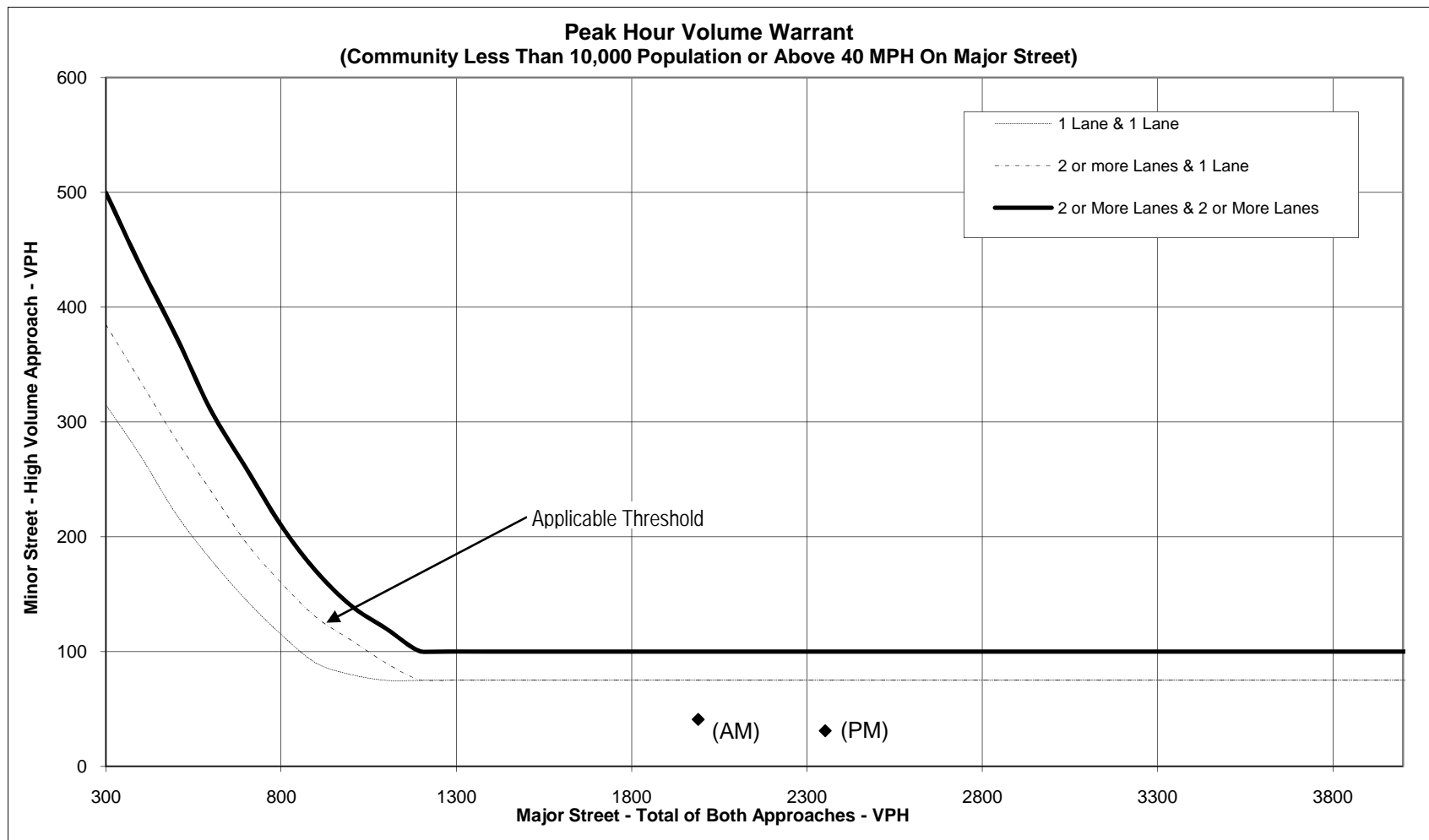


PEAK HOUR VOLUME SIGNAL WARRANT ANALYSIS

Scenario: 2015 No Build
 Intersection: Cesar Chavez & Langham (Lefts and Throughs only)
 Type: 2 or more Lane/1 Lane
 Major Street (Orientation): Cesar Chavez (E/W)
 Minor Street (Orientation): Langham (N/S)

| Time | Minor Street Approach Volume | | | Major Street Approach Volume | | | Satisfies Warrant 11? |
|---------|------------------------------|----|-------------------|------------------------------|-------|---------|-----------------------|
| | NB | SB | High Vol Approach | EB | WB | EB + WB | |
| AM Peak | 41 | 1 | 41 | 1,519 | 471 | 1,990 | NO |
| PM Peak | 31 | 6 | 31 | 1,091 | 1,261 | 2,352 | NO |

