

MEMORANDUM

Date: February 27, 2020

Project #: 24201

To: Jabra Khasho, Kate McQuillan, Lauren Russell, & Jana Fox, City of Beaverton
Erik Gerding & Jessica Russell, PPS
Frank Angelo, APG
Leslie Cliff, BORA

From: Julia Kuhn

Project: West Sylvan Middle School Fields

Subject: Supplemental Information on Parking

To supplement our October 2019 Parking Analysis, a detailed summary of anticipated parking demand and supply, by sports season and by day of week, is provided below. This summary is based on the anticipated activity levels during the rebuild of Lincoln High School as well as after construction has been completed.

Fall Season During Rebuild

- LHS football practices will be held in the Fall from 6:15 – 8:00 PM; for these practices, most of the football players will be transported from LHS in 1 – 2 school buses; up to 10 vehicles are estimated to park on-site (primarily coaches) and up to 10 parents are estimated to drop-off/pick-up athletes (students will be required to be bused to site except under approved circumstances).
- LHS varsity soccer practices will be held in the Fall from 8:00 – 9:30 PM; students may be transported from LHS in 1 – 2 school buses, up to 10 vehicles are estimated to park on-site (coaches and students) and up to 15 parents are estimated to drop-off/pick-up athletes.
- One set of LHS athletic practices will be held for two hours on Saturday mornings with 20 vehicles estimated to park on-site.
- Up to three youth games will be held on Sundays with an average of 30 vehicles estimated to park on-site for two hours in duration per game.

Winter Season During Rebuild

- Off-season softball and baseball LHS practices will be held in the Winter from 6:15 – 8:00 PM; up to 10 vehicles are estimated to park on-site and up to 10 parents are estimated to drop-off/pick-up student athletes.

- Off-season softball and baseball LHS practices will be held in the Winter from 8:00 – 9:30 PM; up to 10 vehicles are estimated to park on-site and up to 10 parents are estimated to drop-off/pick-up student athletes.
- Two off-season softball and baseball LHS sports practices will be held in the Winter on Sundays with up to 10 vehicles are estimated to park on-site and up to 10 parents estimated to drop-off/pick-up.
- Two off-season softball and baseball youth sports practices will be held in the Winter on Sundays with up to 5 vehicles are estimated to park on-site and up to 15 parents estimated to drop-off/pick-up.

Spring Season During Rebuild

- Softball and baseball LHS practices will be held in the Spring from 6:15 – 8:00 PM; up to 20 vehicles are estimated to park on-site and up to 15 parents are estimated to drop-off/pick-up student athletes.
- Softball and baseball LHS sports practices will be held in the Spring from 8:00 – 9:30 PM; up to 20 vehicles are estimated to park on-site and up to 15 parents are estimated to drop-off/pick-up.
- LHS baseball/softball games will be held, with anticipated start times of 6:30 PM up to 2 – 3 days per week; up to forty vehicles are anticipated to park on-site plus up to two buses from the visiting teams.
- One set of LHS practices will be held in the mornings on Saturday with approximately 15 vehicles parking on-site and 5 vehicles dropping off/picking up for a two hour time block.
- Rescheduled (“make-up games”) could be held on occasional Saturdays with an average of 40 vehicles estimated to park on-site for two hours in duration per game plus up to two buses from the visiting teams.

Summer Season During Rebuild

- Mid-day baseball games could be held with 20 vehicles dropping off/picking up and 20 vehicles parking on-site.
- Softball games could be held in the weekday evenings with up to 40 vehicles parking on site.

Fall Season After Construction is Complete

- Youth practices will be held from 6:15 – 8:00 PM; up to 20 parents are anticipated to drop-off/pick-up student athletes.
- Youth practices will be held from 8:00 – 9:30 PM; up to 20 parents anticipated to drop-off/pick-up student athletes.
- Up to three youth games will be held on Saturdays with an average of 30 vehicles anticipated on-site for two hours in duration per game.
- One set of youth practices will be held on weekend evenings with an average of 10 vehicles anticipated parking and 10 dropping off/picking up.

