

Archived: Wednesday, July 5, 2023 9:33:33 AM
From: [Paul Vitaliano](#)
Sent: Friday, June 30, 2023 3:32:53 PM
To: [McGregor George](#) [Kessler Adam](#)
Cc: [Gregg Nanni \(g.nanni@theprospectco.com\)](#) [Charles Baker](#)
Subject: Hopmeadow Street - Drive Configuration

Importance: Normal

Sensitivity: None

Attachments:

VHB Traffic Counts.pdf  Big Y Report Volume Projections - PM Peak.pdf  Sketch 1 - Right In Only.pdf  Sketch 1 - SU-40.pdf  Sketch 1-Fire Truck.pdf  Sketch 2 - Fire Truck.pdf  Sketch 2 - Passenger Car.pdf  Sketch 2 - SU40.pdf 

George and Adam,

Thank you for meeting yesterday and offering to expedite review of the following.

As discussed, we have prepared two alternate sketches with vehicle turning movements templates for the main driveway. The first sketch shows a potential change in the driveway configuration to allow only right-in and right-out movements. The second sketch shows the previously submitted configuration, which allows full access in, and only right-out movements. Both of these sketches have been prepared to address CTDOT's comment to push the face of curb for the central island 4-feet behind the extension of the curbline along the main road and to address the Fire Department comment to increase the lane widths to 18-feet.

The geometry for the right-in only alternative was designed to provide a fairly acute angle for the entering vehicle to make it more difficult for a driver to make the restricted left-turn into the driveway. However, shifting the island back 4-feet to address CTDOT's comment leaves much more room at the opening, and a passenger vehicle will be able to comfortably make the restricted left-turn movement into the site. It also cannot accommodate a fire truck without hopping the curb. The fire marshal indicated he would use the Big Y entrance.

The attached Sketch 2 demonstrates that the full access in/right-out alternative will be able to accommodate fire trucks entering the site without encroaching onto the mountable curb.

We also obtained a copy of the Hesketh traffic report (dated 2012) to figure out how the length of the left-turn storage lane into the Big Y was designed. We compared the traffic projections used in the original Big Y traffic report to the actual counted volumes we collected, and we found that Big Y volumes were overly conservative in a few ways:

- The through volumes traveling along Hopmeadow Street were significantly higher in the 2012 report than the current volumes (1852/hour in 2012 PM peak vs. 1,290/hour now).
- The total traffic volumes they were forecasting to enter the Big Y were higher than the actual counted volumes.
- In the original traffic report, they were forecasting 70% of the traffic entering the Big Y to come from the south and turn left into the site. However, based on the actual counts, approximately 90% of traffic entering the Big Y during the peak hours comes from the north and turns right into the site. Overall, the 2012 report was forecasting 228 left-turns per hour at the Big Y during the PM peak, and our traffic counts show only 15 per hour.

Based on the conservative projections above, the Big Y report forecasted much longer vehicle queues in the left-turn lane than our analysis and observations. Attached is a PDF of the volume projections from the original Big Y report and our actual traffic counts for comparison.

Thank you.



