



City of Ketchum

## TRAFFIC AUTHORITY MEETING AGENDA MEMO

Meeting Date:  Staff Member/Dept:

Agenda Item:

### Recommended Motion:

There is no formal action requested. Staff are requesting general feedback on the analysis and recommend the next step to complete public outreach sessions.

### Reasons for Recommendation:

- Residents in West Ketchum have complained of speeding and inadequate facilities for over a decade.
- In summer of 2023, the city installed several temporary fixes - a roundabout at the 6<sup>th</sup> street intersection, pinch points via tubular markers along Bird Drive, and crosswalk enhancements at the Bird & Wood River Drive intersection.
- Feedback (October 2023), gathered via an online survey, was mixed. Staff then held a neighborhood meeting to identify next steps; the consensus was “There is a problem, but we only like part of the solutions offered.”
- February 2024 - Traffic Authority discussion. Suggested to add Williams Street to the pilot, with one treatment on Williams and a different treatment on Bird Drive.
- April 2024 - Meeting with neighbors produced a small turnout.
  - Staff proposed changes:
    1. Speed humps (instead of pinch points) along Bird Drive
    2. Radar speed feedback sign on Williams
  - Neighbor requests:
    1. Less tubular markers
    2. Exploration of vertical planters at roundabout (still to come)
    3. Explore removing all stop signs along Williams
    4. Explore adding stop signs

Per HDR “There’s no crash history here to suggest that there is a safety problem. The MUTCD states that stop signs shall not be installed for speed control, so I don’t recommend the city install these at this time.”

Mixed feedback, but Williams Street attendees advocated for speed humps instead of the sign.

Future Actions:

<ul style="list-style-type: none"><li>• Survey to be sent out to gauge public opinion</li></ul>
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Sustainability Impact:

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Financial Impact:

None OR Adequate funds exist in account:	There is no immediate financial request.
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Attachments:

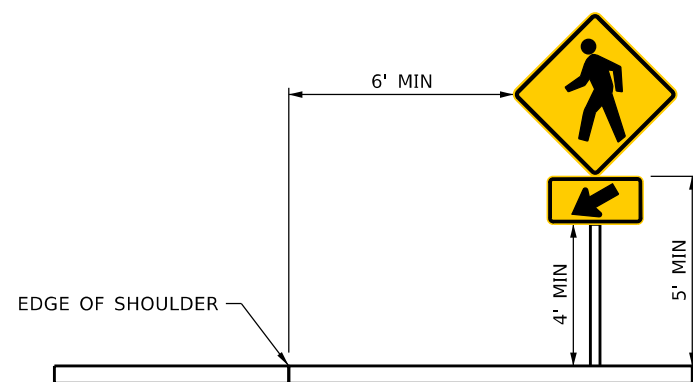
1. Traffic Calming Plans
2. Speed Radar Stats
3. Speed Stats

**GENERAL NOTES:**

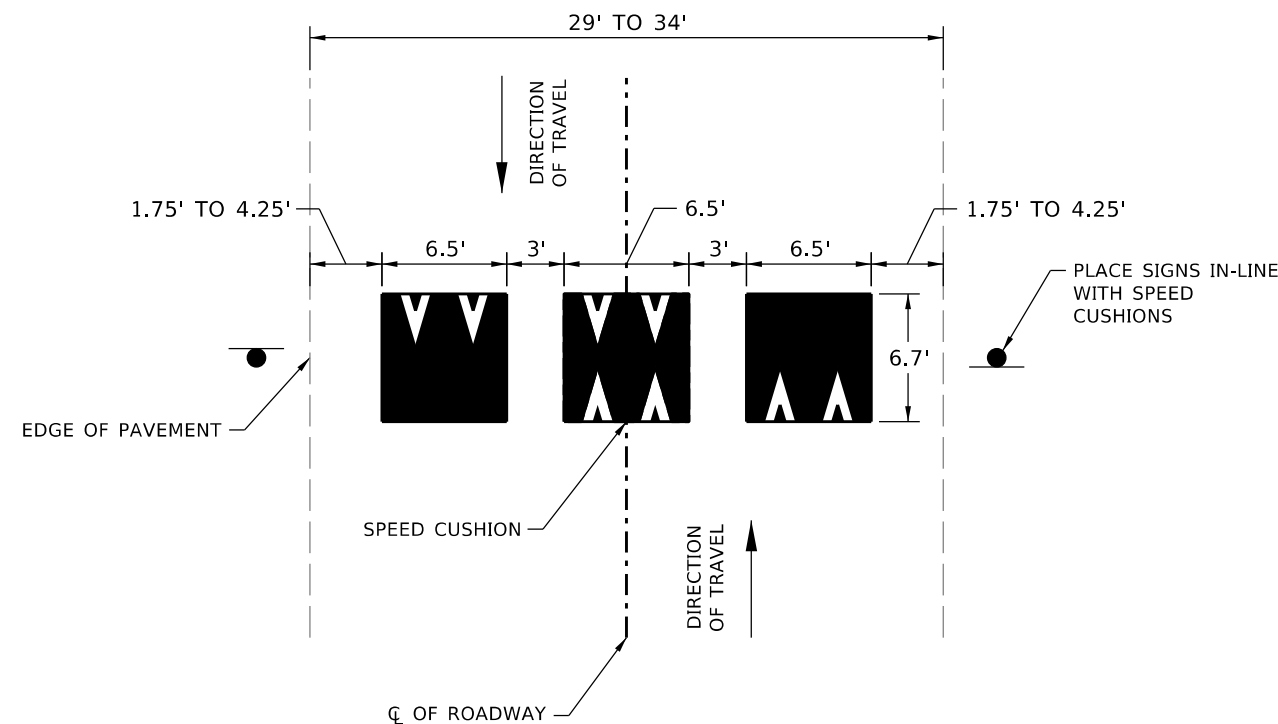
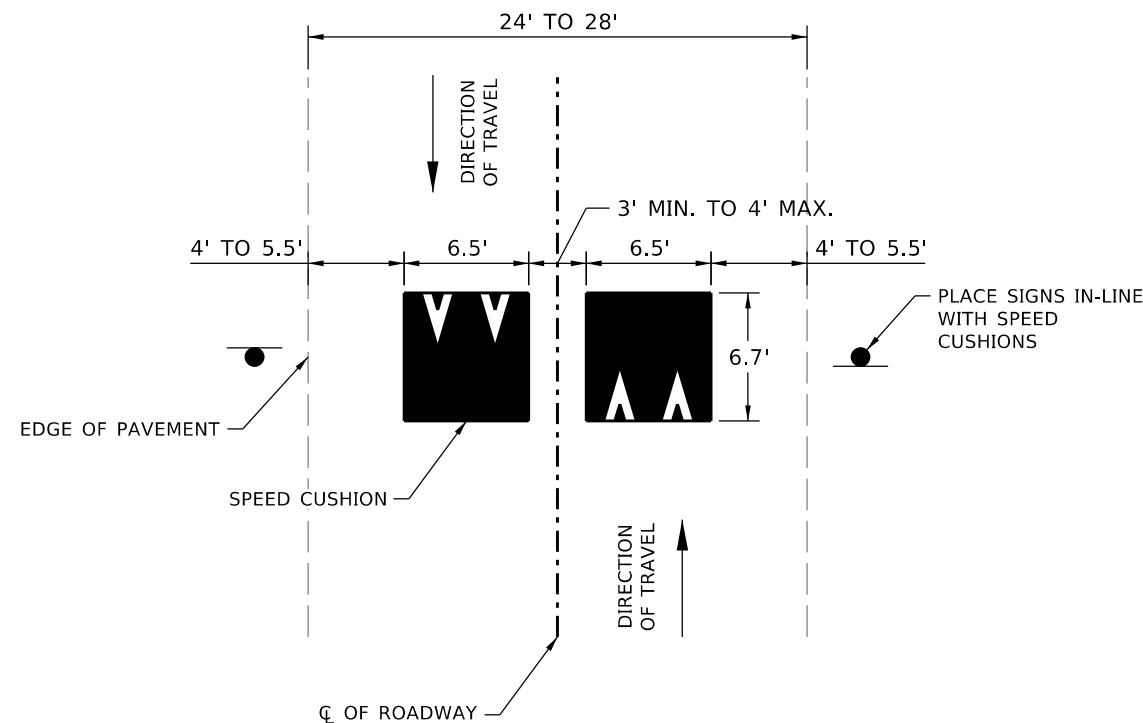
- DESIGN IS CONSIDERED TEMPORARY INSTALLATION TO TEST BENEFITS OF A TRAFFIC CALMING STRATEGY. CITY TO CONFIRM MATERIALS FOR CONSTRUCTION AND APPROPRIATE DURATION OF TRAFFIC CALMING TEST.
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS ADOPTED BY THE STATE.
- INSTALL SIGNS ON TEMPORARY STANDS. TEMPORARY STANDS MUST BE BREAKAWAY. SPACE SIGNS A MINIMUM OF 100' APART UNLESS OTHERWISE NOTED.
- MONITOR INSTALLATION A MINIMUM OF ONCE DAILY TO ENSURE TEMPORARY DEVICES ARE OPERATING EFFECTIVELY AND ALL DEVICES USED ARE CLEARLY VISIBLE AND IN GOOD REPAIR.
- DESIGN BASED ON AERIAL IMAGERY AND ADJUSTMENTS MAY BE NEEDED IN THE FIELD. MAINTAIN MINIMUM OR MAXIMUM VALUES AS IDENTIFIED.
- SURVEY AND PROPERTY BOUNDARY LINE DATA NOT DETERMINED DURING DESIGN. VERIFY RIGHT-OF-WAY LIMITS PRIOR TO INSTALLATION.
- COMPLETELY COVER ALL EXISTING WARNING AND REGULATORY SIGNS IN CONFLICT WITH PROPOSED DESIGN.
- OBLITERATE CONFLICTING PAVEMENT MARKINGS. REINSTALL EXISTING PAVEMENT MARKINGS AT CONCLUSION OF TEST.
- STOP BARS, CROSSWALKS AND YIELD LINE PAVEMENT MARKINGS SHALL BE WATERBORNE PAINT. OBLITERATE AT CONCLUSION OF TEST.
- PARKING BLOCK AND TUBULAR MARKER QUANTITIES INCLUDE A 10% CONTINGENCY. VERIFY QUANTITY PRIOR TO ORDERING.

