

## MEMORANDUM

<b>Date:</b>	November 3, 2014	<b>TG:</b>	14163.00
<b>To:</b>	Tom Hansen, PE – City of Woodinville		
<b>From:</b>	Mike Swenson, PE, PTOE Jesse Birchman, PE, PTOE		
<b>cc:</b>	Maira Haughian – The Blueline Group		
<b>Subject:</b>	Woodinville Church Subdivision – Response to TIA Comments		

This memorandum responds to comments related to the Transportation Impact Analysis (TIA, June 2014) for the proposed Woodinville Church Subdivision project. Specific transportation analysis comments provided by the City of Woodinville and members of the public are included below and followed by a response to each comment.

### City of Woodinville

**Public Works** - The Transportation Impact Analysis included an intersection sight distance and stopping sight distance analysis that did not take into account the vertical curve. Please submit an updated analysis after review.<sup>1</sup>

**Construction** - The Transportation Impact Analysis does not include a vertical sight distance analysis, please submit.<sup>2</sup>

An evaluation of vertical sight-distance at the NE 205th Street / 136th Avenue NE intersection and site access driveway onto 136th Avenue NE is provided as Attachment A and B, and demonstrates that City of Woodinville sight-distance requirements specified in are not met. On NE 205th Street west of 136th Avenue NE, sight-distance is obstructed by approximately 0.38 feet (approximately 4.5 inches) of the roadway surface profile. On 136th Avenue NE between NE 205th Street and site access driveway the roadway surface profile would obstruct sight-distance by 0.05 feet (approximately 5/8ths of an inch) due to the vertical curvature of the roadway surface.

Based on this, sight distance at the site access driveway on 136th Avenue NE and NE 205th Street were compared to national sight-distance standards for stopping and intersection/entering sight-distance provided in the American Association of State Highway Transportation Officials (AASHTO) *A Policy on Geometric Design of Highways and Streets* (2011). Attachments C through Attachment F illustrate that AASHTO stopping and entering sight distances requirements would be met along both NE 205th Street and 136th Avenue NE with construction of the proposed frontage improvements.

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DEVELOPMENT SERVICES

<sup>1</sup> Comment #21, Letter - Additional Information Request for Church Subdivision, G. Tamble – City of Woodinville, August 19, 2014.

<sup>2</sup> Comment #25, Letter - Additional Information Request for Church Subdivision, G. Tamble – City of Woodinville, August 19, 2014.

**Public Comments**

Several transportation-related comments were provided by the public.<sup>3</sup> These comments are summarized below.

- Concern of low-visibility at the NE 205th Street / 136th Avenue NE intersection
- A request that sidewalk be provided at the NE 205th Street / 136th Avenue NE intersection
- Concern of vehicle speeds along NE 205th Street-244th Street SE

An updated evaluation of sight-distance consistent with AASHTO requirements was completed at the NE 205th Street / 136th Avenue NE intersection and is summarized in Attachments C through Attachment F. This evaluation was based on the proposed site plan provided as Figure 2 within the TIA and includes frontage related improvements. These frontage improvements include curb, gutter, and sidewalk along both NE 205th Street and 136th Avenue NE. As shown in these attachments, sight-lines with these frontage improvements would meet AASHTO design requirements while minimally exceeding City of Woodinville requirements. The provided sidewalks along the proposed project's frontage would connect to the sidewalks currently provided along the frontage of the adjacent parcels.

With the development of the project and the addition of projected generated traffic would not likely exacerbate existing speeding issues in the areas noted in the comment. The proposed frontage improvement are consistent with City plans to improve the corridor. As noted in the provided comment, the City and/or County should continue to monitor speeds along NE 205th Street and address any issues as they arise.

