SUNBURST ENGINEERING

November 7, 2016

W.O. No. 1612

Patty Kells
Development Services
808 W Spokane Falls Blvd.
Spokane, WA 99201

RE: **Trip Distribution Letter for St. Al's Gym & Daycare**

Dear Patty:

I have been asked to complete a trip distribution letter for St. Al's Gym & Daycare, a new building planned north of the existing Saint Aloysius Gonzaga's elementary school at 611 E Mission Avenue in Spokane. The location of this site within the larger community is shown on Figure 1, the vicinity map.

St. Al's has been educating students for more than 100 years and for most of that time has been located at its present site. Now it has been decided to expand the services at the school to include daycare for infants and toddlers. The expansion will allow for 16 infants and 48 toddlers in the new building. The infants will be in two rooms and the toddlers will be in three rooms. In the present facility, there is one room for toddlers and no room for infant daycare. These expanded services will create additional traffic at the site.

The building planned at about 31,000 s.f., will have supplemental educational space for the current students at the school; namely a gymnasium, with later phases of the project on the second floor including a dedicated STEM room and performing and visual arts space. The gym will also double as an event center, and many school activities will be held here, such as athletic events, fund raisers, plays, etc. However, this additional space will not add to the number of students at the school, only the daycare will add students and therefore, traffic to the school. The site plan is attached to this document as Figure 2.

The existing parking lot serving the school will be restriped to include additional parking, and will be used by parents of children enrolled at the daycare, and by those attending events at the gym. No new pavement is planned as part of this project.

4310 S Ball Dr. Veradale, WA 99037 PH: (509) 924-2155 FX: (509) 228-9440 www.sunburstengr.com

The daycare traffic will occur during the a.m. and p.m. peak hours. However, the vast majority of the events at the gym will occur off-peak, and will not add to the peak hour traffic volumes.

This trip distribution letter is being requested to supplement the SEPA checklist provided for the conditional use permit, and to provide information so that a concurrency certificate can be issued. Schools and religious facilities are allowed in all zoning categories. This letter will focus on the anticipated site generated traffic volumes and general distribution of that traffic. It will focus on normal daily traffic flow patterns, not the traffic volumes which will occasionally occur due to events in the gym.

The trip generation characteristics of the daycare are represented by the characteristics found in the Institute of Transportation Engineers Manual, *Trip Generation, 9th Edition* for Daycare (LU 565) and are summarized on Table 1.

Table 1 - Trip Generation Characteristics for St. Al's Gym & Daycare

Students	A.M. Peak Hour			P.M. Peak Hour			ADT
	Vol @ 0.80 Trips per Student	Directional Distribution		Vol @ 0.81 Trips per Student	Directional Distribution		Vol @ 4.38 Trips per Student
		53% In	47% Out		47% In	53% Out	
64	51	27	24	52	24	28	280

Since this school is attached to the St Al's parish, it draws traffic from within the parish boundaries, with very little coming from the greater Spokane area. Additionally, those using the daycare are more likely than the general population to have families with more than one sibling, and a reduction in the number of trips should be given due to the likelihood of siblings attending the school and the daycare.

The vast majority of trips associated with this daycare will be from residents within St. Al's parish, and will not create new traffic outside the parish boundaries. As stated previously, most of the children at the daycare will have siblings who also attend the existing school. These children will not create an additional trip at the school, but instead will eliminate the need for an additional trip elsewhere for this service. Trips generated by staff at a daycare generally fall outside the peak periods.

School staff were consulted and they anticipate 70% to 85% of the peak hour trips associated with this daycare are expected to be shared trips, not new trips. These trips are also likely to be short, with at least one trip end (the child's home) within the parish.

Based upon these characteristics, the new facility will generate between 8 and 15 new trips during the morning and again during the evening commute period.

Distribution of traffic to the site is expected to be to Mission Avenue with 60% to / from the west and 40% to/from the east using Mission Avenue. The distribution is more specifically shown on the attached Trip Distribution, Figure 3.

Please let me know if you have any questions regarding this document.