Paul Vitaliano, P.E., CPESC
CT Director of Land Development
Land Development

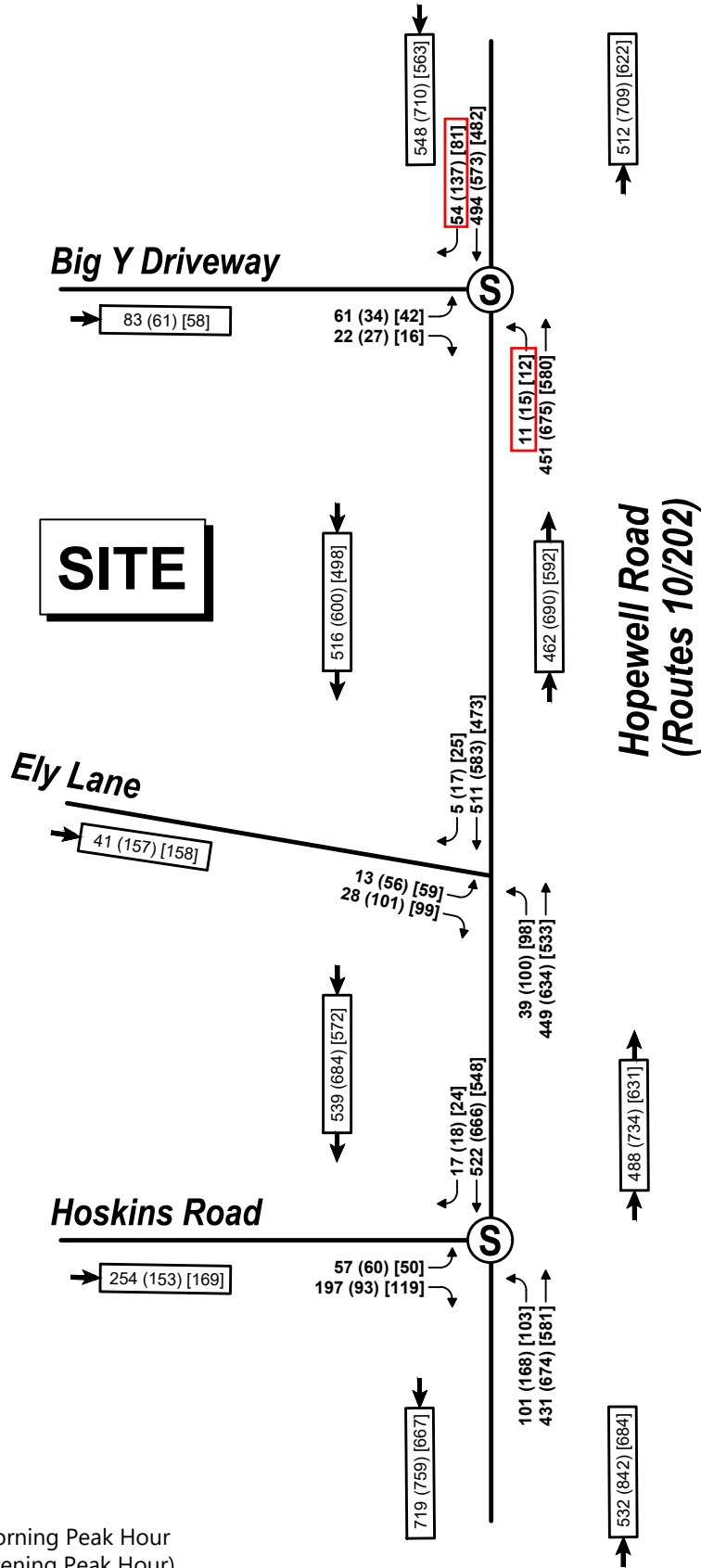


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Weekday Morning Peak Hour
 # (Weekday Evening Peak Hour)
 # [Saturday MIDDAY Peak Hour]



