

GENERAL USE PERMIT 2000

# ANNUAL REPORT N<sup>o</sup>. 19



COUNTY OF SANTA CLARA  
PLANNING OFFICE

*July 2020*

<b>Prologue</b>	<b>P-1</b>
<b>Section I: Introduction</b>	<b>1</b>
Glossary of Terms	4
<b>Section II: Development Overview</b>	<b>6</b>
GUP Building Area Cap	6
Other Space Caps	9
Housing	10
Parking	13
<b>Section III: Overview of monitoring During Nineteenth Year</b>	<b>16</b>
GUP Condition A: Building Area	16
GUP Condition B: Framework	166
GUP Condition C: Monitoring, Reporting, and Implementation	166
GUP Condition D: Permitting and Environmental Review	17
GUP Condition E: Academic Building Area Review	17
GUP Condition F: Housing	17
GUP Condition G: Transportation	18
GUP Condition H: Parking	19
GUP Condition I: Parks and Recreation Facilities	19
GUP Condition J: California Tiger Salamander	20
GUP Condition K: Biological Resources	20
GUP Condition L: Visual Resources	20
GUP Condition M: Hazardous Materials	20
GUP Condition N: Geology and Hydrology	20
GUP Condition O: Cultural Resources	20
GUP Condition P: Utilities and Public Services	21
GUP Condition Q: Air Quality	21
GUP Condition R: Noise	21
GUP Condition S: Additional GUP Conditions	21
<b>Section IV: Project Summaries</b>	<b>22</b>
File No. 11424: Stock Farm Greenhouses	23
File No. 11230, 11231 & 11256: District Work Centers	24
<b>Section V: Anticipated Future Development</b>	<b>29</b>

# Annual Report 19

<b>Section VI: Other Information</b>	31
References	31
County of Santa Clara Annual Report Project Managers	31
Stanford University Data Providers	31

## Tables

TABLE 1 Annual Report 19 Distribution of GUP-Allowed Academic and Academic Support Development	7
TABLE 2 Annual Report 19 Other Space Caps - Project Summary	10
TABLE 3 Annual Report 19 Distribution of Residential Development	122
TABLE 4 Annual Report 19 Distribution of Parking	144
TABLE 5 Annual Report 19 Development Projects Receiving ASA or Other Approval	25
TABLE 6 Anticipated Projects for Annual Report 20	30

## Figures

Figure 1: Regional Location	1
Figure 2: Cumulative Development Activity 12/12/00 - 8/31/19	8
Figure 3: Distribution of Academic Development	9
Figure 4: Distribution of Residential Development	11
Figure 5: Distribution of Parking Spaces	13
Figure 6: Location of Major Annual Report 19 Projects	22
Figure 7: Location of Anticipated Projects	29

## Appendices

Appendix A	General Orientation Maps of Stanford Lands and Campus
Appendix B	GUP Conditions and Compliance Activities
Appendix C	Cumulative Projects
Appendix D	Summary Report of Traffic Monitoring
Appendix E	Sustainability at Stanford Annual Report
Appendix F	Stanford Alternate Means Programs

The Stanford University, General Use Permit (GUP) 2000 Nineteenth Annual Report (AR 19) provides public documentation that summarizes development at Stanford University and required environmental mitigation activity within the unincorporated Santa Clara County, for the monitoring period from September 1, 2018, through August 31, 2019. This report documents both new projects approved during the reporting period and the status of ongoing projects. Section I provides an introduction and context to the AR19. Information on project status and a summary of development through the AR 19 reporting period is provided in Section II. Section III provides a summary of GUP compliance. Details and illustrations of projects that received Architecture and Site Approval (ASA) during this reporting period are provided in Section IV. Section V describes anticipated development, Section VI provides information on other significant information in the reporting period, and Section VII provides information on references and the project team.

Appendices A, B, C, D, E, and F contain information on campus maps, GUP conditions and additional compliance details, summaries of cumulative development on campus, traffic monitoring results, sustainable activities initiated and ongoing by Stanford University and a summary of Stanford's approved Alternate Means Programs, respectively.

The production team for this annual report endeavored to make this report user friendly. If you have comments or questions about the format, you may forward your comments to the County of Santa Clara Planning Office. For the 19th annual reporting period Kavitha Kumar and Charu Ahluwalia were the project managers for the County of Santa Clara Planning Office, for the Stanford University environmental mitigation monitoring and reporting program.

Specific questions regarding this report or the Stanford Community Plan, General Use Permit or the Environmental Impact Report may be directed to: Charu Ahluwalia, Associate Planner (email: [charu.ahluwalia@pln.sccgov.org](mailto:charu.ahluwalia@pln.sccgov.org)).



Stanford University owns 8,180 acres of land, including 4,017 acres within unincorporated Santa Clara County that are subject to the land use jurisdiction and regulatory authority of the County. Please see Map 1 in Appendix A, which shows governmental jurisdiction on Stanford lands. Stanford University is a private institution and is subject to local zoning controls and project approval procedures. Stanford University land in Santa Clara County includes the academic campus, residential areas, and most of the foothills east of Alpine Road.



**FIGURE 1: REGIONAL LOCATION**

County of Santa Clara guides future use of these lands through (1) the General Plan, (2) the Stanford Community Plan (CP), (3) County Zoning Ordinance, (4) other County ordinances and policies, and (5) the 2000 General Use Permit (GUP).

In November 1999, Stanford University submitted a Draft CP/GUP Application to County of Santa Clara. As a result of an extensive public review process, significant changes were made in the proposed CP/GUP. Santa Clara County, the lead agency under the California Environmental Quality Act (CEQA), prepared a Program

Environmental Impact Report (EIR) to disclose the significant environmental effects of development pursuant to the CP/GUP. In December 2000, the County Board of Supervisors certified the EIR and approved the Final CP/GUP (2000 GUP).

The 2000 GUP replaced the 1989 GUP. It is the permit under which Stanford continues its academic and support uses, and authorizes the University to develop the following facilities:

- Academic and academic support facilities (an additional 2,035,000 net square feet (sq. ft.) plus the square footage remaining under the 1989 GUP)
- Childcare or community centers (an additional 40,000 sq. ft.)
- Temporary trailers and surge space (up to 50,000 sq. ft.)
- Parking structures and lots (2,300 net new parking spaces)
- Housing (3,018 housing units, increased to 4,468 housing units in 2016)

The Board approval of the 2000 GUP and the EIR resulted in mitigation measures. The EIR identified mitigation measures, which were formally adopted in the Mitigation Monitoring and Reporting Program (MMRP).

GUP Condition D.2 requires Stanford to implement the identified MMRP mitigation requirements as follows:

“If at any time the County Planning Commission determines that Stanford is not in compliance with one or more conditions of the General Use Permit, it may take corrective action as provided in the County Ordinance Code including, but not limited to, suspension of any future development approvals until such time as the conditions are met. Failure of Stanford to comply with aspects of the Mitigation Monitoring and Reporting Program adopted for the GUP or any specific projects approved under the GUP for which Stanford is responsible shall also constitute a violation of these GUP conditions for which corrective action may be taken as described above.”

This Nineteenth Annual Report (AR 19) documents Stanford’s development activity and compliance with both the conditions of the 2000 GUP and any specific conditions associated with proposed building projects. It covers the period from September 1, 2018, to August 31, 2019. Activities or projects that occurred after August 31, 2019, are beyond the scope of this Annual Report, but will be

presented in the next Annual Report that will cover activities between September 1, 2019, and August 31, 2020.

This report is organized into seven primary sections and six appendices:

- I. Introduction** - presents the background and overall requirements of the 2000 GUP, the reporting period and organization of the Annual Report, and provides a glossary of terms used in this report.
- II. Development Overview** - presents major statistics on certain 2000 GUP provisions, including the academic building area cap, the distribution of development, development projects that do not count toward the building area cap, housing, and parking.
- III. Overview of Monitoring During Nineteenth Year** - summarizes Stanford's activities and status of compliance with 2000 GUP conditions.
- IV. Project Summaries** - provides summaries of major Stanford projects that received Architectural and Site Approval (ASA) within this Annual Report's reporting period.
- V. Anticipated Future Development** - lists projects anticipated for submittal/approval during the next Annual Report period. Includes a map showing proposed locations.
- VI. Other Information** - presents references for the information used in this Annual Report and the persons involved in its preparation.

**Appendix A** - provides maps to illustrate the general orientation of Stanford University lands and campus.

**Appendix B** - presents the complete list of 2000 GUP conditions and associated activities in the reporting period.

**Appendix C** - provides cumulative tables and location maps for building projects, housing projects, parking projects, and grading projects.

**Appendix D** - provides a summary of the result of traffic monitoring at the Stanford University campus between 2001 and 2019.

**Appendix E** – presents the Stanford Sustainability Annual Report.

**Appendix F** – provides a summary of Stanford's approved Alternate Means Programs.

## Glossary of Terms

The following terms and acronyms are used in this Annual Report:

<b>AR</b>	<b>Annual Report:</b> “AR 19” refers to Stanford's 19th annual report on development and compliance with GUP conditions.
<b>ASA</b>	<b>Architectural and Site Approval:</b> A procedure established by the County of Santa Clara Zoning Ordinance to review the quality of site and architectural design associated with a proposed project. ASA may establish conditions of approval that change and improve development design.
<b>ASX</b>	<b>Small Project Exemption from ASA:</b> Projects that are below a certain threshold due to their minimal impact are exempt from the full ASA process and public hearing. ASX is a discretionary staff approval process. ASX may establish conditions of approval that change and improve development design.
<b>CEQA</b>	<b>California Environmental Quality Act:</b> The overarching California law under which environmental reviews are conducted.
<b>CP</b>	<b>Stanford Community Plan:</b> Plan that refines the policies of the County of Santa Clara’s 1995 General Plan as they apply to Stanford lands under County jurisdiction.
<b>DAPER</b>	<b>Stanford’s Department of Athletics, Physical Education and Recreation</b> supports student athletes, and the university’s physical education, recreation, and wellness initiatives.
<b>EIR</b>	<b>Environmental Impact Report:</b> Documents the result of environmental analyses conducted under CEQA.
<b>GUP</b>	<b>2000 General Use Permit:</b> Permit issued to Stanford by the County of Santa Clara, which describes the allowable distribution of additional building area, and establishes procedures under which construction may occur and associated measures that must be accomplished before, during and after construction as conditions of approval for development.
<b>NPS</b>	<b>Non-point source:</b> Refers to pollution of runoff by diffuse sources, such as vehicle traffic on parking lots or streets.
<b>NSF</b>	<b>Net square feet:</b> Total “net” or overall change in square footage. This category designates a total amount of positive or negative square footage for a project, based on



square footage of total construction (“gross square footage”) less any credits for demolition.

### SDS

**Sustainable Development Study:** A Study required under GUP Condition E.5 that was submitted by Stanford and approved by the Board of Supervisors in 2009.

### GUP Building Area Cap

The 2000 GUP (GUP Condition A.1.b) establishes a 2,035,000-net-square-foot building area cap for new academic and academic support uses. The limit applies to most nonresidential development that Stanford proposes to build during the time that this GUP is in effect. Because the exact amount of square footage may change due to design refinements that occur between initial ASA application and subsequent issuance of a building permit, the County requires that the actual square footage deducted from the building area cap be documented at the time a building permit is issued. The cumulative total building area authorized during the reporting period is provided in this annual report for those projects that received building permits between September 1, 2018 and August 31, 2019.

The GUP generally distributes the 2,035,000 sq. ft. of additional academic and academic support facilities among 11 development districts on the Stanford Campus. Map 2 in Appendix A shows the development districts. The majority of 2000 GUP academic building area is allocated to the Campus Center. The allocation of square footage between the development districts can deviate from the GUP's general allocation as long as the GUP procedures are followed (see GUP Condition E.2). For example, during the AR 8 reporting period, the allocation for Campus Center was revised down from 1,600,268 sq.ft. to 1,480,268 sq.ft. to allow for the allocation of 120,000 sq.ft. to the DAPER (Department of Athletics, Physical Education and Recreation) and Administrative district to accommodate the Knight Management Center and future anticipated projects, which is consistent with the 2000 GUP.

Table 1 lists the development districts, the 2000 GUP allocation of building area for each district, and the amount of academic/academic support square footage that received ASA or building permit approval in each district during this reporting period. The academic/academic support projects that do not affect the GUP building area cap are not shown in Table 1. See Section IV, Project Summaries, for additional information on projects that received ASA approval during the AR 19 reporting period.

## II. Development Overview

**TABLE 1**  
**ANNUAL REPORT 19**  
**DISTRIBUTION OF GUP-ALLOWED ACADEMIC**  
**AND ACADEMIC SUPPORT DEVELOPMENT<sup>1</sup>**

Development District	2000 GUP Building Area Distribution (sq.ft.)	GUP Building Area Distribution at the end of AR 19 <sup>1</sup>	ASA Approved Space in AR 19 (sq. ft.)	Building Permit Approved Space in AR 19 <sup>2</sup> (sq. ft.)	Previous ARs Cumulative Building Permit Approvals (sq. ft.)	Cumulative Total Building Permits Approved <sup>3</sup> (sq. ft.)	GUP Balance Remaining (sq. ft.)
Campus Center	1,605,000	1,389,337	4,602	12,298	1,224,504 <sup>5</sup>	1,236,802	152,535
DAPER & Administrative	250,000	375,796	120	120	367,350	367,470	8,326
East Campus	110,000	(27,167) <sup>4</sup>	0	0	(30,064)	(30,064)	2,897
Quarry	50,000	165,000	0	0	153,821	153,821	11,179
Lathrop	20,000	20,000	0	0	0	0	20,000
West Campus	0	17,341	0	0	17,341	17,341	0
Foothills	0	4,732	0	0	3,135	3,135	1,597
Lagunita	0	89,961	0	0	89,961 <sup>5</sup>	89,961	0
Arboretum	0	0	0	0	0	0	0
San Juan	0	0	0	0	0	0	0
<b>Total</b>	<b>2,035,000</b>	<b>2,035,000</b>	<b>4,722</b>	<b>12,418</b>	<b>1,826,048<sup>5</sup></b>	<b>1,838,466</b>	<b>196,534</b>

1. 2000 GUP Conditions E.2, 3, and 4 allow for deviations from the building area cap for each district. Any proposed increase in development in a district will be accompanied by an identified corresponding proposed decrease equivalent in building area in one or more of the other districts so that the overall campus-wide GUP building area cap is not exceeded. A cumulative maximum of 15,000 square feet of building area may be located in the Foothills District in a manner consistent with the General Plan and zoning. This amount may not be increased. Redistribution occurred in AR 8, AR 9, AR 11, AR 13, AR 14, AR 17, and AR 18.
2. Square footage is counted against the GUP building area cap in the reporting year in which the building permits are approved.
3. Cumulative totals include adjusted results from the current and previous annual reports. Also see Appendix C and/or previous annual reports for more detailed background on these cumulative totals.
4. The East Campus District had a net demolition of 27,167 sf from previous Annual Reports. Therefore, when the remaining square footage was transferred to the DAPER District for the Public Safety Building and to the Quarry District for the Center for Academic Medicine in FY 18, the transfer included all remaining allocation as well as the credit from the net demolition. The balance in the District is now zero sf.
5. AR 18 includes a correction to the final square footages of three projects reported in AR 16 and AR 17: The Regional Loading Dock project (AR 16), the Denning House project (AR17), due to minor design changes or revisions in calculation. AR 19 includes a correction to the square footage of the ChEM-H & SNI project reported in AR 17, which was reduced by 6 sf due to a revision in calculation. These revisions are also noted in Appendix C.

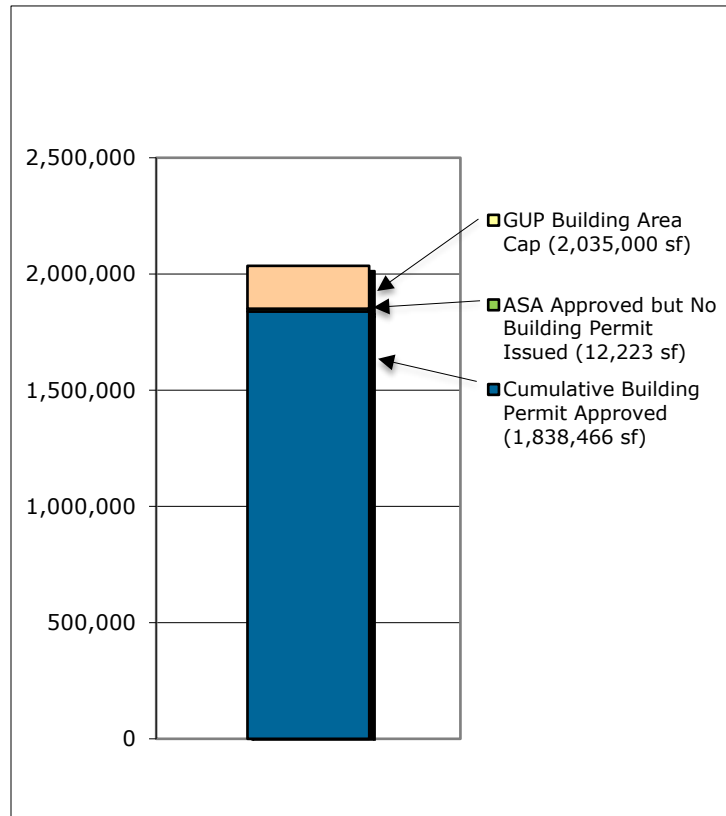
During the AR 19 reporting period, 8 projects received ASA and 1 projects received ASX approval.

Figure 2 illustrates the cumulative status of building-permit-approved square footage for academic/academic support facilities, including the ASA approved square footage counted during the reporting period, as also shown in Table 1. In addition, it illustrates the remaining allowable square footage for development under the 2000 GUP.

## II. Development Overview

**FIGURE 2: CUMULATIVE DEVELOPMENT ACTIVITY 12/12/00 - 8/31/19**

Figure 2 illustrates the cumulative status of development that counts toward the GUP building area cap. The square footage of building permit approvals is cumulative. In contrast, ASA approved square footage is only shown for projects that received ASA and ASX (small project) approval during the current reporting period.



The Stanford Community Plan and GUP Condition E.5 required that a Sustainable Development Study (SDS) be completed and approved prior to acceptance of applications for the second 50% of the academic development allowed under the 2000 GUP. The SDS was presented to the Stanford Community Resource Group (CRG) on November 13, 2008 and to the Planning Commission on November 20, 2008, and was approved by the Board of Supervisors on April 7, 2009. In 2018, the County prepared a Supplement to the Sustainable Development Study. The Supplement augmented the work previously prepared to identify the maximum planned buildout potential of Stanford lands in unincorporated Santa Clara County. The Supplement is available at [https://www.sccgov.org/sites/dpd/DocsForms/Documents/SU\\_SD\\_S\\_Supplement.pdf](https://www.sccgov.org/sites/dpd/DocsForms/Documents/SU_SD_S_Supplement.pdf). See Appendix E for a Summary of Stanford's Sustainability Activities during this reporting period.

Figure 3, below, based on data in Table 1 and Figure 2, illustrates the 2000 GUP distribution of academic/academic support square

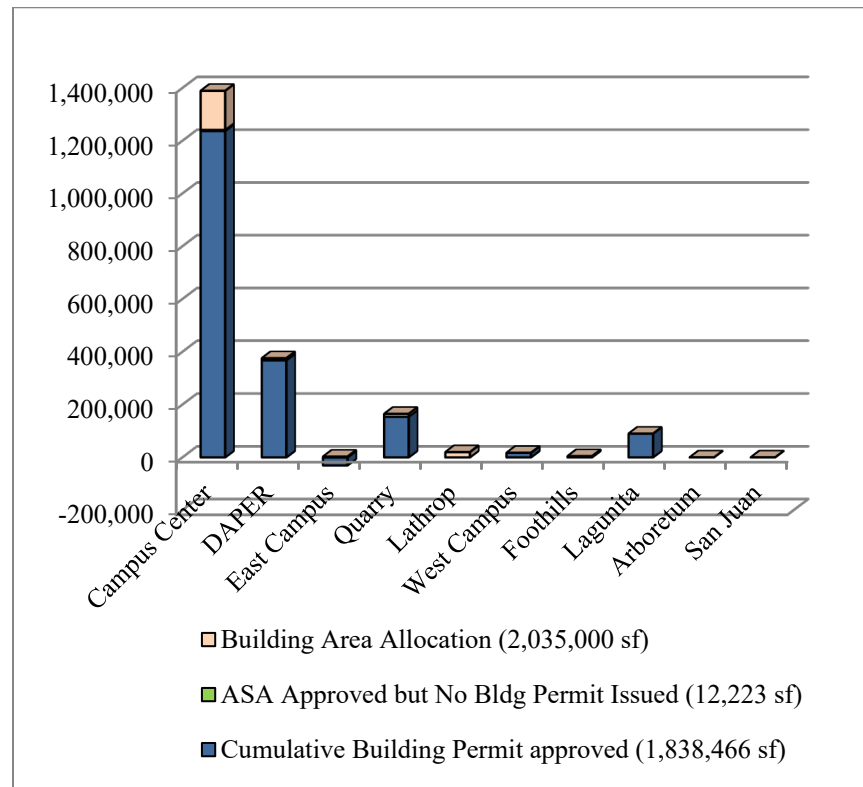


## II. Development Overview

footage throughout the 10 development districts, and the academic/academic support square footage authorized by building permits or received approval by the ASA committee during the current reporting period. Anticipated projects or projects in the approval process for Annual Report 19 reporting period are noted in Section V, Table 6.

**FIGURE 3: DISTRIBUTION OF ACADEMIC DEVELOPMENT**

A map of Stanford University's Development District is provided in Map 2 in Appendix A. The distribution of GUP-allowed academic and academic support development is detailed in Table 1.



### Other Space Caps

#### **Remaining 1989 GUP Approved Square Footage**

In addition to providing a 2,035,000 sq. ft. academic/academic support building area, the 2000 GUP preserved the remaining 92,229 sq.ft. authorized but undeveloped under the 1989 GUP. The remaining 1989 GUP approved square footage was consumed during the Annual Report 5 reporting period.

#### **Temporary Surge Space**

The 2000 GUP (Condition A.2.c) allows Stanford University to install up to 50,000 sq. ft. as surge space during construction. Surge space is typically provided by installing modular buildings for a limited time. During this reporting period, the West Campus Surge Trailers were removed.

## II. Development Overview

**TABLE 2  
ANNUAL REPORT 19  
OTHER SPACE CAPS - PROJECT SUMMARY**

<b>Non-Building Cap Category</b>	<b>Maximum Allowable Square Footage</b>	<b>ASA Approved (sq. ft.)</b>	<b>Building Permit (sq. ft.)</b>	<b>Cumulative Building Permits Approved (sq. ft.) from AR1-AR18</b>	<b>Cumulative Total Building Permits Approved (sq. ft.) from AR1-AR19</b>	<b>Balance Remaining (sq. ft.)</b>
Remaining 1989 GUP Square Footage	92,229	0	0	92,229	92,229	0
Temporary Surge Space	50,000	0	(560)	11,120	10,560	39,440
Childcare/Community Center	40,000	0	0	40,000	40,000	0

### ***Childcare and Community Centers***

The 2000 GUP (Condition A.2.c) allows up to 40,000 sq. ft. of building area for the purpose of new childcare or community centers, in addition to the academic/academic support building area. As indicated in Table 2, a total of 0 sq.ft. remains available.

## **Housing**

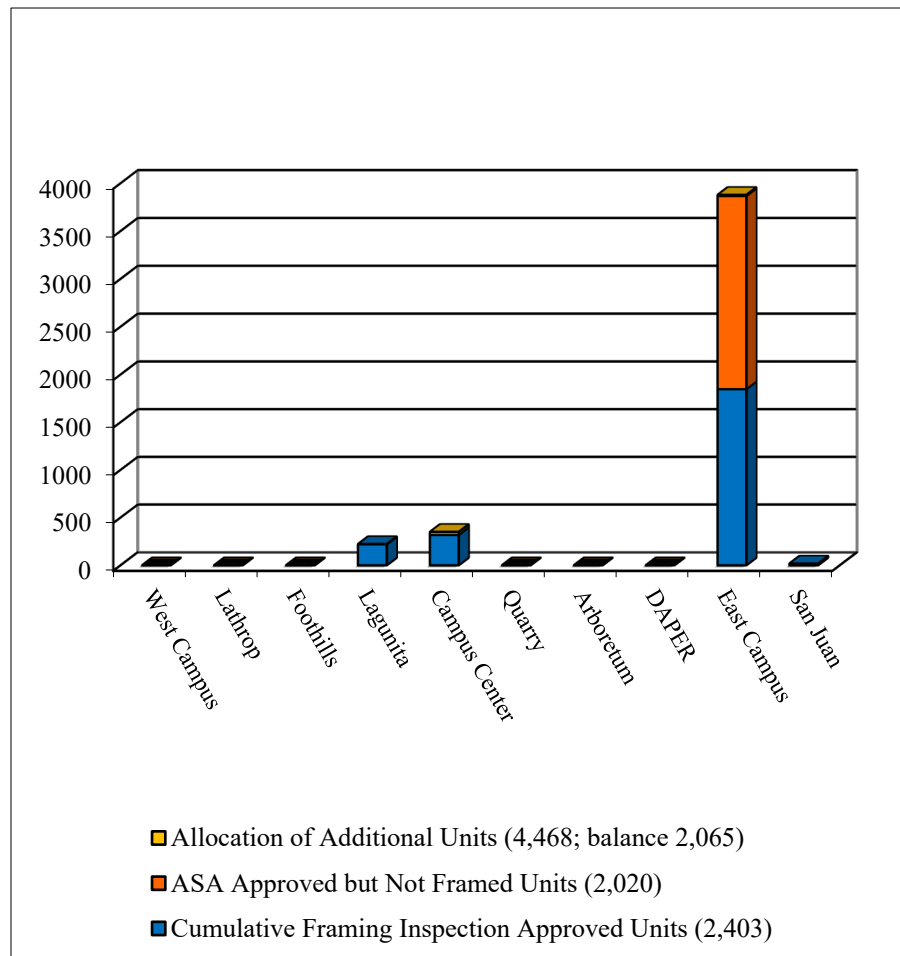
The 2000 GUP allows for the construction of 3,018 net new housing units on campus, with allocations for faculty and staff, graduate and undergraduate students, and postdoctoral and medical students. In FY 16, pursuant to Condition F.7, the Planning Commission approved an additional allocation of 1,450 housing units, for a total allocation of 4,468 housing units, as shown in Table 3. The GUP identified potential housing sites for students, staff and faculty (Map 3, Appendix A). As with academic/academic support building space, the housing units must be distributed among the 10 development districts (see Table 3).

Housing may also be developed on sites other than those shown on Map 3. The estimated distribution of the type and location of housing among development districts may deviate from the locations described in the 2000 GUP pursuant to Conditions F.2, F.3, and F.4. As explained under Condition A (A.1.c, A.1.d, and A.3.b), the square footage of housing units constructed is tracked but does not count toward the 2000 GUP building area cap (see Table C-2, Appendix C).

## II. Development Overview

During the AR 19 reporting period, no net new housing units were removed through remodeling. For purposes of the housing linkage requirement, as provided in GUP Condition F.8, the housing requirement is counted at the time of the framing inspection.

**FIGURE 4: DISTRIBUTION OF RESIDENTIAL DEVELOPMENT**



There is currently a total allocation of 4,468 housing units for the campus. As illustrated in Figure 4, the cumulative total number of approved units under the 2000 GUP allocation, which have completed framing inspection, is 2,403 units. A total of 2,065 housing units remain available under the housing allowance.

## II. Development Overview

**TABLE 3**  
**ANNUAL REPORT 19**  
**DISTRIBUTION OF RESIDENTIAL DEVELOPMENT**

Development District <sup>1</sup>	Allowable 2000 GUP Net Additional Units	ASA Approved Units but Not Yet Framed	Past Cumulative <sup>2</sup>	Final Framing Inspection Approved Units	Cumulative	Unused 2000 GUP Authoriza tion
West Campus	0	0	0	0	0	0
Lathrop	0	0	0	0	0	0
Foothills	0	0	0	0	0	0
Lagunita - Driving Range - Searsville Block - Mayfield/Row	222	0	220	0	220	2
Campus Center	350	0	318	0	318	32
Quarry - Quarry/Arboretum - Quarry/El Camino	0	0	0	0	0	0
Arboretum	0	0	0	0	0	0
DAPER & Administrative	0	0	0	0	0	0
East Campus - Manzanita - Escondido Village - Quillen - GSB Residences	3,878	2,020	1,847	0	1,847	2,031
San Juan - Lower Frenchman's - Gerona - Mayfield	18	0	18	0	18	0
<b>Total</b>	<b>4,468 Allowed<sup>1, 3, 4</sup></b>	<b>2,020</b>	<b>2,403<sup>5</sup></b>	<b>0</b>	<b>2,403</b>	<b>2,065</b>

- Housing may be developed on other sites and development may vary from the estimated distribution with regard to either the type (student, postdoctoral, or faculty/staff) or amount of housing on the site (2000 GUP Conditions F.2, F.3, and F.4). Redistribution was reported in AR 6, AR 13, AR 14, AR 16 and AR 17.
- Cumulative totals include results from previous annual reports. See Appendix C and/or previous annual reports for more detailed background on these cumulative totals.
- A GUP amendment was approved on May 5, 2015 to revise the remaining housing allocations by housing types, to provide flexibility in meeting campus housing needs. All remaining unused housing allowances consisting of 228 faculty/staff beds, 3 graduate student beds, and 350 post-doc/medical resident beds, were approved to be usable for any type of university affiliate housing.
- 1,450 additional housing units were approved on March 24, 2016 pursuant to GUP Condition F.7, in preparation for the Escondido Village Graduate Residences (EVGR) project. At the same time, 566 housing units from various Development Districts were reallocated to the East Campus Development District (194 from Lagunita, 1 from Campus Center, 350 from Quarry, and 21 from San Juan). The ASA for the EVGR project was approved in FY 17.
- The Kingscote Gardens Renovation was approved on March 30, 2016, removing 33 units from the housing inventory for conversion to academic offices.
- In September 2018, the Board of Supervisors adopted an ordinance (Ordinance No. NS-1200.368) for a 16% inclusionary housing requirement applicable to the Stanford Community Plan Area for residential development projects of three or more units. The ordinance became effective on July 1, 2019. There were no housing projects subject to the inclusionary housing requirement during the AR 19 reporting period.



