

From: [Karl Heisler](#)
To: [Hill, Shannon](#)
Cc: [Pete Choi](#); [Hillary Gitelman](#); [Linda S. Peters](#); [Elliott Schwimmer](#); [Meryka Dirks](#)
Subject: RE: Downtown West: Shade/Shadow (GIS Data for Parks)
Date: Friday, January 24, 2020 5:50:29 PM
Attachments: [image004.png](#)

[External Email]

Thank you, Shannon! I will forward these files to the applicant's shadow consultant.

Karl F. Heisler
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From: Hill, Shannon <Shannon.Hill@sanjoseca.gov>
Sent: Friday, January 24, 2020 5:47 PM
To: Karl Heisler <KHeisler@esassoc.com>
Cc: Pete Choi <PChoi@esassoc.com>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>; Meryka Dirks <MDirks@esassoc.com>
Subject: RE: Downtown West: Shade/Shadow (GIS Data for Parks)

Hi Karl,

Please refer to the attached email from Nolan.

Thank you,

Shannon Hill, Planner
Planning, Building & Code Enforcement | Environmental Review Section
City of San José | 200 East Santa Clara Street
Shannon.Hill@sanjoseca.gov | (408) 535 - 7872

From: Karl Heisler <KHeisler@esassoc.com>
Sent: Friday, January 24, 2020 4:08 PM
To: Hill, Shannon <Shannon.Hill@sanjoseca.gov>
Cc: Pete Choi <PChoi@esassoc.com>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>; Meryka Dirks <MDirks@esassoc.com>
Subject: RE: Downtown West: Shade/Shadow (GIS Data for Parks)

[External Email]

If you and Nolan can get back to us on Monday, that would be great. The applicant's shadow consultant has already started work.

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From: Hill, Shannon <Shannon.Hill@sanjoseca.gov>
Sent: Friday, January 24, 2020 4:01 PM
To: Karl Heisler <KHeisler@esassoc.com>
Cc: Pete Choi <PChoi@esassoc.com>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>; Meryka Dirks <MDirks@esassoc.com>
Subject: RE: Downtown West: Shade/Shadow (GIS Data for Parks)

FYI, I sent the same parks layers I sent you to Nolan, the GIS contact at PRNS. He is going to view and filter them and provide the correct layers. He confirmed that Theodore Lenzen Park shows up as a park for him. If there are issues with the data you have, I'll let you know.

Thanks,
Shannon

From: Hill, Shannon
Sent: Friday, January 24, 2020 12:24 PM
To: Karl Heisler <KHeisler@esassoc.com>
Cc: Pete Choi <PChoi@esassoc.com>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>; Meryka Dirks <MDirks@esassoc.com>
Subject: RE: Downtown West: Shade/Shadow (GIS Data for Parks)