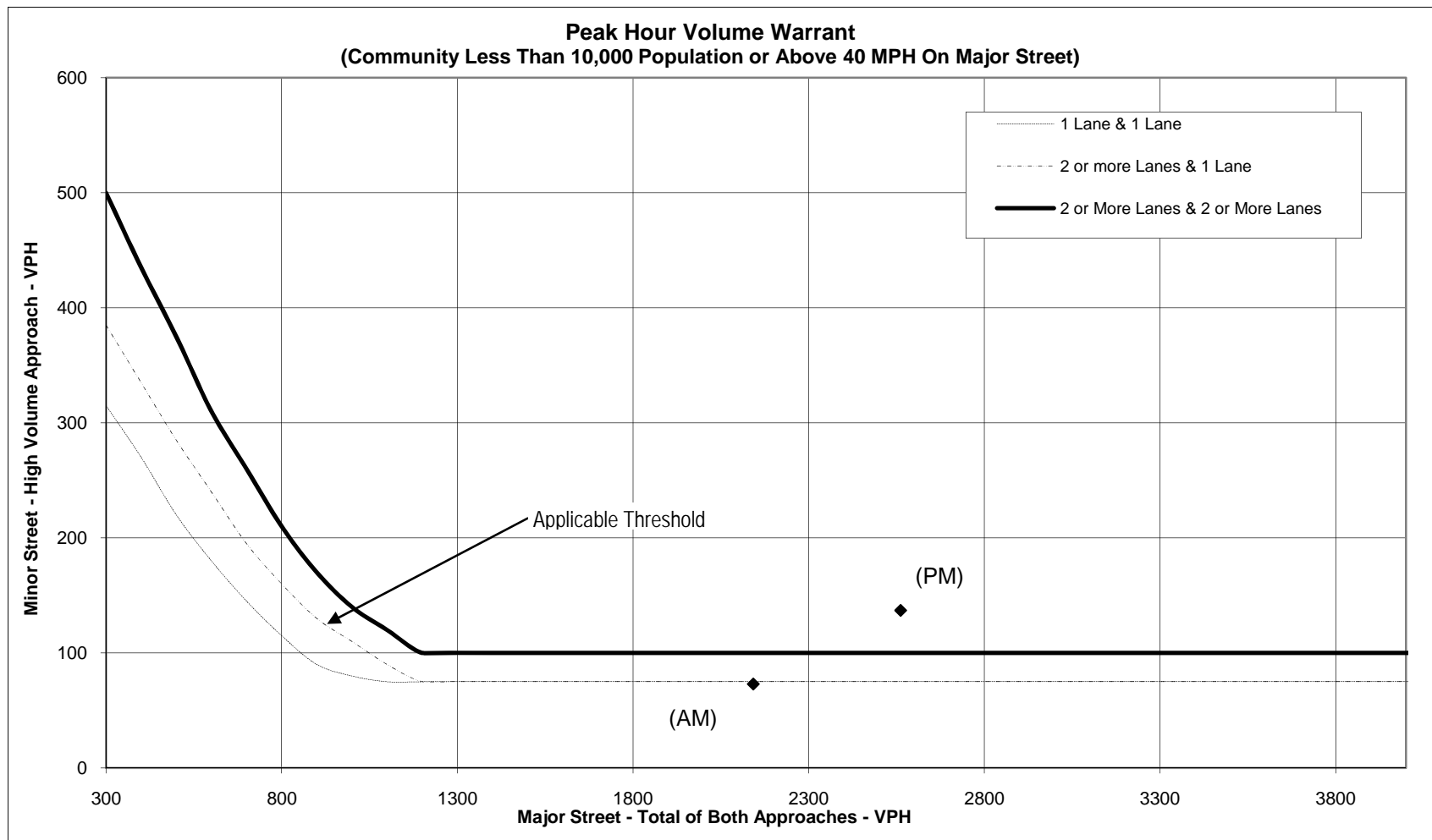


Note: 100 VPH applies as the lower threshold for minor street approach with 2 or more lanes & 75 VPH as the threshold for a minor street approach with one lane

PEAK HOUR VOLUME SIGNAL WARRANT ANALYSIS

Scenario: 2015 Build
 Intersection: Cesar Chavez & Langham (Lefts and Throughs only)
 Type: 2 or more Lane/1 Lane
 Major Street (Orientation): Cesar Chavez (E/W)
 Minor Street (Orientation): Langham (N/S)

