

**CITY OF EL PASO, TEXAS  
AGENDA ITEM DEPARTMENT HEAD'S SUMMARY FORM**

**DEPARTMENT:** ENGINEERING DEPARTMENT/TRAFFIC DIVISION

**AGENDA DATE:** August 2, 2005

**CONTACT PERSON/PHONE:** TED MARQUEZ/ 541-4035 C.M.

**DISTRICT(S) AFFECTED:** District 6

**SUBJECT: ORDINANCE**

AN ORDINANCE AMENDING TITLE 12 (VEHICLES AND TRAFFIC), CHAPTER 12.88 (SCHEDULES), SECTION 12.88.150 (SCHEDULE XIV, SPEED LIMITS), OF THE EL PASO MUNICIPAL CODE, TO ADD A SUBSECTION IDENTIFYING THE SPEED LIMIT AS THIRTY-FIVE MILES PER HOUR ON SUN FIRE BOULEVARD FROM ZARAGOZA ROAD TO FLORA ALBA DRIVE. THE PENALTY AS PROVIDED IN SECTION 12.84.010 OF THE EL PASO MUNICIPAL CODE.

**BACKGROUND / DISCUSSION:**

Sun Fire Blvd. does not have any speed limit signs and Police have been enforcing this street as 30 mph. This change is based on design standards and road classification and Traffic Engineering Studies.

**PRIOR COUNCIL ACTION:** N/A

**AMOUNT AND SOURCE OF FUNDING:** SEE ATTACHED COST ESTIMATE

**BOARD / COMMISSION ACTION:** N/A

\*\*\*\*\*REQUIRED AUTHORIZATION\*\*\*\*\*

**LEGAL:** (if required) \_\_\_\_\_ **FINANCE:** (if required) \_\_\_\_\_

**DEPARTMENT HEAD:** \_\_\_\_\_  
(Example: if RCA is initiated by Purchasing, client department should sign also)  
*Information copy to appropriate Deputy City Manager*

**APPROVED FOR AGENDA:**

**CITY MANAGER:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

ORDINANCE NO. \_\_\_\_\_

**AN ORDINANCE AMENDING TITLE 12 (VEHICLES AND TRAFFIC), CHAPTER 12.88 (SCHEDULES), SECTION 12.88.150 (SCHEDULE XIV, SPEED LIMITS), OF THE EL PASO MUNICIPAL CODE, TO ADD A SUBSECTION IDENTIFYING THE SPEED LIMIT AS THIRTY-FIVE MILES PER HOUR ON SUN FIRE BOULEVARD FROM ZARAGOZA ROAD TO FLORA ALBA DRIVE. THE PENALTY AS PROVIDED IN SECTION 12.84.010 OF THE EL PASO MUNICIPAL CODE.**

**BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF EL PASO:**

1. That Title 12 (Vehicles and Traffic), Chapter 12.88 (Schedules), Section 12.88.150 (Schedule XIV, Speed Limits), Subsection F (Thirty-five miles per hour) of the El Paso Municipal Code shall be and hereby is amended to add a subparagraph as follows:

**F. Thirty-Five miles per hour:  
Sun Fire Boulevard from Zaragoza Road to Flora Alba Drive.**

2. Except as expressly herein amended, Title 12 (Vehicles and Traffic), Chapter 12.88 (Schedules), Section 12.88.150 (Schedule XIV, Speed Limits) of the El Paso Municipal Code shall remain in full force and effect.

**PASSED AND APPROVED this \_\_\_ day of \_\_\_\_\_, 2005.**

THE CITY OF EL PASO:

\_\_\_\_\_  
John F. Cook  
Mayor

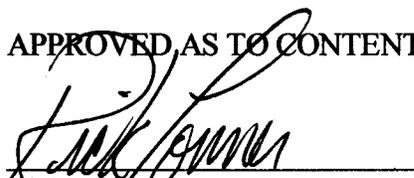
ATTEST:

\_\_\_\_\_  
Richarda Duffy Momsen  
City Clerk

APPROVED AS TO FORM:

  
\_\_\_\_\_  
Theresa Cullen Garney  
Deputy City Attorney

APPROVED AS TO CONTENT:

  
\_\_\_\_\_  
Rick Corner, P.E.  
City Engineer

JOE WARDY  
MAYOR

JOYCE WILSON  
CITY MANAGER

RICK CONNER  
CITY ENGINEER



April 25, 2005

**ENGINEERING DEPARTMENT**

**CITY COUNCIL**

SUSAN AUSTIN  
DISTRICT NO. 1

ROBERT A. CUSHING, JR.  
DISTRICT NO. 2

JOSE ALEXANDRO LOZANO  
DISTRICT NO. 3

JOHN F. COOK  
DISTRICT NO. 4

PRESI ORTEGA, JR.  
DISTRICT NO. 5

PAUL J. ESCOBAR  
DISTRICT NO. 6

VIVIAN ROJAS  
DISTRICT NO. 7

ANTHONY W. COBOS  
DISTRICT NO. 8

**TO:** Theresa Cullen-Garney  
City Attorney's Office

**THRU:** Rick Conner, P.E.  
City Engineer

**FROM:** Ted Marquez, P.E. *C.M.*  
Traffic Engineering Division Manager

**SUBJECT:** Sun Fire Blvd. - Speed Limit

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It is requested that an ordinance be passed amending Title 12 (Vehicles and Traffic), Chapter 12.88 (Schedules), Section 12.88.150 (Schedules XIV, Speed Limits), of the El Paso City Code, to include the following:

**G. Thirty-five miles per hour:**  
**Sun Fire Blvd from Zaragoza to Flora Alba Dr.**

It was brought to our attention that Sun Fire Blvd. does not have any speed limit signs. Police have been enforcing this street as 30mph due to lack of signs. According to the Thorough Fare Plan, Sun Fire is a minor arterial which should be 40mph. However, when we measured street width at different locations, the most narrow portion of this street actually falls in the collector arterial category. The cross section design standards for this type of street makes the speed limit 35mph. After conducting a traffic study to help us decide the appropriate speed limit, we recommend that this portion of Sun Fire be included in the schedule for 35mph.

Should you have any questions regarding this matter, please contact me at extension 4035.

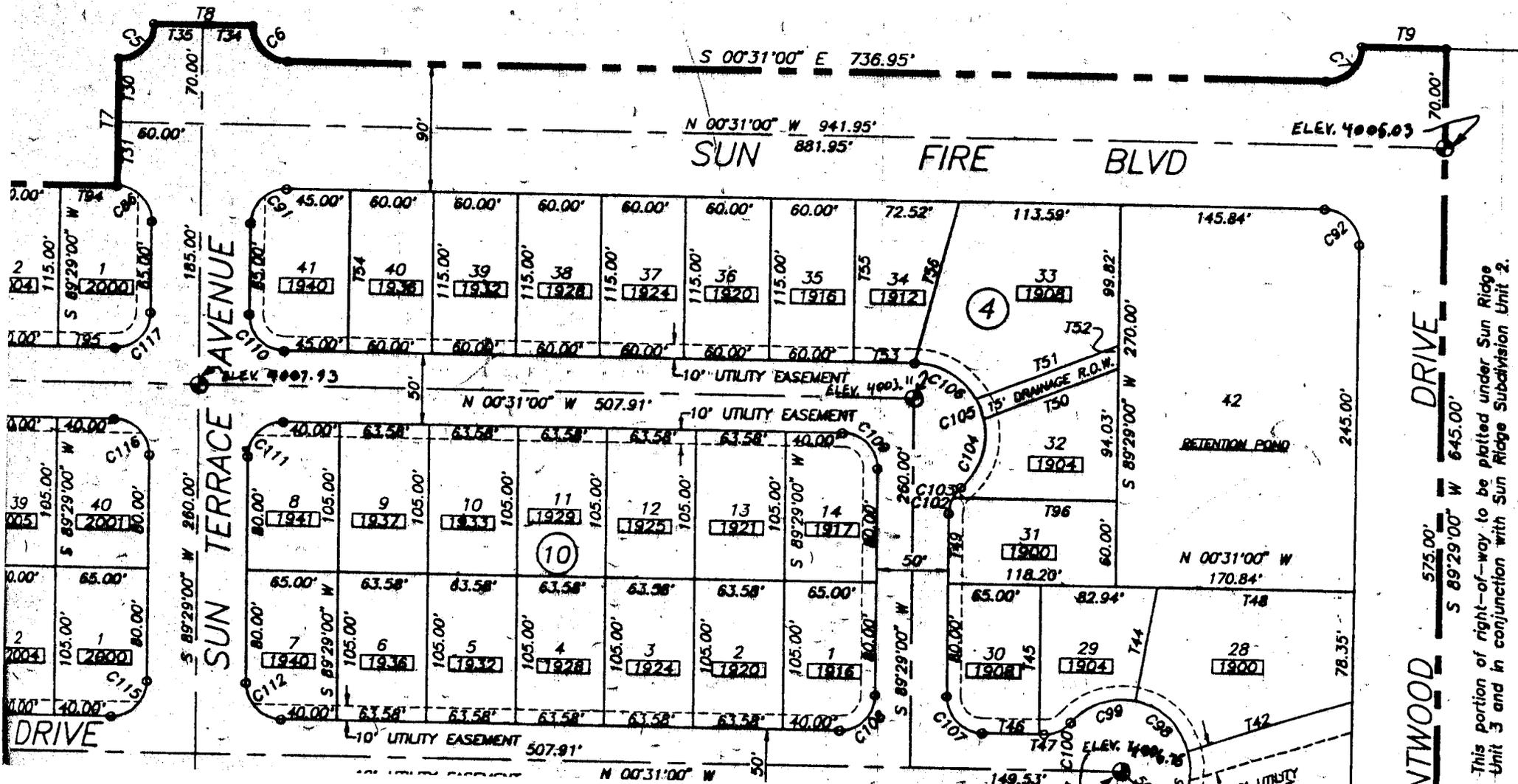
AS/as  
FIR #05-1254  
C: Engineering Department, Traffic Division, Location File