Winter Season After Construction is Complete

- Off-season softball and baseball LHS practices will be held in the Winter from 6:15 – 8:00 PM; up to 10 vehicles are estimated to park on-site and up to 10 parents are estimated to drop-off/pick-up student athletes.
- Off-season softball and baseball LHS practices will be held in the Winter from 8:00 – 9:30 PM; up to 10 vehicles are estimated to park on-site and up to 10 parents are estimated to drop-off/pick-up student athletes.
- Two off-season softball and baseball LHS sports practices will be held in the Winter on Sundays with up to 10 vehicles are estimated to park on-site and up to 10 parents estimated to drop-off/pick-up.
- Two off-season softball and baseball youth sports practices will be held in the Winter on Sundays with up to 5 vehicles are estimated to park on-site and up to 15 parents estimated to drop-off/pick-up.

Spring Season After Construction is Complete (Same as anticipated during Rebuild)

- Softball and baseball LHS practices will be held in the Spring from 6:15 – 8:00 PM; up to 20 vehicles are estimated to park on-site and up to 15 parents are estimated to drop-off/pick-up student athletes.
- Softball and baseball LHS sports practices will be held in the Spring from 8:00 – 9:30 PM; up to 20 vehicles are estimated to park on-site and up to 15 parents are estimated to drop-off/pick-up.
- LHS baseball/softball games will be held, with anticipated start times of 6:30 PM up to 2 – 3 days per week; up to forty vehicles are anticipated to park on-site plus up to two buses from the visiting teams.
- One set of LHS practices will be held in the mornings on Saturday with approximately 15 vehicles parking on-site and 5 parents dropping off/picking up.
- Rescheduled (“make-up games”) could be held on occasional Saturdays with an average of 40 vehicles estimated to park on-site for two hours in duration per game plus up to two buses from the visiting teams.

Summer Season After Construction is Complete

- Mid-day baseball games could be held with 20 vehicles dropping off/picking up and 20 vehicles parking on-site.
- Softball games could be held in the weekday evenings with up to 40 vehicles parking on site.

Table 1 summarizes the anticipated parking demand and supply during the rebuild whereas Table 2 summarizes the anticipated parking demand after the rebuild is complete.

Table 1. Anticipated Parking Demand during Rebuild

	Parent Drop-off	Vehicles Parking	Existing Demand	Total Parked excluding Buses	Available Supply	Parking Surplus
Fall Season on a Weeknight						
6:15 PM Practice	10	10	62	82	86	4
8:00 PM Practice	15	10	0	25	86	61
Fall Season on a Saturday						
Morning Practice	0	20	0	20	104	84
Fall Season on a Sunday						
Game 1	0	30	0	30	104	74
Game 2	0	30	0	30	104	74
Game 3	0	30	0	30	104	74
Winter Season on a Weeknight						
6:15 PM Practice	10	10	0	20	104	84
8:00 PM Practice	10	10	0	20	104	84
Winter Season on a Sunday						
LHS Practice	10	10	0	20	104	84
LHS Practice	10	10	0	20	104	84
Youth Practice	15	5	0	20	104	84
Youth Practice	15	5	0	20	104	84
Spring Season on a Weeknight with practices						
6:15 PM Practice	15	20	62	97	104	7
8:00 PM Practice	15	20	0	35	104	69
Spring Season on a Weeknight with a Game						
Game	0	40	0	40	86	46
Spring Season on a Saturday						
Morning Practice	5	15	0	20	104	84
Game	0	40	0	40	86	46
Summer Season on a Weekday						
Daytime Game	20	20	0	40	104	64
Evening Game	0	40	0	40	104	64

*Supply of 86 spaces reflects exclusion of 18 after hours spaces affected by bus circulation.

