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**ARIZONA CORPORATION COMMISSION**  
**UNION PACIFIC'S RESPONSES TO REVISED FIRST SET OF DATA REQUESTS**  
**DOCKET NO. RR-03639A-07-0520**  
**Sacaton Street, Florence Street, and Hermosilla Street in City of Casa Grande, AZ**  
**DECEMBER 7, 2007**

CW 1.1 Provide Average Daily Traffic Counts ("ADT") for each of the three locations.

**Response:** *With the exception of Sacaton Street and Hermosilla Street, as to which HDR provided the information, Union Pacific Railroad Company ("Union Pacific") must rely on information provided by others to provide ADT's. With that caveat, Union Pacific responds as follows:*

<i>Crossing</i>	<i>Current ADT</i>	<i>Source</i>
<i>Sacaton Street</i>	<i>1,325</i>	<i>2007 Traffic Counts By HDR</i>
<i>Florence Street</i>	<i>3,048</i>	<i>CAAG 2007 Traffic Count data provided by Gwen Geraci</i>
<i>Hermosilla Street</i>	<i>1,837</i>	<i>2007 Traffic Counts by HDR</i>

**Source:** 1) Jennifer Crumbliss, HDR Engineering, 8404 Indian Hills Drive, Omaha, NE 68114. (HDR Traffic Counts)  
 2) Gwen Geraci, City of Casa Grande Civil Engineer, 3181 N. Lear Avenue, Casa Grande, AZ (520) 421-8625 (City of Casa Grande Traffic Counts)

CW 1.2 Please describe the current Level of Service ("LOS") at each intersection.

**Response:** *Union Pacific believes that the level of service analysis is concerned with mobility rather than safety. In addition, with the exception of Sacaton Street and Hermosilla Street, as to which HDR provided the information, Union Pacific must rely on information provided by others to calculate the level of service. With those caveats, Union Pacific responds as follows:*

<i>Crossing</i>	<i>LOS</i>
<i>Sacaton Street</i>	<i>Northbound (LOS=A), Southbound (LOS=A)</i>
<i>Florence Street</i>	<i>Northbound (LOS=A), Southbound (LOS=A)</i>
<i>Hermosilla Street</i>	<i>Northbound (LOS=A), Southbound (LOS=A)</i>

**Source:** *Traffic level of service calculations were performed using Synchro and SimTraffic programs under the direction of Heidi Schneider with HDR Engineering, Inc at 5210 E Williams Circle, Suite 503, Tucson, AZ 85711, (520) 584-3600. The train delay times utilized in the analysis were provided by Tom Domres, with TKDA at 750 Shoreline Drive, Suite 100, Aurora, IL 60504, (630) 499-4110 via Union Pacific.*

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CW 1.3 Provide any traffic studies done by the road authorities for each area.

**Response:** 1) *The 2007 Pinal County Comprehensive Plan on <http://www.co.pinal.az.us/PlanDev/PDCP/CPInfo.asp>*  
2) *2006 Pinal County SATS (Small Area Transportation Study) on <http://www.co.pinal.az.us/PubWorks> under "Downloads"*  
3) *2007 Final City of Casa Grande SATS on [http://www.ci.casa-grande.az.us/dev\\_center/development\\_center.php](http://www.ci.casa-grande.az.us/dev_center/development_center.php)*  
4) *Other development traffic studies contact:*  
*Leila A. DeMaree, Senior Planner*  
*City of Casa Grande*  
*510 E. Florence Blvd.,*  
*Casa Grande, AZ 85222*

CW 1.4 Provide distances in miles to the next public crossing on either side of the proposed project location. Are any of these grade separations?

**Response:** *Union Pacific believes that the last question in CW 1.4 raises an issue that is irrelevant, namely, whether either of the next public crossings is a grade separation. With that caveat, Union Pacific responds as follows:*

<i>Crossing</i>	<i>TO THE WEST</i>	<i>TO THE EAST</i>
<i>Sacaton Street</i>	<i>0.40 miles to US 84</i>	<i>0.10 miles to Florence Street</i>
<i>Florence Street</i>	<i>0.10 miles to Sacaton Street</i>	<i>0.32 miles to Hermosilla Street</i>
<i>Hermosilla Street</i>	<i>0.32 miles to Florence Street</i>	<i>0.72 miles to Trezell Road</i>

*The only adjacent crossing that is a grade separation is at US 84 (Gila Bend Hwy) west of Sacaton Street.*

**Source:** *HDR's use of the Union Pacific Straight-line Diagrams and [www.MapQuest.com](http://www.MapQuest.com).*

CW 1.5 How and why was grade separation not decided on at this time? Please provide any studies that were done to support these answers.