**MATERIAL QUANTITIES**

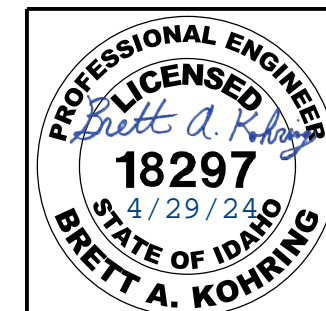
DESCRIPTION	QUANTITY	UNITS
SIGN PANELS	184	SF
6.5'x6.7' SPEED CUSHIONS	11	EA
6' COMPOSITE PARKING BLOCKS	13	EA
18" TUBULAR MARKERS (WHITE)	111	EA
36" TUBULAR MARKERS (YELLOW)	13	EA
PAINTED MARKINGS	236	SF
RADAR SPEED FEEDBACK SIGN	2	EA



**TYPICAL SIGN INSTALLATION**  
N.T.S.



**TYPICAL SPEED CUSHION INSTALLATION**  
N.T.S.









**NOTES:**

1. PLACE SPEED CUSHIONS AND SIGNS OUTSIDE THE LIMITS OF PRIVATE APPROACHES.

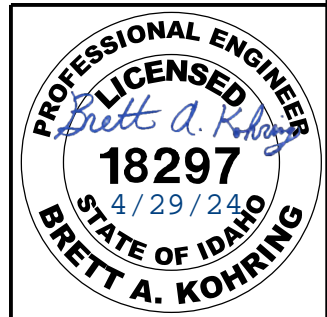
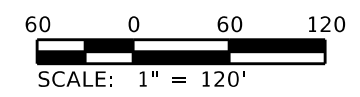