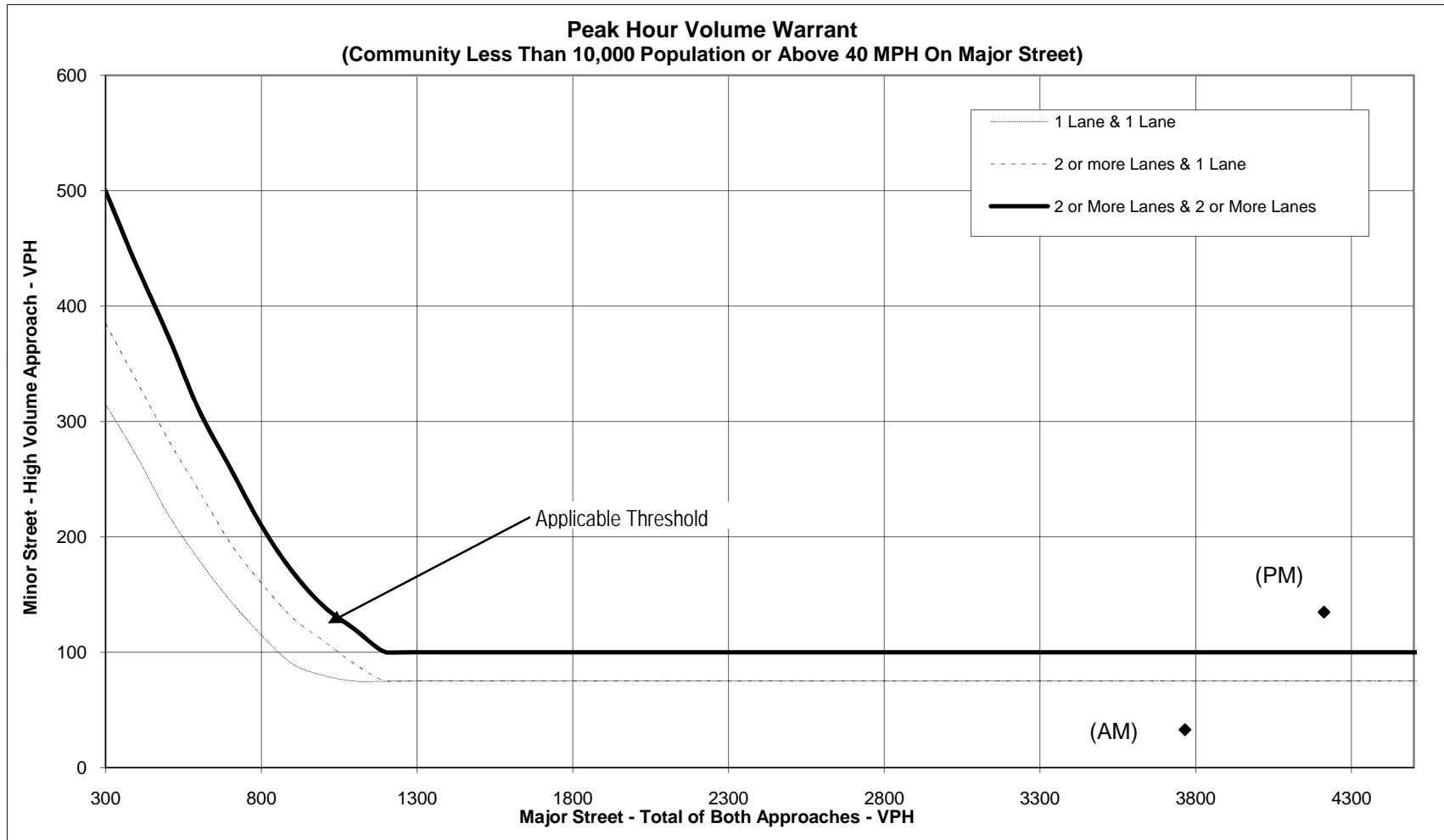
| Time | Minor Street Approach Volume | | | Major Street Approach Volume | | | Satisfies Warrant 11? |
|---------|------------------------------|----|-------------------|------------------------------|-------|---------|-----------------------|
| | NB | SB | High Vol Approach | EB | WB | EB + WB | |
| AM Peak | 73 | 1 | 73 | 1,671 | 471 | 2,142 | NO |
| PM Peak | 137 | 6 | 137 | 1,301 | 1,261 | 2,562 | YES |



Note: 100 VPH applies as the lower threshold for minor street approach with 2 or more lanes & 75 VPH as the threshold for a minor street approach with one lane

PEAK HOUR VOLUME SIGNAL WARRANT ANALYSIS

| | | | | | | | |
|-----------------------------|---|---------------------------------|---------|------------------------------|---------------|---------|-------------|
| Scenario: | 2015 Build | No Left Out Unsignalized Delays | AM Peak | PM Peak | With Left Out | AM Peak | PM Peak |
| | | EB Left (entering) | 0.16 | 9.66 | hours | 0.16 | 7.83 |
| | | SB Right (exiting) | 0.18 | 1.45 | hours | 0.18 | 1.54 |
| | | SB Left (exiting) | n/a | n/a | hours | 0.28 | Err |
| Intersection: | Gibson & Entrance (With Left Out - Lefts Only)) | | | | | | |
| Type: | 2 or more Lane/1 Lane | | | | | | |
| Major Street (Orientation): | Gibson (E/W) | | | | | | |
| Minor Street (Orientation): | Entrance (N/S) | | | | | | |
| | | Minor Street Approach Volume | | Major Street Approach Volume | | | Satisfies |
| Time | | NB | SB | High Vol Approach | EB | WB | EB + WB |
| AM Peak | | 0 | 33 | 33 | 2,545 | 1,220 | 3,765 |
| PM Peak | | 0 | 135 | 135 | 1,476 | 2,736 | 4,212 |
| | | | | | | | Warrant 11? |
| | | | | | | | NO |
| | | | | | | | YES |



Note: 100 VPH applies as the lower threshold for minor street approach with 2 or more lanes & 75 VPH as the threshold for a minor street approach with one lane