Hi Karl,

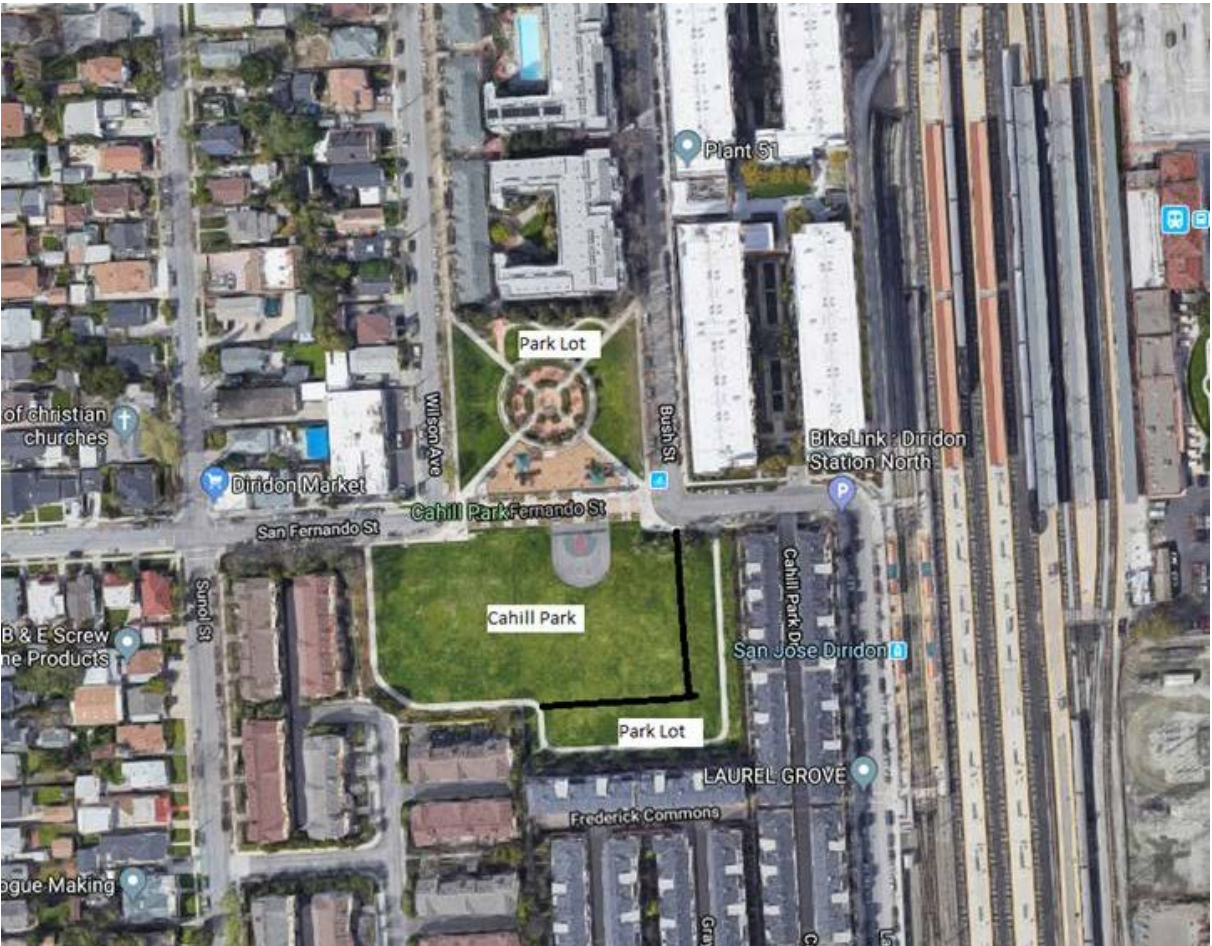
I'm asking PRNS if Theodore Lenzen Park shows up in the layer he is referring to because I agree that these properties should be included, so we need clarification on these discrepancies.

Thanks,
Shannon

From: Karl Heisler <KHeisler@esassoc.com>
Sent: Friday, January 24, 2020 12:03 PM
To: Hill, Shannon <Shannon.Hill@sanjoseca.gov>
Cc: Pete Choi <PChoi@esassoc.com>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>; Meryka Dirks <MDirks@esassoc.com>
Subject: RE: Downtown West: Shade/Shadow (GIS Data for Parks)

[External Email]

We can eliminate the "Park Lots." However, those include a number of clearly public open spaces, including one that appears to be a City park (Lenzen Park, at Stockton and Lenzen Avenues; see attached updated map). Park Lots also include what appears to be portions of Cahill Park and Discovery Dog Park on Delmas and Park Avenues, as well as Guadalupe Community Garden and other northwesterly extensions of Guadalupe River Park. Those sure look like parks.





