

Mission Hills Alternatives

Option	Description	Right of Way	Traffic	Environmental Impacts	CCT Travel Time	CCT Cost
Line and Grade	Alignment on the east side of Muddy Branch Road and center of Belward Campus spine roadway	<ul style="list-style-type: none"> 1 residential displacement 	<ul style="list-style-type: none"> No free right turn from: <ul style="list-style-type: none"> → Muddy Branch to Great Seneca → Muddy Branch Road to Mission Drive → Mission Drive to Muddy Branch Road → Belward Campus Drive to Muddy Branch Road 	<ul style="list-style-type: none"> Minor wetland and stream impacts 	-	-
Option 1	Median Alignment with 4 lanes on Muddy Branch Road	<ul style="list-style-type: none"> No residential displacements 	<ul style="list-style-type: none"> Allows free right turns on red at: <ul style="list-style-type: none"> → Muddy Branch to Great Seneca → Muddy Branch Road and Midsummer/ Mission Drive → Muddy Branch Road and Belward Campus Drive Reduced delay for NB Muddy Branch to EB Great Seneca by 45 seconds 	<ul style="list-style-type: none"> Minor wetland and stream impacts Similar to Line and Grade 	+0.5 minutes	+\$2M over Line and Grade
Option 2	Along Great Seneca Highway to existing lanes on Belward Campus Drive to LSC Belward station then U-turn back to Johns Hopkins Drive	<ul style="list-style-type: none"> No residential displacements Additional ROW impacts to 3 homes in Mission Hills 	<ul style="list-style-type: none"> No free right turn from: <ul style="list-style-type: none"> → Muddy Branch to Great Seneca Allows free right turns on red at: <ul style="list-style-type: none"> → Muddy Branch Road and Midsummer/ Mission Drive → Muddy Branch Road and Belward Campus Drive 	<ul style="list-style-type: none"> Least Forest Conservation easement impacts Most wetland impacts SWM regional pond impacts 	+2.0 minutes	+\$0.5M over Line and Grade
Option 3	Along Great Seneca Highway then south between existing SWM pond and Mission Hills Community	<ul style="list-style-type: none"> No residential displacements Additional ROW impacts to 6 homes in Mission Hills 	<ul style="list-style-type: none"> No free right turn from: <ul style="list-style-type: none"> → Muddy Branch to Great Seneca Allows free right turns on red at: <ul style="list-style-type: none"> → Muddy Branch Road and Midsummer/ Mission Drive → Muddy Branch Road and Belward Campus Drive 	<ul style="list-style-type: none"> Second highest Forest Conservation Easement impacts Most stream impacts SWM regional pond impacts 	-0.5 minutes	+\$1M over Line and Grade
Option 4	Along Great Seneca Highway then around existing SWM pond to the east side of Belward Farm	<ul style="list-style-type: none"> No residential displacements Additional ROW impacts to 3 homes in Mission Hills 	<ul style="list-style-type: none"> No free right turn from: <ul style="list-style-type: none"> → Muddy Branch to Great Seneca Allows free right turns on red at: <ul style="list-style-type: none"> → Muddy Branch Road and Midsummer/ Mission Drive → Muddy Branch Road and Belward Campus Drive 	<ul style="list-style-type: none"> Most Forest Conservation Easement impacts SWM regional pond impacts 	-1.0 minutes	+\$1M over Line and Grade