Not to Scale



2022 Existing Conditions
 Peak Hour Traffic Volumes
 Mixed-Use Development
 Simsbury, CT

Figure 2

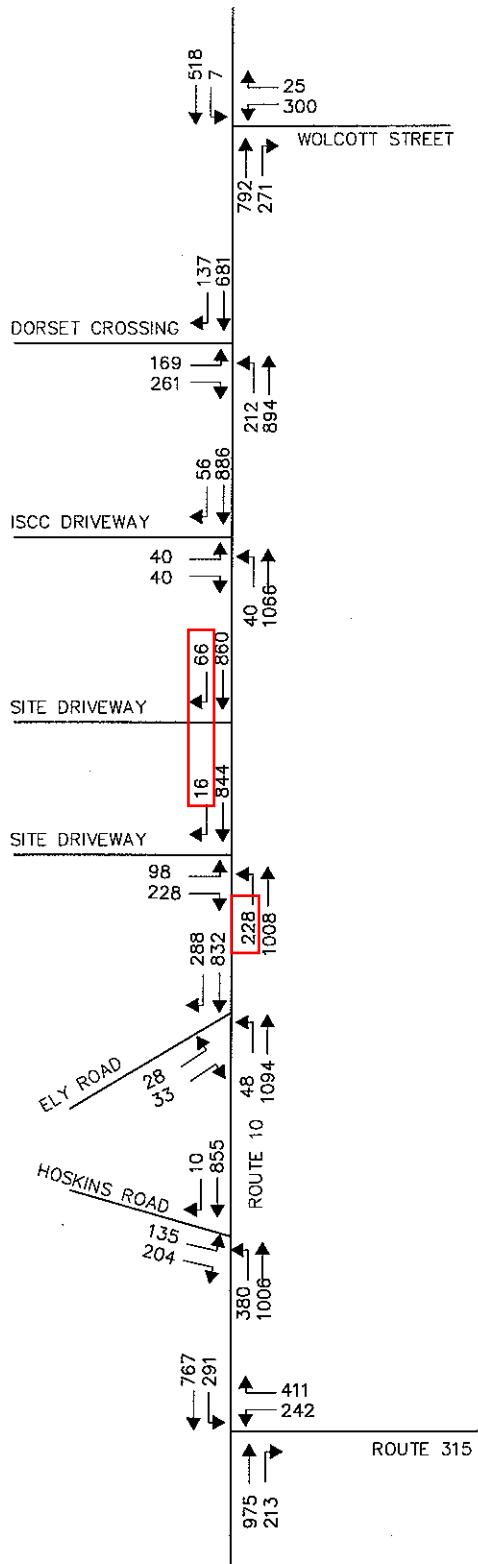


FIGURE 9 7-10-12

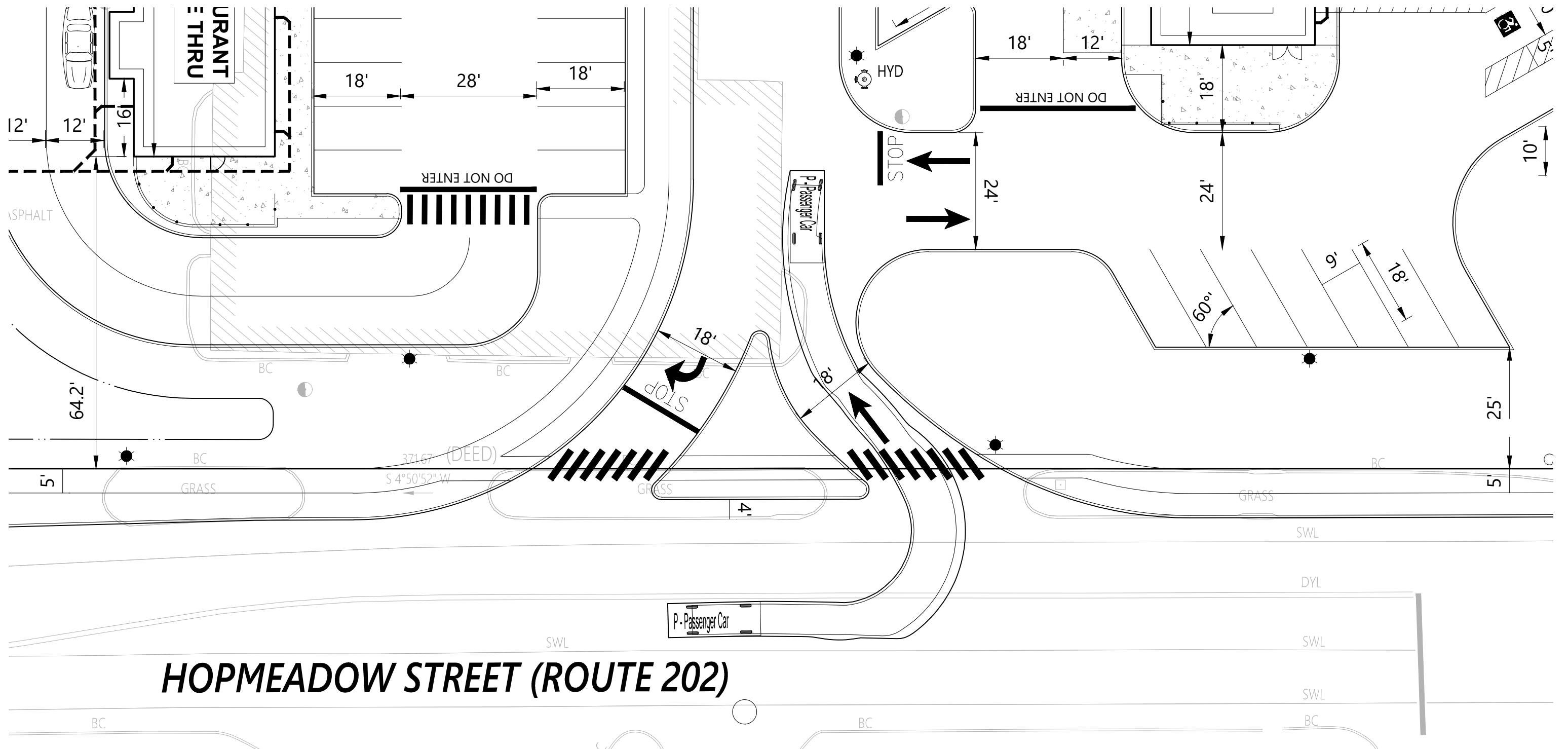
2015 COMBINED TRAFFIC
PM PEAK HOUR

BIG Y
ROUTE 10/202
SIMSBURY, CONNECTICUT

F. A. Hesketh & Associates, Inc.
0 CREAMERY BROOK, EAST GRANBY, CT 06026

FAH TRAFFIC
PLANNING
ENGINEERING
DESIGN

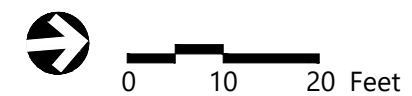
NOT TO SCALE.