Table 2. Anticipated Parking Demand after Rebuild

	Parent Drop-off	Vehicles Parking	Existing Demand	Total Parked excluding Buses	Available Supply	Parking Surplus
Fall Season on a weeknight						
6:15 PM Practice	20	0	62	82	104	22
8:00 PM Practice	20	0	0	20	104	84
Fall Season on a Saturday						
Game 1	0	30	0	30	104	74
Game 2	0	30	0	30	104	74
Game 3	0	30	0	30	104	74
Evening Practice	10	10	0	20	104	84
Fall Season on a Sunday						
Evening Practice	10	10	0	20	104	84
Winter Season on a Weeknight						
6:15 PM Practice	10	10	0	20	104	84
8:00 PM Practice	10	10	0	20	104	84
Winter Season on a Sunday						
LHS Practice	10	10	0	20	104	84
LHS Practice	10	10	0	20	104	84
Youth Practice	15	5	0	20	104	84
Youth Practice	15	5	0	20	104	84
Spring Season on a Weeknight with practices						
6:15 PM Practice	15	20	62	97	104	7
8:00 PM Practice	15	20	0	35	104	69
Spring Season on a weeknight with a Game						
Game	0	40	0	40	86	46
Spring Season on a Saturday						
Morning Practice	6	15	0	21	104	83
Game	0	40	0	40	86	46
Summer Season on a Weekday						
Daytime Game	20	20	0	40	104	64
Evening Game	0	40	0	40	104	64

*Supply of 86 spaces reflects exclusion of 18 after hours spaces affected by bus circulation.

Please let us know if you have any questions regarding our review.

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From: Julia Kuhn

Project: West Sylvan Middle School Fields

Subject: Supplemental Information on Traffic Impact Study Thresholds

To supplement our October 2019 Parking Analysis and Traffic Impact Study Requirement memoranda, a detailed summary of anticipated new vehicle trips, by sports season and by day of week, is provided below. This summary is based on the anticipated activity levels during the rebuild of Lincoln High School as well as after construction has been completed.

Fall Season During Rebuild

- LHS football practices will be held in the Fall from 6:15 – 8:00 PM; for these practices, most of the football players will be transported from LHS in 1 – 2 school buses; up to 10 vehicles are estimated to park on-site (primarily coaches) and up to 10 parents are estimated to drop-off/pick-up athletes (students will be required to be bused to site except under approved circumstances).
- LHS varsity soccer practices will be held in the Fall from 8:00 – 9:30 PM; students may be transported from LHS in 1 – 2 school buses, up to 10 vehicles are estimated to park on-site (coaches and students) and up to 15 parents are estimated to drop-off/pick-up athletes.
- One set of LHS athletic practices will be held for two hours on Saturday mornings with 20 vehicles estimated to park on-site.
- Up to three youth games will be held on Sundays with an average of 30 vehicles estimated to park on-site for two hours in duration per game.

Winter Season During Rebuild

- Off-season softball and baseball LHS practices will be held in the Winter from 6:15 – 8:00 PM; up to 10 vehicles are estimated to park on-site and up to 10 parents are estimated to drop-off/pick-up student athletes.

- Off-season softball and baseball LHS practices will be held in the Winter from 8:00 – 9:30 PM; up to 10 vehicles are estimated to park on-site and up to 10 parents are estimated to drop-off/pick-up student athletes.
- Two off-season softball and baseball LHS sports practices will be held in the Winter on Sundays with up to 10 vehicles are estimated to park on-site and up to 10 parents estimated to drop-off/pick-up.
- Two off-season softball and baseball youth sports practices will be held in the Winter on Sundays with up to 5 vehicles are estimated to park on-site and up to 15 parents estimated to drop-off/pick-up.