**LEGEND:**

-  PROPOSED SIGN
-  EXISTING SIGN
-  18" WHITE TUBULAR MARKER
-  SPEED CUSHION

BIRD DRIVE TRAFFIC CALMING TEST

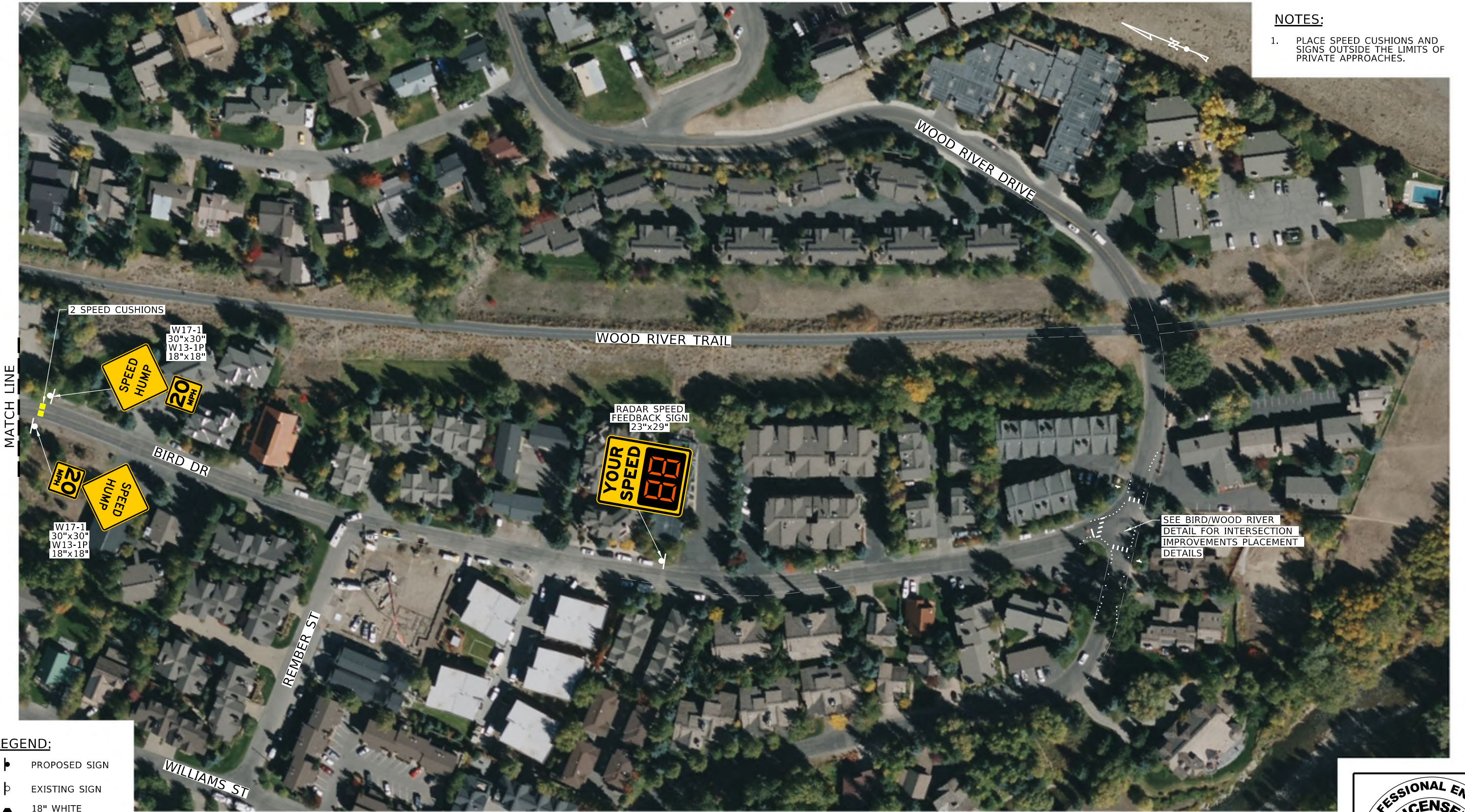
PLAN VIEW  
NORTH BIRD DR





**NOTES:**

1. PLACE SPEED CUSHIONS AND SIGNS OUTSIDE THE LIMITS OF PRIVATE APPROACHES.



MATCH LINE

2 SPEED CUSHIONS

W17-1  
30"x30"  
W13-1P  
18"x18"



WOOD RIVER TRAIL

RADAR SPEED  
FEEDBACK SIGN  
23"x29"



BIRD DR



W17-1  
30"x30"  
W13-1P  
18"x18"

SEE BIRD/WOOD RIVER  
DETAIL FOR INTERSECTION  
IMPROVEMENTS PLACEMENT  
DETAILS

REMBER ST

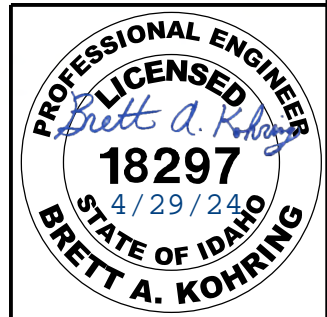
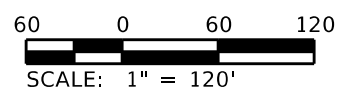
WILLIAMS ST

**LEGEND:**

- PROPOSED SIGN
- EXISTING SIGN
- 18" WHITE TUBULAR MARKER
- SPEED CUSHION

BIRD DRIVE TRAFFIC CALMING TEST

PLAN VIEW  
SOUTH BIRD DR









**NOTES:**

1. PLACE SPEED CUSHIONS AND SIGNS OUTSIDE THE LIMITS OF PRIVATE APPROACHES.

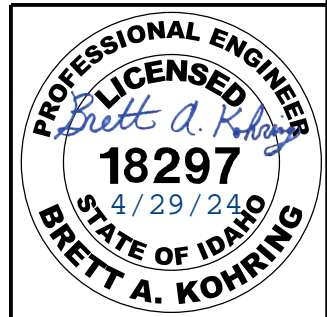
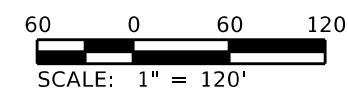


**LEGEND:**

-  PROPOSED SIGN
-  EXISTING SIGN
-  18" WHITE TUBULAR MARKER
-  SPEED CUSHION

BIRD DRIVE TRAFFIC CALMING TEST

PLAN VIEW  
WILLIAMS ST








**NOTES:**

- DO NOT PLACE TUBULAR MARKERS ACROSS PRIVATE APPROACHES, AND PEDESTRIAN CROSSINGS.

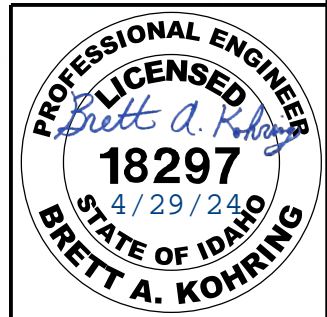
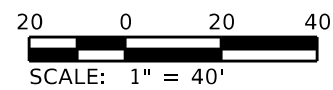