67.99°	34.01'	67.97°	N 17°11'07" W
67.99°	34.01'	67.97°	N 22°16'06" W
67.99°	34.01'	67.97°	N 26°51'05" W
67.99°	34.01'	67.97°	N 31°26'04" W
67.99°	34.01'	67.97°	N 36°01'03" W
67.99°	34.01'	67.97°	N 40°36'02" W
67.99°	34.01'	67.97°	N 45°11'01" W

C120	90°00'00"	25.00'	39.27'	25.00'	35.36'	S 87°31'30" W
C121	90°00'00"	25.00'	39.27'	25.00'	35.36'	N 02°28'30" W

TRACT 2, SECT. 4  
BLOCK 79, TSP. 3  
T&P RR SURVEYS



This portion of right-of-way to be platted under Sun Ridge Unit 3 and in conjunction with Sun Ridge Subdivision Unit 2.

# Nighttime accidents

Date_Crash	Cras	Crash	Manner_of_	Day_	Street1	Street2	Intersection	Time	Light_Condition
May 2004									
04-130206		5/9/2004	2		SUN FIRE BL	NANCY LEE		1818	5
					single-moving strai				

## Intersection Accidents v2

<u>Date</u>	<u>Crash</u>	<u>Crash Number</u>	<u>Intersection</u>	<u>Time</u>	<u>Manner of Collision</u>
2/6/2004	04-037053	SUN FIRE BL & ZARAGOZA RD		0800	rear end
4/15/2004	04-106239	Sun Fire Bl & Zaragoza Rd		1615	other #1 strat, #2 park
4/15/2004	04-106163	Sun Fire Bl & Zaragoza Rd		1320	other #1 strat, #2 park
5/9/2004	04-130206			1818	single-moving straight
6/4/2004	04-156256	SUN FIRE BL & ZARAGOZA RD		1520	rear end
11/9/2004	04-314118	SUN FIRE BL & ZARAGOZA RD		1045	side swipe
11/9/2004	04-314045	SUN FIRE BL & ZARAGOZA RD		0820	rear end
1/24/2005	05-024296	SUN FIRE BL & ZARAGOZA RD		1840	side swipe

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: El Paso  
Street: Sun Fire & Sun Terrace**

A study of vehicle traffic was conducted with HI-STAR unit number 1743. The study was done in the South lane on Sun Fire & Sun Terrace in El Paso, TX in El Paso county. The study began on 04/12/2005 at 11:00 AM and concluded on 04/13/2005 at 11:00 AM, lasting a total of 24 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 1,731 vehicles passed through the location with a peak volume of 426 on 04/13/2005 at 07:00 AM and a minimum volume of 0 on 04/13/2005 at 02:00 AM. The AADT Count for this study was 1,731.

**SPEED**

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

**Chart 1**

0	10	16	21	26	31	36	41	46	51	56	61	66	71	76
to	to	to	to	to	to	to	to	to	to	to	to	to	to	>
9	15	20	25	30	35	40	45	50	55	60	65	70	75	
0	16	19	51	162	410	526	301	132	57	26	16	7	6	2

At least half of the vehicles were traveling in the 36 - 40 mph range or a lower speed. The average speed for all classified vehicles was 38 mph with 95.0 percent exceeding the posted speed of 30 mph. The HI-STAR found 6.59 percent of the total vehicles were traveling in excess of 55 mph. The mode speed for this traffic study was 36 mph and the 85th percentile was 45.77 mph.