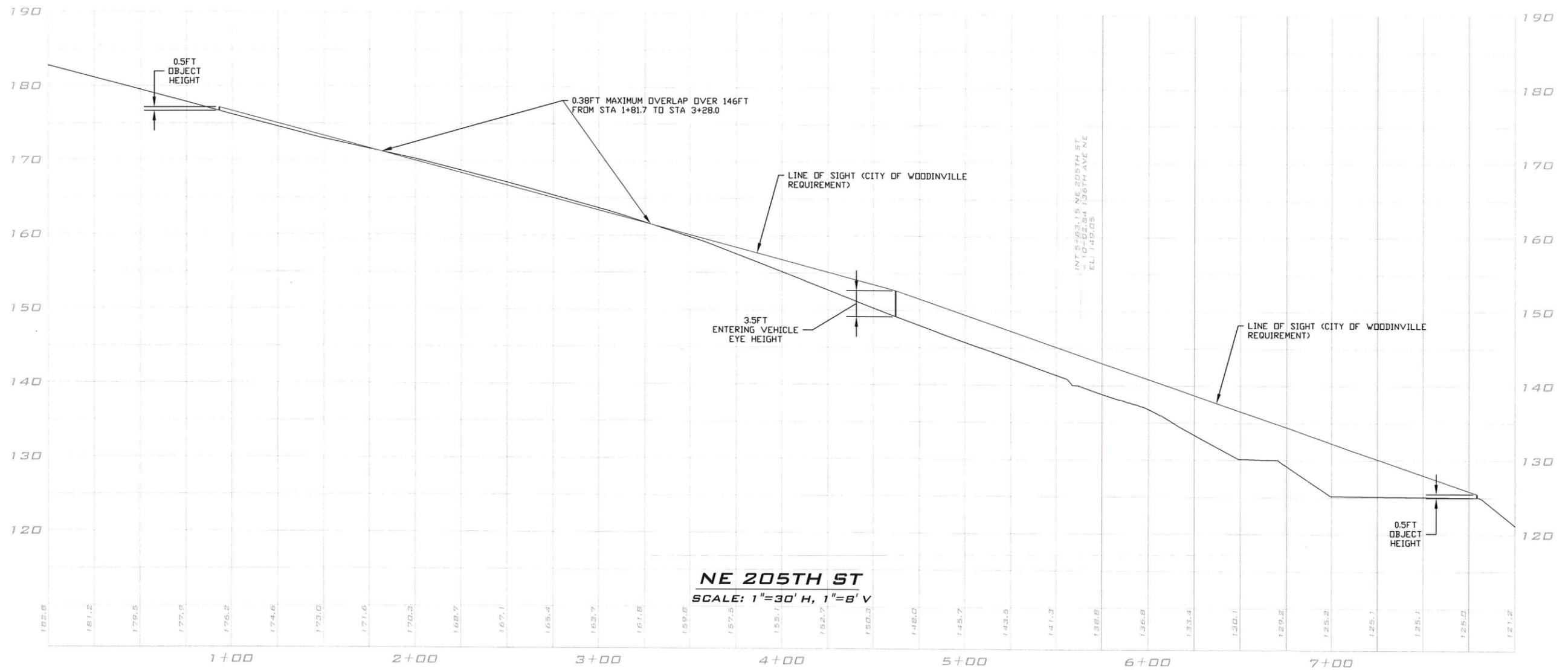
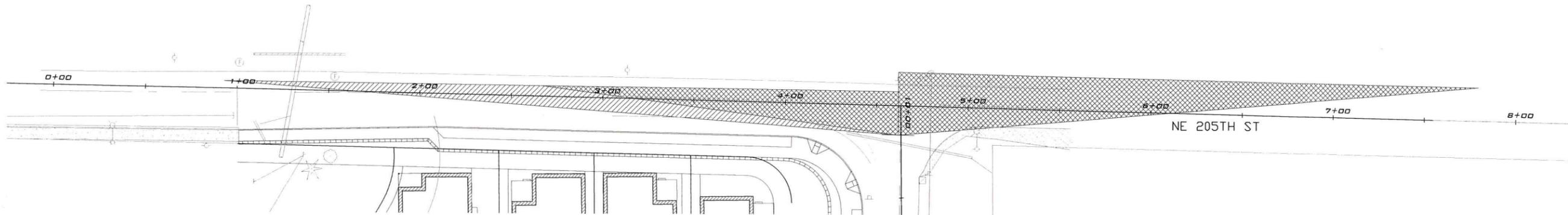
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<sup>3</sup> Email – L. Savage-Leuchs, August 13, 2014.