**LEGEND:**

-  PROPOSED SIGN
-  EXISTING SIGN
- 18" WHITE TUBULAR MARKER
-  SPEED CUSHION

BIRD DRIVE TRAFFIC CALMING TEST

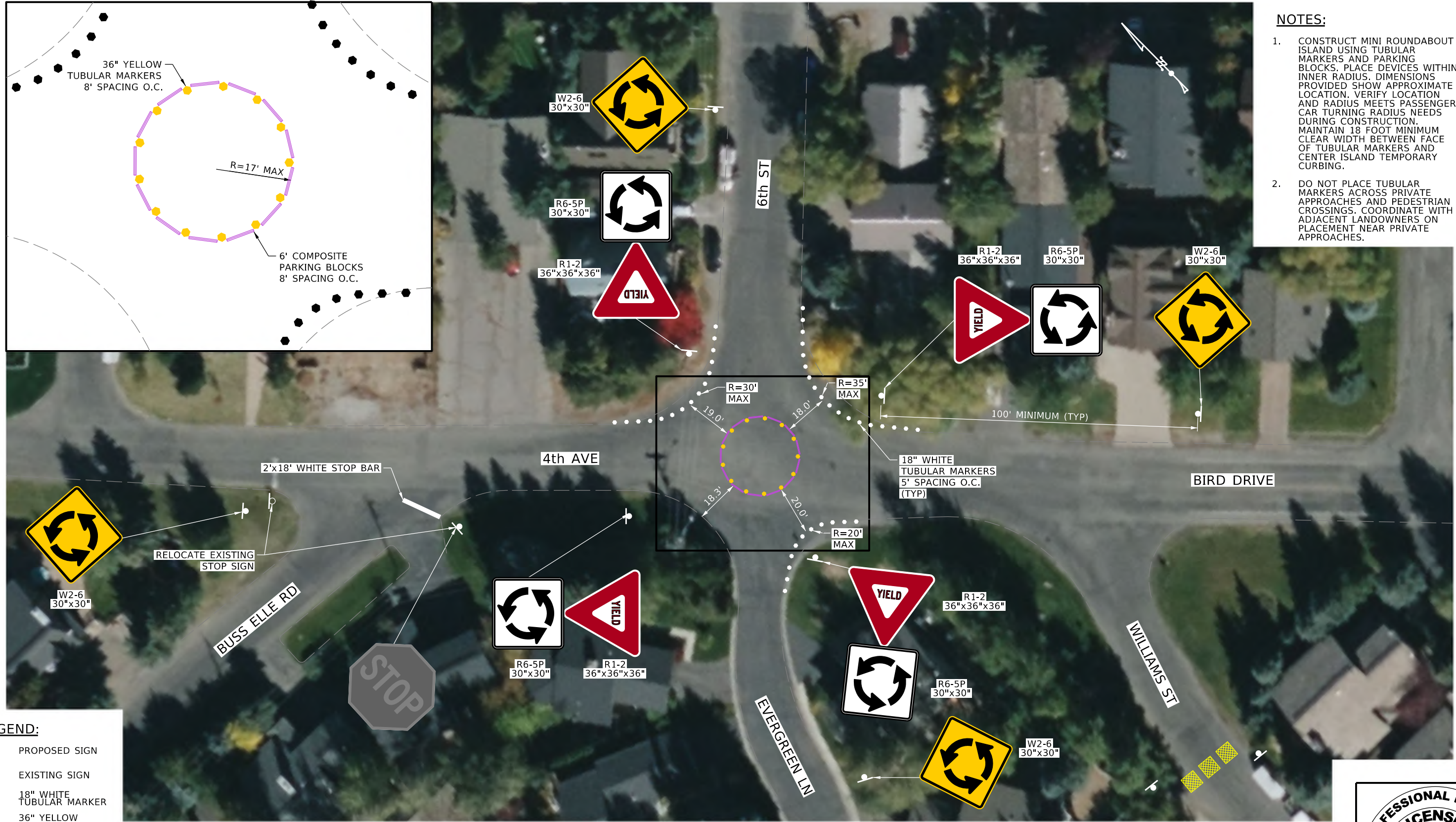
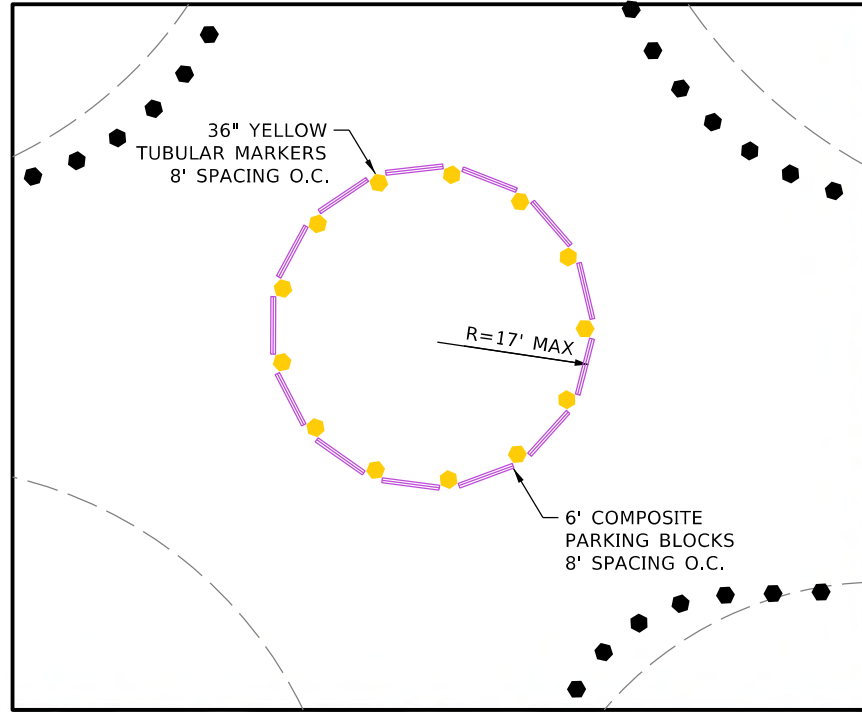
BIRD/WOOD RIVER DETAIL





**NOTES:**

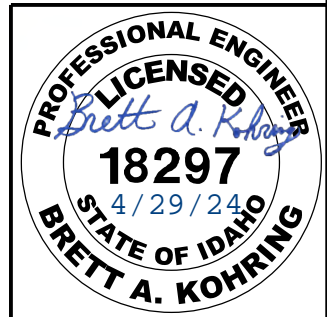
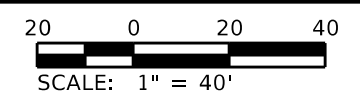
1. CONSTRUCT MINI ROUNDABOUT ISLAND USING TUBULAR MARKERS AND PARKING BLOCKS. PLACE DEVICES WITHIN INNER RADIUS. DIMENSIONS PROVIDED SHOW APPROXIMATE LOCATION. VERIFY LOCATION AND RADIUS MEETS PASSENGER CAR TURNING RADIUS NEEDS DURING CONSTRUCTION. MAINTAIN 18 FOOT MINIMUM CLEAR WIDTH BETWEEN FACE OF TUBULAR MARKERS AND CENTER ISLAND TEMPORARY CURBING.
2. DO NOT PLACE TUBULAR MARKERS ACROSS PRIVATE APPROACHES AND PEDESTRIAN CROSSINGS. COORDINATE WITH ADJACENT LANDOWNERS ON PLACEMENT NEAR PRIVATE APPROACHES.



- LEGEND:**
- PROPOSED SIGN
  - EXISTING SIGN
  - 18" WHITE TUBULAR MARKER
  - 36" YELLOW TUBULAR MARKER
  - SPEED CUSHION