Karl F. Heisler

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From: Hill, Shannon <Shannon.Hill@sanjoseca.gov>

Sent: Friday, January 24, 2020 11:48 AM

To: Karl Heisler <KHeisler@esassoc.com>

Cc: Pete Choi <PChoi@esassoc.com>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>; Meryka Dirks <MDirks@esassoc.com>

Subject: RE: Downtown West: Shade/Shadow (GIS Data for Parks)

Hi Karl,

That is fine. However, if you can filter those "Park Lots" out and not include them, that would be better. I finally got a response from the PRNS GIS contact, and he indicated that their layer does not include those lots.

In effort to expedite providing the data to you, I requested it from Jose Ruano who is handling the DSAP Amendment process. However, if you cannot filter out those park lots, I can request the data from PRNS again.

Thanks,

Shannon Hill, Planner

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From: Karl Heisler <KHeisler@esassoc.com>
Sent: Thursday, January 23, 2020 4:36 PM
To: Hill, Shannon <Shannon.Hill@sanjoseca.gov>; Keyon, David <david.keyon@sanjoseca.gov>
Cc: Pete Choi <PChoi@esassoc.com>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>; Meryka Dirks <MDirks@esassoc.com>
Subject: RE: Downtown West: Shade/Shadow (GIS Data for Parks)

[External Email]

We have asked that the nearby “Park Lots” that are shown are in a different shade of green from the “parks.” Is that OK?

Karl F. Heisler

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From: Hill, Shannon <Shannon.Hill@sanjoseca.gov>
Sent: Thursday, January 23, 2020 11:40 AM
To: Karl Heisler <KHeisler@esassoc.com>; Keyon, David <david.keyon@sanjoseca.gov>
Cc: Pete Choi <PChoi@esassoc.com>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Michael Lisenbee <mlisenbee@davidjpowers.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>; Meryka Dirks <MDirks@esassoc.com>
Subject: RE: Downtown West: Shade/Shadow (GIS Data for Parks)

Hi Karl,

Thanks for the additional information. For spaces that are not used as parks, they don't need to be included in the qualitative discussion. Looking at the map, it seems the only parks close enough to the project area to be discussed are Cahill and possibly Discovery Dog Park. However, if you think it's necessary to briefly discuss other “park lots” that may be affected, that's fine too.

Thanks!

Shannon Hill, Planner

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From: Karl Heisler <KHeisler@esassoc.com>
Sent: Thursday, January 23, 2020 10:42 AM
To: Keyon, David <david.keyon@sanjoseca.gov>; Hill, Shannon <Shannon.Hill@sanjoseca.gov>
Cc: Pete Choi <PChoi@esassoc.com>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Michael Lisenbee <mlisenbee@davidjpowers.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>; Meryka Dirks <MDirks@esassoc.com>
Subject: RE: Downtown West: Shade/Shadow (GIS Data for Parks)

[External Email]

Regarding the Park Lots, most of them appear to include green space or, in some cases, a publicly accessible use like the SJ Center for the Performing Arts that has green space surrounding it. In the project vicinity, this includes Los Gatos Creek (Valley Water property), the green space between the VTA tracks and West San Fernando Street, green space along the eastern side of Autumn Parkway, and City-owned land that serves as northerly and easterly extensions of Cahill Park. (There are also some odd things, like a parcel at 292 Stockton Avenue (SE corner at West Julian) where a Courtyard/Residence Inn (Marriott) Hotel is proposed (approved?) on a formerly City-owned parcel.

My recommendation, unless you think otherwise, is that we be conservative and **include** the “Park Lots,” but show them in a different color green than the six major open spaces. We can discuss any shadow on these “Park Lots” qualitatively. (There is no need to differential Guadalupe River Park & Gardens from the other five major open spaces; I did that simply for emphasis in my figure.)

Thanks.

Karl F. Heisler

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From: Keyon, David <david.keyon@sanjoseca.gov>
Sent: Thursday, January 23, 2020 10:00 AM
To: Karl Heisler <KHeisler@esassoc.com>; Hill, Shannon <Shannon.Hill@sanjoseca.gov>
Cc: Pete Choi <PChoi@esassoc.com>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Michael Lisenbee <mlisenbee@davidjpowers.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>; Meryka Dirks <MDirks@esassoc.com>
Subject: RE: Downtown West: Shade/Shadow (GIS Data for Parks)

Oh, sorry, to follow up McEnergy Park is at the location shown on San Fernando (by the Adobe buildings).