Spring Season During Rebuild

- Softball and baseball LHS practices will be held in the Spring from 6:15 – 8:00 PM; up to 20 vehicles are estimated to park on-site and up to 15 parents are estimated to drop-off/pick-up student athletes.
- Softball and baseball LHS sports practices will be held in the Spring from 8:00 – 9:30 PM; up to 20 vehicles are estimated to park on-site and up to 15 parents are estimated to drop-off/pick-up.
- LHS baseball/softball games will be held, with anticipated start times of 6:30 PM up to 2 – 3 days per week; up to forty vehicles are anticipated to park on-site plus up to two buses from the visiting teams.
- One set of LHS practices will be held in the mornings on Saturday with approximately 15 vehicles parking on-site and 5 vehicles dropping off/picking up for a two hour time block.
- Rescheduled (“make-up games”) could be held on occasional Saturdays with an average of 40 vehicles estimated to park on-site for two hours in duration per game plus up to two buses from the visiting teams.

Summer Season During Rebuild

- Mid-day baseball games could be held with 20 vehicles dropping off/picking up and 20 vehicles parking on-site.
- Softball games could be held in the weekday evenings with up to 40 vehicles parking on site.

Fall Season After Construction is Complete

- Youth practices will be held from 6:15 – 8:00 PM; up to 20 parents are anticipated to drop-off/pick-up student athletes.
- Youth practices will be held from 8:00 – 9:30 PM; up to 20 parents anticipated to drop-off/pick-up student athletes.
- Up to three youth games will be held on Saturdays with an average of 30 vehicles anticipated on-site for two hours in duration per game.
- One set of youth practices will be held on weekend evenings with an average of 10 vehicles anticipated parking and 10 dropping off/picking up.

Winter Season After Construction is Complete

- Off-season softball and baseball LHS practices will be held in the Winter from 6:15 – 8:00 PM; up to 10 vehicles are estimated to park on-site and up to 10 parents are estimated to drop-off/pick-up student athletes.
- Off-season softball and baseball LHS practices will be held in the Winter from 8:00 – 9:30 PM; up to 10 vehicles are estimated to park on-site and up to 10 parents are estimated to drop-off/pick-up student athletes.
- Two off-season softball and baseball LHS sports practices will be held in the Winter on Sundays with up to 10 vehicles are estimated to park on-site and up to 10 parents estimated to drop-off/pick-up.
- Two off-season softball and baseball youth sports practices will be held in the Winter on Sundays with up to 5 vehicles are estimated to park on-site and up to 15 parents estimated to drop-off/pick-up.

Spring Season After Construction is Complete (Same as anticipated during Rebuild)

- Softball and baseball LHS practices will be held in the Spring from 6:15 – 8:00 PM; up to 20 vehicles are estimated to park on-site and up to 15 parents are estimated to drop-off/pick-up student athletes.
- Softball and baseball LHS sports practices will be held in the Spring from 8:00 – 9:30 PM; up to 20 vehicles are estimated to park on-site and up to 15 parents are estimated to drop-off/pick-up.
- LHS baseball/softball games will be held, with anticipated start times of 6:30 PM up to 2 – 3 days per week; up to forty vehicles are anticipated to park on-site plus up to two buses from the visiting teams.
- One set of LHS practices will be held in the mornings on Saturday with approximately 15 vehicles parking on-site and 5 parents dropping off/picking up.
- Rescheduled (“make-up games”) could be held on occasional Saturdays with an average of 40 vehicles estimated to park on-site for two hours in duration per game plus up to two buses from the visiting teams.

Summer Season After Construction is Complete

- Mid-day baseball games could be held with 20 vehicles dropping off/picking up and 20 vehicles parking on-site.
- Softball games could be held in the weekday evenings with up to 40 vehicles parking on site.

Table 1 summarizes the anticipated vehicular trip increases during the rebuild whereas Table 2 summarizes the anticipated vehicle trip increases after the rebuild is complete.