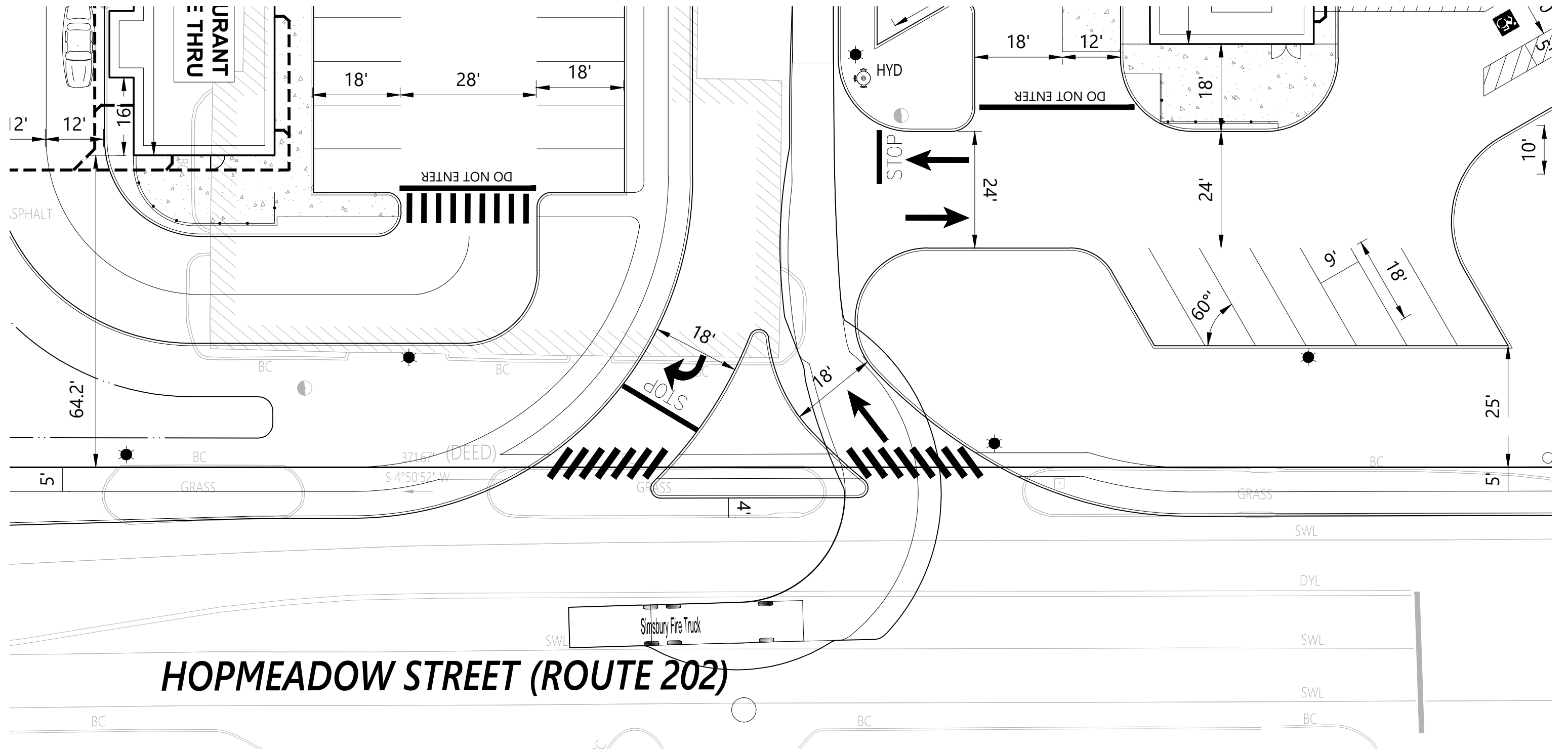


HOPMEADOW STREET (ROUTE 202)

Sketch 1 - Right In Only - Passenger Car

1263 Hopmeadow Street
Simsbury, CT

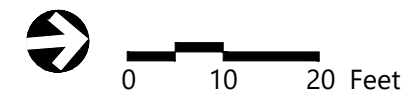


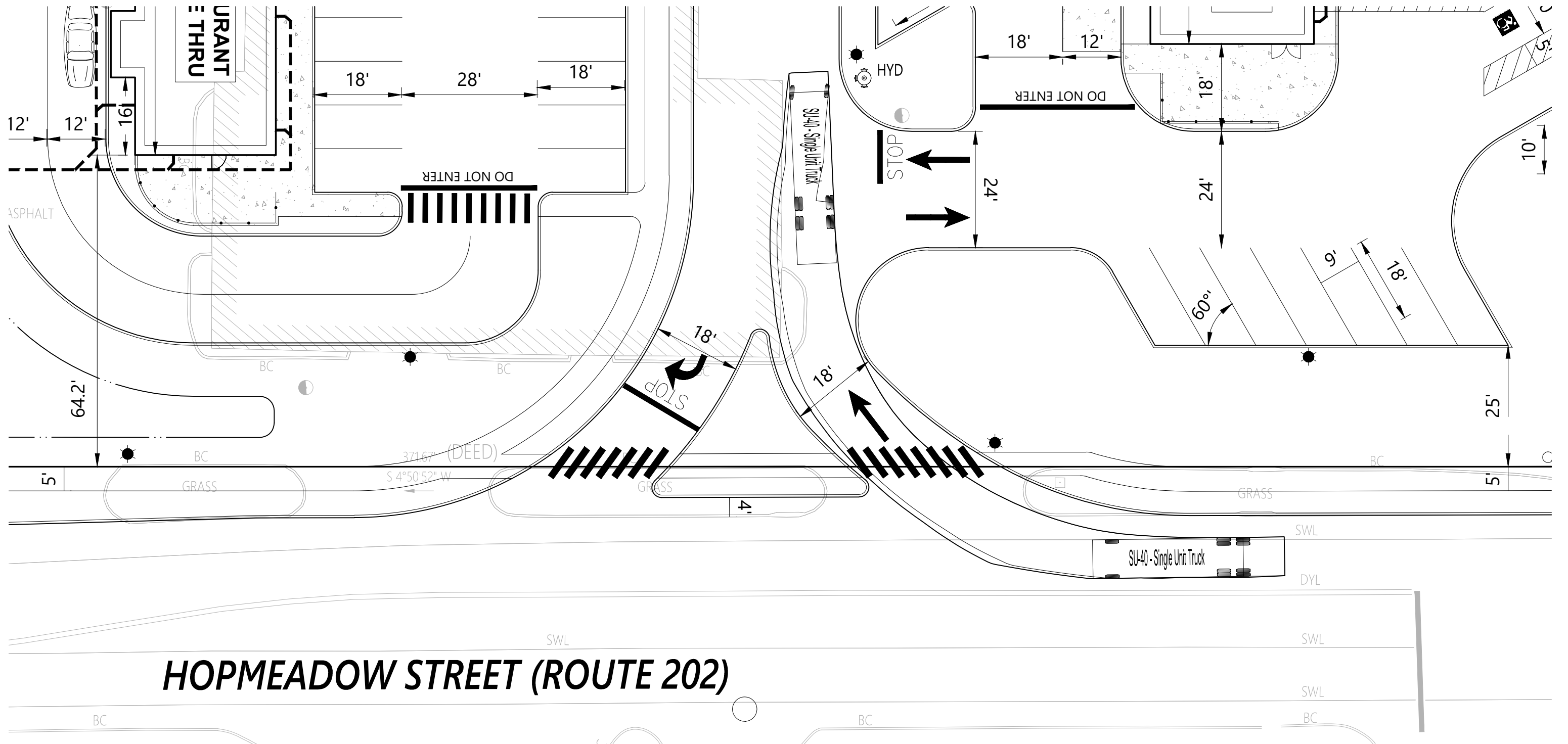


HOPMEADOW STREET (ROUTE 202)