We will check with PRNS to clarify what “park lots” references.

Thanks,

David Keyon

City of San Jose PBCE
Principal Planner Environmental Review
(408) 535-7898

From: Karl Heisler <KHeisler@esassoc.com>
Sent: Thursday, January 23, 2020 9:59 AM
To: Hill, Shannon <Shannon.Hill@sanjoseca.gov>
Cc: Pete Choi <PChoi@esassoc.com>; Keyon, David <david.keyon@sanjoseca.gov>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Michael Lisenbee <mlisenbee@davidjpowers.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>; Meryka Dirks <MDirks@esassoc.com>
Subject: RE: Downtown West: Shade/Shadow (GIS Data for Parks)

[External Email]

Sorry ... in my haste I did not finish my last question. Revision in red.

Karl F. Heisler

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From: Karl Heisler

Sent: Thursday, January 23, 2020 9:14 AM

To: Hill, Shannon <Shannon.Hill@sanjoseca.gov>

Cc: Pete Choi <PChoi@esassoc.com>; Keyon, David <david.keyon@sanjoseca.gov>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Michael Lisenbee <mlisenbee@davidjpowers.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>

Subject: RE: Downtown West: Shade/Shadow (GIS Data for Parks)

Shannon: Attached is a brief work scope for the shadow analysis, along with an excerpt from the GIS shapefile showing the parks to be analyzed. Would you please review and confirm this is acceptable, or make revisions as needed?

Also, I see that McEnergy Park is not shown as parkland on the GIS file. Would you please confirm that McEnergy Park occupies APN 259-44-082 (shown on the GIS file as Redevelopment Agency property)?

Finally, there is a layer in the shapefile called "Park Lots," which are shown in pale yellow on the attached map. These "Park Lots" appear to be mostly City-owned properties (including Redevelopment Agency), as well as some school district sites and even some owned by utilities/railroads. However, with the possible exception of McEnergy Park (see above), I don't believe these are open spaces that should be included in the shadow analysis. Would you please confirm?

Thank you.

Karl F. Heisler

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From: Hill, Shannon <Shannon.Hill@sanjoseca.gov>

Sent: Wednesday, January 22, 2020 3:50 PM

To: Karl Heisler <KHeisler@esassoc.com>

Cc: Pete Choi <PChoi@esassoc.com>; Keyon, David <david.keyon@sanjoseca.gov>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Michael Lisenbee <mlisenbee@davidjpowers.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>

Subject: RE: Downtown West: Shade/Shadow (GIS Data for Parks)

Hi Karl,

A zip file of the GIS data for parks is attached.

Thanks!

Shannon Hill, Planner

Planning, Building & Code Enforcement | Environmental Review Section
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From: Karl Heisler <KHeisler@esassoc.com>

Sent: Friday, January 17, 2020 10:42 AM

To: Hill, Shannon <Shannon.Hill@sanjoseca.gov>

Cc: Keyon, David <david.keyon@sanjoseca.gov>; Pete Choi <PChoi@esassoc.com>; Keyon, David <david.keyon@sanjoseca.gov>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Michael Lisenbee <mlisenbee@davidjpowers.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>
Subject: RE: Downtown West: Shade/Shadow

[External Email]

Thank you, Shannon.

Regarding the GIS layers, I don't see a way to download the data. Public Works has a number of GIS layers available [here](#), but parks are not among them. There is a parks map in GIS ([here](#)), but I do not see a link to the data itself. Perhaps I am looking in the wrong place? Could you possibly direct us to a link (or simply provide access to the GIS files)?

Thank you.