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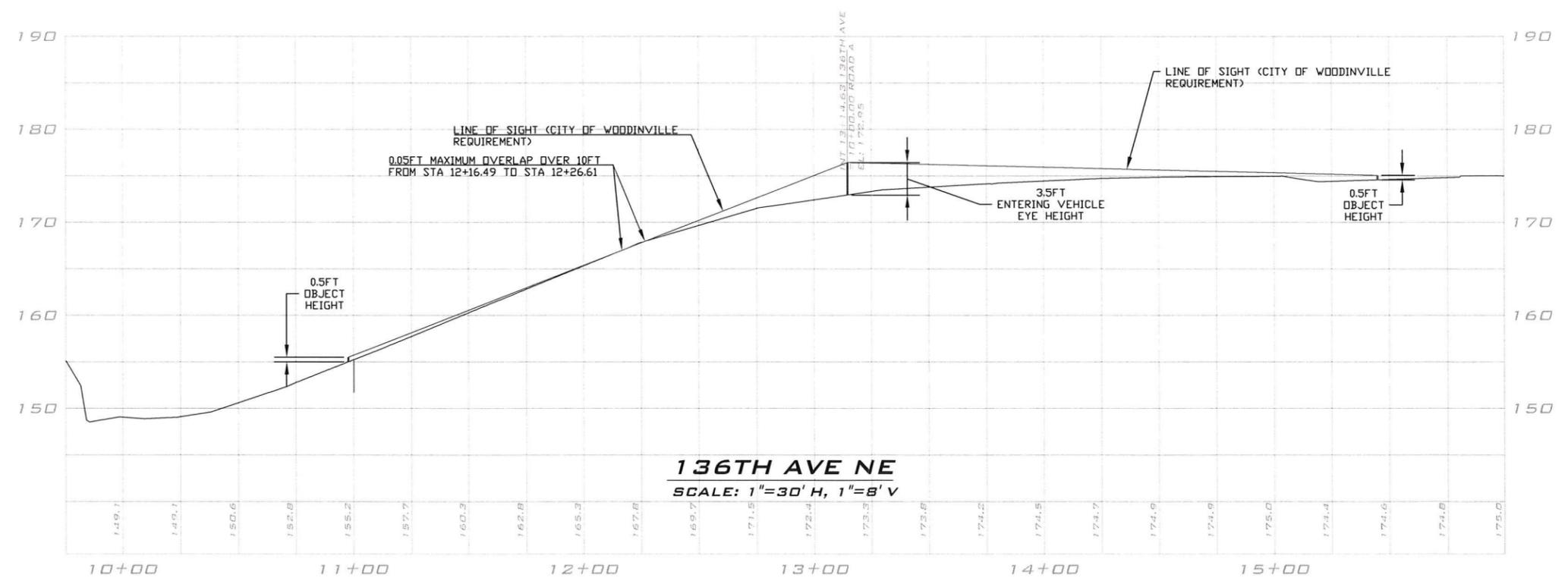
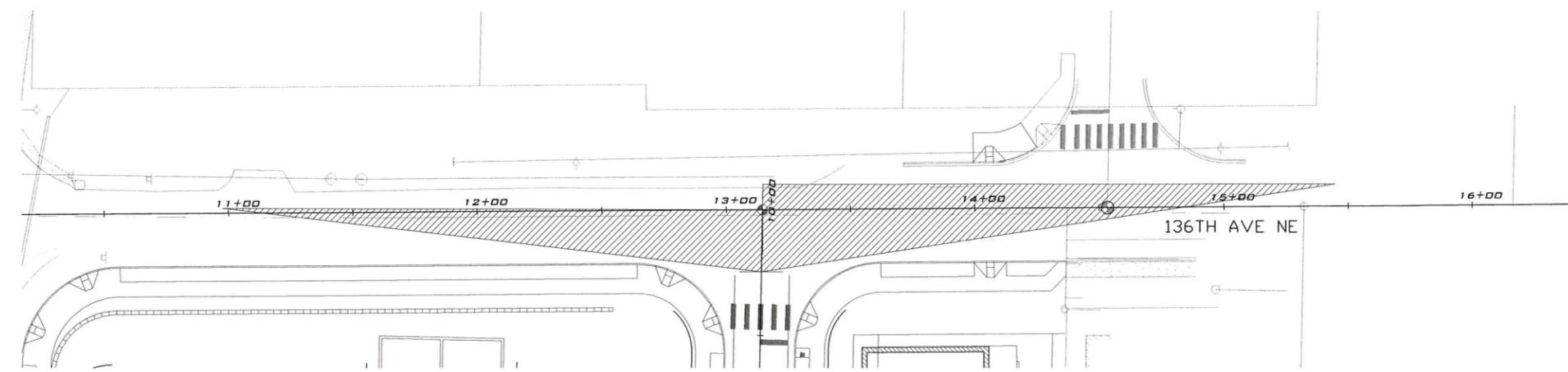
# Sight Distance Analysis - NE 205th St