Sketch 1 - Right In Only - Fire Truck

1263 Hopmeadow Street
Simsbury, CT

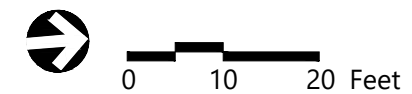


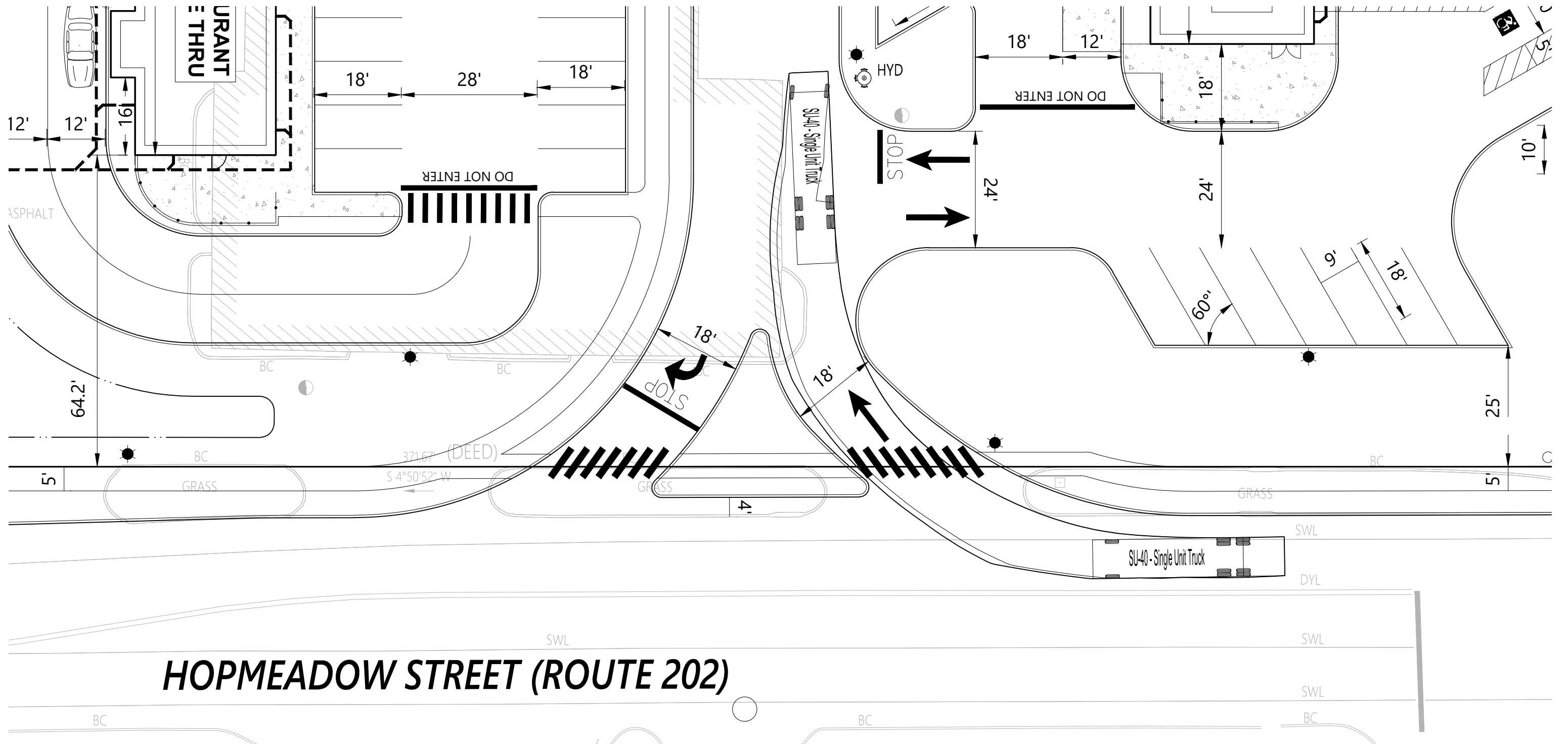


Sketch 1 - Right In Only - SU-40

1263 Hopmeadow Street
Simsbury, CT