Sincerely,
Sunburst Engineering, PS

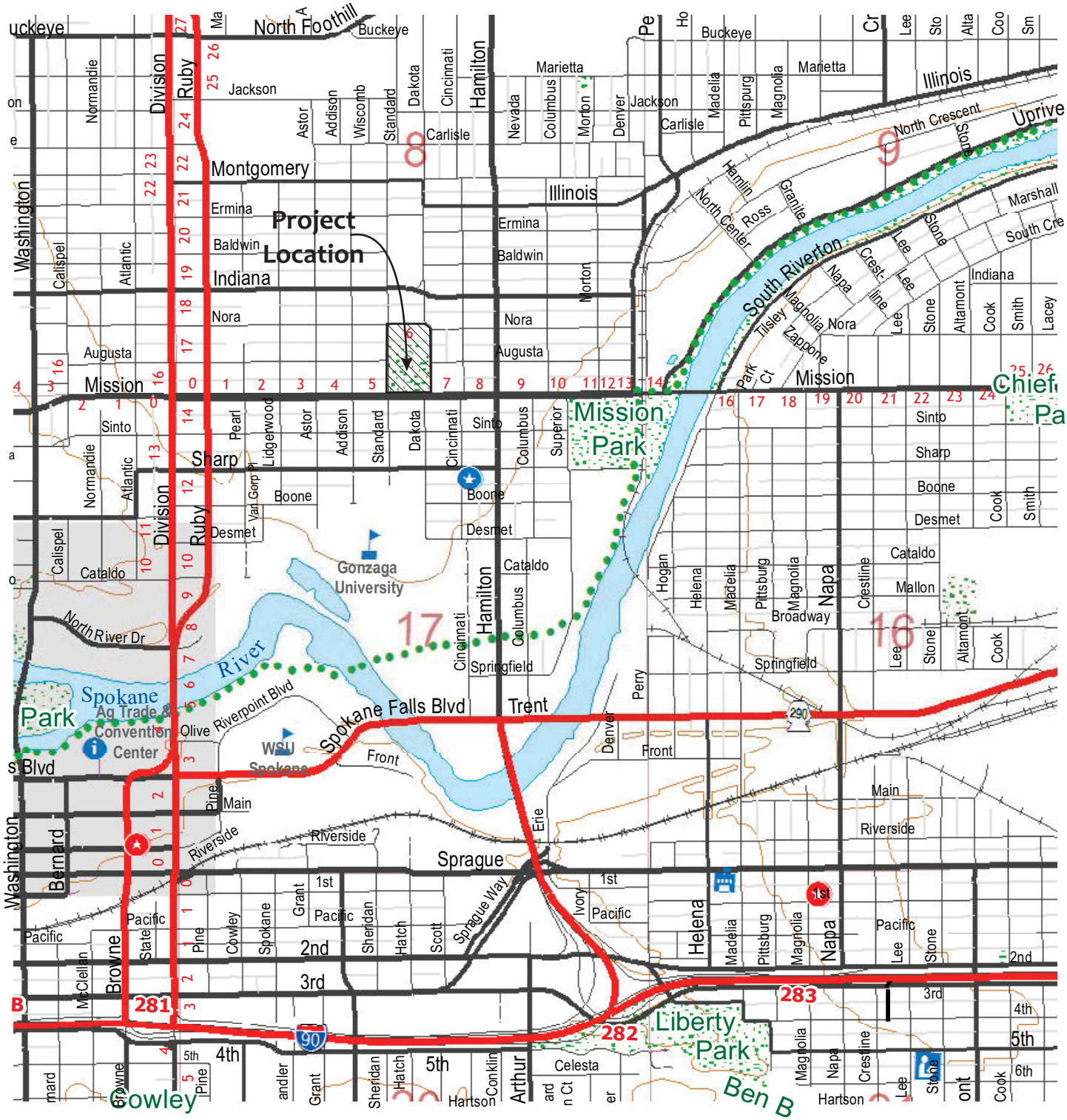
Ann L. Winkler, P.E.
Traffic Engineer

encl.