**Response:** *Union Pacific understands that whether a grade separation is needed is primarily a question of mobility and convenience for vehicular traffic on the roadway, not safety. That is because an at-grade crossing can be safe without constructing a grade separation and eliminating the grade crossing. Based on this understanding, Union Pacific believes the question of whether a grade separation is needed is irrelevant to Union Pacific's application to add a second mainline track at these grade crossings. With that caveat, Union Pacific responds as follows:*

*In addition to the foregoing, grade separation is not appropriate for determination at this time because the local communities and roadway authorities have not finally determined whether grade separations at these crossings are desired by those communities and authorities, what priority grade separations would have with respect to other public projects, when construction of grade separations could be begun and finished, and how grade separations would be funded. Union Pacific is aware that the local communities and roadway authorities are studying these matters (including ADOT's study concerning Maricopa Road) outside of the context of Union Pacific's applications for grade crossing alterations.*

*Furthermore, Union Pacific believes the three crossings involved in this application are safe without constructing grade separations. This conclusion is supported by the fact that the Federal Highway Administration authorizes the use of gates and lights at multiple-track grade crossings as proposed in this application.*

CW 1.6 If this crossing were to be grade separated, provide a cost estimate of the project.

*Response: Again, Union Pacific understands that whether a grade separation is needed is primarily a question of mobility and convenience for vehicular traffic on the roadway, not safety. That is because an at-grade crossing can be safe without constructing a grade separation and eliminating the grade crossing. Based on this understanding, Union Pacific believes the question of whether a grade separation is needed is irrelevant to Union Pacific's application to add a second mainline track at these grade crossings. In addition, any attempt to estimate the cost to construct a grade separation would be speculative in the absence of a detailed study of the particular crossing in question. With those caveats, Union Pacific responds as follows:*

*In connection with its recent application to upgrade the crossing of Union Pacific tracks at the intersection of Power and Pecos Roads, RR-03639A-07-0398, the Town of Gilbert estimated that a grade separation at that location would cost \$22 million. Depending on the particular crossing involved, a reasonable range for the costs of constructing a grade separation would be between \$20 million and \$40 million.*

CW 1.7 Please describe what the surrounding areas are zoned for near this intersection. i.e. Are there going to be new housing developments, industrial parks, etc.?

*Response: Union Pacific believes that the second part of CW 1.7 calls for speculation as to whether new housing developments, industrial parks,*

*or other developments will occur in the future. In addition, Union Pacific does not have access to such information, but instead must rely on information provided by others. With those caveats, Union Pacific responds as follows:*

*Pinal County has a 2006 Land Use Map that matches the field diagnostic observations. The CAAG does not have an existing land use map completed at this time. The future planned zoning and the possible developments in the area of these crossings are shown on the City of Casa Grande 2010 Zoning Map and the Development Map on their website. The observed land use from the field diagnostics are shown below:*

<i>Crossing</i>	<i>2007 Observed Land Use</i>	<i>2010 Land Use</i>
<i>Sacaton Street</i>	<i>Residential and Commercial</i>	<i>Revitalization Area</i>
<i>Florence Street</i>	<i>Residential, Industrial &amp; Commercial</i>	<i>Revitalization Area</i>
<i>Hermosilla Street</i>	<i>Industrial, Commercial</i>	<i>Revitalization Area</i>

*The City of Casa Grande and Pinal County planning departments can better answer the question of future developments. They review development impact studies and regulate zoning.*

*Source: 1) 2006 Pinal County SATS (Small Area Transportation Study) on <http://www.co.pinal.az.us/PubWorks> under "Downloads"*  
*2) The Central Arizona Association of Governments' Planning Department(CAAG) <http://www.caagcentral.org/GIS/gishome.html>*  
*3) The City of Casa Grande <http://www.ci.casa-rande.az.us/gis/maps.php>*  
*Leila A. DeMaree, Senior Planner*  
*City of Casa Grande*  
*510 E. Florence Blvd.,*  
*Casa Grande, AZ 85222*

CW 1.8 Please supply the following: number of daily train movements through the crossing, speed of the trains, and the type of movements being made (i.e. thru freight or switching). Is this a passenger train route?

**Response:** *The movements are the same for these three crossings.*

*Train Count: 48 total average trains per day (46 freight, 2 passenger)*  
*Train Speed: 79 mph passenger / 70 mph freight*  
*Thru Freight/Switching Moves: All moves through these three crossings are thru freight. (According to MTO Rob Henderson there are no switching moves at these crossings.)*

*These crossings are used by Amtrak twice per day, three times per week.*

**Source:** *Union Pacific's Manager of Train Operations, Rob Henderson.*

CW 1.9 Please provide the names and locations of all schools (elementary, junior high and high school) within the area of the crossing.