BIRD DRIVE TRAFFIC CALMING TEST

MINI ROUNDABOUT DETAIL





# Count by Speed Range Report

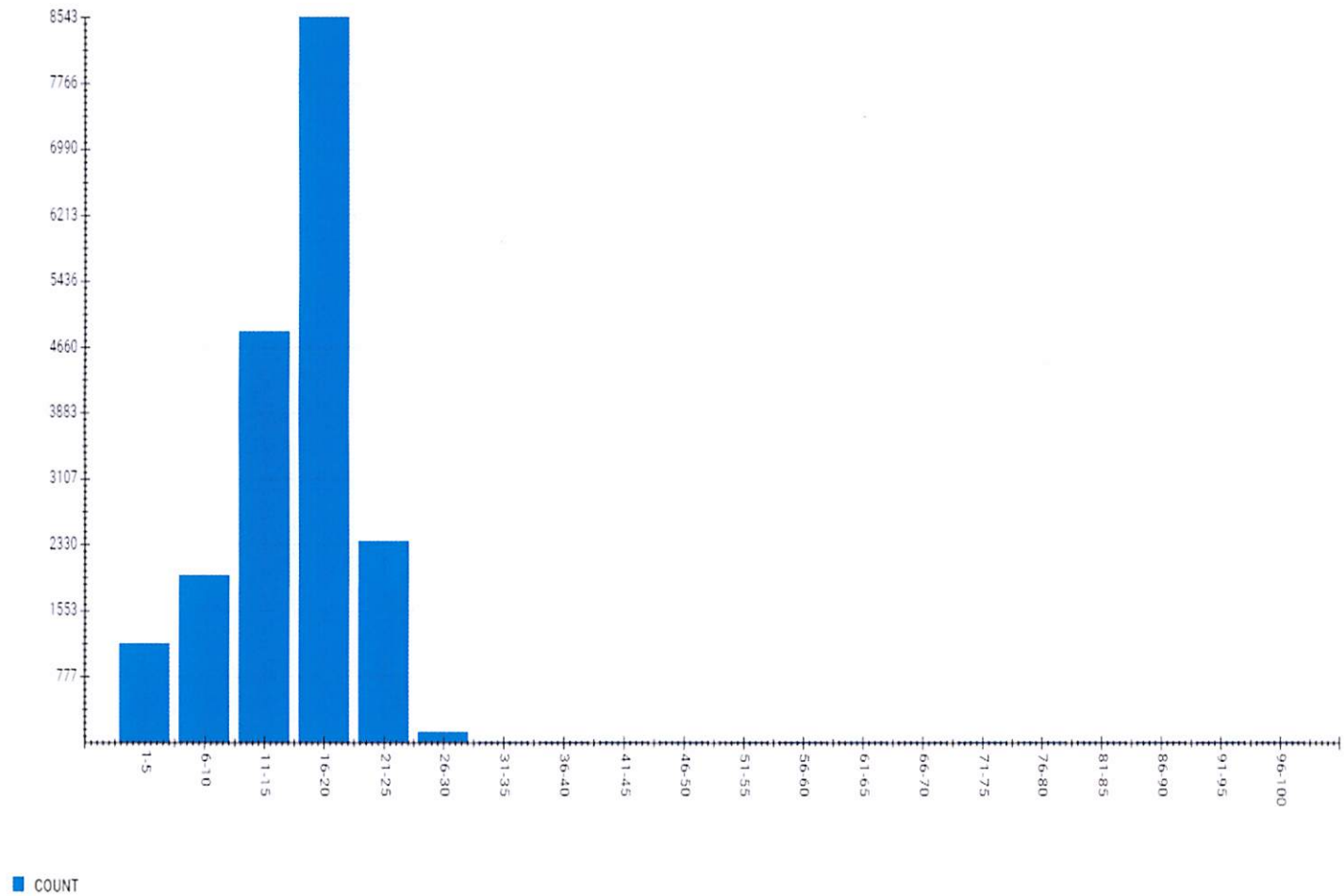
Location: Bird Drive South End

Address: Bird Drive

Report period: 2024-06-12 to 2024-09-13

Count By Speed Range

Speed (mph)	Count
1-5	1160
6-10	1972
11-15	4846
16-20	8543
21-25	2369
26-30	119
31-35	2
36-40	0
41-45	0
46-50	0
51-55	0
56-60	0
61-65	0
66-70	0
71-75	0
76-80	0
81-85	0
86-90	0
91-95	0
96-100	0
Total	19011





# Count by Speed Range Report

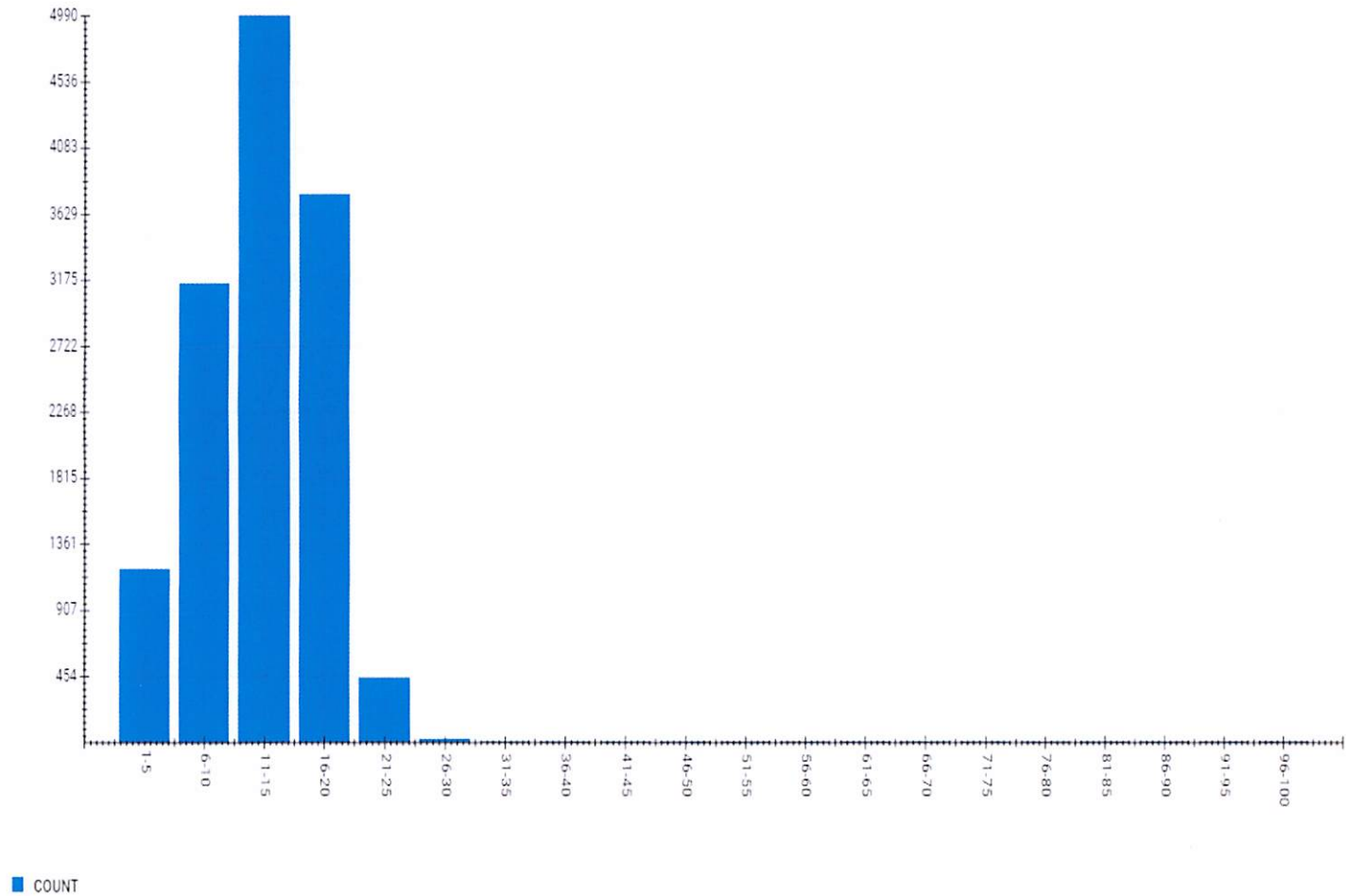
Location: 4th Avenue North

Address: 4th Avenue North

Report period: 2024-06-12 to 2024-09-13

Count By Speed Range

Speed (mph)	Count
1-5	1188
6-10	3155
11-15	4990
16-20	3763
21-25	442
26-30	24
31-35	0
36-40	0
41-45	0
46-50	0
51-55	0
56-60	0
61-65	0
66-70	0
71-75	0
76-80	0
81-85	0
86-90	0
91-95	0
96-100	0
Total	13562





## MetroCount Traffic Executive Speed Statistics

### SpeedStat-31 -- English (ENU)

#### Datasets:

**Site:** [Bird] Bird DR-access trail to bike path  
**Attribute:** 20  
**Direction:** 7 - North bound A>B, South bound B>A. **Lane:** 0  
**Survey Duration:** 12:45 Friday, May 24, 2024 => 9:10 Friday, May 31, 2024,  
**Zone:**  
**File:** Bird 0 2024-05-31 0910.EC0 (Plus )  
**Identifier:** M012T69B MC56-6 [MC55] (c)Microcom 02/03/01  
**Algorithm:** Factory default axle (v5.08)  
**Data type:** Axle sensors - Paired (Class/Speed/Count)