Prepared for: **Review**
Date: **June 30, 2023**

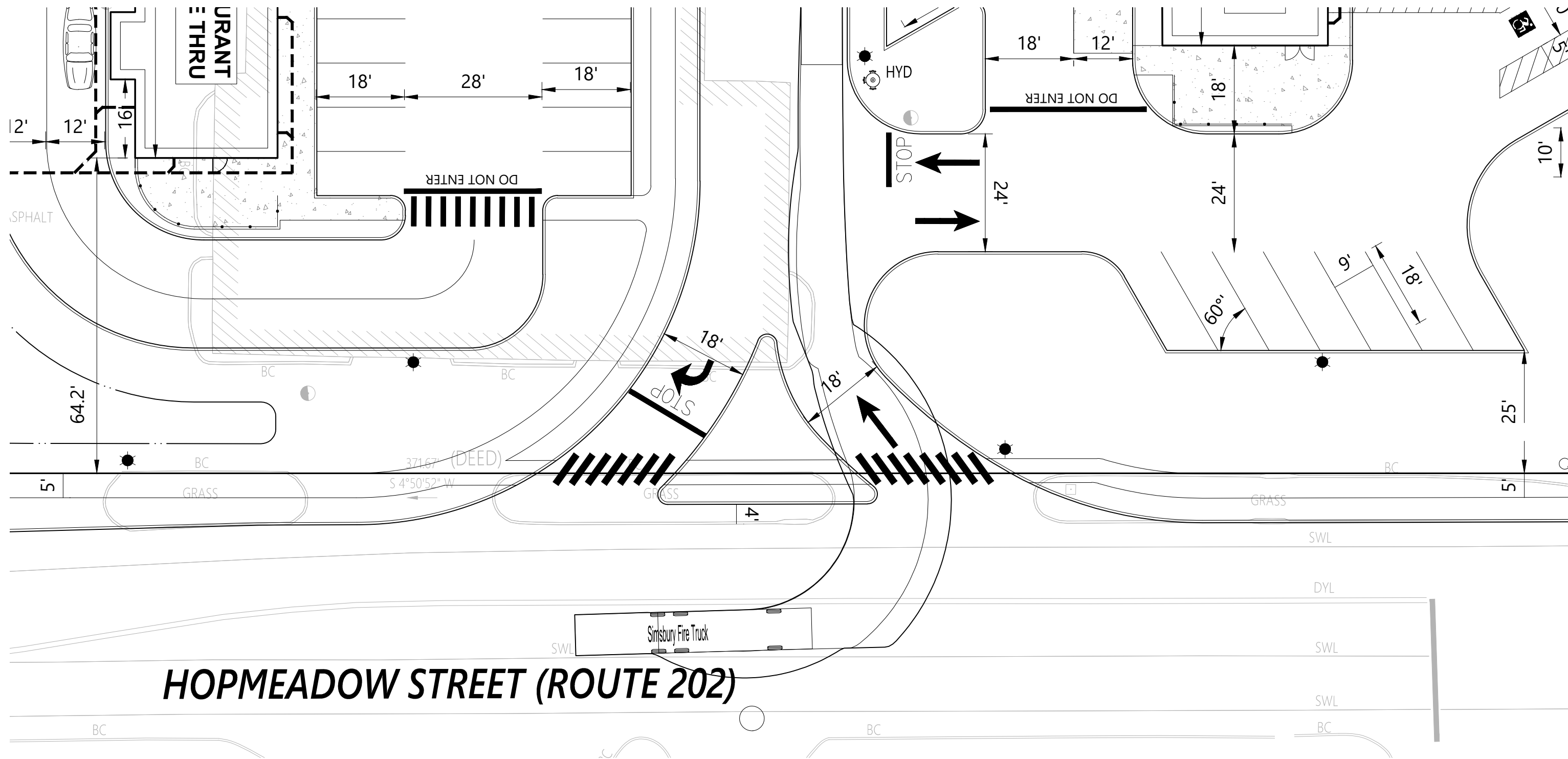




Sketch 1 - Right In Only - SU-40

1263 Hopmeadow Street
Simsbury, CT

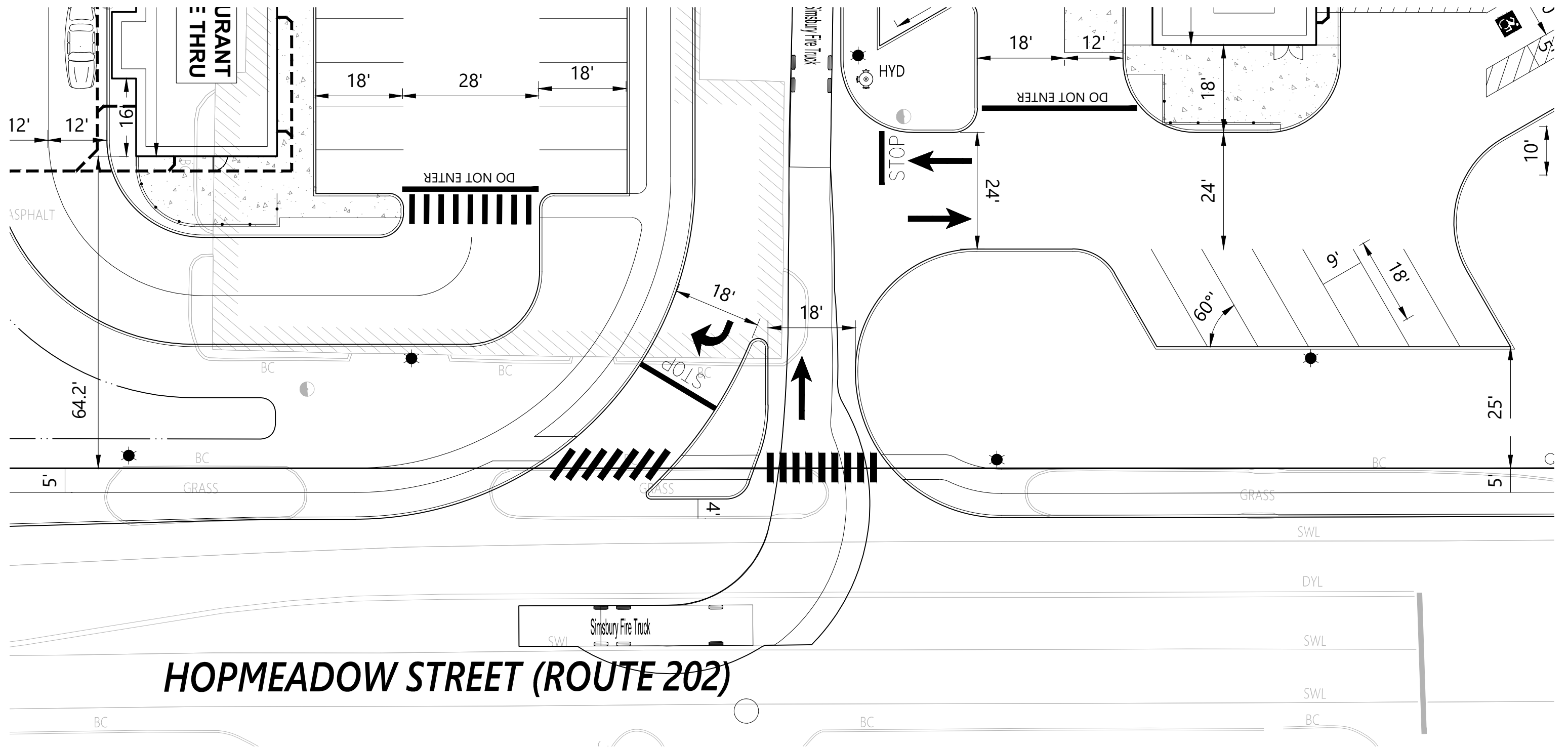




HOPMEADOW STREET (ROUTE 202)

