

- LEGEND**
- ▽ - 3.5' ABOVE GRADE (HEIGHT OF EYE)
  - - 2.00' ABOVE GRADE (HEIGHT OF OBJECT)
  - INTERSECTION SITE LINE
  - STOPPING SITE LINE

**PROFESSIONAL CERTIFICATION**

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland.

Signature: Jagdish Mandavia, PE  
Printed Name: Jagdish Mandavia, PE  
Title: Senior Associate

Date: March 23, 2012  
Date: March 22, 2013  
Expiration Date: [blank]

License No. 20776

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Rockville, Maryland

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SEAL  
DRAWN BY:      CHECKED: IPD

NO.	DESCRIPTION	DATE
1	REV. PER AGENCY INTAKE COMMENTS	3.23.2012

SUBMISSIONS & REVISIONS

SHEET TITLE  
**SIGHT DISTANCE ELEVATION PLAN**

SCALE	DATE	PROJ.#
	FEB. 17, 2012	M1667A

PROJECT PHASE

DRAWING #