#### Profile:

**Filter time:** 12:46 Friday, May 24, 2024 => 9:10 Friday, May 31, 2024 (6.85003)  
**Included classes:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13  
**Speed range:** 6 - 99 mph.  
**Direction:** North, East, South, West (bound), P = North, Lane = 0-16  
**Separation:** Headway > 0 sec, Span 0 - 328.084 ft  
**Name:** Default Profile  
**Scheme:** Vehicle classification (Scheme F3)  
**Units:** Non metric (ft, mi, ft/s, mph, lb, ton)  
**In profile:** Vehicles = 1905 / 1910 (99.74%)



## Speed Statistics

### SpeedStat-31

**Site:** Bird.0.1NS  
**Description:** Bird DR-access trail to bike path  
**Filter time:** 12:46 Friday, May 24, 2024 => 9:10 Friday, May 31, 2024  
**Scheme:** Vehicle classification (Scheme F3)  
**Filter:** Cls(1-13) Dir(NESW) Sp(6,99) Headway(>0) Span(0 - 328.084) Lane(0-16)

Vehicles = 1905

Posted speed limit = 20 mph, Exceeding = 555 (29.13%), Mean Exceeding = 22.05 mph

Maximum = 28.9 mph, Minimum = 6.3 mph, Mean = 17.8 mph

85% Speed = 21.47 mph, 95% Speed = 23.71 mph, Median = 18.12 mph

12 mph Pace = 12 - 24, Number in Pace = 1669 (87.61%)

Variance = 14.61, Standard Deviation = 3.82 mph

### Speed Bins (Partial days)

Speed	Bin	Below	Above	Energy	vMult	n * vMult
0 - 6	0 0.000%	0 0.000%	1905 100.0%	0.00	0.00	0.00
6 - 12	180 9.449%	180 9.449%	1725 90.55%	0.00	0.00	0.00
12 - 19	898 47.14%	1078 56.59%	827 43.41%	0.00	0.00	0.00
19 - 25	781 41.00%	1859 97.59%	46 2.415%	0.00	0.00	0.00
25 - 31	46 2.415%	1905 100.0%	0 0.000%	0.00	0.00	0.00
31 - 37	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00
37 - 43	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00
43 - 50	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00
50 - 56	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00
56 - 62	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00
62 - 68	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00
68 - 75	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00
75 - 81	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00
81 - 87	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00
87 - 93	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00
93 - 99	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00
99 - 106	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00
106 - 112	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00
112 - 118	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00
118 - 124	0 0.000%	1905 100.0%	0 0.000%	0.00	0.00	0.00

Total Speed Rating = 0.00

Total Moving Energy (Estimated) = 0.00

### Speed limit fields (Partial days)

Limit	Below	Above
0   20 (PSL)	1350 70.9%	555 29.1%



## MetroCount Traffic Executive Speed Statistics

### SpeedStat-30 -- English (ENU)

#### Datasets:

**Site:** [Bird] south end of Bird  
**Attribute:** 20  
**Direction:** 7 - North bound A>B, South bound B>A. **Lane:** 0  
**Survey Duration:** 7:34 Monday, April 8, 2024 => 7:53 Monday, April 15, 2024,  
**Zone:**  
**File:** Bird 0 2024-04-15 0754.EC0 (Plus )  
**Identifier:** M012T69B MC56-6 [MC55] (c)Microcom 02/03/01  
**Algorithm:** Factory default axle (v5.08)  
**Data type:** Axle sensors - Paired (Class/Speed/Count)

#### Profile:

**Filter time:** 7:35 Monday, April 8, 2024 => 7:53 Monday, April 15, 2024 (7.01284)  
**Included classes:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13  
**Speed range:** 6 - 99 mph.  
**Direction:** North, East, South, West (bound), P = North, Lane = 0-16  
**Separation:** Headway > 0 sec, Span 0 - 328.084 ft  
**Name:** Default Profile  
**Scheme:** Vehicle classification (Scheme F3)  
**Units:** Non metric (ft, mi, ft/s, mph, lb, ton)  
**In profile:** Vehicles = 1914 / 1946 (98.36%)



## Speed Statistics

### SpeedStat-30

**Site:** Bird.0.1NS  
**Description:** south end of Bird  
**Filter time:** 7:35 Monday, April 8, 2024 => 7:53 Monday, April 15, 2024  
**Scheme:** Vehicle classification (Scheme F3)  
**Filter:** Cls(1-13) Dir(NESW) Sp(6,99) Headway(>0) Span(0 - 328.084) Lane(0-16)

Vehicles = 1914

Posted speed limit = 20 mph, Exceeding = 827 (43.21%), Mean Exceeding = 22.70 mph

Maximum = 33.1 mph, Minimum = 6.2 mph, Mean = 19.0 mph

85% Speed = 23.04 mph, 95% Speed = 25.50 mph, Median = 19.46 mph

12 mph Pace = 13 - 25, Number in Pace = 1603 (83.75%)

Variance = 17.92, Standard Deviation = 4.23 mph

### Speed Bins (Partial days)

Speed	Bin	Below	Above	Energy	vMult	n * vMult
0 - 6	0 0.000%	0 0.000%	1914 100.0%	0.00	0.00	0.00
6 - 12	155 8.098%	155 8.098%	1759 91.90%	0.00	0.00	0.00
12 - 19	654 34.17%	809 42.27%	1105 57.73%	0.00	0.00	0.00
19 - 25	971 50.73%	1780 93.00%	134 7.001%	0.00	0.00	0.00
25 - 31	131 6.844%	1911 99.84%	3 0.157%	0.00	0.00	0.00
31 - 37	3 0.157%	1914 100.0%	0 0.000%	0.00	0.00	0.00
37 - 43	0 0.000%	1914 100.0%	0 0.000%	0.00	0.00	0.00
43 - 50	0 0.000%	1914 100.0%	0 0.000%	0.00	0.00	0.00
50 - 56	0 0.000%	1914 100.0%	0 0.000%	0.00	0.00	0.00
56 - 62	0 0.000%	1914 100.0%	0 0.000%	0.00	0.00	0.00
62 - 68	0 0.000%	1914 100.0%	0 0.000%	0.00	0.00	0.00
68 - 75	0 0.000%	1914 100.0%	0 0.000%	0.00	0.00	0.00
75 - 81	0 0.000%	1914 100.0%	0 0.000%	0.00	0.00	0.00
81 - 87	0 0.000%	1914 100.0%	0 0.000%	0.00	0.00	0.00
87 - 93	0 0.000%	1914 100.0%	0 0.000%	0.00	0.00	0.00
93 - 99	0 0.000%	1914 100.0%	0 0.000%	0.00	0.00	0.00
99 - 106	0 0.000%	1914 100.0%	0 0.000%	0.00	0.00	0.00
106 - 112	0 0.000%	1914 100.0%	0 0.000%	0.00	0.00	0.00
112 - 118	0 0.000%	1914 100.0%	0 0.000%	0.00	0.00	0.00
118 - 124	0 0.000%	1914 100.0%	0 0.000%	0.00	0.00	0.00

Total Speed Rating = 0.00

Total Moving Energy (Estimated) = 0.00

### Speed limit fields (Partial days)

Limit	Below	Above
0   20 (PSL)	1087 56.8%	827 43.2%



## MetroCount Traffic Executive Speed Statistics

### SpeedStat-29 -- English (ENU)

#### Datasets:

**Site:** [Williams] South end of Williams  
**Attribute:** 20mph  
**Direction:** 7 - North bound A>B, South bound B>A. **Lane:** 0  
**Survey Duration:** 7:37 Monday, April 8, 2024 => 7:49 Monday, April 15, 2024,  
**Zone:**  
**File:** Williams 0 2024-04-15 0750.EC0 (Plus )  
**Identifier:** GT33RHZS MC56-L5 [MC55] (c)Microcom 19Oct04  
**Algorithm:** Factory default axle (v5.08)  
**Data type:** Axle sensors - Paired (Class/Speed/Count)