## II. Development Overview

### Parking

The 2000 GUP allows for 2,300 net new parking spaces above the campus base of 19,351 spaces. As explained in Condition A.3.c, the building area of parking structures does not count towards the GUP academic/academic support building area cap. As with academic/academic support building area square footage and housing, the allowed parking spaces have been distributed among the development districts (Table 4 and Figure 5).

**FIGURE 5: DISTRIBUTION OF PARKING SPACES**

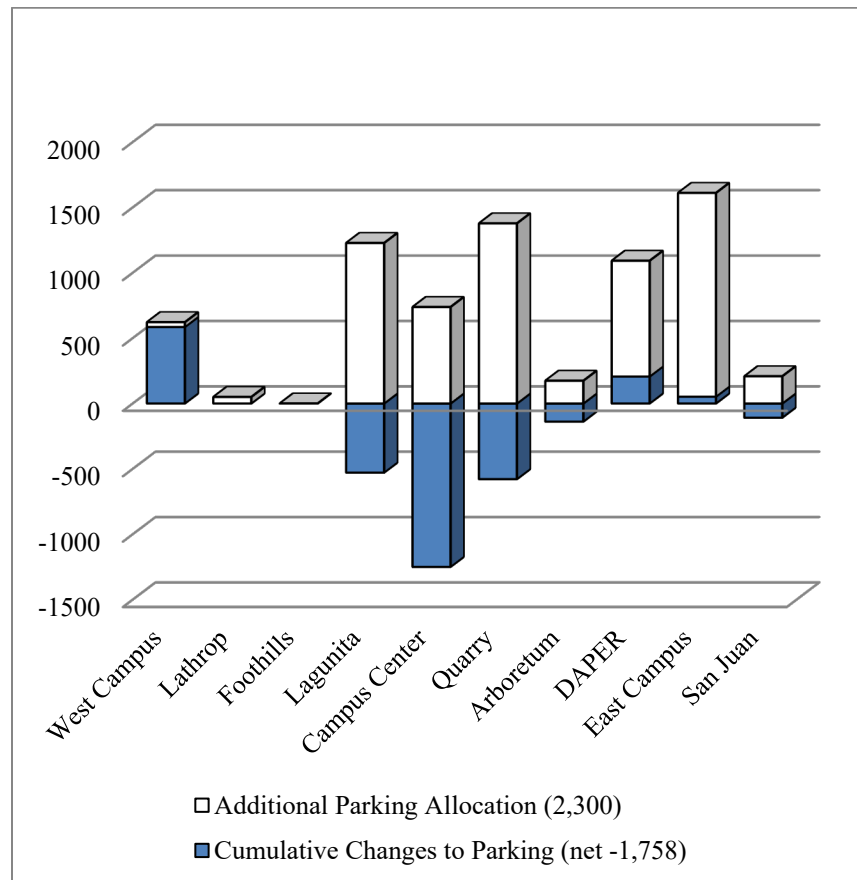


Table 4 presents the changes in parking spaces during the current reporting period, and cumulative increases and decreases in parking spaces on the campus during the AR 1 through AR 19 reporting periods.

During the AR 19 reporting period, there was a net decrease of 29 parking spaces on campus. The cumulative change in the parking inventory is a net decrease of 1,758 parking spaces under the 2000 GUP.

## II. Development Overview

**TABLE 4  
ANNUAL REPORT 19  
DISTRIBUTION OF PARKING**

Development District	Base Parking GUP EIR	2000 GUP Allowed Change in Parking Spaces	Changes to Parking Inventory				Unused 2000 GUP Allocation
			AR 19 Contribution	Previous AR 1-18 Contribution	Cumulative (AR 1 Through Current AR19)	EIR Base and Cumulative (Current Parking Capacity)	
West Campus	191	622	0	585	585	776	37
Lathrop	0	50	0	0	0	0	50
Foothills	0	0	0	0	0	0	0
Lagunita	1,745	700	(1)	(527)	(528)	1,217	1,228
Campus Center	8,743	(511)	(2)	(1247)	(1,249)	7,494	738
Quarry	1,058	800	(1)	(577)	(578)	480	1,378
Arboretum	134	36	0	(138)	(138)	(4)	174
DAPER & Administrative	2,209	1,092	(23)	229	206	2,415	886
East Campus <sup>1</sup>	4,731	1,611	(2)	54	52	4,783	1,559
San Juan	540	100	0	(108)	(108)	432	208
<b>Campus Wide Summary</b>	<b>19,351</b>	<b>2,300<sup>2</sup></b>	<b>(29)<sup>6</sup></b>	<b>(1,729)</b>	<b>(1,758)</b>	<b>17,593</b>	<b>4,058<sup>2</sup></b>

- Parking allocation in East Campus increased from 900 to 1,611 spaces and decreased in Campus Center from 200 to negative 511 with the approval of Parking Structure 6 (Munger).
- According to 2000 GUP Condition H.1, the total net additional parking on campus shall not exceed 2,300 spaces, except for parking provided with any housing that is constructed in excess of 3,018 planned housing units. Also, per GUP Condition H.1, parking constructed as part of and for new faculty/staff housing in areas designated Campus Residential-Low Density and Campus Residential-Medium Density will not count toward the limit for each development district. In order to allow flexibility in the distribution of parking, the GUP also sets an upper limit for new parking in each development district. Some districts will ultimately build less than their GUP allocations. Thus, the sum of unused district allocations is more than the remaining 2000 GUP allocation, which is the campus-wide maximum number of parking spaces that will be built under this GUP.
- Parking allocation for Arboretum increased from zero to 36 spaces and decreased in DAPER from 1,700 to 1,664 when on-street, non-striped parallel parking was converted to striped, angled parking along the west side of the street, and two-way traffic was converted to one-way northbound traffic in association with the Galvez Parking Lot project.
- Parking allocation for West Campus increased from 50 to 622 and decreased in DAPER from 1,664 to 1,092 when 611 new surface parking stalls were added to the Searsville Parking lot and 19 on-street parking spaces were removed in West Campus.
- In FY 16, Stanford conducted a comprehensive quality review of the parking inventory which resulted in the following corrections:
  - 61 spaces were removed from the Quarry District inventory (Lot 1-A and Parking Structure 9 next to Hoover Pavilion) as these are in Palo Alto, but entered into the inventory in AR 14 and AR 15 by mistake;
  - 28 faculty/staff-only spaces in the San Juan District within R1S and R3S zoning were removed from the inventory, consistent with the treatment of parking for the faculty subdivision per GUP Condition H.1; and
  - 108 bus storage and staging spaces were removed from the inventory, including 64 spaces at L-20 for storage of Marguerite shuttles in the Campus Center District; 38 spaces at Oak Road for staging of Marguerite, tour bus, charter bus, and authorized oversize vehicle and equipment in the Campus Center District; and 6 spaces for tour bus staging in the Arboretum District. Bus storage and staging areas are not part of the parking inventory that can be used by commuters, campus residents, or the general public, but rather serve to facilitate a mode of transportation that reduces vehicular trips to and from campus.
- Although FY 19 shows a net reduction in the number of parking spaces, there are several parking projects that will be completed around FY 2020-2021, including the Manzanita Garage and Thoburn Garage which support the Escondido Village Graduate Residences project, and the garage associated with the Center for Academic Medicine, which will use over 2,000 spaces from the allocation.

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### III. Overview of Monitoring During Nineteenth Year

This section provides a summary of activities conducted during the AR 19 reporting period in compliance with 2000 GUP conditions. For a complete discussion of compliance with each 2000 GUP condition, please see Appendix B.

#### **GUP Condition A: Building Area**

---

Section II of this Annual Report provides statistics and distribution of building area by district. It also provides accounting of the 2000 GUP space expenditure for those projects that received building permits during the AR 19 reporting period. Descriptions and illustrations of projects that received ASA and ASX during the AR 19 reporting period are provided in Section IV.

During the AR 19 reporting period, September 1, 2018 through August 31, 2019:

- Stanford did not exceed the GUP building area cap, or the GUP caps for new housing and parking.
- Stanford also remained within the other space caps established under the GUP.

#### **GUP Condition B: Framework**

---

A total of nine projects received ASA approval or ASA Small Project Exemption (ASX) during the AR 19 reporting period. All were determined to be consistent with General Plan land use designations and zoning. Stanford University paid all costs associated with the work conducted by the County Planning Office in relation to the 2000 GUP (staff time, consultant fees, and the direct costs associated with report production and distribution) in a timely manner.

#### **GUP Condition C: Monitoring, Reporting, and Implementation**

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The County Planning Office gathered comprehensive data related to Stanford projects, compiled the information, produced and published the AR 19 pursuant to the 2000 GUP. Stanford University provides funding for all aspects of the Annual Report preparation, and necessary information included in the report.

The Draft AR 19 will be presented to the Community Resource Group on June 4, 2020 and the final report will be presented to the Planning Commission at the July 2020 public hearing.



### III. Overview of Monitoring During Nineteenth Year

#### **GUP Condition D: Permitting and Environmental Review**

---

During the AR 19 reporting period, Stanford received ASA or ASA Small Project Exemption (ASX) for 9 projects. All of these projects were determined to be consistent with the General Plan land use designations and zoning requirements, and found to be adequately analyzed in the CP/GUP EIR. See Section II of this Annual Report for the status of each project.

When violations of codes, ordinances or other requirements occur, they are addressed through appropriate County procedures. During the AR19 reporting period, two Grading violations were filed by the County for unpermitted grading activities, in conflict with GUP condition D.1. All abatement work for these violations has been completed. A third violation was issued by the County involving the Cabrillo-Dolores Subdivision, for unpermitted removal of three oak trees and noncompliance with GUP Condition K.2., relating to preconstruction surveys for nesting raptors and migratory birds. The abatement work for this violation is in progress.

Stanford University remains in general compliance with the GUP and other County requirements.

#### **GUP Condition E: Academic Building Area Review**

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Stanford is in compliance with GUP Condition E.5. See Appendices B and E for more detail. Appendix E is provided electronically at <http://sustainability-year-in-review.stanford.edu/2019/>.

#### **GUP Condition F: Housing**

---

During this reporting period, Stanford did not add or remove housing units, and the Escondido Village Graduate Residences project was under construction. The total number of campus housing units constructed under the 2000 GUP is 2,403.

Currently, Stanford's capacity for providing student-housing units remains equivalent to the capacity identified by Stanford University at the time of initial occupancy. Stanford's housing need is subject to fluctuation during any given year. Accordingly, Stanford University may redistribute the student population among existing housing facilities in any given year, based on current population and programmatic needs. The County will, as needed, reassess housing availability status with appropriate Stanford University staff. If Stanford University should ever apply for a development permit that would change the number of beds available to students, that action and the change in beds would be reported in the Annual Report.

### III. Overview of Monitoring During Nineteenth Year

The 2000 GUP requires Stanford to build additional housing units commensurate with the development of academic/academic support facilities. The threshold at 1,500,000 sq.ft. of academic or academic support area requires a minimum of 1,815 housing units. Stanford University has constructed 2,403 units and is therefore, in compliance with this requirement.

Stanford has complied with the affordable housing requirements under the GUP conditions for net new academic square footage constructed by paying the in-lieu fee for applicable projects prior to occupancy. An Affordable Housing Fee Square Footage Bank (Square Footage Bank) has been maintained by the County since 2000 for demolition or conversion of projects that remove buildings from GUP allocation square footage. Stanford may use the square footage from the Square Footage Bank and is not required to pay the in-lieu fee because the square footage is not treated as net new academic square footage. For this reporting period Stanford chose not to pay in-lieu fee and used the Square Footage Bank for four (4) projects (38,421 sq. ft.). As of August 31, 2019, Stanford has made affordable housing fee payments totaling \$26,167,874.

Five affordable housing projects have been built within the 6 mile, radius from the Stanford Campus boundary and have provided 286 affordable housing units, with 137 units restricted to very low income to extremely low income families. In September 2017, \$14.5 million of the in-lieu fees was used to partially fund the acquisition and rehabilitation of the Buena Vista Mobile Home Park in Palo Alto. In addition, on April 17, 2018, the County Board of Supervisors approved setting aside \$6,000,000 to support the development of a 60- to 100-unit multifamily rental development in Palo Alto for teachers.

#### **GUP Condition G: Transportation**

A baseline traffic count to determine the existing level of commute trips entering the campus during the morning peak commute period and leaving the campus during the evening peak commute period was established in 2001. Data collection during the FY 19 monitoring period involved 6 weeks in Spring 2019 and 2 weeks in Fall 2019 to monitor Stanford's compliance with the "no-net-new commute trip" standard. The Stanford University Traffic Monitoring Report 2019 is available for review at the County and is also available on the County website, (<https://www.sccgov.org/sites/dpd/Programs/Stanford/2000GUP/Pages/Docs.aspx>). Results of annual traffic monitoring are summarized in Appendix D of this document.

The Annual Report normally reports on activity between September 1 and August 31. However, the annual Traffic Monitoring Reporting

### III. Overview of Monitoring During Nineteenth Year

period is the same as the baseline, 6 weeks in the Spring and 2 weeks in the Fall of a calendar year.

The 2019 Monitoring Report concluded that the adjusted morning (AM) inbound count totaled 3,193 vehicles. This number is 246 vehicles below the upper boundary of the 90% confidence interval and 281 vehicles below the one-percent established trigger, and does not represent a significant AM inbound traffic increase (see Appendix D for definitions of 90% confidence level and 1% trigger). The afternoon (PM) outbound count totaled 3,292 vehicles. This number is also 263 vehicles below the upper boundary of the 90% confidence interval and 299 vehicles below the one-percent established trigger. Trip credits submitted by Stanford were not applied as the vehicle counts were below the thresholds in this reporting period. Therefore no additional mitigation is required.

The 2019 traffic monitoring cordon locations used for traffic monitoring are shown on Figure 1 of the Stanford University Traffic Monitoring Report 2019, available on the aforementioned County website link. Data and analysis of these counts, reported in March 2020, are provided in Appendix D of this annual report.

#### **GUP Condition H:     Parking**

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During AR 19 reporting period, all parking projects were in compliance with GUP Condition H. Detailed information may be found in Section II, Table 4 and Appendix B, Appendix C (Map C-3) and Figure 5. As indicated in this Annual Report, several parking projects were implemented. The cumulative change in the parking inventory remains significantly under the cap set for the 2000 GUP, which allowed a total increase campus-wide of 2,300 spaces. With cumulative reductions, the remaining parking capacity that could be installed under the 2000 GUP parking cap is 4,058 spaces.

#### **GUP Condition I:     Parks and Recreation Facilities**

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Construction of C2/Arastradero Trail: Construction and trail improvements were completed and the trail was dedicated in November 2013. The trail links to the Pearson-Arastradero Preserve.

San Mateo County and Stanford did not reach agreement for the San Mateo C1 segment and in February 2012, Stanford paid County of Santa Clara approximately \$10.3 million. In August 2012, the County issued a request for applications for projects that would serve as alternative mitigation measures to address the loss of recreational facilities on the Stanford campus. The County received 15 project applications from six local agencies. The Board

### III. Overview of Monitoring During Nineteenth Year

of Supervisors declared its intent to fund six of the 15 projects, including \$4.5 million to Stanford to construct a perimeter trail along El Camino Real and Stanford Avenue frontages. Stanford subsequently did not accept the grant award for the Stanford Perimeter trail, which was opened to the public in April 2016. The Board also directed County Administration to negotiate projects agreements for the selected projects and submit approval to the Board consistent with the requirements of CEQA.

#### **GUP Condition J: California Tiger Salamander**

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The final Stanford University Habitat Conservation Plan (HCP) and Final Environmental Impact Statement (EIS) were published on November 23, 2012 and the HCP was revised in March 2013. On August 13, 2013, the County Board of Supervisors acknowledged the determination that the approved HCP provides equal habitat value and protection for the California Tiger Salamander (CTS). Therefore, the HCP supersedes all conditions in the GUP that address the CTS, implementing Condition J.9 of the GUP.

#### **GUP Condition K: Biological Resources**

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Eight projects that began construction during the current reporting period required pre-construction surveys for breeding raptors and migratory birds. For more information, see Appendix B, Condition K.2. No special status plant assessments were conducted on campus during this reporting period.

#### **GUP Condition L: Visual Resources**

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Five projects approved during the reporting period included exterior lighting. The ASA conditions of approval required the lighting impacts to be mitigated and limited to the site to be in keeping with the Visual Resources conditions.

#### **GUP Condition M: Hazardous Materials**

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During the AR 19 reporting period, no new buildings will include hazardous materials that are regulated by the California Accidental Release Prevention Law.

#### **GUP Condition N: Geology and Hydrology**

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During the AR 19 reporting period, all projects were in compliance with GUP Condition N. See Appendix B, Condition N for more details.

### III. Overview of Monitoring During Nineteenth Year

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**GUP Condition O: Cultural Resources**

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During the AR 19 reporting period, all projects were in compliance with GUP Condition O. See Appendix B, Condition O for more details.

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**GUP Condition P: Utilities and Public Services**

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During the AR 19 reporting period, all projects were in compliance with GUP Condition P. See Appendix B, Condition P for more detail.

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**GUP Condition Q: Air Quality**

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All approved projects were required to comply with BAAQMD's permitting, control measures and recommendations as appropriate. See Appendix B, Condition Q for more detail.

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**GUP Condition R: Noise**

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Stanford complied with the requirements of the County Noise Ordinance on individual construction projects. Two events per calendar year are allowed by the GUP, and additional fireworks events were allowed under separate permits. Stanford continues to meet the GUP Condition by operating the noise hotline at (650) 724-4900, which is intended to log complaints related to outdoor special events and high impact events on campus. The University reports that three complaints were received during FY 19, regarding event noise, noise due to a temporary roadway condition (metal plate), and noise within an academic building on campus.

See Appendix B, Condition R for more detail.

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**GUP Condition S: Additional GUP Conditions**

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This condition was a requirement for Stanford University to agree to the GUP conditions of approval within 60 days. This condition was fulfilled in Annual Report 1.

## V. Anticipated Future Projects

### Project Summaries

This section presents brief project summaries of all major projects that received ASA approval or exemption and/or a building permit or demolition permit during the reporting period. A list of projects that received approval is presented at the end of this section. Figure 6 shows the locations of the major projects.

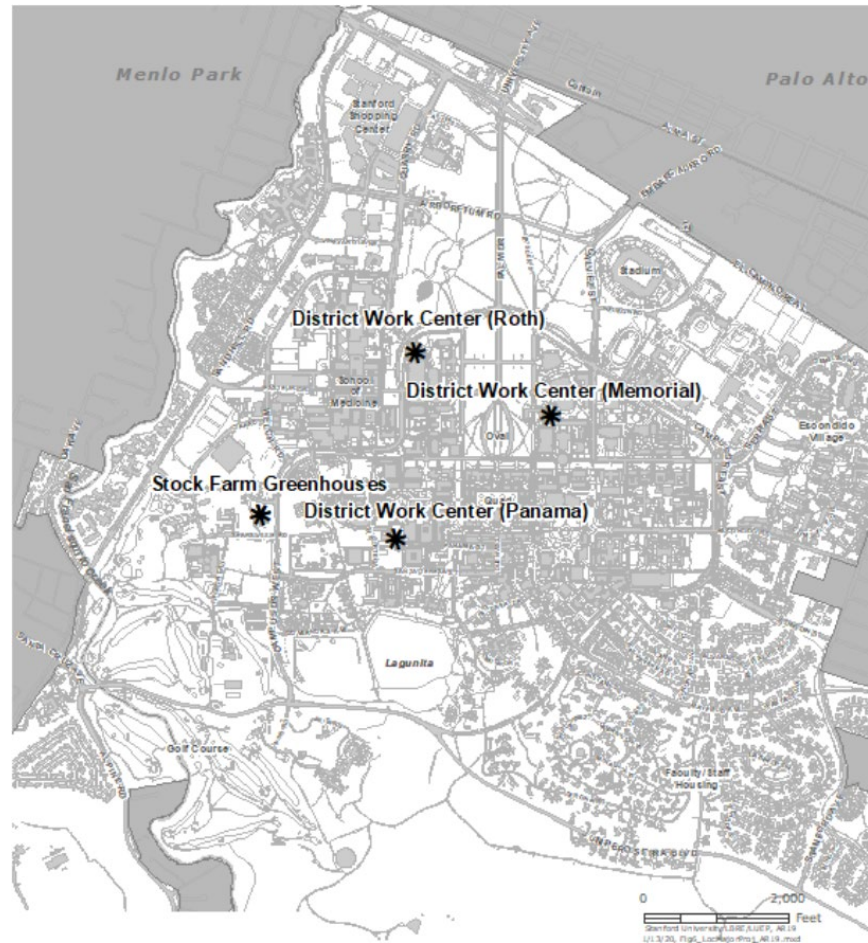


FIGURE 6: LOCATION OF MAJOR ANNUAL REPORT 19 PROJECTS



## V. Anticipated Future Projects

### File No. 11424: Stock Farm Greenhouses

**ASA Application Submitted:** 11/07/18

**ASA Approved:** Approved 04/04/2019

**Status as of 08/31/19:** Under construction; Expected Completed 05/2020

**Project Description:** The proposed project is for the demolition of 7,832 s.f. of academic buildings, including four (4) existing greenhouse structures and a biology plant house. The project also includes the construction of a new 8,352 g.s.f greenhouse structure at the same location, for a net increase of 520 s.f. Proposed grading quantities include 398 c.y. of cut and 406 c.y. of fill.

The proposed project includes construction of greenhouses, tool shop, storage, pot wash areas and restrooms. One new ADA parking space is proposed with this project. No trees are proposed to be removed as part as part of this project.

**Development District:** Campus Center

**Type of Project:** Academic



**Applicable GUP Conditions:** Stanford is in compliance with Mitigation Monitoring and Reporting Program requirements and GUP Conditions for this project. Detailed summaries of project-related conditions are maintained in County project files.

## V. Anticipated Future Projects

### Files No. 11230, 11231 & 11256: District Work Centers (“DWC”) - Panama, Roth and Memorial Sites

**ASA Application Submitted:**

DWCs Panama & Roth Submitted 03/08/2018; DWC Memorial submitted 04/09/2018

**ASA Approved:**

Approved: Panama & Memorial 06/07/18, Roth 05/03/18.

**Status as of 08/31/19:**

Under Construction; Expected Completion 01/2020

**Project Description:**

District Work Centers Panama, Roth and Memorial refer to the construction of three new 3,926 sq.ft. one-story DWCs, and associated site work, on the Stanford Campus. The centers are part of a maintenance delivery model aimed at increasing productivity, improving service efficiency, and reducing travel time and expenses.

DWC Panama is located south of the Engineering Quad off South Service Road. DWC Roth is located north of the Roth Garage off Campus Drive. DWC Memorial is located south of the Frost Amphitheatre on Memorial Way.

**Development District:**

Campus Center

**Type of Project:**

Academic

DWC Panama



DWC Memorial



DWC Roth

**Applicable GUP Conditions:**

Stanford is in compliance with Mitigation Monitoring and Reporting Program requirements and GUP Conditions for this project. Detailed summaries of project-related conditions are maintained in County project files.



## V. Anticipated Future Projects

**TABLE 5  
ANNUAL REPORT 19  
DEVELOPMENT PROJECTS RECEIVING ASA OR OTHER APPROVAL**

PC/ File #	Project Name	Development District	ASA gross sq. ft.	Demolition sq. ft.	Bldg. Permit sq. ft.	Development Status
<b>Projects that affect GUP sq.ft.</b>						
10612	Golf - 10th Tee Improvements	Foothills	142	(199)	142	Completed
3947	Addition to the Ford Center	Campus Center	3,310			Cancelled
10804	Regional Loading Dock Expansion (loading dock and café)	Campus Center	2,366	(20,628)	(18,262)	Under Construction
10784	ChEM-H & SNI	Campus Center	210,953		210,940	Under Construction
10829	Demolition of Herrin Hall	Campus Center		(35,944)		Demolition in progress
10829	Demolition of Herrin Labs	Campus Center		(78,047)		Demolition in progress
59116	Demolition of Laurel	Campus Center		(2,644)		Cancelled
59116	Demolition of Acacia	Campus Center		(2,178)		Cancelled
3497	Academic Advising and Rowing Center	Campus Center	22,622		23,055	Under Construction
10968	Frost Amphitheater renovations	Campus Center	11,210	(638)	10,345	Completed
10976	Environmental Health and Safety Expansion	Campus Center	14,305		14,087	Completed
Building Permit	Encina Commons	Campus Center			(4,121)	Completed
11037	Center for Academic Medicine	Quarry	153,821		153,821	Under Construction
11076	Public Safety	DAPER	27,820	(2,729)	27,196	Awaiting Building Permits
11176	EOC/ECH	DAPER	7,429		Not yet	Planning approval obtained; In Design for Building Permits

## V. Anticipated Future Projects

**TABLE 5  
ANNUAL REPORT 19  
DEVELOPMENT PROJECTS RECEIVING ASA OR OTHER APPROVAL**

PC/ File #	Project Name	Development District	ASA gross sq. ft.	Demolition sq. ft.	Bldg. Permit sq. ft.	Development Status
11231	DWC: Panama site	Campus Center	3,926		3,926	Under Construction
11230	DWC: Roth site	Campus Center	3,926		3,926	Under Construction
11256	DWC: Memorial site	Campus Center	3,926		3,926	Under Construction
11337	Softball Stadium Improvements	DAPER	120		120	Under Construction
11218	Gilbert Greenhouse	Campus Center	714		Not yet	Planning Approval obtained; Project on hold
11424	Stock Farm Greenhouses	Campus Center	8,352	(7,832)	8,352	Under Construction
11443	Chemistry Admin Modular	Campus Center	4,082		Not yet	Awaiting Building Permit
PLN19-0164	George P. Shultz Building	Campus Center	48,643	(48,643)		Application Under Planning Department Review
11042	CCSC Childcare (academic sf portion)	East Campus	16,744	(16,744)	13,847	Completed
PLN14-10228	Stock Farm Childcare (also see "Projects that affect other sq.ft.")	Campus Center	10,560 conversion to academic sf			Application Under Planning Department Review
<b>Projects that affect other sq.ft.</b>						
11042	CCSC Childcare (childcare sf portion)	East Campus	1,920 childcare sf	(768) Childcare sf	4,406 Childcare sf	Completed
Demolition Permit	1215 Welch Rd Modulares (C, D, E) demolition	Campus Center		(4,030)		To be demolished in the future
47844	West Campus Surge Trailers			(560)	560	Installed and subsequently removed
PLN14-10228	Stock Farm Childcare (also see "Projects that affect GUP sq.ft.")	Campus Center		(10,560) removal from temp. surge sf		Application Under Planning Department Review

## V. Anticipated Future Projects

**TABLE 5  
ANNUAL REPORT 19  
DEVELOPMENT PROJECTS RECEIVING ASA OR OTHER APPROVAL**

PC/ File #	Project Name	Development District	ASA gross sq. ft.	Demolition sq. ft.	Bldg. Permit sq. ft.	Development Status
<b>Housing</b>						
10541	Lasuen	San Juan	0		Not yet	Renovation deferred
7165; 10915	Escondido Village Graduate Residences	East Campus	1,824,127 housing sq.ft.	(168,920) housing sq.ft.	1,699,001 housing sq.ft.	Under Construction
11069	Cabrillo-Dolores Faculty Housing	San Juan	23,448 housing sq.ft.	(5,273) housing sq.ft.	21,799 housing sq.ft.	Planning Approval obtained; Abatement work in progress (retroactive Tree Removal Permit issued on May 12, 2020)
DEV10-1599	Hoskins Renovation	East Campus	N/A	N/A	N/A	Application Under Planning Department Review
<b>Site Projects</b>						
8972	Serra Roundabout	DAPER and East Campus	N/A	N/A	N/A	Under Construction
10915	Manzanita Garage	East Campus	N/A	N/A	N/A	Under Construction
7352	Stanford Golf Course Restoration	Foothills	N/A	N/A	N/A	Under Construction
11171	Via Ortega North	Campus Center	N/A	N/A	N/A	Under Completed
11140	Serra Mall at Encina	Campus Center	N/A	N/A	N/A	Completed
11183	Lagunita Diversion Dam Removal and Creek Restoration	Foothills	N/A	N/A	N/A	Completed
11184	Galvez Arboretum Roundabout	Arboretum and DAPER	N/A	N/A	N/A	Completed
11335	Bonair Pampas Road	DAPER	N/A	N/A	N/A	Under Construction
11411	Stadium Turf Subgrade Air System	DAPER	N/A	N/A	N/A	Planning Approval obtained; Awaiting grading permit

## V. Anticipated Future Projects

**TABLE 5  
ANNUAL REPORT 19  
DEVELOPMENT PROJECTS RECEIVING ASA OR OTHER APPROVAL**

PC/ File #	Project Name	Development District	ASA gross sq. ft.	Demolition sq. ft.	Bldg. Permit sq. ft.	Development Status
PLN19-0060	Pampas Laydown	DAPER	N/A	N/A	N/A	Application Under Planning Department Review (Withdrawn 12/2019)
PLN19-0080	Frog Ponds	Foothills	N/A	N/A	N/A	Application Under Planning Department Review
PLN19-0115	Manzanita Turnaround	DAPER/East Campus	N/A	N/A	N/A	Application Under Planning Department Review
PLN14-10228	Stock Farm Childcare Facility	Campus Center	N/A	N/A	N/A	Application Under Planning Department Review
PLN19-061	Crothers Extension	Campus Center/East Campus	N/A	N/A	N/A	Application Under Planning Department Review
11464	Hoover House Exterior	San Juan	N/A	N/A	N/A	Completed
PC #BLD-2018-50003	EHS interior renovation	Campus Center	N/A	N/A	N/A	Completed
PC #BLD-2018-50011	Lathrop Library renovation Room 408	Campus Center	N/A	N/A	N/A	Completed
12008	Arboretum Lasuen Grading Abatement	Arboretum	N/A	N/A	N/A	Completed
11425	Golf Course Grading Abatement	Foothills	N/A	N/A	N/A	Abatement in progress (Completed 10/2019)

## V. Anticipated Future Projects



**FIGURE 7: LOCATION OF ANTICIPATED PROJECTS**

Map ID Project

- |   |                               |
|---|-------------------------------|
| 1 | Stock Farm Childcare Facility |
| 2 | Frog Ponds                    |
| 3 | George P. Shultz Building     |
| 4 | Crothers Extension            |
| 5 | LBRE Building                 |

## V. Anticipated Future Projects

**TABLE 6  
ANTICIPATED PROJECTS FOR ANNUAL REPORT 20**

County File #	Project	Development District	ASA Application Submitted	Anticipated ASA Square Footage	Anticipated Housing	Anticipated Parking
<b>ASA Applications Submitted During FY 19, No Approval as of August 31, 2019</b>						
PLN14-10228	Stock Farm Child Care Facility	Campus Center	07/2019			
PLN19-0080	Frog Ponds	Foothills	04/2019			
PLN19-0164	George P. Shultz Building	Campus Center	08/2019			
PLN19-0061	Crothers Extension	Campus Center/East Campus	03/2019			
<b>ASA Applications Anticipated for AR 20 Reporting Period</b>						
-	LBRE Building	West Campus	04/2020	73,000	-	

### References

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- County of Santa Clara 2000 Stanford Community Plan/General Use Permit Environmental Impact Report. Prepared by Parsons.
- Stanford University Community Plan. Adopted by County of Santa Clara Board of Supervisors December 12, 2000.
- Stanford University General Use Permit. Approved December 12, 2000.