Sketch 1 - Right In Only - Fire Truck
 1263 Hopmeadow Street
 Simsbury, CT

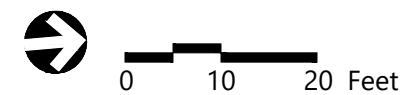


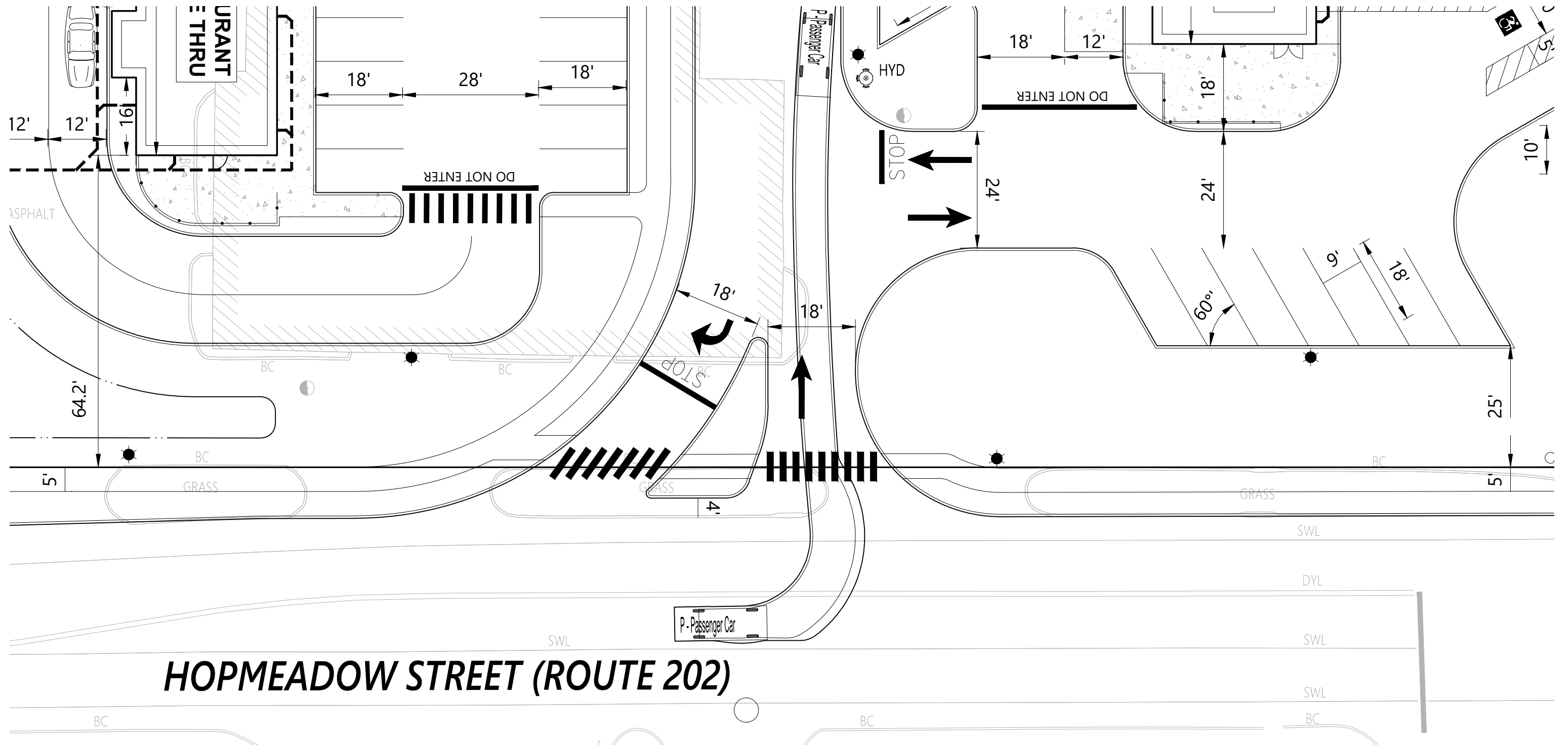


HOPMEADOW STREET (ROUTE 202)

Sketch 2 - Full Access - Fire Truck

1263 Hopmeadow Street
Simsbury, CT



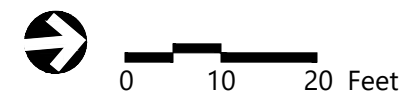