#### Profile:

**Filter time:** 7:38 Monday, April 8, 2024 => 7:49 Monday, April 15, 2024 (7.00792)  
**Included classes:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13  
**Speed range:** 6 - 99 mph.  
**Direction:** North, East, South, West (bound), P = North, Lane = 0-16  
**Separation:** Headway > 0 sec, Span 0 - 328.084 ft  
**Name:** Default Profile  
**Scheme:** Vehicle classification (Scheme F3)  
**Units:** Non metric (ft, mi, ft/s, mph, lb, ton)  
**In profile:** Vehicles = 972 / 974 (99.79%)

## Speed Statistics

### SpeedStat-29

**Site:** Williams.0.1NS  
**Description:** South end of Williams  
**Filter time:** 7:38 Monday, April 8, 2024 => 7:49 Monday, April 15, 2024  
**Scheme:** Vehicle classification (Scheme F3)  
**Filter:** Cls(1-13) Dir(NESW) Sp(6,99) Headway(>0) Span(0 - 328.084) Lane(0-16)

Vehicles = 972

Posted speed limit = 20 mph, Exceeding = 222 (22.84%), Mean Exceeding = 22.83 mph

Maximum = 30.6 mph, Minimum = 6.4 mph, Mean = 17.0 mph

85% Speed = 21.36 mph, 95% Speed = 24.38 mph, Median = 17.11 mph

12 mph Pace = 10 - 22, Number in Pace = 813 (83.64%)

Variance = 18.23, Standard Deviation = 4.27 mph

### Speed Bins (Partial days)

Speed	Bin	Below	Above	Energy	vMult	n * vMult
0 - 6	0 0.000%	0 0.000%	972 100.0%	0.00	0.00	0.00
6 - 12	143 14.71%	143 14.71%	829 85.29%	0.00	0.00	0.00
12 - 19	494 50.82%	637 65.53%	335 34.47%	0.00	0.00	0.00
19 - 25	293 30.14%	930 95.68%	42 4.321%	0.00	0.00	0.00
25 - 31	42 4.321%	972 100.0%	0 0.000%	0.00	0.00	0.00
31 - 37	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00
37 - 43	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00
43 - 50	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00
50 - 56	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00
56 - 62	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00
62 - 68	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00
68 - 75	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00
75 - 81	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00
81 - 87	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00
87 - 93	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00
93 - 99	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00
99 - 106	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00
106 - 112	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00
112 - 118	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00
118 - 124	0 0.000%	972 100.0%	0 0.000%	0.00	0.00	0.00

Total Speed Rating = 0.00

Total Moving Energy (Estimated) = 0.00

### Speed limit fields (Partial days)

Limit	Below	Above
0   20 (PSL)	750 77.2%	222 22.8%



## MetroCount Traffic Executive Speed Statistics

### SpeedStat-38 -- English (ENU)

#### Datasets:

**Site:** [Bird nothend] access trail to bike path  
**Attribute:** 20mph  
**Direction:** 7 - North bound A>B, South bound B>A. **Lane:** 0  
**Survey Duration:** 9:17 Tuesday, August 6, 2024 => 8:02 Wednesday, August 14, 2024,  
**Zone:**  
**File:** Bird nothend 0 2024-08-14 0802.EC0 (Plus )  
**Identifier:** GT33RHZS MC56-L5 [MC55] (c)Microcom 19Oct04  
**Algorithm:** Factory default axle (v5.08)  
**Data type:** Axle sensors - Paired (Class/Speed/Count)

#### Profile:

**Filter time:** 9:18 Tuesday, August 6, 2024 => 8:02 Wednesday, August 14, 2024 (7.94738)  
**Included classes:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13  
**Speed range:** 6 - 99 mph.  
**Direction:** North, East, South, West (bound), P = North, Lane = 0-16  
**Separation:** Headway > 0 sec, Span 0 - 328.084 ft  
**Name:** Default Profile  
**Scheme:** Vehicle classification (Scheme F3)  
**Units:** Non metric (ft, mi, ft/s, mph, lb, ton)  
**In profile:** Vehicles = 2949 / 2969 (99.33%)

## Speed Statistics

### SpeedStat-38

**Site:** Bird nothend.0.1NS  
**Description:** access trail to bike path  
**Filter time:** 9:18 Tuesday, August 6, 2024 => 8:02 Wednesday, August 14, 2024  
**Scheme:** Vehicle classification (Scheme F3)  
**Filter:** Cls(1-13) Dir(NESW) Sp(6,99) Headway(>0) Span(0 - 328.084) Lane(0-16)

Vehicles = 2949

Posted speed limit = 20 mph, Exceeding = 82 (2.781%), Mean Exceeding = 21.45 mph

Maximum = 26.8 mph, Minimum = 6.2 mph, Mean = 14.3 mph

85% Speed = 17.45 mph, 95% Speed = 19.35 mph, Median = 14.20 mph

12 mph Pace = 8 - 20, Number in Pace = 2813 (95.39%)

Variance = 9.04, Standard Deviation = 3.01 mph

### Speed Bins (Partial days)

Speed	Bin	Below	Above	Energy	vMult	n * vMult
0 - 6	0 0.000%	0 0.000%	2949 100.0%	0.00	0.00	0.00
6 - 12	789 26.75%	789 26.75%	2160 73.25%	0.00	0.00	0.00
12 - 19	1928 65.38%	2717 92.13%	232 7.867%	0.00	0.00	0.00
19 - 25	228 7.731%	2945 99.86%	4 0.136%	0.00	0.00	0.00
25 - 31	4 0.136%	2949 100.0%	0 0.000%	0.00	0.00	0.00
31 - 37	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00
37 - 43	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00
43 - 50	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00
50 - 56	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00
56 - 62	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00
62 - 68	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00
68 - 75	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00
75 - 81	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00
81 - 87	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00
87 - 93	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00
93 - 99	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00
99 - 106	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00
106 - 112	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00
112 - 118	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00
118 - 124	0 0.000%	2949 100.0%	0 0.000%	0.00	0.00	0.00

Total Speed Rating = 0.00

Total Moving Energy (Estimated) = 0.00

### Speed limit fields (Partial days)

Limit	Below	Above
0   20 (PSL)	2867 97.2%	82 2.8%



## MetroCount Traffic Executive Speed Statistics

### SpeedStat-36 -- English (ENU)

#### Datasets:

**Site:** [Bird south end] South of Rember  
**Attribute:** 20mph  
**Direction:** 7 - North bound A>B, South bound B>A. **Lane:** 0  
**Survey Duration:** 7:13 Tuesday, July 30, 2024 => 8:52 Tuesday, August 6, 2024,  
**Zone:**  
**File:** Bird south end 0 2024-08-06 0852.EC0 (Plus )  
**Identifier:** GT33RHZS MC56-L5 [MC55] (c)Microcom 19Oct04  
**Algorithm:** Factory default axle (v5.08)  
**Data type:** Axle sensors - Paired (Class/Speed/Count)