### County of Santa Clara Annual Report Preparers

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- Charu Ahluwalia, Associate Planner [(408) 299-5740/[charu.ahluwalia @pln.sccgov.org](mailto:charu.ahluwalia@pln.sccgov.org)] (Project Manager: Stanford Environmental Mitigation Monitoring and Reporting Program), County of Santa Clara Planning Office

### Stanford University Data Providers

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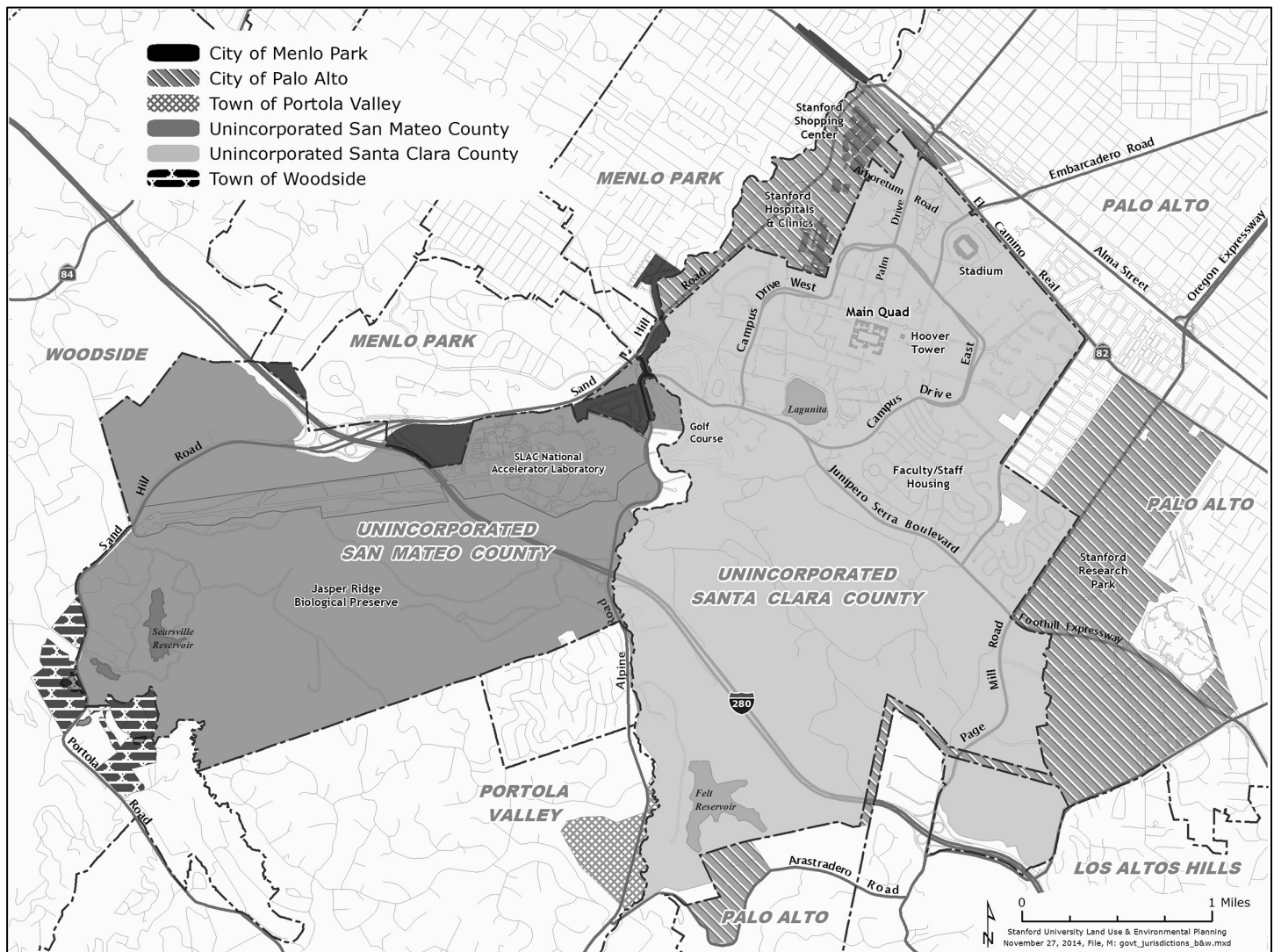
- Land Use and Environmental Planning: Catherine Palter, Associate Vice President; Jessica von Borck, LEED AP, Director; Karen Hong, AICP, Planning Manager; Ramya Subramanian, Planner/GIS Specialist
- Department of Project Management: Laura Goldstein, Director; Project Managers and staff
- Parking & Transportation Services: Brian Shaw, Director; Brian Canada, Parking Operations Coordinator
- Utilities: Adam Porter, Civil Infrastructure Engineer
- Project Management Resources, Residential and Dining Enterprises, Environmental Health & Safety Department, Facilities Operations - Utilities, University Architect/Campus Planning and Design

## **Appendix A**

### **Reference Maps**



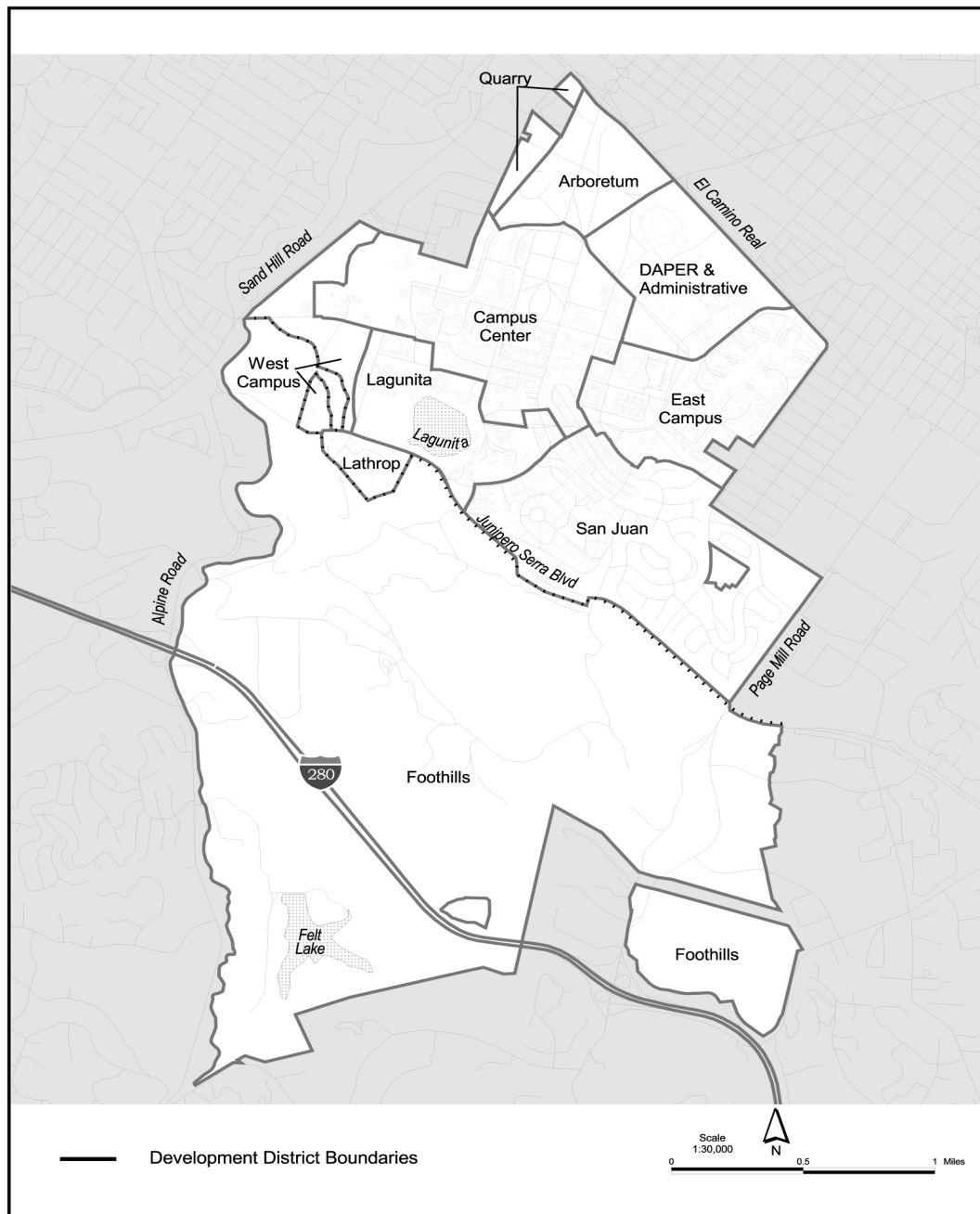
# Appendix A Reference Maps



Source: Stanford University 2014

MAP A-1  
GOVERNMENTAL JURISDICTIONS ON STANFORD LANDS

# Appendix A Reference Maps

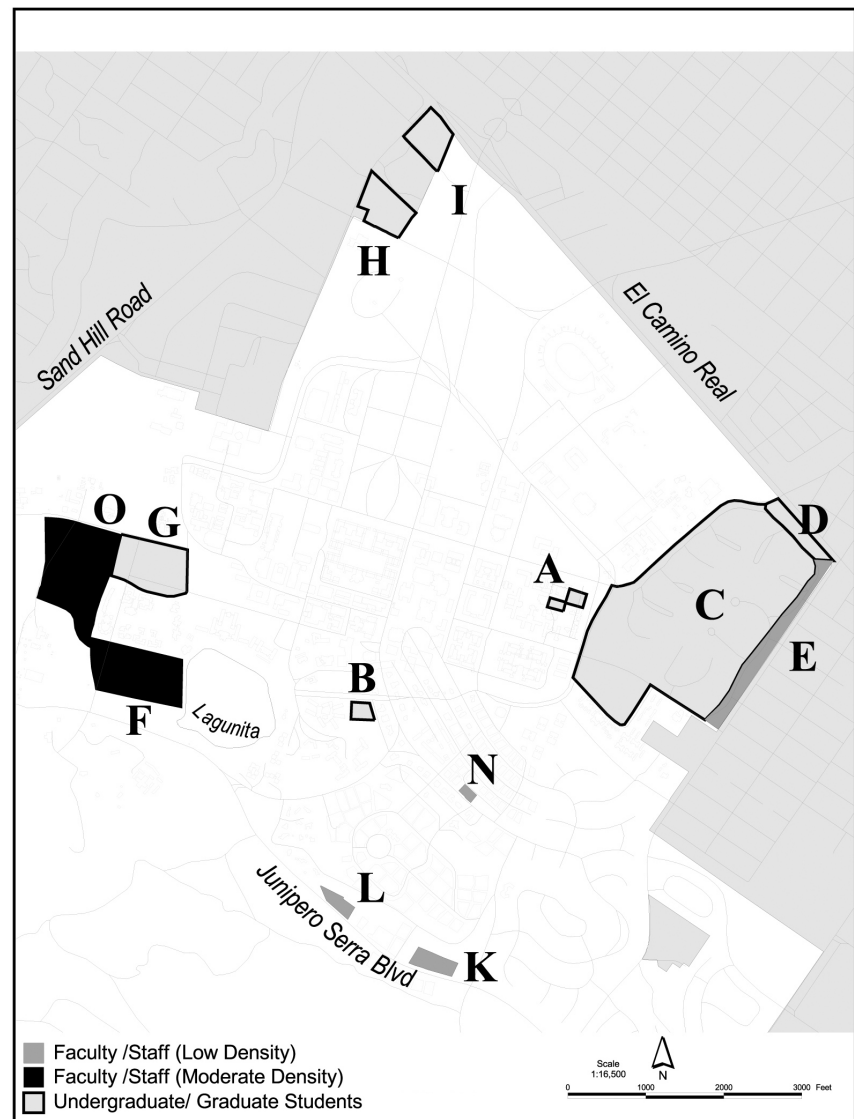


Source: Stanford University General Use Permit, December 2000

MAP A-2  
STANFORD UNIVERSITY DEVELOPMENT DISTRICTS

# Appendix A Reference Maps

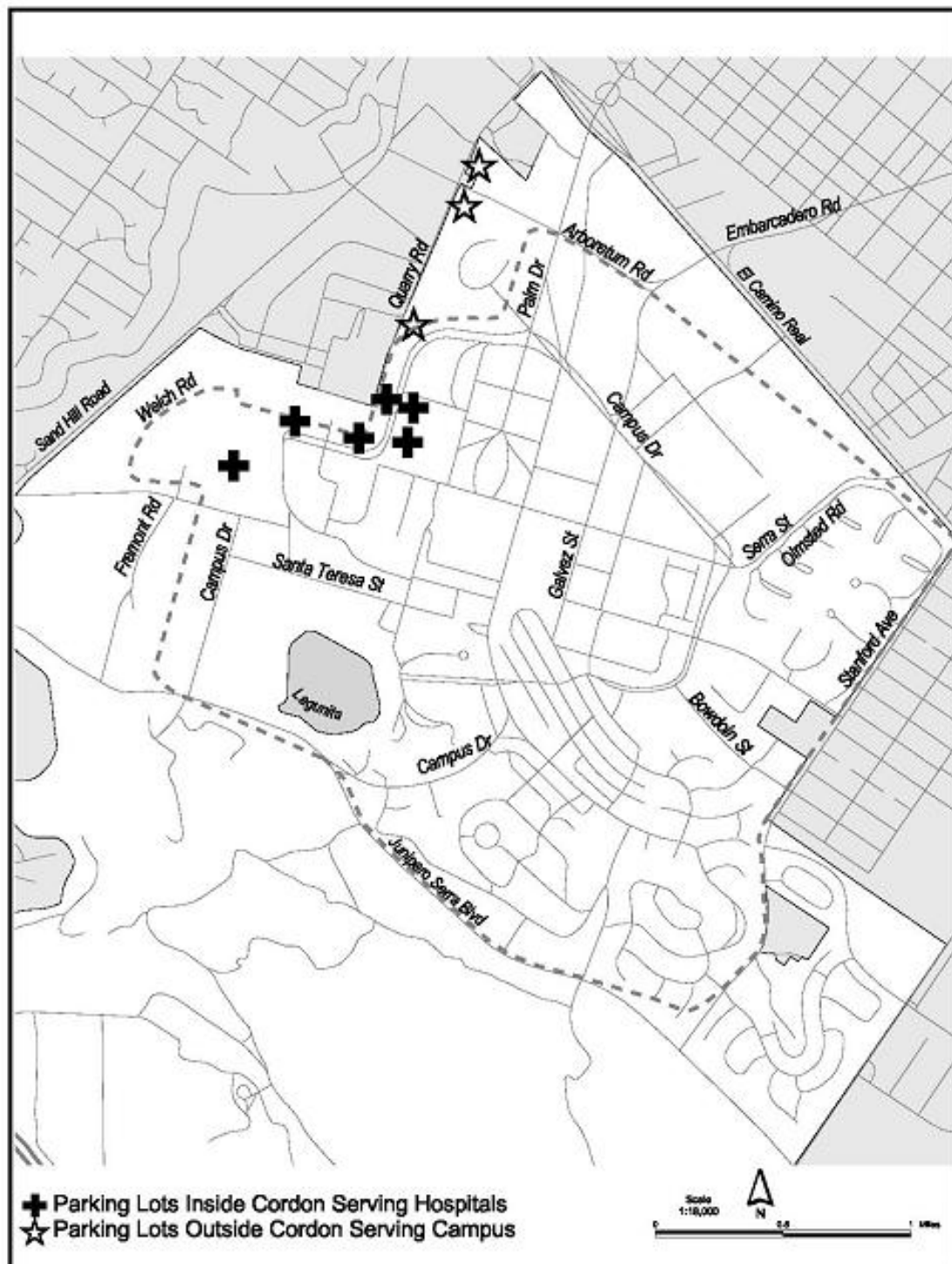
- A** *Manzanita*
- B** *Mayfield/Row*
- C** *Escondido Village*
- D** *Escondido Village*
- E** *Escondido Village*
- F** *Driving Range*
- G** *Searsville Block*
- H** *Quarry/Arboretum*
- I** *Quarry/El Camino*
- K** *Lower Frenchman's*
- L** *Gerona*
- N** *Mayfield*
- O** *Stable Sites*



Source: Stanford University General Use Permit, December 2000

MAP A-3  
POTENTIAL HOUSING SITES

## Appendix A Reference Maps

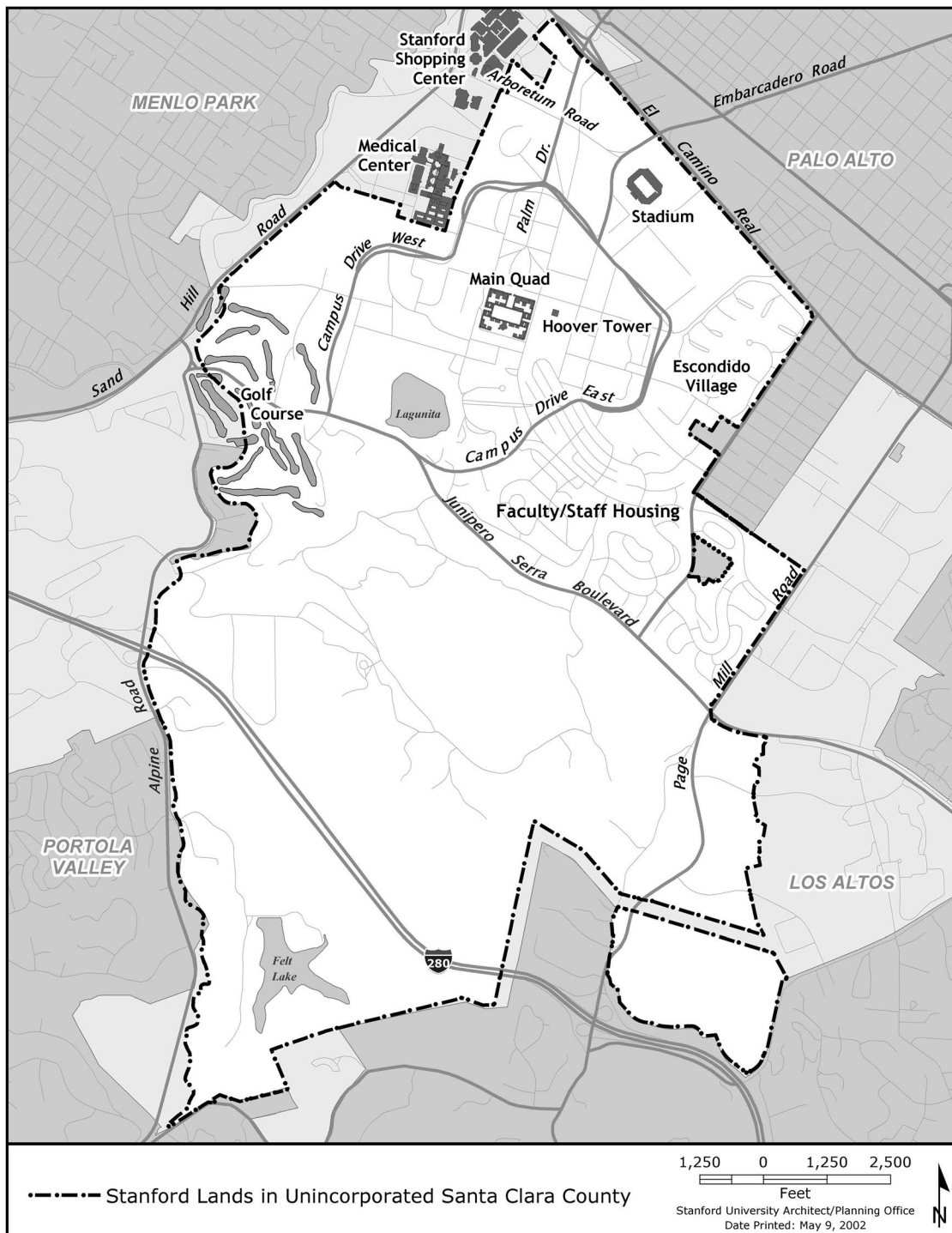


Source: Stanford University General Use Permit, December 2000

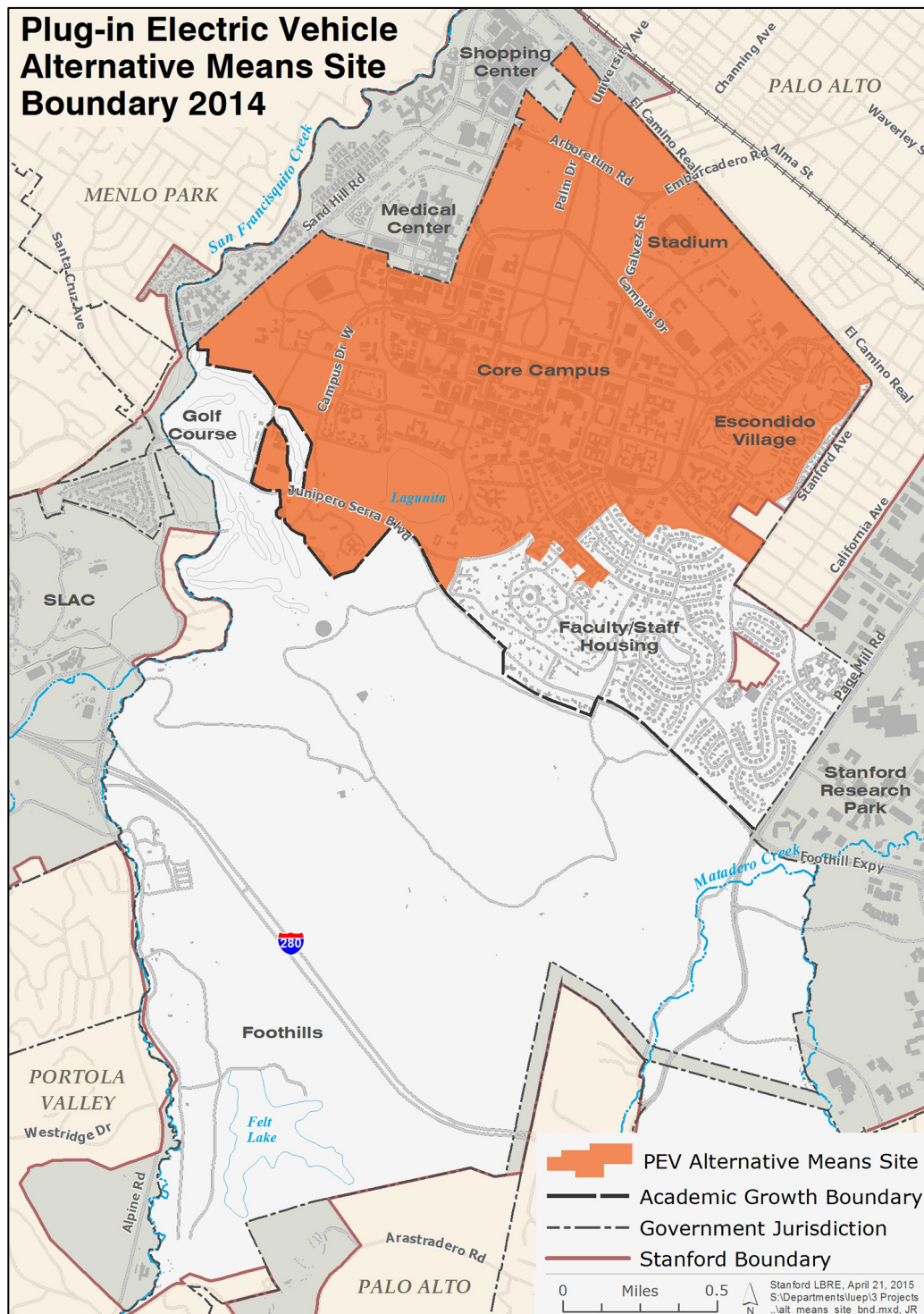
MAP A-4  
TRAFFIC MONITORING CORDON BOUNDARIES



# Appendix A Reference Maps



MAP A-5  
GENERAL ORIENTATION MAP OF STANFORD UNIVERSITY  
(UNINCORPORATED SANTA CLARA COUNTY)



MAP A-6

PLUG-IN ELECTRIC VEHICLES ALTERNATIVE MEANS SITE BOUNDARY 2014

## **Appendix B**

### **GUP Conditions and Compliance Activities**

# Appendix B

## GUP Conditions and Compliance Activities

GUP Condition		Stanford Compliance
<b>A. Building Area</b>		
A.1.	GUP allowed construction on unincorporated Santa Clara County lands.	<p>Illustrations and details are provided in Section IV of this report of all major projects that received ASA during the current reporting year. Projects are described in detail in the annual report for the period in which ASA was granted; however, academic and support building area is counted against the building area cap in the period during which the project received a building or grading permit. Table 1 in Section II of this annual report shows building area accounting during this reporting period relative to the “GUP building area cap.”</p> <p>During this reporting period, no housing units were demolished. As of August 31, 2019, the cumulative number of framed housing units is 2,403, as shown in Section II (Table 3).</p> <p>During the AR 19 reporting period, there was a net decrease of 667 parking spaces. Changes that resulted from these projects are enumerated in Section II (Table 4).</p>
A.2.	Building area allowed in addition to the GUP building area cap.	<p>The remaining 1989 GUP approved square footage was consumed during the Annual Report 5 reporting period, per Condition A.2.a.</p> <p>The 2000 GUP (Condition A.2.c) allows Stanford University to install up to 50,000 sq. ft. as surge space during construction activities in the form of temporary trailers, which shall not be counted towards the GUP building area cap. During FY 19, the West Campus Surge Trailers were removed from the temporary surge space inventory, as shown in Section II (Table 2).</p>
A.3.	Construction that does not count toward the GUP building area cap.	The 2000 GUP (Condition A.3.a) allows up to 40,000 sq. ft. of additional building area for the purpose of new childcare or community centers. During FY 19, as shown in Section II (Table 2), construction of the CCSC childcare project was completed.
<b>B. Framework</b>		
B.1.	Development under the GUP must be consistent with the Community Plan and General Plan.	Nine ASA/ASX projects were approved consistent with the policies in the Community Plan and the General Plan.
B.2.	Definition of a proposed building project.	No action required.
B.3.	Minimum time duration of GUP (modification possible, subject to County Ordinance).	No action required.
B.4.	Funding of work associated with conditions of GUP.	Stanford paid all costs associated with work conducted by the County Planning Office in relation to the GUP



## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
	(staff time, consultant fees, and direct costs associated with report production and distribution) in a timely manner.
<b>C. Monitoring, Reporting, and Implementation</b>	
C.1. Preparation of an Annual Report that summarizes Stanford's development over the preceding year, upcoming development, and compliance with GUP conditions.	This Annual Report fulfills Condition C.1. for the reporting period of September 1, 2018 to August 31, 2019.
C.2.a. County of Santa Clara Planning Office has the responsibility of preparing the Annual Report.	The County Planning Office staff prepared and distributed this 19 <sup>th</sup> Annual Report pursuant to the 2000 GUP.
C.2.b. Funding for Annual Report by Stanford.	Stanford provided funding to the Santa Clara County Planning Office for all aspects of this Annual Report in a timely manner.
C.2.c. Stanford to submit information related to Annual Report.	Stanford provided required information for this Annual Report in a timely manner.
C.2.d. Annual Report presentation to the Community Resource Group (CRG).	The Draft Annual Report 19 was presented to the CRG on June 4, 2020.
C.2.e. Presentation of the Annual Report to the Planning Commission in June of each year.	This Annual Report 19 is scheduled for presentation to the Planning Commission at the July 2020 public hearing.
C.2.f. Time period and content of the Annual Report.	This Annual Report documents Stanford's development activity and compliance with 2000 GUP conditions, and any specific conditions, associated with building projects proposed between September 1, 2018 and August 31, 2019.
C.3. Funding of work associated with implementing tasks identified in the CP and GUP.	Stanford paid all costs associated with work conducted by the County Planning Office in relation to the CP and GUP during this reporting period (including staff time and consultant fees) in a timely manner.
<b>D. Permitting and Environmental Review</b>	
D.1. Review of proposed building projects and issuance of all necessary permits and approvals in accordance with County requirements.	Nine projects received ASA/ASX during the reporting period, as described in Section II and detailed in Section IV of this Annual Report.
D.2. Compliance with adopted GUP conditions and adopted mitigation measures within the Mitigation Monitoring and Reporting Program (MMRP).	During this reporting period, Stanford submitted 12 ASA/ASX applications for projects proposed under the 2000 GUP. All approved projects were in compliance with GUP conditions. For additional details, see Section II of this annual report and Condition K.7 in Appendix B.
D.3. Compliance with CEQA requirements.	All projects that received ASA/ASX approval also received adequate CEQA review and clearance during the reporting period as specified in this GUP condition. (See also GUP Conditions D.4 and I.2).

## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition		Stanford Compliance
D.4.	Determination of appropriate level of environmental assessment.	Relevant measures identified in the EIR, and incorporated into the GUP, have been incorporated into the conditions of approval for each project. Additional project conditions of approval were included where necessary.
D.5.	Project specific environmental assessment.	No project-specific environmental assessments were submitted during the reporting period.
D.6.	Impact areas to be considered in environmental assessment.	Not applicable.
<b>E. Academic Building Area</b>		
E.1.	Distribution of 2,035,000 square feet of academic and academic support facilities distributed among ten development districts.	During the reporting period, academic/academic support facilities were approved for the Campus Center, and DAPER Districts. (See Section IV Project Summaries for details).
E.2.	Deviation from the proposed distribution of academic development.	During the reporting period, no redistributions were proposed.
E.3.	Maximum allowable development in the Lathrop District shall be 20,000 square feet.	No development was proposed for the Lathrop District during the reporting period.
E.4.	No academic development allowed in the Arboretum District.	No academic development was proposed for the Arboretum District.
E.5.	Complete and submit a Sustainable Development Study (prior to cumulative development total of more than 1,000,000 net square feet).	The Sustainable Development Study (SDS) was approved by the Board of Supervisors on April 7, 2009. More detail on the SDS process was provided in AR 9. In 2018, the County prepared a Supplement to the Sustainable Development Study. The Supplement augmented the work previously prepared to identify the maximum planned buildout potential of Stanford lands in unincorporated Santa Clara County. The Supplement is available at <a href="https://www.sccgov.org/sites/dpd/DocsForms/Documents/SU_SDS_Supplement.pdf">https://www.sccgov.org/sites/dpd/DocsForms/Documents/SU_SDS_Supplement.pdf</a> . Appendix E provides an Annual Report of Stanford's sustainable activities. Stanford is in compliance with GUP Condition E.5.
<b>F. Housing</b>		
F.1.	Type and distribution of the 3,018 housing units allowed under the GUP.	<p>To date, 2,403 net new housing units have been built or framed. The Escondido Village Graduate Residences Project was under construction during this reporting period for 2,020 net new student units.</p> <p>In FY 13, a GUP Housing Amendment was proposed to allocate 372 faculty/staff units in West Campus to 166 student units in Lagunita and 206 student units in East Campus. The Amendment was approved on November 26, 2013. In FY 15, a GUP Housing Amendment was submitted to allow all remaining unused housing allocation to be usable for any type of</p>

## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
	<p>university affiliate housing. The Amendment was approved on May 5, 2015.</p> <p>Redistributions of housing units across development districts were approved during FY 6, 13, 14, 16, and 17.</p>
F.2. Other allowed housing sites.	During the FY 19 reporting period, there were no housing projects proposed on housing sites other than the designated sites on Map 3, Appendix A.
F.3. Allowable variation of housing development.	See compliance with GUP Condition F.2 above, and F.4 below.
F.4. Deviation from estimated housing distribution.	No housing unit redistribution occurred in FY19.
F.5. No housing may be constructed in the Foothills, Lathrop, or Arboretum districts.	No housing projects were proposed for any of these districts during the reporting period.
F.6. Compliance with affordable housing requirement.	<p>Stanford has complied with the affordable housing requirements under the GUP conditions for net new academic square footage constructed by paying the in-lieu fee for applicable projects prior to occupancy. An Affordable Housing Fee Square Footage Bank (Square Footage Bank) has been maintained by the County since 2000 for demolition or conversion of projects that remove buildings from GUP allocation square footage. Stanford may use the square footage from the Square Footage Bank and is not required to pay the in-lieu fee because the square footage is not treated as net new academic square footage. For this reporting period Stanford chose not to pay in-lieu fee and used the Square Footage Bank for four (4) projects (38, 421 sq. ft.). As of August 31, 2019, Stanford has made affordable housing fee payments totaling \$26,167,874.</p> <p>Five affordable housing projects have been built within the 6-mile radius from the Stanford Campus boundary, and have provided 286 affordable housing units, with 137 units restricted to very low income to extremely low income families. In September 2017, \$14.5 million of the in-lieu fees was used to partially fund the acquisition and rehabilitation of the Buena Vista Mobile Home Park in Palo Alto. In addition, on April 17, 2018, the County Board of Supervisors approved setting aside \$6,000,000 to support the development of a 60- to 100-unit multifamily rental development in Palo Alto for teachers.</p>
F.7. Allowance for additional housing beyond 3,018 units.	In FY 16, pursuant to GUP Condition F.7, the addition of 1,450 housing units beyond the initial 3,018 unit housing authorization was approved, for the Escondido Village Graduate Residences project. Stanford's new housing authorization is 4,468 units.

## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
	No additional housing allowance was proposed in FY 19.
F.8. Housing linkage requirements.	The GUP requires 1,815 housing units to be provided as part of a housing “linkage” to Stanford development of 1,500,000 cumulative sq. ft. of academic square footage. Stanford has constructed a total of 2,403 net new housing units, which complies with the housing linkage requirement.
F.9. For purposes of the linkage requirement, the County will consider Stanford to have met housing compliance at the time of framing inspection.	The County has and continues to use the framing inspection for determination of the housing linkage requirement.
F.10. Petition for modification of the housing linkage requirements.	Stanford made no petition for modification of the housing linkage requirement.
F.11. Adoption of new zoning designations for Campus Residential – Low Density and Campus Residential – Medium Density.	Completed during Annual Report 1 reporting period.
F.12. Allowed suspension of the housing linkage requirement.	There was no suspension of the housing linkage requirement.
<b>G. Transportation</b>	
G.1. Intersection modifications.	Completed during Annual Report 1 reporting period.
G.2. Continued compliance with 1989 GUP transportation requirements.	<p>Stanford has reported that they continue to offer and expand the following programs that were in effect during the 1989 GUP: Marguerite shuttle system, carpool and vanpool incentives, bicycle and pedestrian services, alternative transportation promotional activities, and staff support of alternative transportation programs.</p> <p>Several program changes were made in previous years, which have helped encourage the use of alternative transportation as a means of arriving and departing the campus, and are described fully in AR 19. Changes to the programs are described in subsequent annual reports.</p> <p>In 2018-19, the Zipcar car sharing program maintained a fleet of more than 68 vehicles at 30 locations. The Marguerite shuttle system now has 23 routes and 66 buses, with an estimated annual ridership of over 2.86 million. The Marguerite fleet includes 41 electric buses. It also includes 5 diesel-electric hybrid buses, and 20 other vehicles fueled by diesel. Marguerite also oversees seven motor coaches used for Stanford’s Transbay service, which has seen continued ridership growth over the last year.</p> <p>Stanford has received a renewal of its Platinum designation as a Bicycle Friendly University and is currently in its 3<sup>rd</sup> consecutive renewal. Stanford’s</p>

## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
	<p>bicycle program accommodates an estimated 13,000 bikes on campus each day and has parking capacity for over 19,000 bikes.</p> <p>Membership in the Commute Club, an incentive program for commuters who choose not to drive alone, had over 11,000 people in 2018-19. Free vanpools, free transit passes, the Refer-A-Friend promotion, the Part-Time Pledge, and programs for bicycle commuters continued to support and encourage sustainable commuting.</p>
<p>G.3. Mitigation of transportation impacts from additional development and population growth.</p>	<p>The County hired an independent consultant, AECOM Engineering, to complete traffic studies. See Appendix D of this document for a summary of results.</p>
<p>G.4. No net new commute trips.</p>	<p>Year 19 cordon counts were conducted in Spring 2019 and completed in Fall 2019. The 2019 Monitoring Report concluded that the adjusted morning (AM) inbound count totaled 3,193 vehicles which was 246 vehicles lower than the upper boundary of the 90% confidence interval and 281 vehicles below the one-percent established trigger, and does not represent a significant AM inbound traffic increase (see Appendix D for definitions of 90% confidence level and 1% trigger). The afternoon (PM) outbound count totaled 3,292 vehicles, which is 263 vehicles lower than the upper boundary of the 90% confidence interval and 299 vehicles below the one-percent established trigger, and does not represent a significant PM outbound traffic increase. Therefore, Stanford met the No Net New Commute Trips standard. Although Stanford programs removed non-Stanford trips from intersections in the local impact area, Stanford chose not to submit trip credits to the County this year.</p> <p>Therefore, Stanford complied with GUP Condition G.6.</p>
<p>G.5. Traffic counts cost.</p>	<p>Stanford submitted all requested funds in a timely manner.</p>
<p>G.6. Baseline count established prior to construction of first new non-residential structure or by an alternative methodology determined to be more accurate.</p>	<p>Baseline cordon counts were completed during AR 1 and 2 reporting periods.</p>
<p>G.7. Traffic counts and determination of traffic volume.</p>	<p>The traffic counts were conducted in Spring 2019 and completed in Fall 2019 by the County's traffic consultant, AECOM Engineering. As described in Appendix D of this report, the results of the 2019 counts were analyzed against the baseline counts previously collected, and were determined not to exceed the traffic limits threshold for the AM and PM</p>

## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
	peak hour traffic, even without the application of any trip credits.
G.8. Off-campus trip reduction.	During FY 19, Although Stanford programs removed non-Stanford trips from intersections in the local impact area, Stanford chose not to submit trip credits to the County this year. Stanford was also below the 2000 GUP EIR thresholds for vehicle counts.
G.9. Monitor cordon count volumes.	A summary report of traffic monitoring is provided as Appendix D to this annual report.
G.10. Neighborhood traffic studies.	No additional neighborhood traffic study requests have been received by the County Planning Office.
G.11. Project-specific traffic studies.	No traffic studies were submitted.
G.12. Construction traffic management plan.	<p>Stanford informed both its Public Safety Office and the University Fire Marshall's Office about site work and schedules for all construction projects that could affect emergency access. The University Fire Marshall's Office has regular coordination meetings with the Palo Alto Fire Department, where they update the Department on any emergency route changes. In addition, Stanford requires, through contract with the general contractors, that emergency vehicle access is always kept available through work areas.</p> <p>The Stanford Contracts office provides a general "Stanford Area truck routes map" to all general contractors and all the associated sub-contractors for the project at the time of contract release. The map also includes pedestrian zones, weight limits, service vehicle parking areas, and loading areas. In addition, Stanford provides copies of the map to contractors that come into the Parking and Transportation office to purchase Service Vehicle permits. This map and others are available on the web at <a href="http://transportation.stanford.edu/">http://transportation.stanford.edu/</a>.</p> <p>The County and Stanford continue to work towards consistent inclusion of a traffic management plan as part of the construction plan set available on site.</p>
G.13. Special event traffic management plan.	Compliance with this requirement was achieved during the AR 3 reporting period.
G.14. Junipero Serra Boulevard/ Stanford Avenue traffic group.	The full JSB/Stanford Avenue Multi-Jurisdictional Group did not meet during the reporting period; however, an ad hoc working group including Stanford, the SCRL and County Roads and Airports (CR&A) met on several occasions regarding the JSB traffic calming project. In June 2010, County Supervisor Liz Kniss announced that the County Board of Supervisors had approved \$1.5M in funding to complete the project. CR&A awarded a design contract in March 2011. Construction documents (30% stage) were

## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
	<p>issued in August 2011. A draft Initial Study was issued for public review in November 2011. A final CEQA document was adopted in March 2012. CR&amp;A anticipated starting construction in spring of 2012. However, due to permitting constraints from the Regional Water Quality Control Board delayed the approval process. Stanford presented a conceptual redesign to CR&amp;A in the Spring of 2015 that could eliminate the permitting constraints. Stanford conducted neighborhood outreach to share the concept with SCRL representatives. The conceptual design was reviewed for engineering feasibility by CR&amp;A in summer 2015. In summer 2016, a CEQA Addendum was completed for the redesign. Final engineering drawings were prepared in FY 17, and the County identified funding to construct the project. Construction began in August 2018 and ended in Fall 2018.</p>
<b>H. Parking</b>	
<p>H.1. Net additional parking spaces shall not exceed 2,300 spaces, with the exception of parking provided for any housing in excess of 3,018 units.</p>	<p>During the reporting period, changes in parking resulted in an estimated net decrease of 29 parking spaces on the campus for a total cumulative decrease since September 1, 2000 of 1,758 spaces. Changes in parking occurred in the Lagunita, Campus Center, Quarry, Arboretum, DAPER &amp; Administrative, East Campus, and San Juan Development Districts. See Section II, Table 4, and Appendix C-3 for details.</p>
<p>H.2. Residential Parking Permit Program.</p>	<p>In 2006, Stanford paid the City of Palo Alto \$100,000 towards the development of a Residential Parking Permit Program. Stanford is in compliance with Condition H.2.</p> <p>The City of Palo Alto conducted a College Terrace Parking Permit Program experiment in 2008 and 2009 and subsequently adopted a permanent program in late 2009. The program includes continued monitoring of the parking patterns in the neighborhood.</p>
<b>I. Parks and Recreation Facilities</b>	
<p>I.1. Improve parks in the San Juan faculty/staff residential area.</p>	<p>At the April 8, 2004 ASA meeting, the ASA Committee accepted the <i>Stanford University Program for the Replacement of Recreational Facilities in the San Juan District</i>. Stanford has complied with the requirement to submit the plan, and future compliance will be required through implementation of the plan, if triggered by infill development.</p>
<p>I.2.a. In consultation with the County Parks and Recreation Department, identify and complete Trail Easements within one year of GUP approval.</p>	<p>Stanford entered into an agreement with the County on January 3, 2006, to construct the S1 trail in Santa Clara County and to make offers to Los Altos Hills for the funding of a trail extension through that town and to</p>



# Appendix B

## GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
	<p>the Town of Portola Valley and San Mateo County for improvements to the C1/E12 Alpine Trail.</p> <p><u>Construction of S1 Trail:</u> Construction of the off-road portions of the S1 trail was completed in May 2011. Santa Clara County accepted the trail easement and the trail opened in May 20, 2011. All aspects of the S1/Matadero Trail in unincorporated Santa Clara County including trail construction, associated roadway improvements, and dedication of easements are complete.</p> <p><u>Construction of C1/E12 Trail:</u> Stanford's proposal for the design and funding of the C1/E12 Alpine Trail (segment in Portola Valley) improvements was accepted by the Town of Portola Valley in 2009. All aspects of the C1/E12 Alpine Trail in Portola Valley including trail construction, associated roadway improvements, and dedication of easements are complete.</p> <p><u>Construction of C2/Arastradero Trail:</u> Construction and trail improvements were completed and the trail was dedicated on November 1, 2013. The trail links the S1/Matadero Trail (at the Arastradero Road and Purissima Road intersection) to the Pearson-Arastradero Preserve.</p> <p><u>Construction of Stanford Perimeter Trail:</u> San Mateo County and Stanford did not reach agreement for the San Mateo C1 segment and in February 2012, Stanford paid Santa Clara County approximately \$10.3 million. In August 2012, Santa Clara County issued a request for applications for projects that would serve as alternative mitigation measures to address the loss of recreational facilities on the Stanford campus. Santa Clara County received 15 project applications from six local agencies. The Santa Clara County Board of Supervisors declared its intent to fund six of the 15 projects, including \$4.5 million to Stanford to construct a perimeter trail along El Camino Real and Stanford Avenue frontages. Stanford subsequently did not accept the grant award for the Stanford Perimeter Trail, which was opened to the public in April 2016. The Board also directed County Administration to negotiate project agreements for the selected projects and submit approval to the Board consistent with the requirements of CEQA.</p>
I.2.b. Work with County Parks and Recreation Department to identify responsibilities for	Identification of trail construction, management, and maintenance responsibilities had begun previously, based on Stanford's 2001 proposal (see Condition I.2.a above and "Overview of Monitoring Activities"). A



## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
trail construction, management and maintenance.	trail management plan for S1 was accepted by Santa Clara County, along with the easement, in May 2011.
<b>J. California Tiger Salamander (CTS)</b>	
J.1. Habitat protection easements for protection of the CTS.	Condition superseded by Stanford's Habitat Conservation Plan (see Condition J.9).
J.2. Specifics of habitat protection easements.	Condition superseded by Stanford's Habitat Conservation Plan (see Condition J.9).
J.3. Creation of breeding ponds for CTS prior to issuance of a building permit for a proposed building project on occupied CTS habitat.	Condition superseded by Stanford's Habitat Conservation Plan (see Condition J.9).
J.4. CTS monitoring.	Condition superseded by Stanford's Habitat Conservation Plan (see Condition J.9).
J.5. Project specific measures in CTS Management Zone.	Condition superseded by Stanford's Habitat Conservation Plan (see Condition J.9).
J.6. Operational measures required within the CTS Management Zone.	Condition superseded by Stanford's Habitat Conservation Plan (see Condition J.9).
J.7. Continued compliance with 1998 CTS Management Agreement.	Condition superseded by Stanford's Habitat Conservation Plan (see Condition J.9).
J.8. CTS passage ways across Junipero Serra Boulevard.	Condition superseded by Stanford's Habitat Conservation Plan (see Condition J.9).
J.9. U.S. Fish and Wildlife Service permit prior to construction on occupied CTS habitat if CTS is listed as threatened or endangered.	The final Stanford University Habitat Conservation Plan (HCP) and Final Environmental Impact Statement (EIS) were published on November 23, 2012, and revised in March 2013. On August 13, 2013, the County Board of Supervisors acknowledged the determination that the HCP provides equal habitat value and protection for the California Tiger Salamander (CTS). Therefore, the HCP supersedes all conditions in the GUP that address the CTS, as stated in Condition J.9.
<b>K. Biological Resources</b>	
K.1. Special-status plant surveys.	No special species plant surveys were done during this reporting period.

## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
K.2. Preconstruction surveys for breeding raptors and migratory birds.	<p>The County hired Environmental Science Associates to complete eight surveys for breeding raptors and migratory birds potentially affected by Stanford projects.</p> <p>During the AR19 reporting period, a violation relating to the Cabrillo-Dolores Subdivision (in the San Juan neighborhood) was issued by the County. The violation included unpermitted removal of three oak trees and noncompliance with this condition relating to preconstruction surveys for nesting raptors and migratory birds, that were not conducted prior to tree removal. To abate the violation, Stanford was required to pay a fine of \$15,000 and submit a retroactive Tree Removal permit application to legalize all work done in violation of the tentative map approval. The \$15,000 fine has been paid by Stanford and a Tree Removal permit with conditions was issued by the County on May 12, 2020. Per the approved Tree Permit conditions, replanting of trees at a 10 to 1 ratio is required. This work is ongoing.</p>
K.3. Oak woodland habitat – create or restore at a 1.5:1 ratio for proposed building projects located in oak woodland area.	During this reporting period, no trees within oak woodland habitat were proposed for removal.
K.4. Tree preservation for proposed building projects affected by protected trees.	All projects were conditioned to protect existing trees during construction. Stanford proposed appropriate mitigation for the loss of protected trees greater than 12 inches diameter at breast height (dbh) in the ASA applications for all projects.
K.5. Stanford to hire biological consultant to prepare wetlands description.	Compliance with this requirement was achieved during the AR 3 reporting period. Subsequent wetland delineations are conducted in compliance with Army Corps of Engineers guidelines.
K.6. Updates to CA Natural Diversity Database.	<p>Stanford submitted CNDDB sheets for the following species to the State in the following years:</p> <p>California red-legged frogs – annually since 2002</p> <p>California tiger salamanders – annually since 2008</p>
K.7. Special conservation area plan.	Stanford submitted a “Conservation Program and Management Guidelines for the Special Conservation Areas” to the County on December 11, 2001. The County waited for the Stanford HCP to be approved and adopted before directing Stanford with specific requirements for modification and resubmittal. The Stanford HCP was approved on August 13, 2013 (see Condition J.9). Stanford submitted and the County accepted a revised Special Conservation Area Plan in August 2015, fulfilling Condition K.7.

# Appendix B

## GUP Conditions and Compliance Activities

GUP Condition		Stanford Compliance
<b>L. Visual Resources</b>		
L.1.	Streetscape design for El Camino Real prior to or in connection with submitting an application for development along El Camino Real.	During AR 8, Stanford completed and submitted a draft <i>Plan For The El Camino Real Frontage</i> , approved by the County of Santa Clara Architectural and Site Approval Committee on April 10, 2008. Stanford is in compliance with Condition L.1.
L.2.	Minimum 25-foot building setback from Stanford Avenue.	No building projects were proposed on Stanford Avenue during the reporting period.
L.3.	Lighting plan for development projects that include exterior light sources.	Project-specific lighting plans were submitted with ASA applications during the reporting period.
L.4.	Development locations in the Lathrop Development District.	No development was proposed in the Lathrop District.
<b>M. Hazardous Materials</b>		
M.1.	Hazardous materials information/Risk Management Plan for each proposed building project.	Hazardous materials information was provided in the ASA applications for all projects proposed or approved during the reporting period. No projects were proposed or approved during the reporting period that triggers the California Accidental Release Prevention (CAL-ARP) law.
M.2.	Maintenance of programs for storage, handling, and disposal of hazardous materials.	<p>University Dept. of Environmental, Health and Safety (EH&amp;S) continues to provide key resources in the planning, development, and implementation of effective environmental and health and safety training programs. Where appropriate and possible, EH&amp;S provides in-house training programs that enable University managers and supervisors to deliver health and safety training directly to their staff. Schools, Departments and Principal Investigators provide other levels of training throughout the University. During this reporting period, EH&amp;S maintained a training catalog that included 103 separate training courses. Stanford staff, faculty, and students through both on-line and classroom sessions completed a total of 32,008 trainings. Stanford also extends its training efforts by providing training and information resources on the World Wide Web at <a href="http://ehs.stanford.edu">http://ehs.stanford.edu</a>.</p> <p>Surveys of campus and medical center labs, shops and studios are conducted on a routine basis to provide compliance assistance regarding hazardous materials, hazardous waste, fire safety, biological safety and chemical safety requirements. Personnel conducting the surveys often work one-on-one with personnel in labs, shops and studios to help them understand pertinent compliance requirements.</p> <p>Hazardous Materials Management Plans for existing buildings storing hazardous materials are submitted annually to the Santa Clara County Environmental</p>

## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
	<p>Health Hazardous Materials Compliance Division as online updates via the Cal/EPA California Environmental Reporting System Portal. To facilitate hazardous materials tracking and reporting, Stanford has implemented an on-line chemical inventory database system whereby authenticated chemical users may maintain their hazardous materials inventories, supporting timely and accurate submission of required regulatory reports.</p> <p>The University Committee on Health and Safety meet five times during the reporting period. The committee membership includes a member from the public as well as faculty, staff and students. Issues considered by the committee included environmental, health and safety activities, and initiatives conducted at the SLAC National Accelerator Laboratory.</p> <p>The EH&amp;S Department reviews each set of plans for new structures and those for renovation and/or remodeling of existing structures to help ensure that the risks associated with activities conducted in Stanford's buildings are addressed, and that all facilities projects are undertaken in compliance with applicable environmental and health and safety laws, codes, and regulations. EH&amp;S also conducts Environmental and/or Human Health Risk Assessments for new projects as required by the Bay Area Air Quality Management District and as appropriate as part of the building planning process.</p> <p>EH&amp;S personnel specifically responsible for handling hazardous wastes and for emergency response are trained by certified independent professionals and by professional EH&amp;S staff in accordance with all applicable regulations. The operational waste personnel are augmented and assisted by professional environmental engineers, chemists, and environmental managers.</p> <p>As a part of waste minimization activities, EH&amp;S operates a Surplus Chemical redistribution program, which reduces the disposal of unused chemicals, therefore reducing the amount of hazardous waste generated, and the costs of disposal. Redistribution volumes are dependent on department and laboratory changes, which can vary annually. In FY 2019, EH&amp;S redistributed 187 unneeded chemical containers from laboratory inventories to other campus users.</p>

# Appendix B

## GUP Conditions and Compliance Activities

GUP Condition		Stanford Compliance
<b>N.</b>	<b>Geology and Hydrology</b>	
N.1.	Compliance with all requirements of the Uniform Building Code, County Geologist, County Building Inspection Office, Stock Farm Monocline Agreement, and others defined under the GUP in regard to reduction of seismic risk.	Stanford is in compliance with Condition N.1 requirements. These are reviewed through the ASA applications submitted, and building and grading permits issued during the reporting period. See Section II of this report for project details.
N.2.	Hydrology and drainage study.	<p>The Storm Water Detention Master Plan for the Matadero Creek watershed was submitted by Stanford and accepted by the County during the Annual Report 4 reporting period. Stanford is responsible for implementing phased measures consistent with the plan prior to development of new impervious cover within the watershed.</p> <p>Regarding storm drainage and flood control, Stanford and the County reached agreement on the approach and engineering design criteria for detention provisions to avoid increases in peak runoff flow rate from the campus in the San Francisquito Creek watershed. Stanford continued with implementation of its storm drainage master plan for both detention and protection of campus facilities, engineering the remaining barriers to divert overland flows away from structures to streets and malls, and Phase I and II of the West Campus detention basins. With these improvements and the detention basins constructed previously in the Matadero watershed, Stanford has mitigated anticipated runoff from all its development under the 2000 GUP, including the Escondido Village Graduate Residences, in compliance with Conditions N.2 and N.3.</p>
N.3.	Storm water management facilities designed to only store storm water runoff temporarily and not create extended ponding.	<p>The Serra/El Camino Real (ECR) and the West Campus Storm Water Detention Facilities projects are designed to accommodate increases in the 10-year and 100-year storm runoff associated with 2000 GUP development in the Matadero and San Francisquito Creek watersheds respectively. These projects are designed to drain within a couple of days, thereby avoiding extended ponding.</p> <p>An initial phase of this plan was implemented when the Stock Farm/Sand Hill Road Detention Basins were completed during the AR 4 reporting period. Phase II of the West Campus Detention Basins was completed during FY 16.</p>
N.4.	Groundwater recharge study in conjunction with projects located in unconfined zone.	Stanford has prepared and submitted a draft campus-wide groundwater recharge plan that describes the groundwater recharge mitigation approach in coordination with the Santa Clara Valley Water District and the County. This plan accounts for water from Stanford's Lake Water system that is directed to

