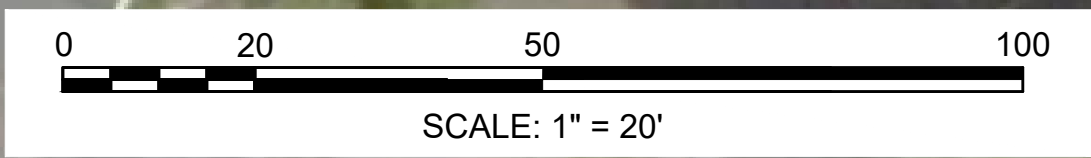




LIMITS OF TREE TRIMMING/REMOVAL
REQUIRED TO ACHIEVE MINIMUM
SIGHT DISTANCE

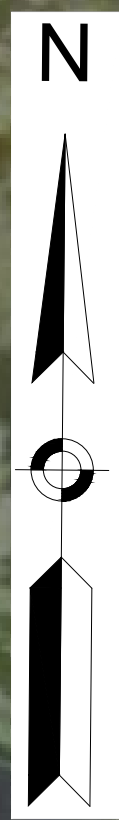
LIMITS OF TREE TRIMMING/REMOVAL
REQUIRED TO ACHIEVE MINIMUM
SIGHT DISTANCE

NOTES:
1. ALL RADII EVALUATED FOR WB-40 TRUCK TURNS AND ASSUMING THAT TRUCKS SHOULD NOT CROSS OVER ROADWAY CENTERLINE.
2. THIS CONCEPTUAL DESIGN REQUIRES THE REMOVAL OF THE EXISTING RAISED ISLANDS AND ISLAND VEGETATION ON ELM STREET AND BROADWAY.



Broadway at Elm St
Concept #1 - Skewed Intersection
Hanover, MA

August 2019



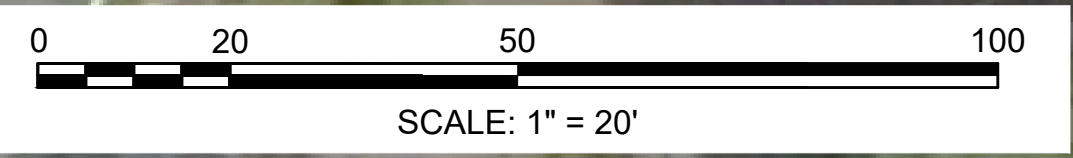
LIMITS OF TREE TRIMMING/REMOVAL
REQUIRED TO ACHIEVE MINIMUM
SIGHT DISTANCE

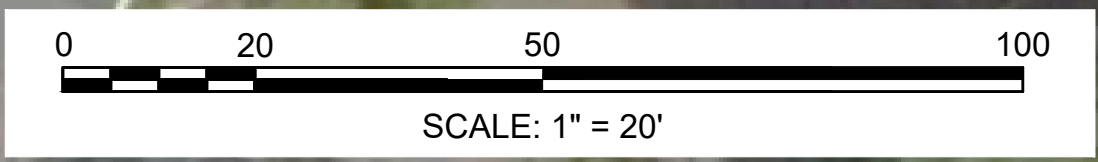
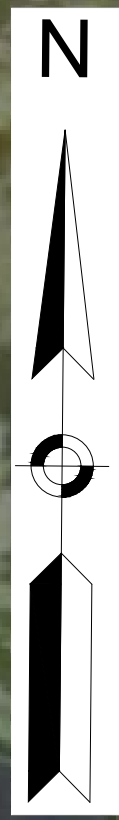
LIMITS OF TREE TRIMMING/REMOVAL
REQUIRED TO ACHIEVE MINIMUM
SIGHT DISTANCE

NOTES:
1. ALL RADII EVALUATED FOR WB-40 TRUCK TURNS AND ASSUMING THAT
TRUCKS SHOULD NOT CROSS OVER ROADWAY CENTERLINE.
2. THIS CONCEPTUAL DESIGN REQUIRES THE REMOVAL OF THE EXISTING
RAISED ISLANDS AND ISLAND VEGETATION ON ELM STREET AND
BROADWAY.

$\Delta=24^{\circ}00'41''$
 $R=250.00'$
 $L=104.77'$
 $T=53.16'$

$R=335.00'$
 $L=232.46'$
 $T=121.13'$





NOTES:
1. ALL RADII EVALUATED FOR WB-40 TRUCK TURNS AND ASSUMING THAT TRUCKS SHOULD NOT CROSS OVER ROADWAY CENTERLINE.
2. THIS CONCEPTUAL DESIGN REQUIRES THE REMOVAL OF THE EXISTING RAISED ISLANDS AND ISLAND VEGETATION ON ELM STREET AND BROADWAY.
3. THE HORIZONTAL GEOMETRY FOR BROADWAY IN THIS CONCEPTUAL DESIGN MEETS THE DESIGN REQUIREMENTS FOR A 30 MPH DESIGN SPEED UNDER THE ASSUMPTION/REQUIREMENT THAT THE ROADWAY IS SUPERELEVATED AT LEAST 2.0%.

LIMITS OF TREE TRIMMING/REMOVAL
REQUIRED TO ACHIEVE MINIMUM
SIGHT DISTANCE

LIMITS OF TREE
TRIMMING/REMOVAL REQUIRED TO
ACHIEVE MINIMUM SIGHT DISTANCE

BROADWAY

ELM ST

ISD = 335'

ISD = 290'

PC +60.91

R=40'

R=200'

PC +99.09

R=400'

L=215.081, R=310.000
Δ=039.7524

Δ=24°00'41"
R=250.00'
L=104.77'
T=53.16'

22 PT +03.86

13

22+50

14

15

PT +75.99

15

15+50

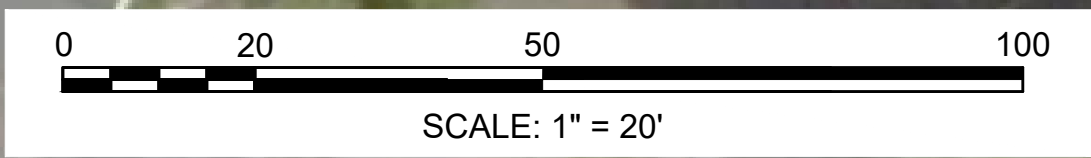
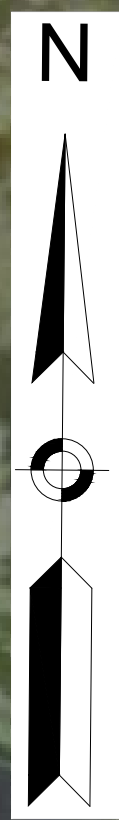
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11

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21

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Broadway at Elm St
Existing Intersection Sight Distances
Hanover, MA

August 2019