Table 1. Anticipated New Vehicular Trips during Rebuild

	Buses	Parent Drop-off	Parent Pick-Up	Vehicles Parking	Sum of Vehicles	Total In/Out Trips
Fall Season on a Weeknight						
6:15 PM Practice	2	10	10	10	32	64
8:00 PM Practice	2	15	15	10	42	84
Total	4	25	25	20	74	148
Fall Season on a Saturday						
AM Practice	0	0	0	20	20	40
Fall Season on a Sunday						
Game 1	0	0	0	30	30	60
Game 2	0	0	0	30	30	60
Game 3	0	0	0	30	30	60
Total	0	0	0	90	90	180
Winter Season on a Weeknight						
6:15 PM Practice	0	10	10	10	30	60
8:00 PM Practice	0	10	10	10	30	60
Total	0	20	20	20	60	120
Winter Season on a Sunday						
LHS Practice	0	10	10	10	30	60
LHS Practice	0	10	10	10	30	60
Youth Practice	0	15	15	5	35	70
Youth Practice	0	15	15	5	35	70
Total	0	50	50	30	130	260
Spring Season on a Weeknight with practices						
6:15 PM Practice	0	15	15	20	50	100
8:00 PM Practice	0	15	15	20	50	100
Total	0	30	30	40	100	200
Spring Season on a Weeknight with a Game						
Game	2	0	0	40	42	84
Spring Season on a Saturday						
Morning Practice	0	5	5	15	25	50
Game	2	0	0	40	42	84
Total	2	5	5	55	67	134
Summer Season on a Weekday						
Daytime Game	0	20	20	20	60	120
Evening Game	0	0	0	40	40	80
Total	0	20	20	60	100	200

Table 2. Anticipated New Vehicular Trips after Rebuild

	Buses	Parent Drop-off	Parent Pick-Up	Vehicles Parking	Sum of Vehicles	Total In/Out Trips
Fall Season on a Weeknight						
6:15 PM Practice	0	20	20	0	40	80
8:00 PM Practice	0	20	20	0	40	80
Total	0	40	40	0	80	160
Fall Season on a Saturday						
Game 1	0	0	0	30	30	60
Game 2	0	0	0	30	30	60
Game 3	0	0	0	30	30	60
Evening Practice	0	10	10	10	30	60
Total Saturday	0	10	10	100	120	240
Fall Season on a Sunday						
Evening Practice	0	10	10	10	30	60
Winter Season on a Weeknight						
6:15 PM Practice	0	10	10	10	30	60
8:00 PM Practice	0	10	10	10	30	60
Total	0	20	20	20	60	120
Winter Season on a Sunday						
LHS Practice	0	10	10	10	30	60
LHS Practice	0	10	10	10	30	60
Youth Practice	0	15	15	5	35	70
Youth Practice	0	15	15	5	35	70
Total	0	50	50	30	130	260
Spring Season on a Weeknight with practices						
6:15 PM Practice	0	15	15	20	50	100
8:00 PM Practice	0	15	15	20	50	100
Total	0	30	30	40	100	200
Spring Season on a weeknight with a Game						
Game	2	0	0	40	42	84
Spring Season on a Saturday						
Morning Practice	0	5	5	15	25	50
Game	2	0	0	40	42	84
Total	2	5	5	55	67	134
Summer Season on a Weekday						
Daytime Game	0	20	20	20	60	120
Evening Game	0	0	0	40	40	80
Total	0	20	20	60	100	200

The City of Beaverton Development Code (BDC) requires an applicant to submit a Traffic Impact Study (TIS) if a change in the site use could result in 300 additional trips generated on a daily basis and/or if the change in use adds 20 or more peak hour trips to “local” streets. As outlined above, none of the scenarios analyzed are anticipated to increase daily trips by 300 or more trips nor are any local streets anticipated to experience an increase of 20 trips during the weekday AM or PM peak hours (i.e., one hour between 7 – 9 AM and one hour between 4 – 6 PM). As such, no TIS is triggered by the temporary field usage nor by the proposed field improvements.

Please let us know if you have any questions regarding our review.