cc: David Belling, Garco Construction
file

ANN L. WINKLER
STATE OF WASHINGTON
31398
REGISTERED
PROFESSIONAL ENGINEER

11/7/16



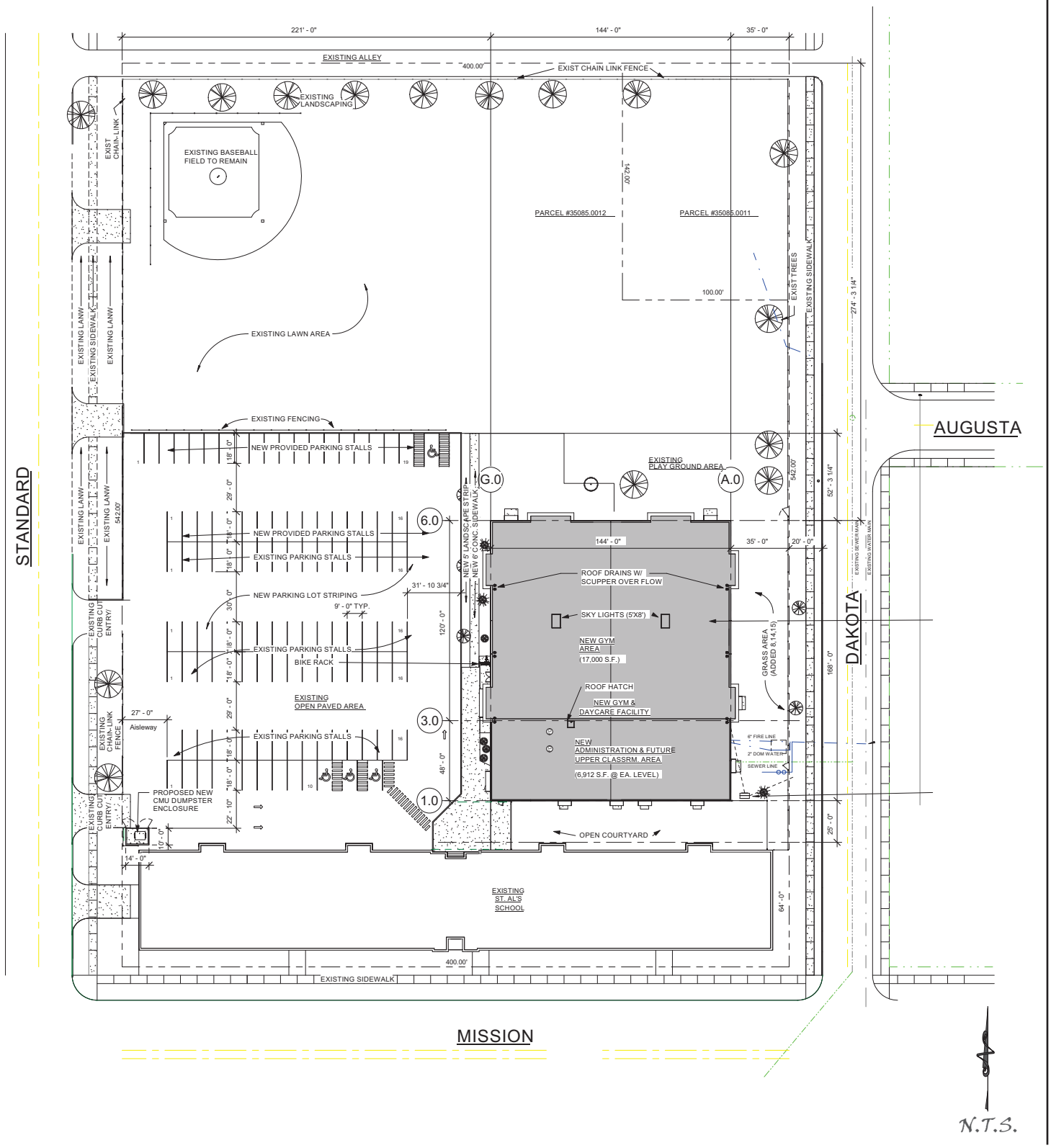
N.T.S.