**CLASSIFICATION**

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

**Chart 2**

0	21	28	40	50	60	70	80
to	to	to	to	to	to	to	>
20	27	39	49	59	69	79	
1645	50	30	3	1	1	1	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 1,695 which represents 97.90 percent of the total classified vehicles. The number of Small Trucks in the study was 30 which represents 1.70 percent of the total classified vehicles. The number of Trucks/Buses in the study was 3 which represents 0.20 percent of the total classified vehicles. The number of Tractor Trailers in the study was 3 which represents 0.20 percent of the total classified vehicles.

**HEADWAY**

During the peak time period, on 04/13/2005 at 07:00 AM the average headway between the vehicles was 8.43 seconds. The slowest traffic period was on 04/13/2005 at 02:00 AM. During this slowest period, the average headway was 3600.0 seconds.

**WEATHER**

The roadway surface temperature over the period of the study varied between 141 and 169 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

ROBERT DAHL FIRE ROBERT DAHL

*5 in fire  
North of  
N-1 strip  
N-2 center line*

*recessed  
school zone  
length  
300' ArcView*

*55'  
School  
Zone  
15'  
Mott*

YSLETA-CARLSBAD CUTOFF

*85% 1/7/04  
37  
46*  
SUN COUNTRY  
SUN TIDE

THUNDER RIDGE  
SHADOW RIDGE

HIDDEN SUN

SUN TERRACE

*1/7/04 85%  
37 N  
46 S*

SUN SPOT

SUN WILLOW

SUN FIRE

SUN QUEST

SUN COVE

CRYSTAL RIDGE

MONTWOOD

MONTWOOD

MARTIN BAUMAN

CARLOS BOMBACH

ANGIE BOMBACH

GUY REX

ROBERT DAVID

RICHARD ALLEN

JOAN FRANCIS

DESERT SUN

NANCY LEE

PAUL LUCY  
WENDY REED

LOANOA

JEAN LOUISE

KARI ANNE

SARAH RACHEL  
JENNY LAURIE

ANNA MARIE  
DANA MICHELLE  
SHAWNA LAURINE

QUILLA JANE

FLORA ALBA

KARI ANNE

*11' 64'  
street lamp  
guard rail  
barrier*

*3900' from  
Zaregosa to Flora  
Alba*

*@ 40 50 20*

Site Code: 00000005777

Station ID:

Sun Fire

Sun Terrace

Latitude: 0' 0.000 Undefined

North, North

Start Time	0	16	21	26	31	36	41	46	51	56	61	66	71	76	9999	Total	85th Percent	95th Percent
04/13/05	1	1	0	1	5	3	0	0	0	0	0	0	0	0	0	11	36	37
01:00	1	0	0	2	0	1	1	0	0	0	1	0	0	0	0	6	41	61
02:00	1	0	0	2	3	1	0	0	0	0	0	0	0	0	0	7	33	36
03:00	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	4	26	27
04:00	0	0	1	0	3	2	0	0	0	0	0	0	0	0	0	6	36	37
05:00	0	0	2	3	3	2	2	0	0	0	0	0	0	0	0	12	40	41
06:00	7	2	7	23	23	10	5	2	0	1	0	0	0	0	0	80	38	44
07:00	58	6	15	126	146	47	6	4	1	0	0	0	0	0	0	409	35	39
08:00	6	5	1	10	18	11	2	4	0	0	0	0	0	0	0	57	39	46
09:00	7	4	7	17	9	4	5	0	0	0	0	0	0	0	0	53	37	42
10:00	8	4	7	20	20	11	1	1	0	0	0	0	0	0	0	72	36	39
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	89	22	42	206	230	92	22	11	1	1	1	0	0	0	0	717		
Percent	12.4%	3.1%	5.9%	28.7%	32.1%	12.8%	3.1%	1.5%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%				
AM Peak Vol.	58	6	15	126	146	47	6	4	1	1	1							
PM Peak Vol.																		409
Grand Total	237	76	131	496	724	393	141	30	2	4	2	0	0	0		2236		
Percent	10.6%	3.4%	5.9%	22.2%	32.4%	17.6%	6.3%	1.3%	0.1%	0.2%	0.1%	0.0%	0.0%	0.0%				
15th Percentile :					21 MPH													
50th Percentile :					32 MPH													
85th Percentile :					38 MPH													
95th Percentile :					43 MPH													

Statistic	Value
10 MPH Pace Speed :	26-35 MPH
Number in Pace :	1220
Percent in Pace :	54.6%
Number of Vehicles > 30 MPH :	1296
Percent of Vehicles > 30 MPH :	58.0%
Mean Speed(Average) :	30 MPH