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From: Hill, Shannon <Shannon.Hill@sanjoseca.gov>
Sent: Friday, January 17, 2020 10:16 AM
To: Karl Heisler <KHeisler@esassoc.com>
Cc: Keyon, David <david.keyon@sanjoseca.gov>; Pete Choi <PChoi@esassoc.com>; Keyon, David <david.keyon@sanjoseca.gov>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Michael Lisenbee <mlisenbee@davidjpowers.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>
Subject: RE: Downtown West: Shade/Shadow

Good morning Karl,

Here are the responses to your remaining questions from our meeting on Thursday:

1. The parks GIS layers available online are the most current and are the layers that should be used for park boundaries for the shade/shadow analysis. My understanding is that you already have these files, but let me know if you need additional assistance.
2. Arena Green is part of the Guadalupe River Park system (confirmed by Zach Mendez).
3. As discussed over the phone, the total parkland/open space to be considered for the EIR is 16 acres. The outstanding questions is how much of the parkland will be dedicated parkland, so it remains in perpetuity.

Thank you,

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From: Karl Heisler <KHeisler@esassoc.com>
Sent: Monday, January 13, 2020 6:36 PM
To: Hill, Shannon <Shannon.Hill@sanjoseca.gov>
Cc: Keyon, David <david.keyon@sanjoseca.gov>; Pete Choi <PChoi@esassoc.com>; Keyon, David <david.keyon@sanjoseca.gov>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Michael Lisenbee <mlisenbee@davidjpowers.com>; Elliott Schwimmer <ESchwimmer@esassoc.com>

Subject: RE: Downtown West: Response to RFIs

[External Email]

Shannon: With respect to shadow, we reviewed the 2017 Museum Place SEIR and also took a closer look at both the 2018 and 2005 Downtown Strategy EIRs. We also reviewed the 2004 EIR and the 2016 Addendum for the Delmas Avenue Mixed-Use (Trammel Crow Company) project. All of these EIRs identified shading as a significant CEQA impact. And both the Museum Place SEIR and the Trammel Crow found the shadow impact to be significant and unavoidable, with respect to Plaza de Cesar Chavez (Museum Place) and the Guadalupe River Trail and Arena Green (TCC). (The TCC EIR and Addendum analyzed shadow under Aesthetics (visual character), while the Downtown Strategy 2000 EIR (from 2005) included a separate section on Shade and Shadow. The Downtown Strategy 2040 EIR and the Museum Place SEIR analyzed shadow under Land Use.)

Both Downtown Strategy EIRs found that shadow impacts would be mitigated to a less-than-significant level through measures (called “mitigation measures” in the 2005 document and “measures included in the project” in the 2018 document) requiring project-specific shadow analysis that “must demonstrate that the proposed development would not result in a 10 percent or greater increase in the shadow cast onto the open space area.”

The most definitive threshold of significance in any of the above EIRs was in the 2004 TCC EIR:

- The project would have a significant impact if it would “substantially shadow public open space, other than street and sidewalk, which in this case equates to causing a 10 percent increase in the shadow effects to the Guadalupe River Park and Arena Green during the fall, spring, and winter months between the hours of 11 AM and 2 PM.” Accordingly, the EIR presented shadow graphics for the winter solstice (Dec. 21) and the spring/fall equinoxes (Mar/Sep 21) at 11 a.m., 12 noon, 1 p.m., and 2 p.m., for both a maximum building envelope and an illustrative site plan. The EIR also tabulated shadow for both dates (winter table below).

The 2004 TCC EIR justified its choice of hours analyzed thusly, “These hours are considered most important, because it is when most pedestrians, including both workers and residents, are likely to eat lunch, run errands, and/or stroll through the open spaces.”