Woodinville Church Subdivision

ATTACHMENT



A

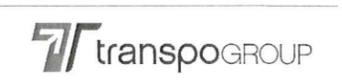


### Sight Distance Analysis - 136th Ave NE

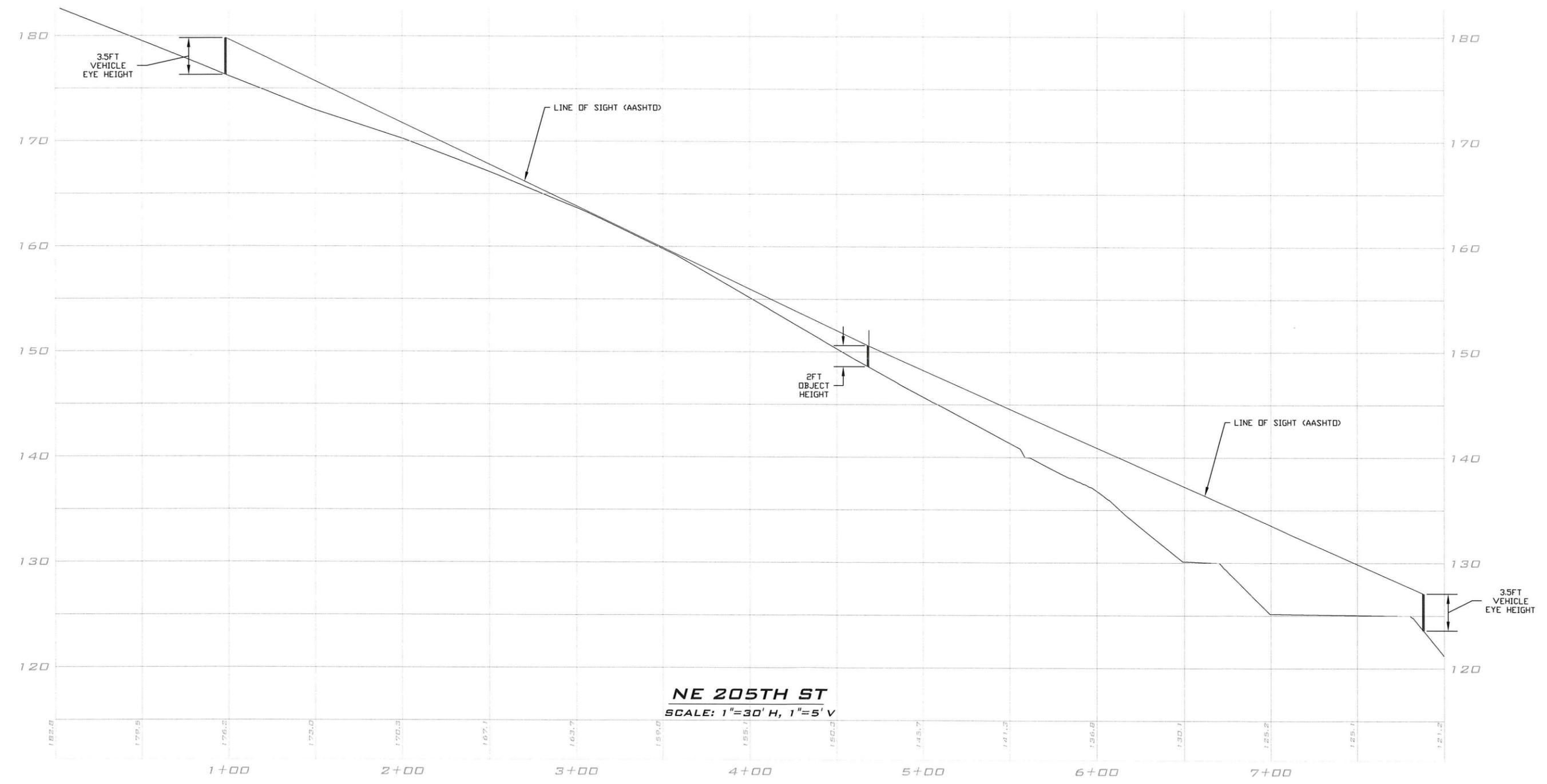
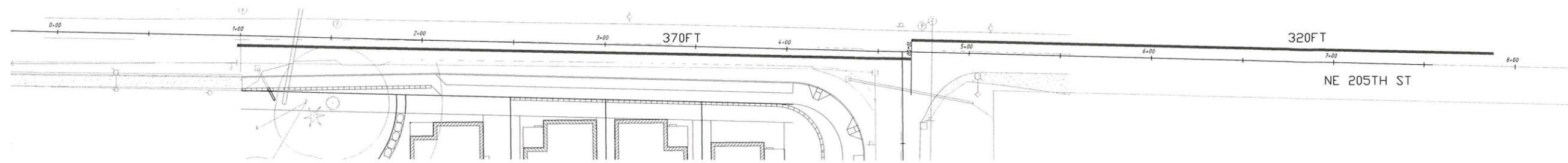
Woodinville Church Subdivision