#### Profile:

**Filter time:** 7:14 Tuesday, July 30, 2024 => 8:52 Tuesday, August 6, 2024 (7.06865)  
**Included classes:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13  
**Speed range:** 6 - 99 mph.  
**Direction:** North, East, South, West (bound), P = North, Lane = 0-16  
**Separation:** Headway > 0 sec, Span 0 - 328.084 ft  
**Name:** Default Profile  
**Scheme:** Vehicle classification (Scheme F3)  
**Units:** Non metric (ft, mi, ft/s, mph, lb, ton)  
**In profile:** Vehicles = 2800 / 2867 (97.66%)

## Speed Statistics

### SpeedStat-36

**Site:** Bird south end.0.1NS  
**Description:** South of Rember  
**Filter time:** 7:14 Tuesday, July 30, 2024 => 8:52 Tuesday, August 6, 2024  
**Scheme:** Vehicle classification (Scheme F3)  
**Filter:** Cls(1-13) Dir(NESW) Sp(6,99) Headway(>0) Span(0 - 328.084) Lane(0-16)

Vehicles = 2800

Posted speed limit = 20 mph, Exceeding = 461 (16.46%), Mean Exceeding = 21.88 mph

Maximum = 50.0 mph, Minimum = 6.3 mph, Mean = 16.6 mph

85% Speed = 20.24 mph, 95% Speed = 22.15 mph, Median = 16.89 mph

12 mph Pace = 10 - 22, Number in Pace = 2510 (89.64%)

Variance = 13.90, Standard Deviation = 3.73 mph

### Speed Bins (Partial days)

Speed	Bin	Below	Above	Energy	vMult	n * vMult
0 - 6	0 0.000%	0 0.000%	2800 100.0%	0.00	0.00	0.00
6 - 12	381 13.61%	381 13.61%	2419 86.39%	0.00	0.00	0.00
12 - 19	1594 56.93%	1975 70.54%	825 29.46%	0.00	0.00	0.00
19 - 25	796 28.43%	2771 98.96%	29 1.036%	0.00	0.00	0.00
25 - 31	28 1.000%	2799 100.0%	1 0.036%	0.00	0.00	0.00
31 - 37	0 0.000%	2799 100.0%	1 0.036%	0.00	0.00	0.00
37 - 43	0 0.000%	2799 100.0%	1 0.036%	0.00	0.00	0.00
43 - 50	0 0.000%	2799 100.0%	1 0.036%	0.00	0.00	0.00
50 - 56	1 0.036%	2800 100.0%	0 0.000%	0.00	0.00	0.00
56 - 62	0 0.000%	2800 100.0%	0 0.000%	0.00	0.00	0.00
62 - 68	0 0.000%	2800 100.0%	0 0.000%	0.00	0.00	0.00
68 - 75	0 0.000%	2800 100.0%	0 0.000%	0.00	0.00	0.00
75 - 81	0 0.000%	2800 100.0%	0 0.000%	0.00	0.00	0.00
81 - 87	0 0.000%	2800 100.0%	0 0.000%	0.00	0.00	0.00
87 - 93	0 0.000%	2800 100.0%	0 0.000%	0.00	0.00	0.00
93 - 99	0 0.000%	2800 100.0%	0 0.000%	0.00	0.00	0.00
99 - 106	0 0.000%	2800 100.0%	0 0.000%	0.00	0.00	0.00
106 - 112	0 0.000%	2800 100.0%	0 0.000%	0.00	0.00	0.00
112 - 118	0 0.000%	2800 100.0%	0 0.000%	0.00	0.00	0.00
118 - 124	0 0.000%	2800 100.0%	0 0.000%	0.00	0.00	0.00

Total Speed Rating = 0.00

Total Moving Energy (Estimated) = 0.00

### Speed limit fields (Partial days)

Limit	Below	Above
0   20 (PSL)	2339 83.5%	461 16.5%



## MetroCount Traffic Executive Speed Statistics

### SpeedStat-37 -- English (ENU)

#### Datasets:

**Site:** [Williams south end] south of Rember  
**Attribute:** 20mph  
**Direction:** 7 - North bound A>B, South bound B>A. **Lane:** 0  
**Survey Duration:** 7:20 Tuesday, July 30, 2024 => 8:57 Tuesday, August 6, 2024,  
**Zone:**  
**File:** Williams south end 0 2024-08-06 0857.EC0 (Plus )  
**Identifier:** M014J2YR MC56-6 [MC55] (c)Microcom 02/03/01  
**Algorithm:** Factory default axle (v5.08)  
**Data type:** Axle sensors - Paired (Class/Speed/Count)

#### Profile:

**Filter time:** 7:21 Tuesday, July 30, 2024 => 8:57 Tuesday, August 6, 2024 (7.06689)  
**Included classes:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13  
**Speed range:** 6 - 99 mph.  
**Direction:** North, East, South, West (bound), P = North, Lane = 0-16  
**Separation:** Headway > 0 sec, Span 0 - 328.084 ft  
**Name:** Default Profile  
**Scheme:** Vehicle classification (Scheme F3)  
**Units:** Non metric (ft, mi, ft/s, mph, lb, ton)  
**In profile:** Vehicles = 1777 / 1811 (98.12%)

## Speed Statistics

### SpeedStat-37

**Site:** Williams south end.0.1NS  
**Description:** south of Rember  
**Filter time:** 7:21 Tuesday, July 30, 2024 => 8:57 Tuesday, August 6, 2024  
**Scheme:** Vehicle classification (Scheme F3)  
**Filter:** Cls(1-13) Dir(NESW) Sp(6,99) Headway(>0) Span(0 - 328.084) Lane(0-16)

Vehicles = 1777

Posted speed limit = 20 mph, Exceeding = 40 (2.251%), Mean Exceeding = 21.61 mph

Maximum = 25.9 mph, Minimum = 6.3 mph, Mean = 13.7 mph

85% Speed = 16.92 mph, 95% Speed = 18.90 mph, Median = 13.65 mph

12 mph Pace = 8 - 20, Number in Pace = 1687 (94.94%)

Variance = 9.88, Standard Deviation = 3.14 mph

### Speed Bins (Partial days)

Speed	Bin	Below	Above	Energy	vMult	n * vMult
0 - 6	0 0.000%	0 0.000%	1777 100.0%	0.00	0.00	0.00
6 - 12	623 35.06%	623 35.06%	1154 64.94%	0.00	0.00	0.00
12 - 19	1052 59.20%	1675 94.26%	102 5.740%	0.00	0.00	0.00
19 - 25	101 5.684%	1776 99.94%	1 0.056%	0.00	0.00	0.00
25 - 31	1 0.056%	1777 100.0%	0 0.000%	0.00	0.00	0.00
31 - 37	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00
37 - 43	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00
43 - 50	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00
50 - 56	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00
56 - 62	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00
62 - 68	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00
68 - 75	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00
75 - 81	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00
81 - 87	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00
87 - 93	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00
93 - 99	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00
99 - 106	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00
106 - 112	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00
112 - 118	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00
118 - 124	0 0.000%	1777 100.0%	0 0.000%	0.00	0.00	0.00

Total Speed Rating = 0.00

Total Moving Energy (Estimated) = 0.00

### Speed limit fields (Partial days)

Limit	Below	Above
0   20 (PSL)	1737 97.7%	40 2.3%