The Museum Place and 2005 Downtown Strategy EIR also included a second significance threshold: “Substantially shadow other public open space (beyond the six major open space areas) but excluding streets and sidewalks or private open space between September and March.”

| Hour | Maximum Building Envelope Shadow (in square feet) | Percentage of Park* | Conceptual Site Plan Shadow (in square feet) | Percentage of Park* |
|-----------------------------|------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------|--------------------------------|
| 11:00 AM | 60,945 | 12.11% | 34,400 | 6.84% |
| 12:00 PM | 57,000 | 11.33% | 31,570 | 6.27% |
| 1:00 PM | 88,110 | 17.51% | 59,010 | 11.73% |
| 2:00 PM | 98,270 | 19.53% | 76,660 | 15.24% |
| Average Increase | 76,081 | 15.10% | 50,410 | 10.00% |

***Note:** The portion of Guadalupe River Park and Arena Green evaluated for the shadow impact totals 503,140 square feet (sf).

The 2016 TCC Addendum identified the same significant unavoidable shadow impact with the same 11 a.m. to 2 p.m. analysis times but included no graphics.

The Downtown Strategy 2000 EIR analyzed shadow at, and provided graphics for, 10 a.m., 12 noon, and 2 p.m., on the winter and summer solstices and on the spring/fall equinoxes. The Downtown Strategy 2018 EIR appears to have simply done a qualitative analysis; it had no graphics.

The Museum Place SEIR analyzed shadow at, and provided graphics for, 9 a.m., 12 noon, and 3 p.m.

For discussion, I have attached a *very rough* shadow fan diagram that shows the approximately maximum extent of year-round project shadow *without accounting for shadow from existing buildings* at the following times:

December 21 (winter solstice) from 9 a.m. to 3 p.m.

March/September 21 (spring/fall equinoxes) from 9 a.m. to 5 p.m.

June 21 (summer solstice) from 9 a.m. to 6 p.m.¹

Virtually all of the shadow indicated by the gray shading represents the winter solstice, when shadows are longest. Even later shadows on the summer solstice and the two equinoxes is quite a bit shorter than the December extremes. The only exception is that McEnery Park (one of the six major parks analyzed in the Downtown Strategy EIRs) is shaded (by buildings on the TCC site) in the late afternoon in spring and summer. If we were to cut off the analysis at 2 p.m. or even 3 p.m. year-round, consistent with the other EIRs, McEnery Park would not be shaded by the project. However, there would still be morning and mid-day shadow on Arena Green and midday shadow on the Guadalupe River Trail. Also, Cahill Park (not one of the six major parks) would still be shaded at 9 a.m. in late fall and early winter, but likely not at 10 a.m. Note that the 2005 Downtown Strategy EIR included, in addition to the six major parks, analysis of shadow on "Confluence Point" where Los Gatos Creek joins the Guadalupe River, which was then undeveloped open space. This is now part of Arena Green, so perhaps Arena Green should be included in the analysis?

Please advise whether the shadow analysis should be a CEQA impact and, if so, which significance criteria we should use whether we should include Arena Green in the CEQA analysis.

In terms of the hours of analysis, as noted above, previous EIRs have used 9 a.m. to 3 p.m., 10 a.m. to 2 p.m., and 11 a.m. to 2 p.m. It is probably reasonable to limit the analysis to midday hours (11 a.m. to 2 p.m.) on the basis that Downtown parks are mostly used by nearby workers, as opposed to parks in residential neighborhoods, which may more commonly be used in the late afternoon.

Thank you.

¹ We used these times in a recent EIR shadow analysis in Oakland. Oakland's typical analysis times are 9:00 a.m., 12 noon, and 3 p.m., and we added an extra, later hour (except in winter) to more fully capture effects, given the people often use parks in the afternoon. For the spring and fall equinoxes, we chose 5:00 p.m. PDT because it is about one hour before sunset. For the summer solstice, shadows are roughly comparable in length at 6:00 p.m. PDT as those at 5:00 p.m. on the spring/fall equinoxes (even though sunset is not until about 8:30 p.m.). We did not add a later hour in winter because the sun is already quite a bit lower at 3:00 p.m. PST in December than at 5:00 on the equinoxes or 6:00 on the summer solstice, and it sets before 5:00 p.m.