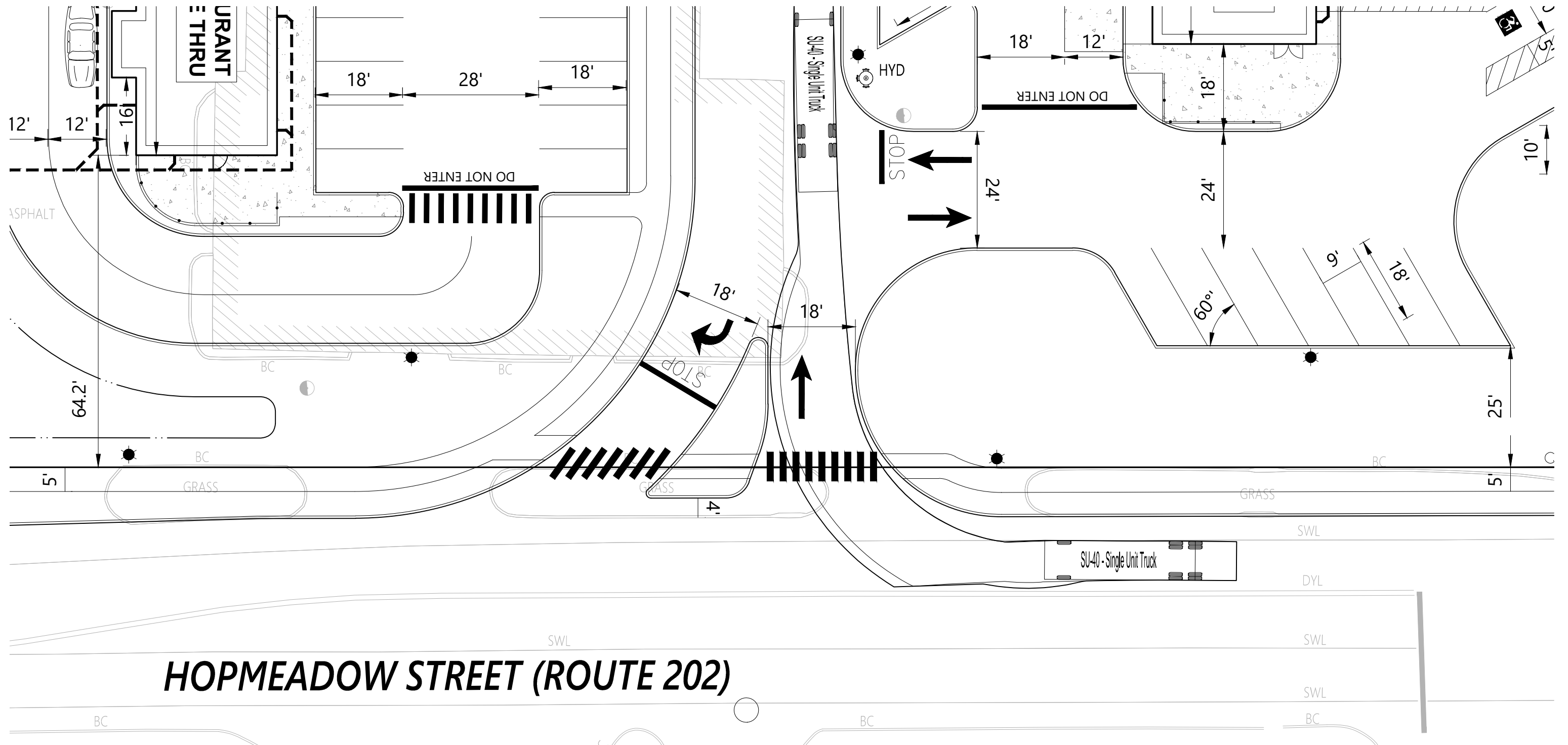
HOPMEADOW STREET (ROUTE 202)

Sketch 2 - Full Access - Passenger Car

1263 Hopmeadow Street
Simsbury, CT

Prepared for: **Review**
Date: **June 30, 2023**





HOPMEADOW STREET (ROUTE 202)

Sketch 2 - Full Access - SU-40

1263 Hopmeadow Street
Simsbury, CT