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**B**



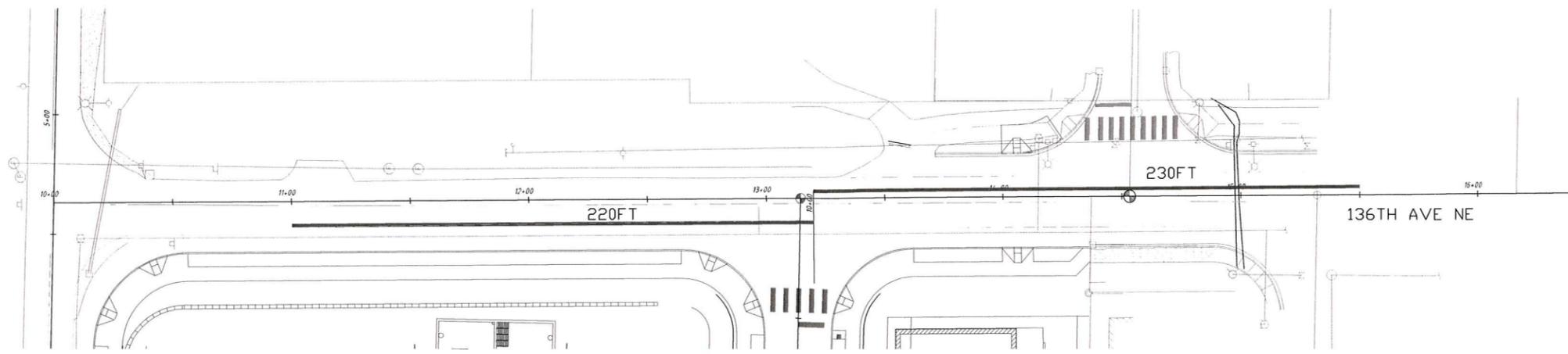
Stopping Sight Distance Analysis - NE 205th St