Karl F. Heisler

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From: Hill, Shannon <Shannon.Hill@sanjoseca.gov>

Sent: Thursday, January 9, 2020 6:07 PM

To: Pete Choi <PChoi@esassoc.com>; Keyon, David <david.keyon@sanjoseca.gov>; Hillary Gitelman <HGitelman@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Michael Lisenbee <mlisenbee@davidjpowers.com>; Karl Heisler <KHeisler@esassoc.com>; Elliott Schwimmer

<ESchwimmer@esassoc.com>

Cc: Keyon, David <david.keyon@sanjoseca.gov>

Subject: Downtown West: Response to RFIs

Hi All,

Sorry for the delay in getting this information to you. We have had a few legislative deadlines to meet this week. Here is a list of your outstanding requests, and the City's responses. I need to run out to catch the bus, but I'll provide the highlighted responses tomorrow:

1. **City to review Land Use Section of ADEIR-1 and identified if additional policies should be highlighted in section.** *Will provide tomorrow.*
2. **City direction on cumulative impact significance for Population and Housing.** *Will provide tomorrow.*
3. **City to provide direction related to identification of compliance with City process as a mitigation measure.**
Discussed this with public works (PW), and it's acceptable to provide a mitigation measure to comply with LOS policies. Compliance with the policies will be confirmed during building permit review. However, in support of this, PW is expecting a description of existing and proposed infrastructure and connections to the system in the EIR.

Related to this, I had the following question that we didn't receive a response to: Is there any analysis planned to determine impacts to existing LOS downstream of the project?

4. **Shadow confirmation (placement and methodology)**
Analysis should be provided in the Land Use section under non-CEQA affects. However, it needs to be provided for compliance with General Plan policies. The shade/shadow analysis need only include the parks covered in the [Downtown Strategy 2040 EIR](#). Other parks potentially affected by the project can be discussed briefly at qualitative level.

*Following is an excerpt from the Land Use and Planning section (section 3.11): "The City identifies significant shade and shadow impacts as occurring when a building or other structure located in the Downtown area substantially reduces natural sunlight on **six major public open spaces (St. James Park, Plaza of Palms, Plaza de Cesar Chavez, Paseo de San Antonio, Guadalupe River Park and McEnery Park)**, measured on winter solstice when the sun is lowest in the sky (December 21st); the spring equinox, when day and night are approximately equal in length (March 21st); and the summer solstice when the sun is at its highest point in the sky (June 21st)."*

Refer to the [draft SEIR for Museum Place](#) for the level of detail. An SEIR was required to add the shade/shadow analysis, so this is a good reference.

5. **Cumulative list confirmation.**
No need to include projects in addition to projects added shortly after the NOP was circulated.

Thank you,

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TABLE 19
SHADE/SHADOW ANALYSIS OF LAND USE PLAN MAXIMUM BUILDING
ENVELOPE & CONCEPTUAL SITE PLAN ON GUADALUPE RIVER PARK &
ARENA GREEN
WINTER SOLSTICE (DECEMBER 21)

| Hour | Maximum Building Envelope Shadow (in square feet) | Percentage of Park* | Conceptual Site Plan Shadow (in square feet) | Percentage of Park* |
|-------------------------|----------------------------------------------------------|----------------------------|-----------------------------------------------------|----------------------------|
| 11:00 AM | 60,945 | 12.11% | 34,400 | 6.84% |
| 12:00 PM | 57,000 | 11.33% | 31,570 | 6.27% |
| 1:00 PM | 88,110 | 17.51% | 59,010 | 11.73% |
| 2:00 PM | 98,270 | 19.53% | 76,660 | 15.24% |
| Average Increase | 76,081 | 15.10% | 50,410 | 10.00% |

***Note:** The portion of Guadalupe River Park and Arena Green evaluated for the shadow impact totals 503,140 square feet (sf).