# Appendix B

## GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
	<p>Lagunita (where it percolates) in an amount that exceeds the cumulative groundwater recharge lost from projects built in the unconfined zone. Stanford and County staff finalized this plan on May 27, 2015. The annual groundwater recharge mitigation monitoring report has been submitted to the County for tracking purposes.</p>
<p>N.5. Review and approval for storm water/ groundwater recharge facilities.</p>	<p>The ASA and grading or building permit-approved projects during the 19th annual reporting period are anticipated to result in new impervious surface area in the Matadero Creek and San Francisquito Creek watersheds. The cumulative increase of impervious surfaces on campus has been mitigated by the Serra/ECR detention basins and West Campus detention basins Phase I and II (completed during FY 4 and FY 16 respectively), to avoid impacts with respect to reduced groundwater recharge. Stanford and the County track the cumulative increase in impervious surface against the amount that can be mitigated by the constructed basins.</p>
<p>N.6. Notice of Intent to State Water Resources Control Board (SWRCB) prepared each year for anticipated projects.</p>	<p>Stanford submitted a Notice of Intent (NOI) to join the State of California General Storm Water Construction Permit on June 29, 2001. Stanford received acceptance on July 10, 2001. An updated NOI was submitted to the State Water Resource Control Board as well as to the San Francisco Regional Water Quality Control Board in accordance with the NPDES General Permit on July 16, 2009.</p> <p>On September 2, 2009 the State Water Resources Control Board adopted a new construction permit for all construction projects over 1 acre. Due to reporting and sampling requirements listed in the new State permit, Stanford has been applying for permit coverage on a project-by-project basis for all new construction over 1 acre.</p> <p>All projects listed below were either terminated, continued, or started from the period September 1, 2018 through August 31, 2019 and can be viewed via the State Board's SMART system located at <a href="http://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin.jsp">http://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin.jsp</a>.</p> <p>Projects <u>terminated</u> from September 1, 2018 – August 31, 2019:</p> <ul style="list-style-type: none"> <li>• Stanford Regional Loading Dock Expansion, WDID # 2 43C375190</li> <li>• Stanford 18-Hole Golf Course, WDID # 2 43C380227</li> <li>• Frost Amphitheater Renovations, WDID # 2 43C379712</li> <li>• CCSC, WDID # 2 43C381806</li> </ul>

## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
	<ul style="list-style-type: none"> <li>• Stanford EH&amp;S Expansion, WDID # 2 43C381360</li> <li>• Lagunita Diversion Dam Removal and Creek Restoration Project, WDID # 2 43C383423</li> <li>• Football Field Turf Replacement, WDID # 2 43C386302</li> </ul> <p>Projects <u>started/continuing</u> from September 1, 2018 – August 31, 2019:</p> <ul style="list-style-type: none"> <li>• Cogen Plant Demo, WDID # 2 43C372589</li> <li>• Escondido Village Graduate Housing, WDID # 2 43C378743</li> <li>• Serra Roundabout/Serra Street, WDID # 2 43C380436</li> <li>• Stanford University Center for Academic Medicine, WDID # 2 43C381311</li> <li>• Galvez Arboretum Roundabout, WDID # 2 43C382569</li> <li>• Manzanita Field Parking Garage, WDID # 2 43C382298</li> <li>• Serra Mall, WDID # 2 43C382842</li> <li>• Public Safety Building, WDID # 2 43C387021</li> <li>• Via Ortega North, WDID # 2 43C384834</li> <li>• Stock Farm Greenhouses, WDID # 2 43C387182</li> <li>• Cabrillo Dolores Faculty Housing, WDID # 2 43C387005</li> </ul> <p>Projects utilizing an Erosivity Waiver from September 1, 2018 – August 31, 2019:</p> <ul style="list-style-type: none"> <li>• Golf Course Grading Abatement, WDID # 2 43W004148</li> </ul>
<p>N.7. Monitor effectiveness of storm water pollution prevention best management practices; monitor at construction sites before and during storm events occurring during construction period.</p>	<p>Each construction site under the 2000 GUP that disturbs one acre or more is permitted through the General Permit for Discharges of Storm Water Runoff Associated with Construction Activity. The information submitted as part of the permit will be updated yearly to reflect the current construction projects. In accordance with that permit, the sites are required to have a Storm Water Pollution Prevention Plan (SWPPP). Each SWPPP outlines the Best Management Practices for preventing storm water pollution on that specific site. To ensure that the BMPs are working and in place, each construction project is required to monitor the construction site and BMPs before, during, and after rain events or weekly, whichever is more frequent. The project is required to maintain inspection logs on site, documenting the</p>



## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
	<p>monitoring program. Stanford storm water staff visits the sites at least once per month to ensure compliance with BMPs and monitoring.</p> <p>In addition, Stanford is required to send an Annual Compliance Status Report to the State Water Resources Control Board, certifying compliance with the provisions of the General Permit for Discharges of Storm Water Runoff Associated with Construction Activity, including BMPs and monitoring.</p>
<p>N.8. Surveys to determine presence and location of wells prior to issuance of any building permit or grading permit.</p>	<p>Stanford performed surveys to identify existing wells on building sites with ASA applications as required. Stanford reviews these historic wells surveys with every building project and confirms in the applications that no historic wells not properly closed are at the project location.</p>
<p>N.9. Permit from Santa Clara Valley Water District for any proposed construction, demolition, grading, landscaping within 50-feet of the top of the bank.</p>	<p>In 2007, SCVWD adopted an approach to defer to local permitting agencies for work conducted in creeks, and no longer require SCVWD permits.</p>
<p>N.10 No new land use or practices within the unconfined zone that could pose a threat to the groundwater quality or supply.</p>	<p>In 2009, Stanford mailed an informative pamphlet to all residential leaseholders whose property is located within the unconfined zone. This pamphlet contains valuable information regarding the sensitive nature of these properties with respect to the potential for downward migration of contaminants to groundwater. The pamphlet also provides “Best Management Practices” regarding proper application of landscape chemicals, notifying Stanford of abandoned wells and fuel tanks, and safe management of household chemicals and hazardous waste. Stanford also mailed this pamphlet to all other residential leaseholders that are not located within the unconfined zone as a part of continuing outreach.</p>
<p><b>O. Cultural Resources</b></p>	
<p>O.1. Assessment of structure with potential historic significance for building projects that involve the demolition of a structure 50 years or older.</p>	<p>The Biology Plant House (part of the Stock Farm Greenhouse project) was evaluated prior to demolition and found to be ineligible for listing on the California Register. Three single-family homes approved for demolition as part of the Cabrillo-Dolores Faculty Housing project were also evaluated and found to be ineligible for listing on the California Register.</p>
<p>O.2. Requirements for remodeling, alteration, or physical effect on structures that are 50 years old or more.</p>	<p>The landscaping project at the Hoover House, which is listed on the National Register, was reviewed by Planning Staff and found to be consistent with the Secretary of Interior Standards, and received ASX approval.</p>

## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
O.3. Archaeological resources map.	<p>The Stanford archaeologist provided draft maps to the County Planning Office in March 2001 and a revision in 2014. These maps show the locations of all known prehistoric and historic archaeological resources in the unincorporated Santa Clara County portion of Stanford land. County and Stanford staffs will continue to work on revision and updates to these maps so they can be utilized by County staff to identify all known cultural resource site boundaries on Stanford land within the County's jurisdiction. All maps and updates will be maintained as confidential records.</p> <p>A cultural resources assessment was performed by state and federal agencies reviewing the frog ponds project. The old Page Mill Road quarries were found to be ineligible for listing on the California Register.</p>
O.4. Required actions if fossilized shell or bone is uncovered during earth-disturbing activities.	All projects adjacent to known prehistoric and historic archaeological resources were monitored during construction. No fossilized shell or bone was uncovered during 2000 GUP construction activities.
<b>P. Public Services and Utilities</b>	
P.1. Law Enforcement Agreement.	<p>"Memorandum of Understanding Regarding Police Services Between Santa Clara County and Stanford University" was signed February 6, 2001, and signed again in May and June of 2007.</p> <p>Per the GUP Condition, Stanford is providing funding for the Stanford Police Department to maintain 32 full-time sworn police officers (one officer per 1,000 daytime population). There was no decrease in the level of police services during the reporting period.</p>
P.2. Funding of Fire Protection Services.	The City of Palo Alto assesses the city's fire protection needs on an annual basis and adopts a yearly budget for fire protection services. As part of this process, the City identifies Stanford's share of this budget, and Stanford pays its annual allotment. Stanford and the Palo Alto Fire Department have executed an agreement for continued service.
P.3. Fire protection response times.	The Palo Alto Fire Department notified the County in May 2015 that it has experienced lengthened response times as a result of campus construction. Per Condition P.3 Stanford is investigating whether alternate routes would address the Fire Department's concerns. To date the Palo Alto Fire Department has not indicated that the increased response times are unacceptable. Stanford and the Palo Alto Fire Department have executed an agreement for continued service.
P.4. Water conservation and recycling master plan.	Stanford has performed effective conservation outreach and education, as evidenced by County staff

## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
	discussions with campus facility managers. Stanford also has undertaken numerous water conservation projects, including installation of water misers, toilet retrofits, low flow jet spray nozzles, and Maxicom controls. The County continues to monitor Stanford implementation of the approved master plan as a measure of compliance with this condition. The County consults with the SCVWD to determine compliance. The SCVWD assessment is that Stanford appears to be implementing aggressive water conservation measures. The University has completed the plan and it was approved in 2008.
P.5. Annual daily average water use.	The allowed average daily water allocation from the San Francisco Water Department is 3.033 million gallons per day (mgd). Stanford's average campus domestic water use for the 2018-19 year was 1.43 mgd.
P.6. Information on wastewater capacity and generation.	Stanford submitted project-specific wastewater capacity information as necessary with ASA application materials.
P.7. Palo Alto Unified School District school impact fees.	Stanford paid school impact fees for all applicable building permits.
P.8. Community Services Study.	No study was required during this reporting year.
<b>Q. Air Quality</b>	
Q.1. Compliance with Bay Area Air Quality Management District (BAAQMD) measures for construction activities.	Grading activities associated with 2000 GUP projects that commenced during the reporting period complied with the BAAQMD control measures incorporated into the ASA conditions of approval.
Q.2. Maintenance of equipment for construction activities.	Stanford requires all construction contractors to properly maintain equipment.
Q.3. Conduct a risk screening analysis and obtain BAAQMD permit for building projects containing more than 25,000 square feet of laboratory space and 50 fume hoods. <sup>1</sup>	All approved projects were required to comply with BAAQMD's permitting, control measures, and recommendations, as appropriate. The ChEM-H & SNI project was evaluated according to BAAQMD regulations, and BAAQMD permits were not required.
<b>R. Noise</b>	
R.1.a-e Compliance with County Noise Ordinance during construction activities of each building project.	Construction activities associated with 2000 GUP projects complied with the County Noise Ordinance and incorporated noise reduction measures as required by ASA conditions of approval.
R.2. Limits on construction hours.	Construction activities associated with 2000 GUP projects were limited to construction hours as specified by the County Noise Ordinance.

<sup>1</sup> Note: Q.3 has been confirmed to match BAAQMD regulations, which requires both triggers in order to do risk screening.

## Appendix B

# GUP Conditions and Compliance Activities

GUP Condition	Stanford Compliance
	Construction sites within 150 feet of the City of Palo Alto are required to follow construction hours set by the City's noise ordinance.
R.3. Operational noise reduction measures.	ASA-approved building projects incorporated all county-specified noise reduction measures (listed in Section D of the MMRP) and complied with the County Noise Ordinance.
R.4. Fireworks displays to be limited to no more than two events per calendar year.	Two fireworks displays at events per calendar year are permitted under the GUP. All fireworks displays require an entertainment event license from the County's Planning Division. From September 1, 2017 through August 31, 2018, the Spring Baseball game and the Earthquakes Soccer game received permits. From September 1, 2018 through August 31, 2019, the Spring Baseball game and the San Jose Earthquakes Game received permits.
R.5. Maintenance of hotline for noise complaints.	<p>Stanford continues to meet the GUP condition by operating the noise hotline at (650) 724-4900, which was established to log complaints related to outdoor special events and high impact events on campus. Stanford continues to use this hotline to record concerns about noise disruptions and complaints on campus. In FY 17, a change was made in the hotline structure in order to provide callers the option to connect to Stanford Public Safety dispatch at (650) 329-2413 for timely action regarding the complaint, or the caller can log a noise complaint with the operator mail box.</p> <p>Stanford reported that three noise complaints were received during the AR 19 reporting period to the noise hotline, regarding event noise, noise due to a temporary roadway condition (metal plate), and a noise within an academic building on-campus.</p> <p>Stanford continues to work with different types of residential communities to maintain acceptable levels of noise and strengthen communications between campus community members.</p>
<b>S. Additional Conditions</b>	
S.1. Acceptance of Conditions of Approval.	See Annual Report 1.

## **Appendix C**

### **Cumulative Projects**

## Appendix C

### Cumulative Projects

Completed building projects under the GUP cap, housing projects, parking, non-GUP building projects and grading projects are tracked in Appendix C. A map and table are provided for each category to illustrate the project, its location, its square footage/housing units/parking spaces counted toward the GUP cap, and in which annual report period the project was completed. Each table provides a cumulative total of square footage, housing, or parking to date. A table also provides a cumulative total of non-GUP building projects. Additional backup data is kept on file by Stanford and the County.

Section II of this annual report provides brief descriptions of each project on which there was activity during the current reporting year. Projects listed in Appendix C that were completed in prior years are not reported in the body of the Annual Report. Detailed information on these projects may be found in previous Annual Reports.

## Appendix C

### Cumulative Projects

<b>KEY TO MAP C-1</b> <b>ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19</b> <b>CUMULATIVE BUILDING PROJECTS THAT AFFECT GUP BUILDING AREA CAP</b>				
<b>Fiscal Year</b>	<b>Map No.*</b>	<b>Project</b>	<b>Built Area (sq. ft.)</b>	<b>Net Addition to GUP Building Cap</b>
Annual Report 1 (2000-01)	N/A	None	N/A	0
Annual Report 2 (2001-02)	1	Student Services	20,000	22,790
		Demo Bridge Building	(-2,752)	
		Band Trailer	4,320	
		Demo existing Band Trailer	(-2,160)	
		Rugby Pavilion	3,382	
Annual Report 3 (2002-03)	2	Carnegie Global Ecology Center	18,164	32,023
		Demolish Carnegie Greenhouses	(-6,161)	
	3	Lucas Center Expansion	20,600	
		Electronics Communications Hub-West	1,500	
		Demolition of Ortho Modular	(-2,080)	
		SoM Trailer Replacement	0	
		Galvez Modular Re-Permit	0	
Annual Report 4 (2003-2004)	4	Maples Pavilion Addition	18,298	92,915
		Demolish Maples Ticket Booth	(-179)	
	5	Arrillaga Family Recreation Center	74,796	
Annual Report 5 (2004-2005)	6	Varian 2	63,869	39,763
		Building 500	3,254	
		Wilbur Modular Ext.	(-27,360)	
Annual Report 6 (2005-2006)	7	Environment and Energy Building	164,087	116,237
		GP-B Modular Demolition	(-8,640)	
		Varian 2 (sq.ft. adjustment from AR 5)	8,305	
	8	HEPL Demolition	(-71,425)	
		Engineering Shed	(-929)	
		Galvez Too	(-4,320)	
	9	Football Stadium Renovations	33,050	
		Munger House Relocations	906	
		Avery Aquatic	1,445	
		Band Trailer	(-4,320)	
		Guard Shelter	42	
		579 Alvarado (Humanities Annex)	(-3,258)	
		Barnum Family Center	2,337	
		Brick Barn	4,690	
		Knoll Trailer A	(-2,912)	
		Knoll Trailer B	(-2,821)	
Annual Report 7 (2006-2007)		None	N/A	0
Annual Report 8 (2007-2008)	10	Lorry I. Lokey Stem Cell Research Building (SIM 1)	198,734	323,264
	11	Li Ka Shing Center for Learning and Knowledge (LKSC)	104,000	
		Demolish Fairchild Auditorium	(14,600)	
		Demolish Welch Road Modulares	(4,030)	
	12	Center for Nanoscale Science and Technology	99,297	
		Demolish Ginzton	(69,714)	



## Appendix C

### Cumulative Projects

<b>KEY TO MAP C-1</b> <b>ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19</b> <b>CUMULATIVE BUILDING PROJECTS THAT AFFECT GUP BUILDING AREA CAP</b>				
<b>Fiscal Year</b>	<b>Map No.*</b>	<b>Project</b>	<b>Built Area (sq. ft.)</b>	<b>Net Addition to GUP Building Cap</b>
Annual Report 8 (2007-2008) continued	13	Jen-Hsun Huang School of Engineering Center	125,639	
		Demolish Terman Engineering	(148,818)	
		Lorry I. Lokey (Stanford Daily) Building	4,783	
		Demolish Storke Building	(9,040)	
		Li Ka Shing Center for Learning and Knowledge - Connective Elements	5,890	
		Peterson Building Renovation	(661)	
	14	John A. and Cynthia Fry Gunn SIEPR Building	31,784	
Annual Report 9 (2008-2009)	15	Knight Management Center	331,093	72,776
		Demolish GSB South	(167,371)	
		Demolish Serra Complex	(84,000)	
		Demolish Kresge Auditorium	(13,042)	
		Cobb Track Bleacher addition	3,950	
		Arrillaga Gymnasium and Weight Room	19,951	
		Site 515 Demolition	(1,540)	
		Volkswagen Automotive Innovation Lab	8,000	
		Oak Road Restrooms	499	
		Golf Practice Storage Trailer	432	
		Cubberley Seismic Project	(3,654)	
		Press Building Demolition	(14,303)	
		Recalculation of sq.ft. with Annual Reports 1 through 8	(7,239)	
Annual Report 10 (2009-2010)	16	Neukom Building	61,014	126,676
	17	Bing Concert Hall	78,350	
		DAPER Corps Yard Demolition	(12,688)	
Annual Report 11 (2010-2011)		Braun Music Center	167	174,723
		Bing Concert Hall adjustment	7,185	
	18	Retention of GSB South	167,371	
Annual Report 12 (2011-2012)	19	Arrillaga Outdoor Education and Recreation Center	75,000	223,725
	20	Bioengineering and Chemical Engineering	196,172	
	21	Satellite Research Animal Facility	20,507	
		Anatomy demolition	(66,579)	
		Cagan Soccer locker rooms	3,345	
		Cypress Annex demolition	(960)	
		Quonset Hut demolition	(3,760)	
Annual Report 13 (2012-2013)		Ford Center Addition (from AR 8)	8,710	165,092
	22	Arrillaga Family Sports Center Addition	27,709	
	23	Anderson Collection at Stanford	30,279	
	24	Replacement Central Energy Facility	14,715	
		Grounds trailer demolition	(722)	
	25	McMurtry Art - Art History	84,239	

## Appendix C

### Cumulative Projects

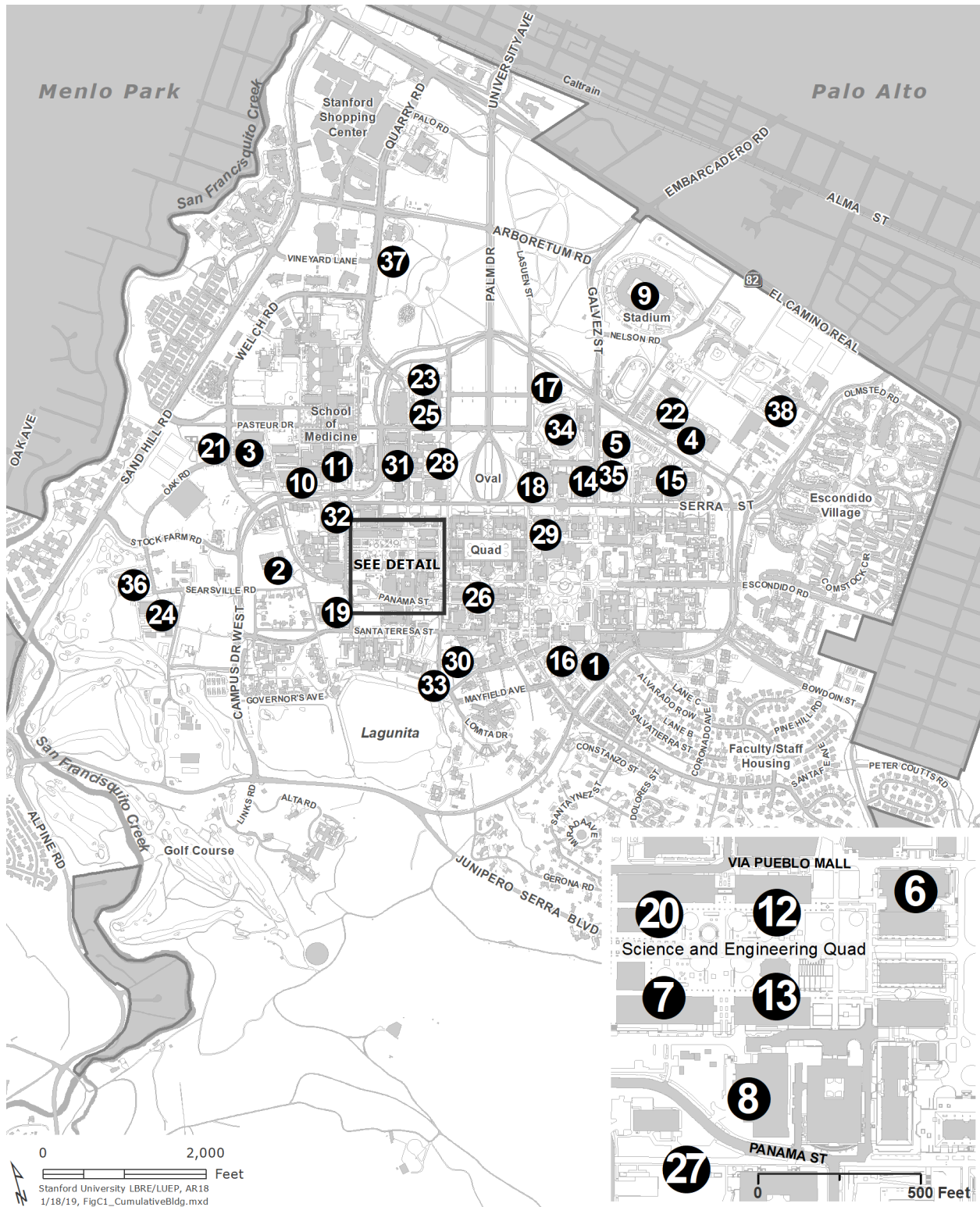
<b>KEY TO MAP C-1</b> <b>ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19</b> <b>CUMULATIVE BUILDING PROJECTS THAT AFFECT GUP BUILDING AREA CAP</b>				
<b>Fiscal Year</b>	<b>Map No.*</b>	<b>Project</b>	<b>Built Area (sq. ft.)</b>	<b>Net Addition to GUP Building Cap</b>
		New Field Hockey Bleachers	2,397	
		Windhover Contemplative Center	3,928	
		Encina Modular Demolition	(8,400)	
		520/524 Renovation	2,237	
Annual Report 14 (2013-2014)		Northwest Data Center and Communications Hub	3,130	52,735
	26	408 Panama Mall	56,790	
		Educational Farm	864	
		Roble Gym Renovation	544	
		Field Conservation Facility	2,842	
	27	Demolition of Godzilla Trailer	(11,435)	
Annual Report 15 (2014-2015)	28	Science Teaching & Learning Center – Old Chem	68,151	(45,179)
		Sunken Diamond New Entry/Locker Room Expansion	3,410	
		Cagan Soccer Field Bleacher Lockers	2,658	
		Maples Pavilion Addition	1,135	
		Softball Field House	2,618	
		Football Stadium New Locker Room	8,966	
		Siebel Varsity Golf Training Complex	3,431	
		Demolish golf storage trailer	(432)	
		Demolition of old Field Conservation Facility	(2,821)	
		Meyer Library Demolition	(124,710)	
		Lasuen Restrooms	1,023	
		Demolition of Central Energy Facility	(8,715)	
		Hogan Lab Renovation Project	107	
Annual Report 16 (2015-2016)	29	David and Joan Traitel Building, Hoover Institution	50,340	5,092
		Demolition of Cummings Art Building	(51,024)	
		Demolition of HEPL Powerhouse	(3,684)	
		Regional Loading Dock Expansion (loading dock and café) <sup>3</sup>	2,366	
		Demolition of Stauffer III	(19,611)	
		Demolition of Gazebo II	(1,017)	
		Earth Sciences Courtyard Infill	2,586	
	30	Kingscote Gardens Renovation	20,298	
	31	Bass Biology Building	120,337	
		Demolition of Herrin Hall	(35,944)	
		Demolition of Herrin Labs	(78,047)	
		Demolition of Campus Gas Station	(1,508)	
Annual Report 17 (2016-2017)		Golf Learning Center	295	215,061
	32	ChEM-H & SNI <sup>3</sup>	210,940	
		Home of Champions	2,440	
		Educational Farm Huffington Barn	1,263	
		Organic Chem demolition	(14,270)	

## Appendix C

### Cumulative Projects

<b>KEY TO MAP C-1</b> <b>ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19</b> <b>CUMULATIVE BUILDING PROJECTS THAT AFFECT GUP BUILDING AREA CAP</b>				
<b>Fiscal Year</b>	<b>Map No.*</b>	<b>Project</b>	<b>Built Area (sq. ft.)</b>	<b>Net Addition to GUP Building Cap</b>
	33	Denning House <sup>3</sup>	16,471	
	34	Frost Amphitheater renovations	9,707	
		Bonair Huts for East Campus Utilities	(11,785)	
Annual Report 18 (2017-2018)		Golf 10 <sup>th</sup> Tee restroom	142	208,355
		Demolition of storage shed	(199)	
		CCSC Child Care Center <sup>4</sup>	13,847	
		Demolition of BKLK	(4,846)	
		Demolition of existing CCSC	(6,099)	
		Demolition of Rainbow	(4,775)	
		Demolition of Pepper Tree	(1,024)	
	35	Academic Advising and Rowing Center	23,055	
	36	Environmental Health and Safety Expansion	14,087	
		Encina Commons (net demolition)	(4,121)	
	37	Center for Academic Medicine	153,821	
	38	Public Safety Building	27,196	
		Demolition of Public Safety Annex	(2,729)	
Annual Report 19 (2018-2019)		District Work Center: Panama site	3,926	12,418
		District Work Center: Roth site	3,926	
		District Work Center: Memorial site	3,926	
		Softball Stadium Improvements	120	
		Stock Farm Greenhouses (construction)	8,352	
		Demolition of Stock Farm Greenhouses	(7,832)	
<b>Cumulative Net Contribution toward 2000 GUP Building Cap:</b>				<b>1,838,466</b>
<p>1. Projects included at the time of building permit issuance.</p> <p>2. Cumulative total includes the adjusted results from the recalculations for buildings and demolitions from previous annual reports under the 2000 GUP. Specific adjustments are not reflected in this table at this time.</p> <p>3. AR 18 includes a correction to the square footages of two projects reported in AR 16 and AR 17. The Regional Loading Dock project (AR 16) was revised to include an additional 82 sf due to a minor design change during construction. The Denning House project (AR17) was revised to include an additional 20 sf, due to a revision in calculation. AR 19 includes a correction to the square footage of the ChEM-H &amp; SNI project from AR 17, which was revised to remove 6 sf due to a calculation correction. These revisions are also noted in Table 5 of the Body.</p> <p>4. The CCSC Child Care Center also took childcare square footage, please see the Key to Map C-5 for more information.</p> <p>*Map C-1 illustrates the locations of building projects 10,000 sq. ft. or greater. Projects smaller than 10,000 sq. ft. are not shown on Map C-1.</p>				

# Appendix C Cumulative Projects



MAP C-1  
CUMULATIVE BUILDING PROJECTS THAT AFFECT BUILDING AREA CAP  
(GREATER THAN 10,000GSF)

# Appendix C

## Cumulative Projects

<b>KEY TO MAP C-2</b> <b>ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19</b> <b>CUMULATIVE HOUSING PROJECTS</b>						
<b>Fiscal Year</b>	<b>Map No.*</b>	<b>Project</b>	<b>Housing Units</b>	<b>Square Footage</b>	<b>Annual Units</b>	<b>RHNA** Units</b>
Annual Report 1 (2000-01)	1	Mirrielees – Phase I	102	0	102	
Annual Report 2 (2001-02)	2	Escondido Village Studios 5 & 6	281	139,258	331	281
	3	Mirrielees – Phase II	50	0		
		Branner Student Housing Kitchen	0	1,596		
Annual Report 3 (2002-03)	N/A	None	N/A	N/A	0	
Annual Report 4 (2003-04)	N/A	None	N/A	N/A	0	
Annual Report 5 (2004-05)	N/A	None	N/A	N/A	0	
Annual Report 6 (2005-2006)		Drell House (conversion to academic)	-1	(-906)	(-8)	-1
		579 Alvarado	1	3,258		1
	4	Casa Zapata RF Unit Replacement	-8	(-691)		1
Annual Report 7 (2006-2007)		None	N/A	N/A	0	
Annual Report 8 (2007-2008)	5	Munger Graduate Housing	349	267,683 <sup>1</sup>	349	209
Annual Report 9 (2008-2009)	5	Munger Graduate Housing	251	192,517 <sup>1</sup>	514	147
		Schwab Dining Storage	N/A	464		
	6	Blackwelder/Quillen Dorms	130	N/A		
	7	Crothers Renovation	133	N/A		1
Annual Report 10 (2009-2010)	8	717 Dolores	4	0	70	
	9	Crothers	2	0		
	10	Olmsted Terrace Faculty Housing	39	103,127		39
	11	Olmsted Staff Rental Housing	25	53,831		25
		Arrillaga Family Dining Commons	N/A	28,260		
Annual Report 11 (2010-2011)	6	Quillen Dorm Phase 2	90	N/A	90	
Annual Report 12 (2011-2012)	12	Hammar skjold renovation	7	1,730	9	
		Haus Mitt renovation	1	210		
		Phi Sigma renovation	1	420		
Annual Report 13 (2012-2013)		Grove House Renovation	N/A	500	427	
		Columbae Renovation	N/A	950		
		Slavianskii Dom Renovation	N/A	961		