Woodinville Church Subdivision

ATTACHMENT



C



# Stopping Sight Distance Analysis - 136th Ave NE

Woodinville Church Subdivision

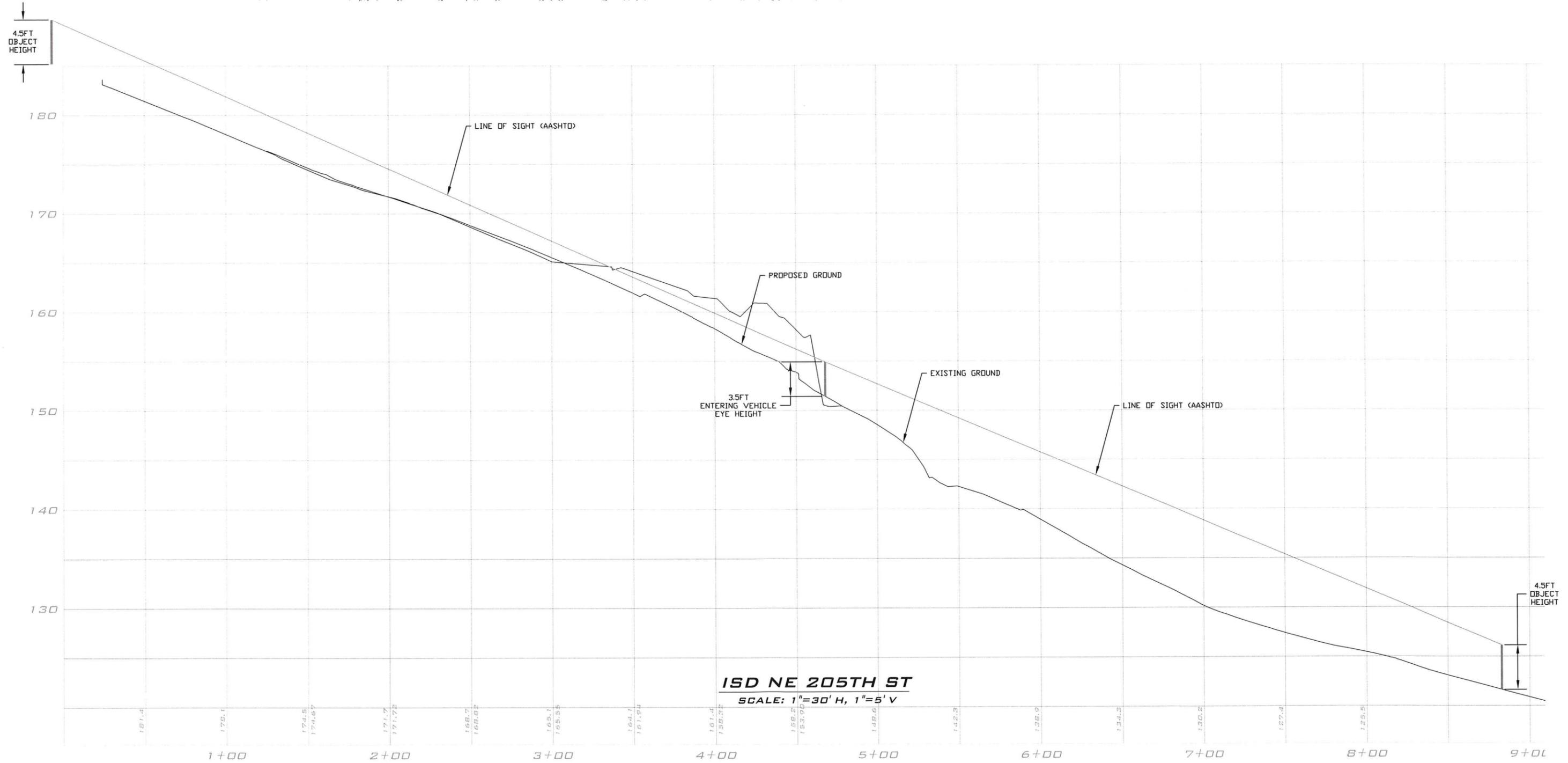
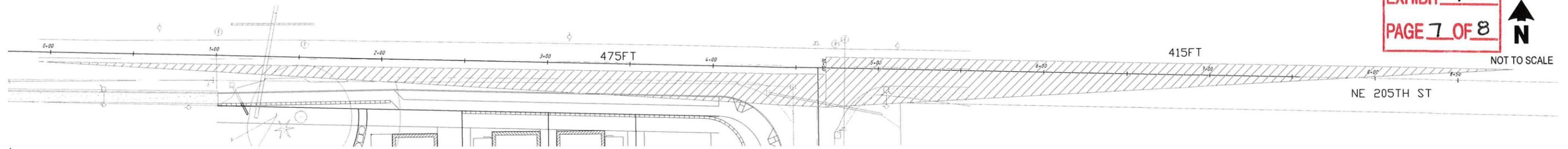
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**D**



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# Intersection Sight Distance Analysis - NE 205th St