**CITY ENGINEERING DEPARTMENT**

**TRAFFIC DIVISION**

**COST ESTIMATES**

**SUBDIVISION:** SunFire Blvd, 35MPH speed limit signs

**DATE:** 7/11/2005

**SCOPE:** INSTALLATION OF TRAFFIC CONTROL DEVICES / PAVEMENT MARKINGS

<b>PROJECT COST SUMMARY</b>	
TRAFFIC CONTROL DEVICES	\$296
PAVEMENT MARKINGS	
LABOR COST	\$68
ADMINISTRATIVE COST	\$18
<b>TOTAL PROJECT COST</b>	<b>\$382</b>
<b>Dept. ID : 32010287</b>	<b>Fund : 01101</b>
<b>Account Number : 503203</b>	<b>Location / Class : 32000</b>

**RECEIPT OF PAYMENT IS REQUIRED PRIOR TO ISSUANCE OF WORK ORDER**

  
Report by: Alonzo Soto

  
Release by: Ted Marquez, P.E.  
Traffic Engineer / Division Manager

\_\_\_\_\_  
Rick Connor, P.E. City Engineer

# CITY ENGINEERING DEPARTMENT

## TRAFFIC DIVISION

### COST ESTIMATES

**SUBDIVISION:** SunFire Blvd, 35MPH speed limit signs

**DATE:** 7/11/2005

**SCOPE:** INSTALLATION OF TRAFFIC CONTROL DEVICES / PAVEMENT MARKINGS

TRAFFIC CONTROL DEVICE	UNIT COST	ESTIMATED QUANTITY	* MOUNT		HARDWARE	ESTIMATED COST
			12 Ft @ \$19.00	10.5 Ft @ \$17.00	CLAMPS @ \$2.00	
12x12	11.00					
12x18	14.00					
12x24	18.00					
18x24	27.00					
24x24	36.00					
24" Stop	36.00					
24x30	45.00	5		3	10	296.00
30" Yield	57.00					
30" Pentagon	57.00					
30" Stop	57.00					
30" Railroad	57.00					
30x30	57.00					
30x36	68.00					
36x12	27.00					
36" Yield	82.00					
36" Pentagon	82.00					
36" Stop	82.00					
36" Railroad	82.00					
36x36	82.00					
36x24	54.00					
36x48	110.00					
48x24	73.00					
48x30	91.00					
48x48	145.00					
***9"SNS Arterial	64.00					
*3 Panel Barricade	145.00					
<b>TOTAL</b>		<b>5</b>		<b>3</b>	<b>10</b>	
<b>SUBTOTAL</b>						<b>\$296</b>

\* (1) COST OF 3-PANEL BARRICADE INCLUDE ALL MATERIALS

\*\* (2) SIGN MOUNTS INCLUDES CONCRETE MIX

\*\*\* (3) STREET NAME SIGNS INCLUDE SIGN ASSEMBLY

# CITY ENGINEERING DEPARTMENT

## TRAFFIC DIVISION

### COST ESTIMATES

SUBDIVISION:

DATE:

SCOPE: INSTALLATION OF TRAFFIC CONTROL DEVICES / PAVEMENT MARKINGS

		ESTIMATED MATERIAL COST				
		COLD PLASTIC - L.F.				
PAVEMENT MARKINGS		WHITE SOLID	WHITE BROKEN	YELLOW BROKEN	YELLOW DOUBLE	ESTIMATED COST
STREET						
<b>SUBTOTAL</b>						

**\*\* MATERIAL COST IN PLACE: WHITE /YELLOW- BROKEN & SOLID @ 1.10 L. F.  
DOUBLE YELLOW @ 2.15 L.F.**

		ESTIMATED LABOR COST			
EMPLOYEE / VEHICLE	CLASSIFICATION / GRADE	HOURLY COST	TOTAL HOURS	ESTIMATE COST	
SIGN CREW					
SIGNS & MKR WKR II	GS-16	11.00	2	29.70	
TRADES HELPER	GS11	9.00	2	24.30	
UNIT529		5.00	2	13.50	
PAINT CREW					
SIGNS & MKR WKR II	GS-16	11.00			
TRADES HELPER	GS-11	9.00			
TRADES HELPER	GS-11	9.00			
UNIT 570		9.00			
<b>SUBTOTAL</b>					<b>\$68</b>

**NOTE:**

**HOURLY COST INCLUDE EMPLOYEE'S BENEFITS**