SUNBURST ENGINEERING
4310 S Ball Dr
Veradale, WA 99037
(509) 924-2155
(509) 228-9440 (Fax)
www.sunburstengr.com

St. Al's Gym / Daycare

Trip Distribution Letter

Figure 1
Vicinity Map



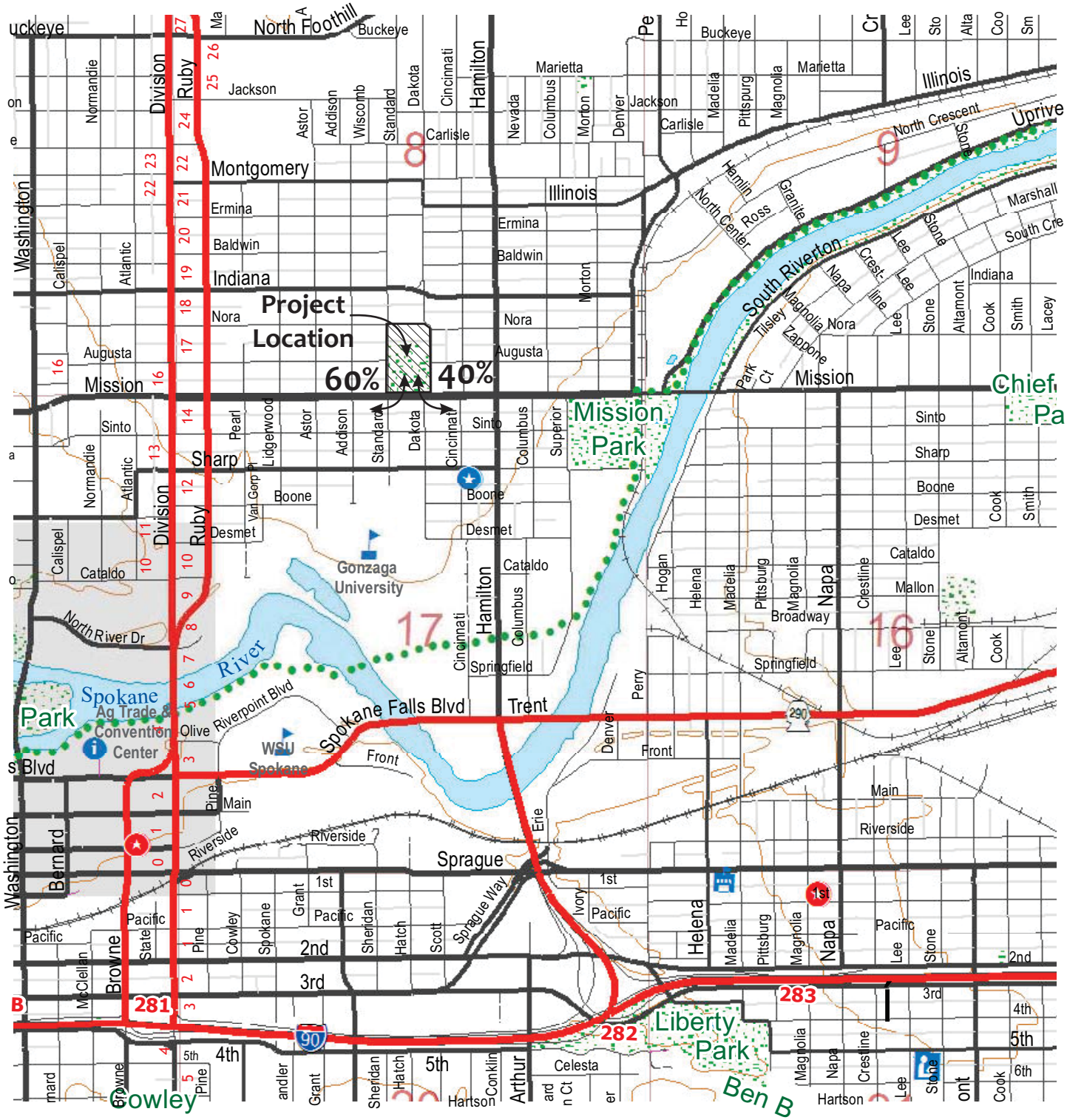
Graphic Provided by Garco Construction

SUNBURST ENGINEERING
4310 S Ball Dr
Veradale, WA 99037
(509) 924-2155
(509) 228-9440 (Fax)
www.sunburstengr.com

St. Al's Gym / Daycare

Trip Distribution Letter

Figure 2
Site Plan



N.T.S.

SUNBURST ENGINEERING
4310 S Ball Dr
Veradale, WA 99037
(509) 924-2155
(509) 228-9440 (Fax)
www.sunburstengr.com

St. Al's Gym / Daycare

Trip Distribution Letter

Figure 3
Distribution Map