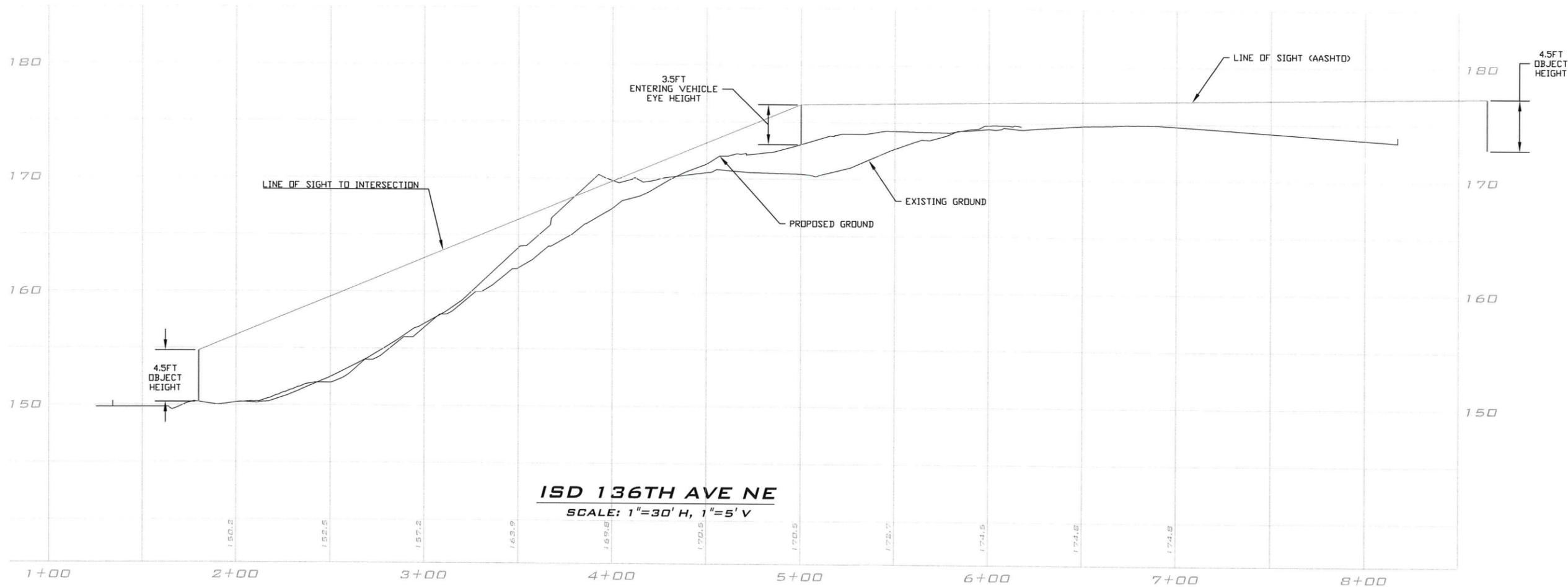
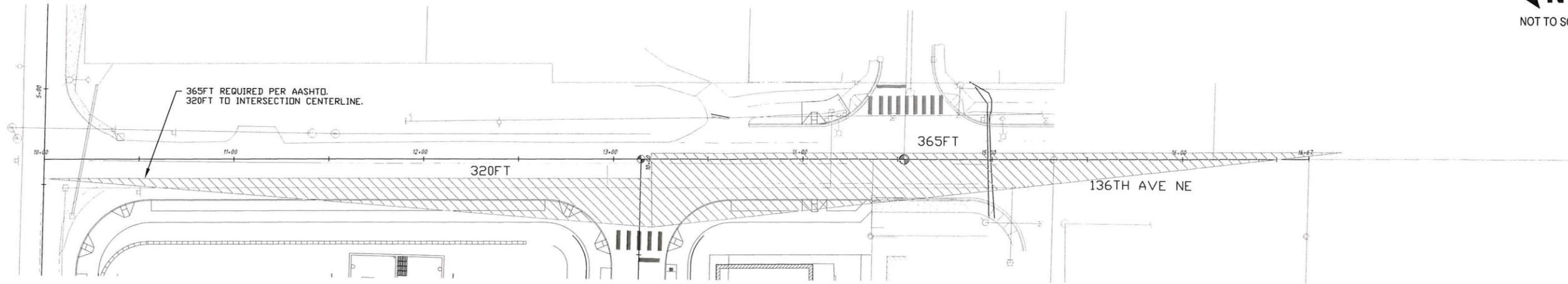
Woodinville Church Subdivision

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ATTACHMENT



E



# Intersection Sight Distance Analysis - 136th Ave NE

Woodinville Church Subdivision

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ATTACHMENT



F