## Appendix C

### Cumulative Projects

<b>KEY TO MAP C-2</b> <b>ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19</b> <b>CUMULATIVE HOUSING PROJECTS</b>						
Fiscal Year	Map No.*	Project	Housing Units	Square Footage	Annual Units	RHNA** Units
		Muwekma-Tah-Ruk Renovation	N/A	450		
	13	Ujamaa	2	N/A		
	14	McFarland	63	N/A		
		EV summer renovation	(2)	N/A		
	15	Toyonito Demolition	N/A	(13,298)		
	16	Comstock graduate housing demolition	(74)	(30,547)		(40)
	16	Comstock Graduate Housing	438	256,258		274
Annual Report 14 (2013-2014)		Mars Renovation	1	273	2	
		Sigma Nu Renovation	N/A	628		
		Roth Renovation	1	508		
		Durand Renovation	N/A	675		
Annual Report 15 (2014-2015)	17	Manzanita Park Residence Hall	129	41,805	133	4
	18	Phi Kappa Psi	2	505		
	19	Kairos	2	979		
Annual Report 16 (2015-2016)	20	717 Dolores	2	928	385	
	21	La Maison Francaise	(2)	871		
	22	GSB Residences	200	124,670		101
	23	New Residences at Lagunita Court	218	74,300		2
	24	Kingscote Gardens Renovation	(33)	(20,298)		(33)
Annual Report 17 (2016-2017)		Lagunita-Eucalipto	1	0	1	
Annual Report 18 (2017-2018)		Muwekma student bedroom conversion	(2)	0	(2)	
Annual Report 19 (2018-2019)		None	0	0	0	
<b>Cumulative Net Contribution toward 2000 GUP Housing Units</b>			<b>2,403</b>	<b>1,231,875</b>	<b>2,403</b>	<b>1,011</b>

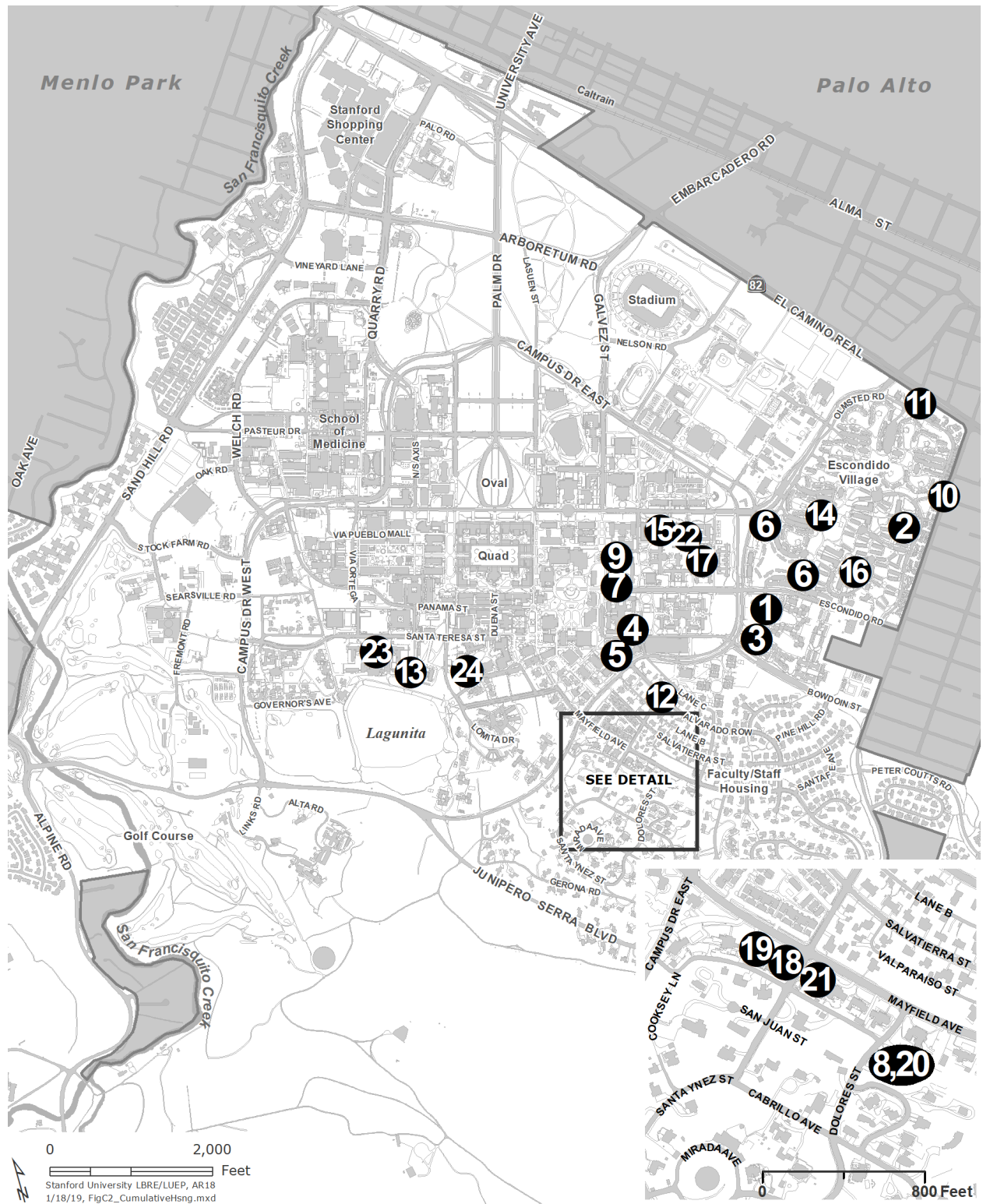
\*Map C-2 illustrates the locations of housing projects that add or remove more than one unit, and have been framed. Individual housing projects are not shown on Map C-2.

\*\*Housing units developed by Stanford are not required to be deed restricted affordable housing units.

1. Based on an average of 767 square feet per unit constructed for the Munger Graduate Student Housing project.



# Appendix C Cumulative Projects



MAP C-2  
CUMULATIVE HOUSING PROJECTS



# Appendix C

## Cumulative Projects

<b>KEY TO MAP C-3</b> <b>ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19</b> <b>CUMULATIVE PARKING PROJECTS</b>				
Fiscal Year	Map No.*	Project	Parking Spaces	Spaces Subtotal
Annual Report 1 (2000-01)	1	Removal of Arguello Lot	(55)	(29)
	2	Oak Road Angle Parking	52	
		Oak Road Parallel Parking	12	
		Student Services Building	(38)	
Annual Report 2 (2001-02)		Band Modular Project	23	31
	3	Parking Structure V	97	
	4	Oak Road (Angle to Parallel)	(66)	
		Closure of Anatomy Lot	(28)	
Annual Report 3 (2002-03)		Maples Lot	5	394
		PS-1 Restriping/ADA	(29)	
		Maples Lot	21	
	5	Escondido Village Expansion	212	
	6	Serra Street Reconstruction	50	
		Arguello Lot	37	
		Mirrieles Lot Reconfiguration	(23)	
	7	Cowell Lot Expansion	154	
		Carnegie Global Center Parking	17	
Annual Report 4 (2003-2004)		Misc. reconstruction/restripe/ADA	(45)	(91)
		Anatomy Lot Reopening	26	
		Encina Gym/ Arrillaga Rec Center Construction	(17)	
		Ventura Lot Closing-CSLI/EPGY Annex Construction	(21)	
		Housing Maintenance Yard Project	(25)	
		Graduate Comm. Center Parking Lot	(35)	
		Misc. reconstruction/restripe/ADA	(19)	
Annual Report 5 (2004-2005)		Stock Farm Bus Reconfiguration	(47)	(159)
		Dudley & Angell Recount	(20)	
		Mayfield 3 Recount	(23)	
		Misc. reconstruction/restripe/ADA	(69)	
Annual Report 6 (2005-2006)	8	Ginzton Lot Closure (for Environment & Energy construction)	(211)	(659)
		Humanities Lot (for Old Union Surge Trailers)	(20)	
		Law School Lot/ House Relocation/ Prep for Munger construction	(26)	
	9	Mariposa Lot/ Munger Law School/ House Relocation/ Columbae Renovation	(115)	
	10	Stock Farm Bus Reconfiguration	(64)	
	11	Tresidder Lot (for House Relocation)	(138)	
		Dudley & Angell/ Olmsted Road	24	
	12	Eating Clubs Lot (for Old Union Surge)	(87)	
	13	Stern Lot	(64)	
	14	Wilbur-Stern Temporary Lot	108	
	15	Wilbur Modulares Removal	131	
	16	Wilbur South Lot (for PS 6)	(128)	
		Misc. reconstruction/restripe/ADA	(69)	

# Appendix C

## Cumulative Projects

<b>KEY TO MAP C-3</b> <b>ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19</b> <b>CUMULATIVE PARKING PROJECTS</b>				
Fiscal Year	Map No.*	Project	Parking Spaces	Spaces Subtotal
Annual Report 7 (2006-2007)	17	Li Ka Shing Center for Learning and Knowledge displacement	(505)	(798)
		Tresidder – Post House Relocation project	34	
Annual Report 8 (2007-2008)	18	Munger Displacement	(369)	93
		Misc. Reconstruction/restripe/ADA	42	
		Dean's Lawn reconfiguraton	(27)	
	19	Beckman/MSOB Closure for Li Ka Shing Center for Learning and Knowledge construction	(206)	
	20	Memorial Lot closure for John A. and Cynthia Fry Gunn SIEPR Building	(81)	
	21	Serra closure for Knight Management Center	(712)	
	22	Maples closure for Athletics Practice Gym	(75)	
	23	Parking Structure 6	1,185	
		Misc. Reconstruction/restripe/ADA	9	
Annual Report 9 (2008-2009)	24	Oak Road Parking Lot	197	(313)
	25	Arguello and 651 Serra Closure	(267)	
		Track House	(46)	
	26	Barnes & Abrams For Olmsted Road Staff Rental Housing	(96)	
		Dudley & Angell for Stanford Terrace Faculty Homes	(42)	
		Miscellaneous reconstruction/restripe/ADA	(59)	
Annual Report 10 (2009-2010)	27	Beckman Lot reopening	66	(56)
	28	Toyon lot closure for Arrillaga Family Dining Commons	(163)	
		Miscellaneous reconstruction/restripe/ADA	41	
Annual Report 11 (2010-2011)		Cypress lot closure for BioE/ChemE	(44)	810
		Stock Farm West reconfiguration for bus parking	(20)	
		Roth Way reconfiguration for bus loading	(36)	
	29	Parking Structure 7	858	
		Dudley & Angell	49	
		Miscellaneous reconstruction/restripe/ADA	3	
Annual Report 12 (2011-2012)		Lasuen@Arboretum – Bing and Galvez	39	(236)
	30	Anatomy-McMurty Art - Anderson	(95)	
	31	L-17 (Stockfarm South) – Temp Child Care	(75)	
		L-25 (Panama) – West Campus Rec Center	(23)	
		Lasuen – Bing Concert Hall	(26)	
		L-73 (Stern Annex) – East Campus Rec	(37)	
		Miscellaneous reconstruction/restripe/ADA	(19)	
Annual Report 13 (2012-2013)	32	L-20 (Stock Farm West) - SESI Project laydown	(202)	(68)
		L-25 (Panama) - West Campus Recreation Center	28	
	33	L-96 (Galvez) - Galvez Event Lot completion	423	
	34	Comstock - Comstock Graduate Housing Project	(84)	
		L-65 (Cowell @ Bowdoin) - Contractor laydown	(49)	
	35	L-31 (Roble) - Windhover Project	(69)	
	36	L-01 (Rectangle) - Parking Structure 9 construc. yard	(86)	
		Miscellaneous reconstruction/restripe/ADA	(29)	

## Appendix C

### Cumulative Projects

<b>KEY TO MAP C-3</b> <b>ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19</b> <b>CUMULATIVE PARKING PROJECTS</b>				
Fiscal Year	Map No.*	Project	Parking Spaces	Spaces Subtotal
Annual Report 14 (2013-2014)	37	Dean's Lawn for SHC Steam Plant	(106)	526
		Cypress lot reopening	40	
		Panama Lot for Roble Garage	(27)	
	38	Lomita at Rodin	(72)	
	36	Rectangle parking Lot reopening	75	
	39	Searsville Lot net loss on Searsville Road	592	
		Miscellaneous reconstruction/restripe/ADA	24	
Annual Report 15 (2014-2015)	40	Lasuen @ Arboretum reconfiguration and partial closure	(168)	(695)
		Gates Lot closure for Bio Quad construction	(32)	
	41	L-20 (Stock Farm West) – removal of laydown, restoration of parking	117	
		Roth Way – Tour bus reconfiguration	32	
	42	L-79, L-81 (GSB Highland Hall project)	(108)	
	43	L-29, L-31, Santa Teresa @ Lagunita and Santa Teresa @ Sterling (New Residences at Lagunita Court and Roble Field projects)	(395)	
	44	L-22 (Searsville lot) – Construction laydown	(126)	
Annual Report 16 (2015-2016)		Miscellaneous reconstruction/restripe/ADA	(15)	11
	45	L-09 (Deans Lawn and Evening Shift)	70	
		L-25 (Panama) – Via Ortega South roadway construction	(43)	
		Galvez Roundabout and West Burnham Parking lot reconfigurations	(23)	
		L-79 (GSB Residences) – parking reconfiguration	21	
	43**	L-29 and L-31 (at Lagunita Court) – reconfiguration	117	
	44**	L-22 (Searsville lot) – construction laydown converted back to permit parking	126	
		Miscellaneous reconstruction/restripe/recount/ADA	(60)	
		Correction – removing Marguerite, tour bus, charter bus, and authorized oversize vehicle parking and staging spaces from L-20, Oak Road, and Arboretum	(108)	
		Correction - removing spaces at L-1A and Hoover Pavilion Garage (in Palo Alto)	(61)	
		Correction - removing Faculty/staff-only parking spaces from residential zoned areas	(28)	
Annual Report 17 (2016-2017)	46	Parking Structure 10	1160	177
	47	L-21 (Jordan Quad) ChEM-H & SNI project	(157)	
		L-25 (Panama)	35	
		Kingscote	23	
	48	L-35 (Boat House) Denning House project	(60)	
		L-31 (Roble Lot)	(22)	
	49	Parking removed due to Escondido Village Graduate Residences project	Total (787)	
		Blackwelder	(186)	
		Hoskins	(144)	

## Appendix C

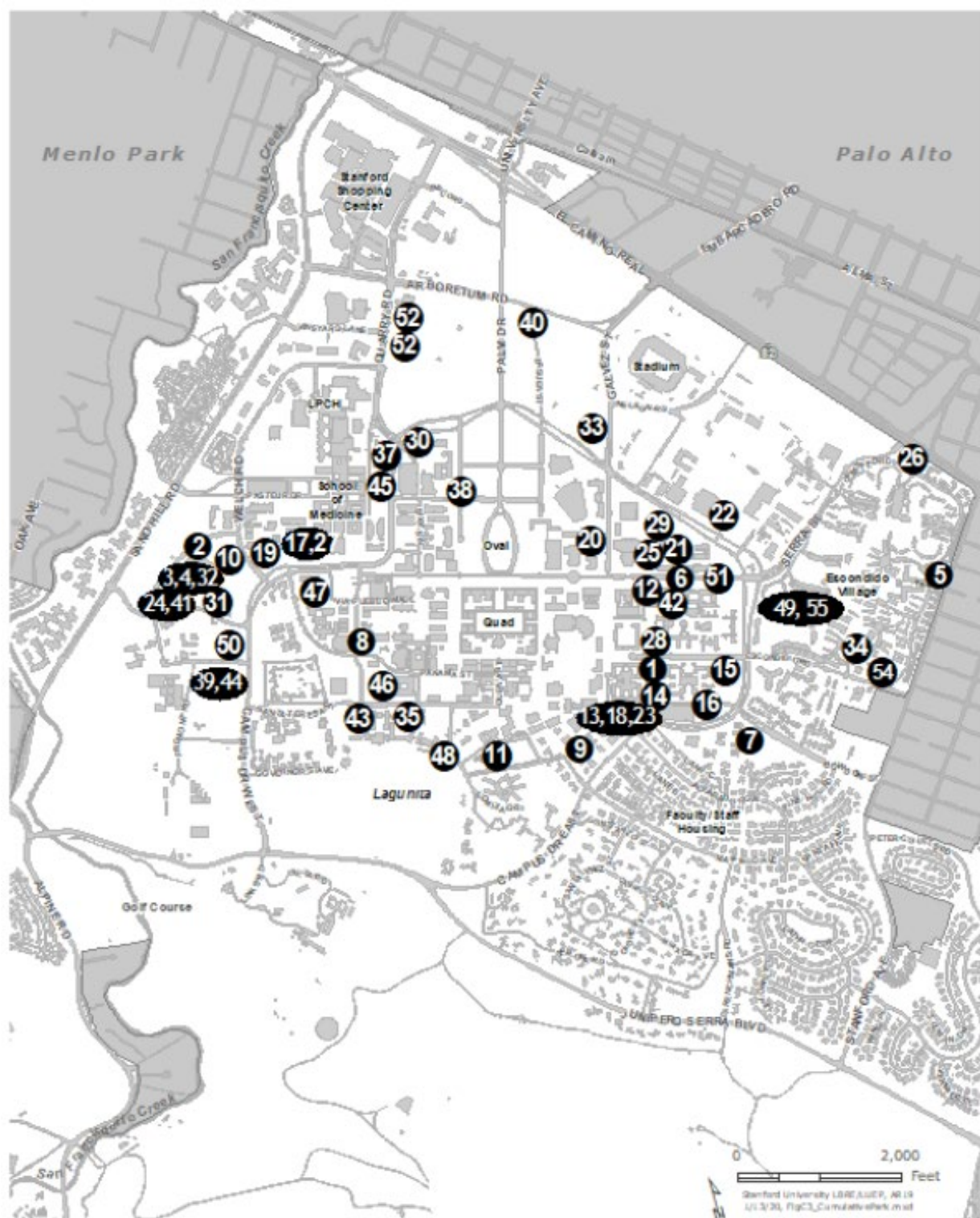
### Cumulative Projects

<b>KEY TO MAP C-3</b> <b>ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19</b> <b>CUMULATIVE PARKING PROJECTS</b>				
Fiscal Year	Map No.*	Project	Parking Spaces	Spaces Subtotal
		Jenkins	(106)	
		McFarland	(185)	
		Quillen	(95)	
		Thoburn	(71)	
		Miscellaneous reconstruction/restripe/recount/ADA	(15)	
Annual Report 18 (2017-2018)	50	EH&S Facility Expansion – Partial lot closure during construction	(49)	(667)
	51	Serra Mall closure (Serra at Schwab)	(52)	
		L-65 (Cowell Bowdoin) – Removal of construction trailers	25	
	52	L-2 (Quarry Psychiatry) – Partial closure due to Center for Academic Medicine construction	(52)	
	53	L-3 (Quarry South) – Closure due to Center for Academic Medicine construction	(464)	
		Miscellaneous reconstruction/restripe/recount/ADA across campus	(75)	
Annual Report 19 (2018-2019)	54	Comstock Circle parking changes and East Campus Childcare Center project completion	54	(29)
		EH&S Facility Expansion – Reopening of L-19 after project completion	23	
		Projects at Bonair Siding displacing parking	(23)	
	55	Parking removed due to Escondido Village Graduate Residences Project - Quillen	(61)	
		Miscellaneous reconstruction/restripe/recount 1 ADA across campus	(22)	
<b>Cumulative Net Contribution toward 2000 GUP Parking Cap:</b>				<b>(1,758)</b>

\* Map C-3 illustrates the locations of parking projects that change the parking inventory by more than 50 spaces.

\*\* Location 43 and 44 in AR 15 are listed again in AR 16 due to significant changes in those parking lots.

## Appendix C Cumulative Projects



MAP C-3  
CUMULATIVE PROJECTS THAT AFFECT PARKING INVENTORY (+/-50 SPACES OR MORE)

# Appendix C

## Cumulative Projects

### KEY TO MAP C-4 ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19 CUMULATIVE GRADING PERMIT PROJECTS

Fiscal Year	Map No.	Project
Annual Report 1 (2000-01)	1	Sandstone Sculpture
Annual Report 2 (2001-02)	2	Lomita Mall
	3	Serra/ECR Detention Basin
	4	Serra Street Reconfiguration
	5	Encina Tennis Courts
Annual Report 3 (2002-03)		None
Annual Report 4 (2003-04)	6	West Campus Storm Detention
	7	CTS Breeding Ponds
	8	Hole #3 Golf Cart Bridge Replacement
Annual Report 5 (2004-2005)	9	Hole #4 Golf Cart Bridge Replacement
	10	Temporary Art in Foothills
	11	Taube Tennis Practice Bleachers
Annual Report 6 (2005-2006)	12	Equestrian Center
	13	Carnegie Grading Permit
Annual Report 7 (2006-2007)		None
Annual Report 8 (2007-2008)		None
Annual Report 9 (2008-2009)	14	Dinkelspiel Stage
Annual Report 10 (2009-2010)		None
Annual Report 11 (2010-2011)		None
Annual Report 12 (2011-2012)	15	Arguello Recreation Field
	16	LPCH Contractor Parking Lot
	17	Page Mill Road Construction Laydown
Annual Report 13(2012-2013)	18	Galvez Parking Lot
	19	Lasuen Street Parking Lot
	20	Acorn Parking Lot
Annual Report 14 (2013-2014)	21	Searsville Parking Lot
Annual Report 15 (2014-2015)	22	Stanford Perimeter Trail
	23	Regional Storm Water Treatment Facility
	24	West Campus Detention Basin
	25	Lomita/Roth Parking Lot & Lomita Road
Annual Report 16 (2015-2016)	26	Galvez and Serra St Parking Lot
	27	Palo Lot (laydown)
	28	Galvez Roundabout
	29	Via Ortega South
Annual Report 17 (2016-2017)	30	Stanford Golf Course Renovation (delayed to AR19)
Annual Report 18 (2017-2018)	31	Schwab Drop-off
Annual Report 19 (2018-2019)	32	Golf Course Grading Abatement
	33	Lagunita Diversion Dam Removal and Creek Restoration
	34	Golf – 10 <sup>th</sup> Tee Improvements
	35	Arboretum Lasuen Grading Abatement

## Appendix C Cumulative Projects

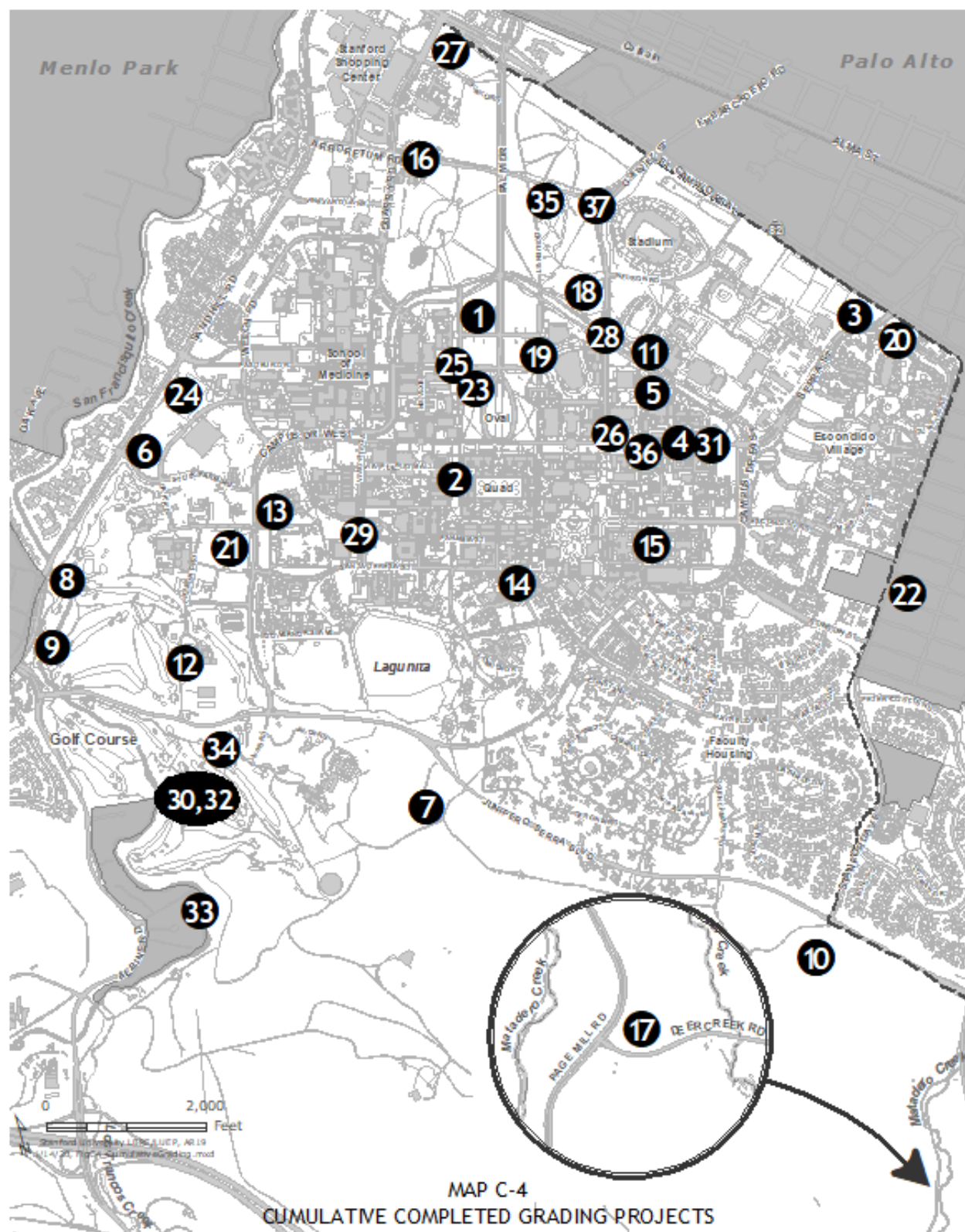
<b>KEY TO MAP C-4 ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19 CUMULATIVE GRADING PERMIT PROJECTS</b>
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	36	Serra Mall at Encina
	37	Galvez Arboretum Roundabout

Note: These are reported at the time of completion. These are grading projects that were not associated with construction of academic or housing square footage.