**Response:**

*There are several schools in the City of Casa Grande within the area of the three crossings in this application, as follows:*

*Saguaro Elementary School @ 1801 N Center, Casa Grande, AZ 85222  
Evergreen Elementary School @ 1000 N Amarillo, Casa Grande, AZ 85222  
Cholla Elementary School @ 1180 E Kortsen, Casa Grande, AZ 85222  
Mesquite Elementary School @ 129 N Arizola, Casa Grande, AZ 85222  
Palo Verde Elementary School @ 40 N Roosevelt, Casa Grande, AZ 85222  
Casa Grande Middle School @ 300 W Mc Murray, Casa Grande, AZ 85222  
Cactus Middle School @ 1220 E Kortsen, Casa Grande, AZ 85222  
Desert Winds High School @ 1362 N Casa Grande Ave, Casa Grande, AZ 85222  
Casa Verde High School @ 1362 N Casa Grande Ave, Casa Grande, AZ 85222*

**Source:** *1) Jennifer Crumbliss, Senior Transportation Engineer with HDR, Engineering, Inc. at 8404 Indian Hills Drive, Omaha, NE 68114, (402) 926-7049 used the internet site [www.GoggleEarth.com](http://www.GoggleEarth.com) also, Juan Cruz, Roadway Designer with HDR in Tucson, physically verified hospital and school locations on June 14, 2007.  
2) Sandy Brown, Assistant Transportation Supervisor for Casa Grande Elementary District #4 located at 1400 N. Pinal Ave, Casa Grande, AZ 85222, (520) 836-5231.  
3) Brenda Hanson, Transportation Supervisor for Casa Grande High School @ 300 W McMurray, Casa Grande, AZ 85222, (520) 316-3382.*

CW 1.10 Please provide school bus route information concerning the crossing, including the number of times a day a school bus crosses this crossing.

**Response:** *Although the number of school bus crossings can vary, on average the City of Casa Grande School buses, combined, cross Florence Street 142 times per day during the week due to the bus yard location to the south of the tracks. Sacaton Street and Hermosilla Street are not currently used for busing to our knowledge.*

**Source:** *Sandy Brown, Assistant Transportation Supervisor for Casa Grande Elementary District #4 located at 1400 N. Pinal Ave, Casa Grande, AZ 85222, (520) 836-5231.  
Brenda Hanson, Transportation Supervisor for Casa Grande High School @ 300 W McMurray, Casa Grande, AZ 85222, (520) 316-3382.*

CW 1.11 Please provide information about any hospitals in the area and whether the crossing is used extensively by emergency service vehicles.

**Response:** *The nearest hospital to these crossings is Casa Grande Regional Hospital (approximately 2.54 miles northeast of Florence Street). To our knowledge, none of these crossings are used extensively by emergency service vehicles.*

**Source:** *Jennifer Crumbliss, Senior Transportation Engineer with HDR, Engineering, Inc. at 8404 Indian Hills Drive, Omaha, NE 68114, (402) 926-7049 used the internet site [www.GoogleEarth.com](http://www.GoogleEarth.com) also, Juan Cruz, Roadway Designer with HDR in Tucson, physically verified hospital and school locations on June 14, 2007.*

CW 1.12 Please provide the total cost of improvements to each crossing.

**Response:**

<i>Crossing</i>	<i>Crossing Surface</i>	<i>Signal</i>	<i>Total</i>
<i>Sacaton Street</i>	<i>\$ 46,320.00</i>	<i>\$227,141.00</i>	<i>\$273,461.00</i>
<i>Florence Street</i>	<i>\$ 61,760.00</i>	<i>\$227,141.00</i>	<i>\$288,901.00</i>
<i>Hermosilla Street</i>	<i>\$162,120.00*</i>	<i>\$290,529.00</i>	<i>\$452,649.00</i>

*\*This is the total projected cost of three sets of new crossing surfaces proposed at the Hermosilla Street crossing, each costing \$54,040.00*

**Source:** *Union Pacific's Engineering.*

ORIGINAL AND THIRTEEN COPIES  
of the foregoing filed this 7<sup>th</sup> day of  
December, 2007, with:

Arizona Corporation Commission  
1200 West Washington Street  
Phoenix, Arizona 85007

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COPY of the foregoing e-mailed and  
mailed this 7<sup>th</sup> day of December, 2007, to:

Mr. David Raber  
Mr. Brian Lehman  
Mr. Chris Watson  
Railroad Safety Section  
Arizona Corporation Commission  
2200 North Central Avenue, #300  
Phoenix, Arizona 85004

COPY of the foregoing hand-delivered  
this 7<sup>th</sup> day of December, 2007, to:

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