## Appendix C Cumulative Projects



## Appendix C

### Cumulative Projects

<b>KEY TO MAP C-5</b> <b>ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19</b> <b>CUMULATIVE BUILDING PROJECTS THAT DO NOT AFFECT</b> <b>BUILDING AREA CAP*</b>						
Applicable GUP Condition:				Applicable Category		
				A.2.a	A.2.b	A.3
Fiscal year	Map No.	Project	Size (sq. ft.)	1989 GUP (sq. ft.)	Temporary Surge Space (sq. ft.)	Community Childcare Center (sq. ft.)
Annual Report 1 (2000-01)		None				
Annual Report 2 (2001-02)	1	Lokey Lab	85,063	85,063		
		Demolish Chem Storage	(2,441)	(2,441)		
		Demolish Shocktube Lab for ME	(929)	(929)		
		CCSC Modular Replacement	768			768
Annual Report 3 (2002-03)		None				
Annual Report 4 (2003-2004)		Maples Surge Trailers	2,688		2,688	
	2	Graduate Community Center	12,000			12,000
		CSLI/EPGY	8,270	8,270		
Annual Report 5 (2004-2005)	3	Wilbur Modular Ext.	27,360		27,360	
		Building 500	2,266	2,266		
		Maples Surge	(2,688)		(2,688)	
		Varian Surge	3,050		3,050	
Annual Report 6 (2005-2006)	3	Wilbur Modular Removal	(27,360)		(27,360)	
	4	Old Union – Serra	21,495		21,495	
		Old Union – Lomita	7,680		7,680	
Annual Report 7 (2006 – 2007)		Old Union – Lomita Removed	(7,680)		(7,680)	
		Durand Surge (formally Varian Surge)	3,050			
		Tower House Rehabilitation	3,241			3,241
Annual Report 8 (2007 – 2008)		Black Community Service Center Addition	2,500			2,500

## Appendix C

### Cumulative Projects

<b>KEY TO MAP C-5</b> <b>ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19</b> <b>CUMULATIVE BUILDING PROJECTS THAT DO NOT AFFECT</b> <b>BUILDING AREA CAP*</b>						
Applicable GUP Condition:				Applicable Category		
				A.2.a	A.2.b	A.3
Fiscal year	Map No.	Project	Size (sq. ft.)	1989 GUP (sq. ft.)	Temporary Surge Space (sq. ft.)	Community Childcare Center (sq. ft.)
		GSB Modulares	3,840		3,840	
		SCRA Sports Complex	3,701			3,701
		Demolish old SCRA complex	(2,617)			(2,617)
		Madera Grove Childcare Center (Acorn Building)	8,354			8,354
Annual Report 9 (2008-2009)		Recalculation of AR 1 - 8	197			197
Annual Report 10 (2009-2010)		None				
Annual Report 11 (2010-2011)		Welch Road modulares	4,030		4,030	
		GSB Modular demolition	(3,840)		(3,840)	
		Madera Gove Childcare Center (Mulberry Building)	8,218			8,218
Annual Report 12 (2011-2012)	5	Temporary Child Care Facility	10,560		10,560	
Annual Report 13 (2012-2013)	4	Encina Modulares Trailer demolition (Old Union – Serra)	(21,495)		(21,495)	
		Cowell Lot Construction Trailers	2,584		2,584	
Annual Report 14 (2013-2014)		None				
Annual Report 15 (2014-2015)		Varian Surge (double-counted in AR7)	(3,050)			
		Extension of Temporary Child Care Facility	0 (already counted in AR 12)		0 (already counted in AR 12)	
Annual Report 16 (2015-2016)		Demolition of 315 Campus Dr Modulares (also known as Varian Surge or Durand Surge)	(3,050)		(3,050)	
Annual Report 17 (2016-2017)		1215 Welch Rd Modulares (C, D, E) demolition	(4,030)		(4,030)	
Annual Report 18 (2017-2018)		West Campus Surge Trailers	560		560	
		Removal of Cowell Lot Construction Trailers	(2,584)		(2,584)	

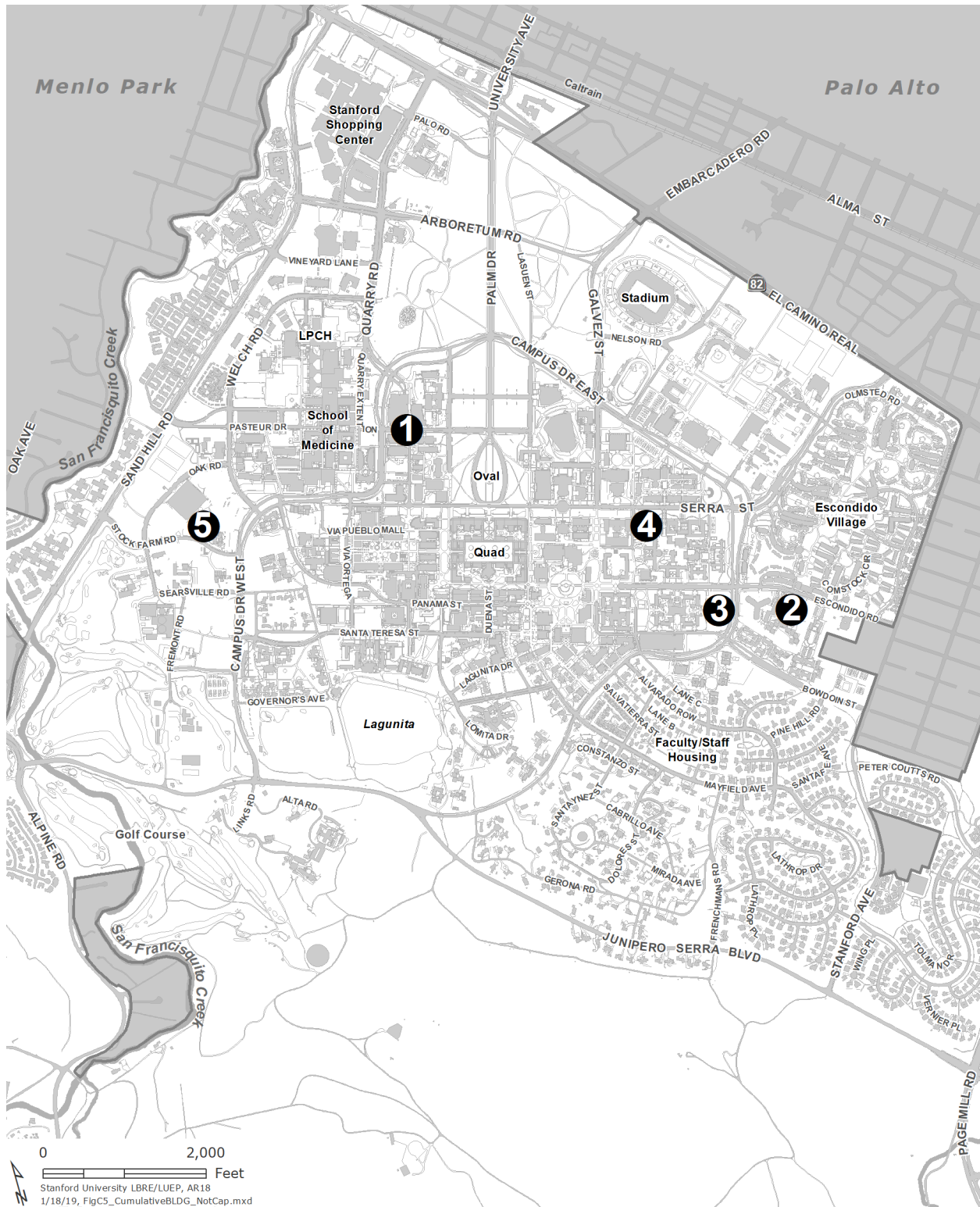
## Appendix C

### Cumulative Projects

**KEY TO MAP C-5  
ANNUAL REPORT 1 THROUGH ANNUAL REPORT 19  
CUMULATIVE BUILDING PROJECTS THAT DO NOT AFFECT  
BUILDING AREA CAP\***

				Applicable Category		
Applicable GUP Condition:				A.2.a	A.2.b	A.3
Fiscal year	Map No.	Project	Size (sq. ft.)	1989 GUP (sq. ft.)	Temporary Surge Space (sq. ft.)	Community Childcare Center (sq. ft.)
		Demolition of Big Kids Little Kids childcare sf portion	(768)			(768)
		CCSC Childcare Project - Use of childcare sf	4,406			4,406
Annual Report 19 (2018-2019)		West Campus Surge Trailers	(560)		(560)	
<b>Cumulative Net Square Feet:</b>			<b>151,409</b>	<b>92,229</b>	<b>10,560</b>	<b>40,000</b>

# Appendix C Cumulative Projects



**MAP C-5**  
**CUMULATIVE BUILDING PROJECTS THAT DO NOT AFFECT BUILDING AREA CAP**  
**(GREATER THAN 10,000GSF)**

**Appendix D**  
**Summary Report of Traffic Monitoring,**  
**2001-2019**



## Appendix D

### Summary of Traffic Monitoring

The following tables summarize Stanford Traffic Monitoring to date. The requirements for establishment of the traffic baseline and performing annual comparisons to the baseline are contained within the December 2000 Stanford Community Plan/General Use Permit (GUP)/Environmental Impact Report (EIR) and within the 2000 Stanford General Use Permit.

#### Methodology for Evaluating Traffic Impacts

The GUP *Condition of Approval G.7* outlined the methodology for gathering baseline counts and monitoring. The process can be summarized as follows:

- Peak hour traffic is counted at least three times per year for a two-week period each time. The three counts shall be averaged to determine the annual traffic level.
- All counts are recorded at the 16 campus entry and exit points, which form a “cordon” around the campus.
- During the count, license plate numbers are recorded for each entering and exiting vehicle to determine the amount of cut-through (and therefore non-campus) traffic.
- Cordon volumes are adjusted for parking lots within the cordon used by the hospital (these volumes are subtracted from the cordon line counts) and parking lots outside the cordon used by the university (these volumes are added to the cordon line counts).
- A peak hour is then established for the campus based on the counts, adjusted for cut-through and parking lot location.

*Condition of Approval G.4* defines the “no net new commute trips” standard as no increase in automobile trips during peak commute times in the peak commute direction, as counted at a defined cordon location around the central campus.

*Condition of Approval G.6* defines the peak commute directions as entering the campus in the morning peak commute period and leaving the campus in the evening commute period. The peak commute period is defined as the one-hour period of time between 7 AM and 9 AM and again between 4 PM and 6 PM with the highest volume of traffic, as defined by the counts. Therefore, the two peak hours are considered to be independent events.

*Condition of Approval G.9* states that the Planning Office shall monitor the cordon count volumes using the procedures described above. If the cordon counts, as modified by trip reduction credits, exceed the baseline volumes as calculated by the procedures outlined above by 1 percent or more for any two out of three consecutive years, mitigation of impacts to intersections identified in the December 2000 Stanford Community Plan/GUP EIR will be required. Since an increase in traffic during the AM peak hour is independent from an increase in traffic during the PM peak hour, an increase in traffic for two out of three years in one peak hour would trigger the additional elements of the monitoring program without a change, or even with a decrease in the other peak hour. Also a significant increase during one year in the AM and a sufficient increase in the PM for the following year would not trigger additional mitigation.



## Appendix D

### Summary of Traffic Monitoring

The 90% Confidence Interval means that average traffic during the 8 weeks (40 weekdays), when the traffic data is collected (for purposes of establishing the baseline), will be within the established average traffic counts 90% of the time. This means traffic data collected will be within the Baseline of 3,319 and Upper Range of 3,319 plus 120 trips for the AM counts and Baseline of 3,446 and Upper Range of 3,446 plus 109 trips for the PM counts 90% of the time if there is no statistically significant change in the average traffic. In other words, when the traffic study is conducted under relatively the same traffic conditions, nine times out of ten, the final number will be within the established 90% confidence interval range.

The Table below displays these numbers as formally adopted in 2001 for the 2000 GUP thresholds.

#### 2001 Traffic Baseline and Thresholds

Data Points	Method of Calculation	AM Peak Hour	PM Peak Hour
<b>Baseline (A)</b>	Counted	3,319	3,446
Standard Deviation based on 90% Confidence Interval (B)	Calculated based on daily fluctuations	120	109
<b>Upper Range of Baseline (C)</b>	Number (calculated) $C = A + B$	3,439	3,555
<b>1 % Trigger</b> - number of trips allowed before penalty (D)	Number (calculated) $(D = 1\% \times C)$	35	36
<b>Upper Limit</b> before exceedance taking into account 90% confidence interval with 1% trigger	Calculated $(C+D)$	3,474	3,591

The 1% trigger was determined through negotiations between the County and Stanford in 2000 during the establishment of the GUP traffic standards. 1% trigger is tied to GUP condition G.9 which states that exceeding this trigger for two out of three years would require intersection improvements, as identified in the mitigation measures.

## Appendix D

### Summary of Traffic Monitoring

#### **Monitoring Results**

##### **Annual Report 1 - Year 2001 – Baseline**

The Stanford Traffic Monitoring began in Spring 2001. Monitoring counts are done each calendar year. The 2001 counts serve as the Baseline to which future years are compared.

##### **Annual Report 2 - Year 2002**

Two adjustments were made to the 2002 counts that are summarized in this report. On the basis of results of the 2002 counts, following the adjustments, it was concluded that the counts were below the threshold that would indicate an increase in traffic volumes. Stanford thus was found to be in compliance with the “no net new commute trips” GUP requirement for 2002.

An update to the original 2002 Monitoring Report was issued on October 15, 2003. Following the publication of the July 2003 report, Stanford and the County separately analyzed traffic data for the Stanford Homecoming week. Based on consultation with Stanford and independent analysis of County consultant traffic data, the County determined that data collected for the week of Homecoming should not be included in the comparison data set. The rationale for this decision was that Homecoming had been ongoing for years, was not included in the Baseline counts, and would continue to be an annual event. The County communicated to Stanford that other future “large events” would not be excluded from future counts. The revised analysis substituted the week of October 28, 2002, for the previously counted week of October 14, 2002. The results of this change are noted in the table below as the first revision.

Subsequent to the first adjustment to the 2002 Monitoring Report discussed above, Stanford informed the County that additional Marguerite Shuttle runs had been introduced to campus since the completion of the Baseline counts, and thus counted in the Year 1 (2002) comparison counts. This resulted in an increase of 12 vehicles in each peak hour. County staff determined that these new bus lines should be subtracted from the comparison count. The resultant counts are noted in the table below as the second revision.

##### **Annual Report 3- Year 2003**

The results of the 2003 counts were also below the threshold that would indicate an increase in traffic volumes. Stanford thus was also found to be in compliance with the “no net new commute trips” requirement for 2003.

##### **Annual Report 4- Year 2004**

The results of the 2004 counts were below the threshold that would indicate an increase in traffic volumes for the inbound AM peak hour traffic. However, the 2004 count for the outbound PM peak hour traffic exceeded the threshold by 51 vehicles. On March 2, 2005 Stanford submitted a 2004 Trip Credit Report that was reviewed by Korve Engineering. This report documented a credit of 66 for the increase in the number of bus trips across the cordon points and the number of transit passengers served outside the cordon area in the PM peak hour between the 2001 baseline and 2004. Most of the trip credits claimed are for passengers (primarily Stanford Hospital employees) getting on the shuttle outside the cordon area and traveling to the Palo Alto Caltrain station. Factoring in the trip credit of 66 trips Stanford did not exceed the no net new commute trip standard based on the 2004 Monitoring Program.

## **Appendix D**

### **Summary of Traffic Monitoring**

#### **Annual Report 5 - Year 2005**

The results of the 2005 Monitoring Report concluded that the adjusted AM inbound count totaled 3,383 vehicles. This represented an increase of 64 vehicles, which fell within the 90% confidence interval and did not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,735 vehicles which was an increase of 289 vehicles from the baseline, which is above the 90% confidence interval by 180 vehicles and above the 1% increase trigger by 144 vehicles. Stanford applied for 182 trip credits for the 2005 monitoring period, consistent with the Cordon Count Credit Guidelines.

#### **Annual Report 6 - Year 2006**

The 2006 Monitoring Report concluded that the adjusted AM inbound count totaled 3,048 vehicles. This represented a decrease of 271 vehicles from the baseline and does not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,427 vehicles, which was a decrease of 19 vehicles from the baseline, which is 128 vehicles below the 90 percent confidence interval and 164 vehicles below the 1 percent established trigger. Stanford submitted a 2006 Trip Credit Report showing 223.36 trip credits – this report has been received and confirmed by the County's traffic consultant.

#### **Annual Report 7 - Year 2007**

The 2007 Monitoring Report concluded that the adjusted AM inbound count totaled 3,058 vehicles, which was a decrease of 261 vehicles from the baseline, this decrease falls below the 90 percent confidence interval by 141 vehicles and did not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,494 vehicles, which was an increase of 48 vehicles from the baseline counts. This increase falls below the 90 percent confidence interval by 61 vehicles and 97 vehicles below the 1 percent established trigger. Stanford submitted a 2007 Trip Credit Report showing 201 trip credits – this report has been received and confirmed by the County's traffic consultant.

#### **Annual Report 8 - Year 2008**

The 2008 Monitoring Report concluded that the adjusted AM inbound count totaled 3,020 vehicles, which was a decrease of 299 vehicles from the baseline and did not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,460 vehicles, which was an increase of 14 vehicles above the baseline count and did not represent a significant PM outbound traffic increase. Stanford submitted a 2008 Trip Credit Report showing 240 trip credits – this report has been received and confirmed by the County's traffic consultant.

#### **Annual Report 9 - Year 2009**

The 2009 Monitoring Report concluded that the adjusted AM inbound count totaled 2,840 vehicles, which was a decrease of 479 vehicles from the baseline and did not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,227 vehicles, which was a decrease of 219 vehicles below the baseline count and did not represent a significant PM outbound traffic increase.

## Appendix D

### Summary of Traffic Monitoring

#### **Annual Report 10 - Year 2010**

The 2010 Monitoring Report concluded that the adjusted AM inbound count totaled 2,921 vehicles, which was a decrease of 553 vehicles from the baseline and did not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,459 vehicles, which was a decrease of 132 vehicles below the baseline count and did not represent a significant PM outbound traffic increase.

#### **Annual Report 11 - Year 2011**

The 2011 Monitoring Report concluded that the adjusted AM inbound count totaled 3,081 vehicles, which was a decrease of 393 vehicles from the baseline and did not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,743 vehicles, which was a decrease of 51 vehicles below the baseline count, after the trip credit was applied, and did not represent a significant PM outbound traffic increase.

#### **Annual Report 12 - Year 2012**

The 2012 Monitoring Report concluded that the adjusted AM inbound count totaled 3,287 vehicles, which was a decrease of 187 vehicles from the baseline and did not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,590 vehicles, which was a decrease of 302 vehicles below the baseline count, after the trip credit was applied, and did not represent a significant PM outbound traffic increase.

#### **Annual Report 13 - Year 2013**

The 2013 Monitoring Report concluded that the adjusted morning (AM) inbound count totaled 3,332 vehicles which was an increase of 13 vehicles from the baseline, which falls within the 90% confidence interval, and does not represent a significant AM inbound traffic increase. The afternoon (PM) outbound count totaled 3,744 vehicles, which is an increase of 298 vehicles from the baseline. However, after applying 339 trip credits submitted by Stanford and verified by the County, the PM peak hour outbound traffic is 186 trips below the 1% established trigger.

#### **Annual Report 14 - Year 2014**

The 2014 Monitoring Report concluded that the adjusted morning (AM) inbound count totaled 3,336 vehicles which was an increase of 17 vehicles from the baseline, which falls within the 90% confidence interval, and does not represent a significant AM inbound traffic increase. The afternoon (PM) outbound count totaled 3,696 vehicles, which is an increase of 250 vehicles from the baseline. However, after applying 402 trip credits submitted by Stanford and verified by the County, the PM peak hour outbound traffic is 297 trips below the 1% established trigger.

#### **Annual Report 15 - Year 2015**

The 2015 Monitoring Report concluded that the adjusted morning (AM) inbound count totaled 3,142 vehicles which was a decrease of 297 vehicles from the baseline, which falls below the 90% confidence interval, and does not represent a significant AM inbound traffic increase. The afternoon (PM) outbound count totaled 3,257 vehicles, which is a decrease of 298 vehicles from the baseline, and also falls below the 90% confidence interval and does not represent a significant PM outbound traffic increase. After applying 844 trip credits submitted by Stanford and verified by the County, the PM peak hour outbound traffic is 1,178 trips below the 1% established trigger.

## **Appendix D**

### **Summary of Traffic Monitoring**

#### **Annual Report 16 - Year 2016**

The 2016 Monitoring Report concluded that the adjusted morning (AM) inbound count totaled 3,170 vehicles which was a decrease of 149 vehicles from the baseline, which falls below the 90% confidence interval, and does not represent a significant AM inbound traffic increase. The afternoon (PM) outbound count totaled 3,316 vehicles, which is a decrease of 130 vehicles from the baseline, and also falls below the 90% confidence interval and does not represent a significant PM outbound traffic increase. After applying 543 trip credits submitted by Stanford and verified by the County, the PM peak hour outbound traffic is 818 trips below the 1% established trigger.

#### **Annual Report 17 - Year 2017**

The 2017 Monitoring Report concluded that the adjusted morning (AM) inbound count totaled 3,202 vehicles which was a decrease of 117 vehicles from the baseline, which falls below the 90% confidence interval, and does not represent a significant AM inbound traffic increase. The afternoon (PM) outbound count totaled 3,324 vehicles, which is a decrease of 122 vehicles from the baseline, and also falls below the 90% confidence interval and does not represent a significant PM outbound traffic increase. Therefore, Stanford met the No Net New Commute Trips standard. Stanford choose not to submit trip credits to the County this year as it was not required to meet the standard.

#### **Annual Report 18 - Year 2018**

The 2018 Monitoring Report concluded that the adjusted morning (AM) inbound count totaled 3,575 vehicles which is 256 vehicles higher than the baseline 2001 AM count; 136 vehicles above than the upper boundary of the 90% confidence interval, and 101 vehicles above the established 1 percent trigger. Because the AM peak hour traffic is above the trigger, Stanford Trip Credits are applied to the total to bring the number into compliance with the metric. The 2018 Trip Credits total is 595 Trip Credits. The afternoon (PM) outbound count totaled 3,509 vehicles, which is 63 vehicles higher than the 2001 baseline; 46 vehicles lower than the upper boundary of the 90% confidence interval and does not represent a significant PM outbound traffic increase. With Stanford's approved trip credits, Stanford met the No Net New Commute Trips standard.

#### **Annual Report 19 - Year 2019**

The 2019 Monitoring Report concluded that the adjusted morning (AM) inbound count totaled 3,193 vehicles which is 126 vehicles lower than the baseline 2001 AM count; 246 vehicles lower than the upper boundary of the 90% confidence interval, and does not represent a significant AM inbound traffic increase. The afternoon (PM) outbound count totaled 3,292 vehicles, which is 154 vehicles below than the 2001 baseline; 263 vehicles lower than the upper boundary of the 90% confidence interval and does not represent a significant PM outbound traffic increase. Therefore, Stanford met the No Net New Commute Trips standard. Stanford choose not to submit trip credits to the County this year as it was not required to meet the standard.

## Appendix D

### Summary of Traffic Monitoring

#### 2001 Baseline

Original Publication Date: July 2002  
 Updated Publication Date: October 15, 2003

Changes between the July 2002 and October 2003 reports were minor editorial corrections.

##### Inbound AM:

Adjusted Average 2002 Count	3,319
90% Confidence Interval (2001)	+/- 120
Significant Traffic Increase (2001)	3,439
1% Increase Trigger (2001)	3,474

##### Outbound PM:

Adjusted Average 2002 Count	3,446
90% Confidence Interval (2001)	+/- 109
Significant Traffic Increase (2001)	3,555
1% Increase Trigger (2001)	3,591

#### 2002 Monitoring Report

Original Publication Date: December 2002  
 Updated Publication Date: October 15, 2003

	Original Data	First Revision Data	Second Revision Data
<b><u>Inbound AM:</u></b>			
Adjusted Average 2002 Count	3,390	3,287	3,275
Baseline-established 90% Confidence Interval (2001)	+/-120	+/-120	+/-120
Baseline-established Significant Traffic Increase (2001)	3,439	3,439	3,439
Baseline-established 1% Increase Trigger (2001)	3,474	3,474	3,474
Result	-84	-187	-199
	Original Data	First Revision Data	Second Revision Data
<b><u>Outbound PM:</u></b>			
Adjusted Average 2002 Count	3,678	3,598	3,586
Baseline-established 90% Confidence Interval (2001)	+/-109	+/-109	+/-109
Baseline-established Significant Traffic Increase (2001)	3,555	3,555	3,555
Baseline-established 1% Increase Trigger (2001)	3,591	3,591	3,591
Result	+87	+7	-5

## Appendix D

### Summary of Traffic Monitoring

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#### 2003 Monitoring Report

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**Original Publication Date:**

**January 29, 2004**

The following table summarizes the results of traffic monitoring for 2003.

**Inbound AM:**

Adjusted Average 2003 Count	3,413
Baseline-established 90% Confidence Interval (2001)	+/- 120
Baseline-established Significant Traffic Increase (2001)	3,439
Baseline-established 1% Increase Trigger (2001)	3,474
Result (falls below the 90% Confidence Interval by 26 vehicles)	-26
Result (falls below the 1% Trigger by 61 vehicles)	-61

**Outbound PM:**

Adjusted Average 2003 Count	3,476
Baseline-established 90% Confidence Interval (2001)	+/- 109
Baseline-established Significant Traffic Increase (2001)	3,555
Baseline-established 1% Increase Trigger (2001)	3,591
Result (falls below the 90% Confidence Interval by 79 vehicles)	-79
Result (falls below the 1% Trigger by 115 vehicles)	-115

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#### 2004 Monitoring Report

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**Original Publication Date:**

**January 18, 2005**

The following table summarizes the results of traffic monitoring for 2004.

**Inbound AM:**

Adjusted Average 2004 Count	3,176
Baseline-established 90% Confidence Interval (2001)	+/- 120
Baseline-established Significant Traffic Increase (2001)	3,439
Baseline-established 1% Increase Trigger (2001)	3,474
Result (falls below the 90% Confidence Interval by 263 vehicles)	-263
Result (falls below the 1% Trigger by 298 vehicles)	-298

**Outbound PM:**

Adjusted Average 2004 Count	3,642
Baseline-established 90% Confidence Interval (2001)	+/- 109
Baseline-established Significant Traffic Increase (2001)	3,555
Baseline-established 1% Increase Trigger (2001)	3,591
Result (exceeds the 90% Confidence Interval by 87 vehicles)	+87
Result (exceeds the 1% Trigger by 51 vehicles)	+51
2004 Trip Credit	-66
Result with Trip Credit (falls below the 1% Trigger by 15 vehicles)	-15

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## Appendix D

### Summary of Traffic Monitoring

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#### 2005 Monitoring Report

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**Original Publication Date:**

**December 21, 2005**

The following table summarizes the results of traffic monitoring for 2005.

**Inbound AM:**

Adjusted Average 2005 Count	3,383
Baseline-established 90% Confidence Interval (2001)	+/- 120
Baseline-established Significant Traffic Increase (2001)	3,439
Baseline-established 1% Increase Trigger (2001)	3,474
Result (Falls below the 90% Confidence Interval by 56 vehicles)	-56
Result (Falls below the 1% Trigger by 91 vehicles)	-91

**Outbound PM:**

Adjusted Average 2005 Count	3,735
Baseline-established 90% Confidence Interval (2001)	+/- 109
Baseline-established Significant Traffic Increase (2001)	3,555
Baseline-established 1% Increase Trigger (2001)	3,591
Result (exceeds the 90% Confidence Interval by 180 vehicles)	+180
Result (exceeds the 1% Trigger by 144 vehicles)	+144
2005 Trip Credit	-174
Result with Trip Credit (falls below the 1% trigger by 30 vehicles)	-30

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#### 2006 Monitoring Report

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**Original Publication Date:**

**November 20, 2006**

The following table summarizes the results of traffic monitoring for 2006.

**Inbound AM:**

Adjusted Average 2006 Count	3,048
Baseline-established 90% Confidence Interval (2001)	+/- 120
Baseline-established Significant Traffic Increase (2001)	3,439
Baseline-established 1% Increase Trigger (2001)	3,474
Result (falls below the 90% confidence interval by 391 vehicles)	-391
Result (falls below the 1% increase trigger by 426 vehicles)	-426

**Outbound PM:**

Adjusted Average 2006 Count	3,427
Baseline-established 90% Confidence Interval (2001)	+/- 109
Baseline-established Significant Traffic Increase (2001)	3,555
Baseline-established 1% Increase Trigger (2001)	3,591
Result (falls below the 90% confidence interval by 128 vehicles)	-128
Result (falls below the 1% trigger by 164 vehicles)	-164

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## Appendix D

### Summary of Traffic Monitoring

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#### 2007 Monitoring Report

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**Original Publication Date:**

**November 2007**

The following table summarizes the results of traffic monitoring for 2007.

**Inbound AM:**

Adjusted Average 2007 Count	3,058
Baseline-established 90% Confidence Interval (2001)	+/- 120
Baseline-established Significant Traffic Increase (2001)	3,439
Baseline-established 1% Increase Trigger (2001)	3,474
Result (falls below the 90% confidence interval by 381 vehicles)	-381
Result (falls below the 1% increase trigger by 416 vehicles)	-416

**Outbound PM:**

Adjusted Average 2007 Count	3,494
Baseline-established 90% Confidence Interval (2001)	+/- 109
Baseline-established Significant Traffic Increase (2001)	3,555
Baseline-established 1% Increase Trigger (2001)	3,591
Result (falls below the 90% confidence interval by 61 vehicles)	-61
Result (falls below the 1% trigger by 97 vehicles)	-97

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#### 2008 Monitoring Report

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**Original Publication Date:**

**November 2008**

The following table summarizes the results of traffic monitoring for 2008.

**Inbound AM:**

Adjusted Average 2008 Count	3,020
Baseline-established 90% Confidence Interval (2001)	+/- 120
Baseline-established Significant Traffic Increase (2001)	3,439
Baseline-established 1% Increase Trigger (2001)	3,474
Result (falls below the 90% confidence interval by 419 vehicles)	-419
Result (falls below the 1% increase trigger by 454 vehicles)	-454

**Outbound PM:**

Adjusted Average 2008 Count	3,460
Baseline-established 90% Confidence Interval (2001)	+/- 109
Baseline-established Significant Traffic Increase (2001)	3,555
Baseline-established 1% Increase Trigger (2001)	3,591
Result (falls below the 90% confidence interval by 95 vehicles)	-95
Result (falls below the 1% trigger by 131 vehicles)	-131

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## Appendix D

### Summary of Traffic Monitoring

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#### 2009 Monitoring Report

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**Original Publication Date:**

**November 2009**

The following table summarizes the results of traffic monitoring for 2009.

**Inbound AM:**

Adjusted Average 2009 Count	2,840
Baseline-established 90% Confidence Interval (2001)	+/- 120
Baseline-established Significant Traffic Increase (2001)	3,439
Baseline-established 1% Increase Trigger (2001)	3,474
Result (falls below the 90% confidence interval by 599 vehicles)	-599
Result (falls below the 1% increase trigger by 634 vehicles)	-634

**Outbound PM:**

Adjusted Average 2009 Count	3,227
Baseline-established 90% Confidence Interval (2001)	+/- 109
Baseline-established Significant Traffic Increase (2001)	3,555
Baseline-established 1% Increase Trigger (2001)	3,591
Result (falls below the 90% confidence interval by 328 vehicles)	-328
Result (falls below the 1% trigger by 364 vehicles)	-364

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#### 2010 Monitoring Report

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**Original Publication Date:**

**December 2010**

The following table summarizes the results of traffic monitoring for 2010

**Inbound AM:**

Adjusted average 2010 count	2,921
Baseline-established 90% confidence interval (2001)	+/- 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1% increase trigger (2001)	3,474
Result (falls below the 90% confidence interval by 518 vehicles)	-518
Result (falls below the 1% increase trigger by 553 vehicles)	-553

**Outbound PM:**

Adjusted average 2010 count	3,459
Baseline-established 90% confidence interval (2001)	+/- 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1% increase trigger (2001)	3,591
Result (falls below the 90% confidence interval by 96 vehicles)	-96
Result (falls below the 1% increase trigger by 132 vehicles)	-132

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# Appendix D

## Summary of Traffic Monitoring

### 2011 Monitoring Report

Original Publication Date:

December 2011

The following table summarizes the results of traffic monitoring for 2011

#### Inbound AM:

Adjusted average 2011 count	3,081
Baseline-established 90% confidence interval (2001)	+/- 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1% increase trigger (2001)	3,474
Result (falls below the 90% confidence interval by 358 vehicles)	-358
Result (falls below the 1% increase trigger by 393 vehicles)	-393

#### Outbound PM:

Adjusted average 2011 count	3,743
Baseline-established 90% confidence interval (2001)	+/- 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1% increase trigger (2001)	3,591
Result (exceeds the 90% confidence interval by 188 vehicles)	+188
Result (exceeds the 1% increase trigger by 152 vehicles)	+152
2011 Trip Credit	-203
Result with Trip Credit (falls below the 1% trigger by 51 vehicles)	-51

### 2012 Monitoring Report

Original Publication Date:

December 2012

The following table summarizes the results of traffic monitoring for 2012

#### Inbound AM:

Adjusted average 2012 count	3,287
Baseline-established 90% confidence interval (2001)	+/- 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1% increase trigger (2001)	3,474
Result (falls below the 90% confidence interval by 152 vehicles)	-152
Result (falls below the 1% increase trigger by 187 vehicles)	-187

#### Outbound PM:

Adjusted average 2012 count	3,590
Baseline-established 90% confidence interval (2001)	+/- 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1% increase trigger (2001)	3,591
Result (exceeds the 90% confidence interval by 35 vehicles)	+35
Result (falls below the 1% increase trigger by 1 vehicle)	-1
2012 Trip Credit	-301
Result with Trip Credit (falls below the 1% trigger by 302 vehicles)	-302

## Appendix D

### Summary of Traffic Monitoring

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#### 2013 Monitoring Report

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Original Publication Date:

March 2014

The following table summarizes the results of traffic monitoring for 2013

**Inbound AM:**

Adjusted average 2013 count	3,332
Baseline-established 90% confidence interval (2001)	+/- 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1% increase trigger (2001)	3,474
Result (falls below the 90% confidence interval by 107 vehicles)	-107
Result (falls below the 1% increase trigger by 142 vehicles)	-142

**Outbound PM:**

Adjusted average 2013 count	3,744
Baseline-established 90% confidence interval (2001)	+/- 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1% increase trigger (2001)	3,591
Result (falls above the 90% confidence interval by 189 vehicles)	+189
Result (falls above the 1% increase trigger by 152 vehicles)	+153
2013 Trip Credit	-339
Result with Trip Credit (falls below the 1% trigger by 51 vehicles)	-186

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#### 2014 Monitoring Report

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Original Publication Date:

April 2015

The following table summarizes the results of traffic monitoring for 2014

**Inbound AM:**

Adjusted average 2014 count	3,336
Baseline-established 90% confidence interval (2001)	+/- 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1% increase trigger (2001)	3,474
Result (falls below the 90% confidence interval by 103 vehicles)	-103
Result (falls below the 1% increase trigger by 138 vehicles)	-138

**Outbound PM:**

Adjusted average 2014 count	3,696
Baseline-established 90% confidence interval (2001)	+/- 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1% increase trigger (2001)	3,591
Result (exceeds the 90% confidence interval by 141 vehicles)	+141
Result (exceeds the 1% increase trigger by 105 vehicles)	+105
2014 Trip Credit	-402
Result with Trip Credit (falls below the 1% trigger by 297 vehicles)	-297

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# Appendix D

## Summary of Traffic Monitoring

### 2015 Monitoring Report

Original Publication Date:

February 2016

The following table summarizes the results of traffic monitoring for 2015

#### Inbound AM:

Adjusted average 2015 count	3,142
Baseline-established 90% confidence interval (2001)	+/- 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1% increase trigger (2001)	3,474
Result (falls below the 90% confidence interval by 297 vehicles)	-297
Result (falls below the 1% increase trigger by 332 vehicles)	-332

#### Outbound PM:

Adjusted average 2015 count	3,257
Baseline-established 90% confidence interval (2001)	+/- 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1% increase trigger (2001)	3,591
Result (falls below the 90% confidence interval by 298 vehicles)	-298
Result (falls below the 1% increase trigger by 334 vehicles)	-334
2015 Trip Credit	-844
Result with Trip Credit (falls below the 1% trigger by 1,178 vehicles)	-1,178

### 2016 Monitoring Report

Original Publication Date:

March 2017

The following table summarizes the results of traffic monitoring for 2016

#### Inbound AM:

Adjusted average 2016 count	3,170
Baseline-established 90% confidence interval (2001)	+/- 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1% increase trigger (2001)	3,474
Result (falls below the 90% confidence interval by 269 vehicles)	-269
Result (falls below the 1% increase trigger by 304 vehicles)	-304
2016 Trip Credit	-461
Result with Trip Credit (falls below the 1% trigger by 765 vehicles)	-765

#### Outbound PM:

Adjusted average 2016 count	3,316
Baseline-established 90% confidence interval (2001)	+/- 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1% increase trigger (2001)	3,591
Result (falls below the 90% confidence interval by 239 vehicles)	-239
Result (falls below the 1% increase trigger by 275 vehicles)	-275
2016 Trip Credit	-543
Result with Trip Credit (falls below the 1% trigger by 818 vehicles)	-818

## Appendix D

### Summary of Traffic Monitoring

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#### 2017 Monitoring Report

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**Original Publication Date:**

**January 2018**

The following table summarizes the results of traffic monitoring for 2017

**Inbound AM:**

Adjusted average 2017 count	3,202
Baseline-established 90% confidence interval (2001)	+/- 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1% increase trigger (2001)	3,474
Result (falls below the 90% confidence interval by 237 vehicles)	-237
Result (falls below the 1% increase trigger by 272 vehicles)	-272
2017 Trip Credit	-0
Result with Trip Credit	-0

**Outbound PM:**

Adjusted average 2016 count	3,324
Baseline-established 90% confidence interval (2001)	+/- 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1% increase trigger (2001)	3,591
Result (falls below the 90% confidence interval by 231 vehicles)	-231
Result (falls below the 1% increase trigger by 267 vehicles)	-267
2017 Trip Credit	-0
Result with Trip Credit	-0

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#### 2018 Monitoring Report

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**Original Publication Date:**

**May 2018**

The following table summarizes the results of traffic monitoring for 2018

**Inbound AM:**

Adjusted average 2018 count	3,575
Baseline-established 90% confidence interval (2001)	+/- 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1% increase trigger (2001)	3,474
Result (exceeds the 90% confidence interval by 136 vehicles)	136
Result (exceeds the 1% increase trigger by 101 vehicles)	101
2018 Trip Credit	-595
Result with Trip Credit	-494

**Outbound PM:**

Adjusted average 2018 count	3,509
Baseline-established 90% confidence interval (2001)	+/- 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1% increase trigger (2001)	3,591
Result (falls below the 90% confidence interval by 46 vehicles)	-46
Result (falls below the 1% increase trigger by 82 vehicles)	-82
2018 Trip Credit	-
Result with Trip Credit	0



## Appendix D

### Summary of Traffic Monitoring

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#### 2019 Monitoring Report

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Original Publication Date:

March 2020

The following table summarizes the results of traffic monitoring for 2019

**Inbound AM:**

Adjusted average 2019 count	3,193
Baseline-established 90% confidence interval (2001)	+/- 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1% increase trigger (2001)	3,474
Result (falls below the 90% confidence interval by 246 vehicles)	-246
Result (falls below the 1% increase trigger by 281 vehicles)	-281
2019 Trip Credit	-0
Result with Trip Credit	0

**Outbound PM:**

Adjusted average 2019 count	3,292
Baseline-established 90% confidence interval (2001)	+/- 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1% increase trigger (2001)	3,591
Result (falls below the 90% confidence interval by 263 vehicles)	-263
Result (falls below the 1% increase trigger by 229 vehicles)	-299
2019 Trip Credit	-0
Result with Trip Credit	0

## Appendix D

### Summary of Traffic Monitoring

#### Definitions

The following definitions are provided to assist in understanding for procedures of the Stanford Traffic Monitoring.

**Adjusted Traffic** – The raw traffic counts defined below are adjusted to add in University traffic that does not cross the cordon, and to subtract hospital traffic that does cross the cordon, and cut-through traffic through the campus that is not university related. The adjusted traffic volumes are used to compare the Baseline traffic volumes to subsequent year volumes to assess potential changes in commute traffic volumes.

**AM Peak Hour** – The 60-minute time period with the highest volume of traffic within the 2-hour AM Peak Period. During the AM Peak Period, traffic counts are aggregated by 15-minute increments. The AM Peak Hour is the highest four consecutive 15-minute intervals during the Peak Period for all 16 entrance/exit points combined.

**AM Peak Period** – The 2-hour period beginning at 7:00 AM and ending at 9:00 AM. The AM Peak Hour is calculated for traffic volumes collected during the AM Peak Period.

**Average Count** – Traffic data are collected for 16 entry and exit points. The entering data are averaged for the AM peak and the existing data are averaged for the PM peak. The average counts are used to compare one year to a subsequent year to determine if a change in traffic volumes has occurred.

**Baseline** – The Baseline traffic data are the counts from calendar year 2001, the first year of monitoring after approval of the Stanford GUP in 2000. Subsequent year's counts are compared to the Baseline to determine if the GUP condition requiring no net new commute trips is being satisfied.

**Cordon Line** – A cordon line is an imaginary line that completely encircles an area and crosses all roads leading into and out of the area. By counting traffic volumes on the cordon by direction, the amount of traffic entering the area and exiting the area can be determined. For Stanford traffic monitoring, the cordon line surrounds the campus and crosses all entry and exit roads, such that all vehicles entering and exiting the campus can be counted.

**License Plate Recognition** – In 2018, Stanford University moved to a virtual permit platform that uses license plate recognition technology. This change has altered the way some of the data are collected for the monitoring report. Tube counters in the road continue to count the raw number of trips through the cordon. Parking lot data, now conducted through license plate recognition technology, calculates the absolute percentage of vehicles that are affiliated with the hospitals versus the absolute percentage of vehicles that are affiliated with the university during the morning and afternoon peak interval. While Stanford has expressed a preference for this data to be applied as a relative percentage rather than an absolute proportion, the County has determined that this adjustment should continue to be applied as an absolute proportion because this is the established methodology and because it is the more conservative treatment of the data. The parking-permit license-plate scanning is one of two adjustments to the cordon counts. This adjustment modifies the data to account for campus-affiliated vehicles parked outside the cordon (an increase to the raw total) and hospital-affiliated vehicles parked inside the cordon (a decrease for the raw total).

**License Plate Survey** – The last four digits of the license plates of each vehicle entering and exiting the campus is recorded by the County's traffic consultant, AECOM Engineering, for one

## Appendix D

### Summary of Traffic Monitoring

day during each week of traffic counts. The time period during which each identified vehicles enters and exits the campus cordon is also recorded. If an entering vehicle's license plate matches an exiting vehicle's license plate with a 20-minute interval, that vehicle is assumed to represent a cut-through trip (i.e. not campus-related) and is subtracted from the total traffic count for Stanford since it does not represent traffic related to Stanford. In order for a vehicle trip to be identified as "cut-through", it must be identified by license plate match as having entered via one roadway and exited via another. If a car is identified by license plate match as using the same entering and exiting roadway, the trip purpose is assumed to be to drop-off a passenger within the campus, and the trip is assumed to be Stanford related and is not subtracted from the trip count total.

**PM Peak Hour** – The 60-minute time period during which the highest volume of traffic is counted, within the 2-hour PM Peak Period. During the Peak Period, traffic counts are aggregated by 15-minute increments. The PM Peak Hour is the highest four consecutive 15-minute interval during the Peak Period for all 16 entrance/exit points combined.

**PM Peak Period** – The 2-hour period beginning at 4:00 PM and ending at 6:00 PM. The PM Peak Hour is calculated for traffic volumes collected during the PM Peak Period.

**Raw Data** – The total traffic volumes counted at the cordon line before adjustments are made. Adjustments are made to the raw data to subtract hospital parking within the cordon, and cut-through traffic from the total count, and to add university parking outside the cordon to the total count, in order to accurately account for traffic attributable to Stanford University.

**Significant Traffic Increase** – In comparing the change in traffic volumes between the Baseline and subsequent years, only statistically significant changes are considered. The following parameters define how a significant traffic increase is calculated:

- **Ninety Percent Confidence Interval** – A confidence interval is calculated to determine if a subsequent set of data is statistically different from the Baseline data. The County selected a 90 percent confidence interval as the significance threshold. Based on the daily variation in the Baseline counts, the 90 percent confidence interval for the AM peak hour is +/- 120 vehicles. The 90 percent confidence interval for the PM peak hour is +/- 109 vehicles. Therefore, if a subsequent year count exceeds the Baseline count by more than 120 vehicles, there is a 90 percent likelihood that the increase in traffic volumes has increased significantly.
- **One Percent Increase Trigger** – The 1 percent trigger is a second criterion for identifying significant increases in traffic volume. Condition of Approval G.9 stipulates that if traffic volumes increase above the Baseline volumes by 1 percent or more in two out of three consecutive years, this will "trigger" a requirement for additional mitigation.

**Trip Credits** – *Condition of Approval G.8* specifies that the County will recognize and "credit" Stanford off-campus trip reduction efforts after the approval data of the GUP (December 12, 2000), but not before, within a specified area surrounding the campus. These credits can be used to offset a significant increase in peak hour traffic into and out of the campus. Specific guidelines have been established that define how credits can be applied. An example of a credit would be Stanford providing bus service to someone traveling from the Caltrain Station to the hospital. By reducing overall travel in the area around the campus, Stanford can receive a credit against increases in travel onto the campus.

**Appendix E**  
**Sustainability at Stanford Annual Report**

# Appendix E

## Sustainability at Stanford Executive Summary

### SUSTAINABILITY AT STANFORD



### EXECUTIVE SUMMARY

“Stanford is a living lab of sustainability – in research, teaching, campus action, student experience, and community. Across the university, we have made great strides and are committed to accelerating our work to deepen our impact and service. Our research identifies challenges and helps develop critical solutions that can have a lasting impact on campus and around the world.”

– Stanford President Marc Tessier-Lavigne and Provost Persis Drell

### Annual Highlights

Together at Stanford, we continue to tackle new challenges with innovative and practical solutions to model an environmentally sustainable institution to help our campus, local, and global community understand, mitigate, and adapt to the changing climate.

We have undertaken ambitious initiatives to advance progress and create a thriving environment. Testament to this vision is our commitment to function on 100% renewable electricity by 2021 and reducing our campus greenhouse gas emissions by 80%. We are also preparing and aligning this year for a zero waste Stanford by 2030, defined as 90% diversion from the landfill or higher, using the principles of sustainable materials management.

These and the additional 2018–19 academic year milestones outlined below underscores our pledge to meaningful progress and applied innovation. More than 35 academic and operational departments work together to run sustainability, efficiency, and conservation programs that dramatically and collectively reduce Stanford’s environmental footprint, while maintaining a #1 spot as a research university among 940 reporting institutions of higher education.

As Stanford works to accelerate progress beyond these goals, it has incorporated sustainability into multiple strategic themes outlined in the vision for the university’s future. Stanford’s robust and holistic approach to sustainability actively supports its mission to benefit the region and the world.

### Awards

Stanford’s achievements in sustainability-focused operations and academic research have been recognized by regional, national, and international organizations. The wide spectrum of Stanford’s awards and commendations highlights the multifaceted nature of sustainability.

## Appendix E

# Sustainability at Stanford Executive Summary

In 2019, Stanford renewed its Platinum rating through the Sustainability Tracking, Assessment, & Rating System (STARS) of the national Association for the Advancement of Sustainability in Higher Education (AASHE). With a weighted 88% across academia, administration, operations, and coordination criteria, Stanford earned the highest place among research institutions in the United States, among 940+ reporting institutions.

In addition to the Platinum ranking, Stanford also performed well in AASHE's Sustainability Campus Index, which recognizes top-performing colleges and universities overall by institution type and in 17 sustainability impact areas. Stanford ranked in the following categories:

- First, overall, for Doctoral/Research Institutions
- First, for Diversity & Affordability
- Second, for Energy
- Second, for Wellbeing & Work
- Fourth, (tie) for Water
- Fourth, for Curriculum
- Fifth, for Public Engagement
- Eighth, for Campus Engagement

Stanford has also been recognized in the Princeton Review's Green Honor Roll for the sixth consecutive year, ranking in the top ten on its 2019 Top 50 Green Colleges List. Additionally, Stanford received the Best Practice Award from the California Higher Education Sustainability Conference for sustainable design at Stanford Redwood City in 2019, along with for My Cardinal Green, in 2018. Stanford was also awarded PR Daily's Corporate Social Responsibility Awards, for Green and Environmental Stewardship.

### Academics

**Integrated Research and Sustainability Curricula.** Stanford draws on a breadth and depth of expertise to advance visionary solutions to address climate change and cultivate a robust understanding of the natural world for a sustainable future. From engineering and business, to law, natural sciences, and the arts, leaders in their fields are collaborating to tackle climate impacts from a holistic perspective. This interdisciplinary approach of the last two decades helps to generate flexible, scalable solutions for maximum impact in our region and world.

Across disciplines, Stanford has expanded its support for community engaged teaching on sustainability, enhancing student learning while also directly adding value to regional sustainability programs. In 2018-19, more than 20 community-engaged learning courses connected Stanford students with local organizations to develop innovative solutions. This deep collaboration, in a transformative research and learning environment, influences generations of scientific and policy leaders. The university's commitment to sustainability in the Long Range Plans ensures this collaborative spirit will continue in the decades ahead, as the university empowers ambitious research and partnerships that contribute to a deeper understanding of sustainability.

## Appendix E

# Sustainability at Stanford Executive Summary

Across all seven schools at Stanford, sustainability-related endeavors in 2018-19 included:

- 65 sustainability-focused grants awarded
- 1,140+ sustainability-related courses in all seven schools
- 420 faculty doing sustainability research
- 5,200 students who graduate from a degree program with sustainability as a learning outcome
- 30 sustainability-related capstone projects

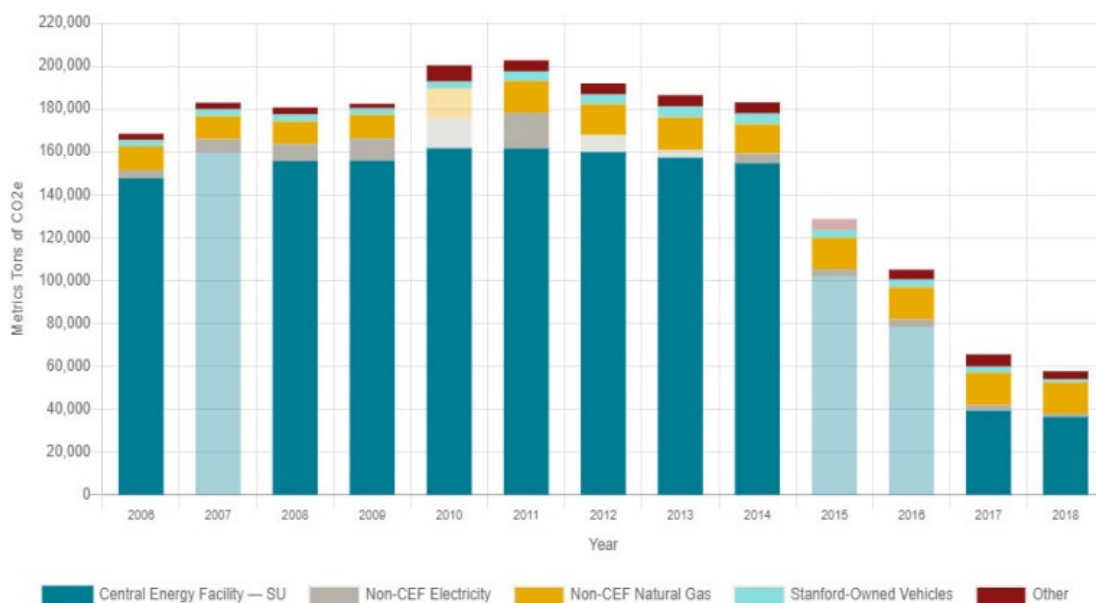
### Energy Supply

**Becoming 80% Carbon Free by 2025.** The university has taken progressive, cutting-edge steps in managing its energy supply. After implementation of the SESI program in 2015—which transitioned the campus to an electrically-powered heating and cooling system—the campus is well on its way to accomplish its target to reduce Scope 1 and Scope 2 emissions by 80% in advance of the 2025 deadline. This also falls decades ahead of California’s statewide requirement that electricity be 100% carbon-neutral by 2045. To accomplish this, in 2021 a second solar generating station will come online and increase the university’s renewable electricity portfolio to 100%, up from 69% today.

With a renewable electricity-based energy supply system, Stanford can decarbonize buildings by avoiding natural gas and steam equipment in new buildings, and systematically phasing out this equipment in existing buildings over time as informed by the equipment inventory completed in spring 2019. By 2018, Stanford reduced emissions 72% below peak levels, poised to be 80% below peak ahead of target. This emissions reduction is possible due to the campus moving toward 100% renewable electricity by 2021.

### Publicly Reported Historical GHG Emissions

(depicts Stanford’s publicly reported and third-party verified Scope 1 and 2 emissions over time, which capture emissions associated with Stanford’s building energy consumption, fleet fuel usage, and process and fugitive emissions.)





## Appendix E

### Sustainability at Stanford Executive Summary

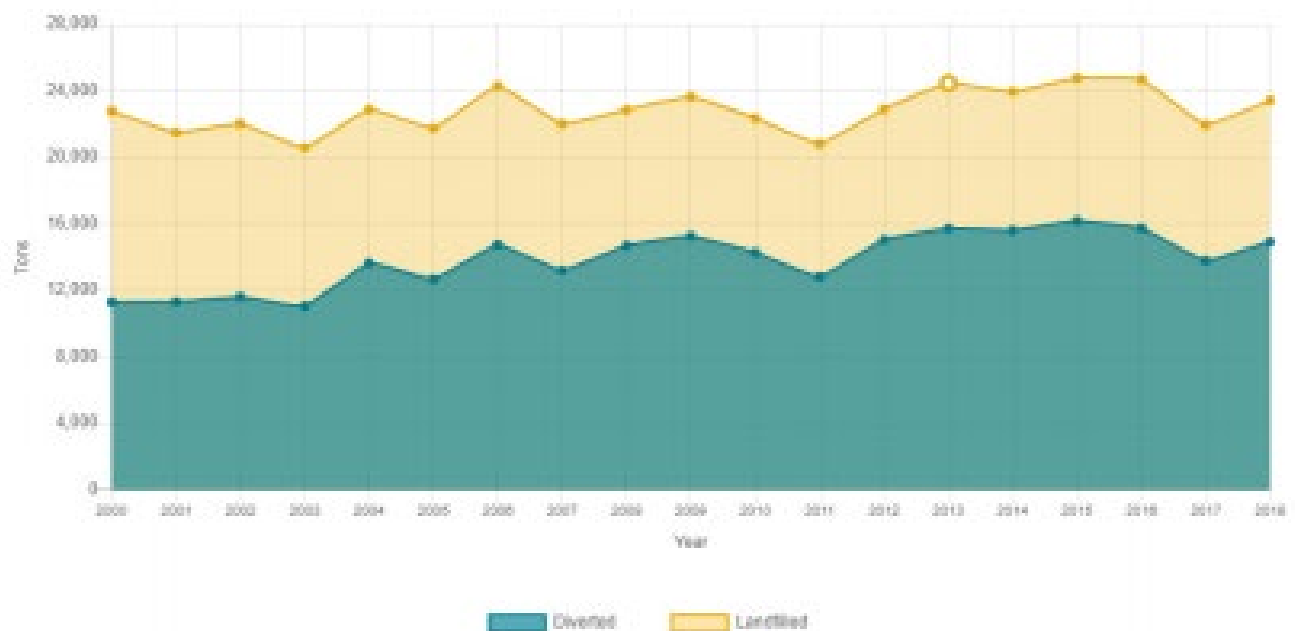
**Charting the Path to Zero Waste by 2030.** Managing the campus' resources to encourage reuse, waste reduction, diversion, and environmentally conscious purchasing remain crucial to Stanford maintaining its role as a leader in sustainability. Stanford is actively progressing on its path toward zero waste to meet the 90% diversion or higher target established through the Long Range Planning Process.

Through expansive reuse, recycling, and composting programs, the university has significantly reduced the total amount of material Stanford sends to landfill: 8,509 tons in 2018, for a diversion rate of 64%, compared to a peak of 14,000 tons sent to landfill in 1998. For the Zero Waste Plan and Feasibility Study, Stanford worked to identify source-reduction efforts and efficiency opportunities throughout its system. In developing the plan and feasibility study, the university has undertaken a comprehensive analysis of its waste composition today, and potentially viable solutions that focus on waste reduction and reuse, driving toward a closed-loop system.

Because responsible purchasing is so interwoven with waste minimization and efficient resource management, a partnership with Procurement Services has already led to an updated Responsible Purchasing Guidelines as a resource for the campus community. Additional solutions under consideration include expanded common area waste stations, efficiencies in custodial services, and combined paper/plastics, metal, and glass (or single stream) recycling. Some of these strategies are already successfully being utilized at the Redwood City campus.

In 2018-19, Stanford recovered 1,253 more tons of waste compared to 2017, with notable diversion increases in construction and demolition waste, furniture, and cardboard.

#### Historical Waste Minimization (total)



# Appendix E

## Sustainability at Stanford Executive Summary

### Office of Sustainability

**Expansive Efficiency and Engagement Programs.** Sustainability is a thread that weaves through all aspects of life on campus, and the solutions implemented help Stanford to lead by example and highlight conservation tactics that advance progress. The Sustainability and SEM Business Services group (SSBS) serves as the central aggregator of campus sustainability programs for both infrastructure and behavior, which combine to reduce the university's environmental footprint in a systematic way.

In 2018-19, the office undertook planning support for two key sustainability targets: becoming 80% carbon free by 2025 and zero waste (defined as 90% diversion or higher) by 2030. The program offers unparalleled transparency into campus performance via 135 building dashboards and 25+ systems dashboards.

While individual departments manage specific infrastructure programs, since 2017 the My Cardinal Green program has provided a streamlined pathway for over 4,000 members of the campus community to engage with and practice sustainable behaviors. The program provides personalized conservation suggestions for students, staff, and faculty, with actions included from more than 10 campus partner groups, including targeted opportunities for labs, offices, IT infrastructure, events, and custom student projects.

Savings from 2018-19 OOS sustainability programs total more than \$950,000:

- 160 building and systems sustainability performance dashboards
- 4,000+ users taking sustainability actions in My Cardinal Green
- 500+ individuals trained in sustainability
- 200 energy-saving devices installed
- 24 Sustainable Stanford Interns

### Energy Demand

**Next-Gen Energy Demand Management.** Reducing energy use in existing buildings is one of the primary pillars of Stanford's Energy and Climate Plan, and a cornerstone of its leadership as a sustainable campus. Meeting the energy needs of an enterprise research organization requires a comprehensive, innovative approach to do so in a sustainable way. The Facilities Energy Management (FEM) team utilizes multiple dynamic operating systems and efficiency programs to optimize energy consumption in existing buildings, and incorporates best practices into all new buildings. FEM coordinates with stakeholders across campus strategically to advance programs and initiatives that realize high performance outcomes.

While the Stanford Energy System Innovations (SESI) project enabled significant reductions, demand-side management—through programs like the Whole Building Energy Retrofit Program (WBERP) and Energy Retrofit Program (ERP)—accounts for nearly 10% of the savings, for a cumulative savings of over \$14.5 million since the baseline year. Another critical program that drives conservation is the

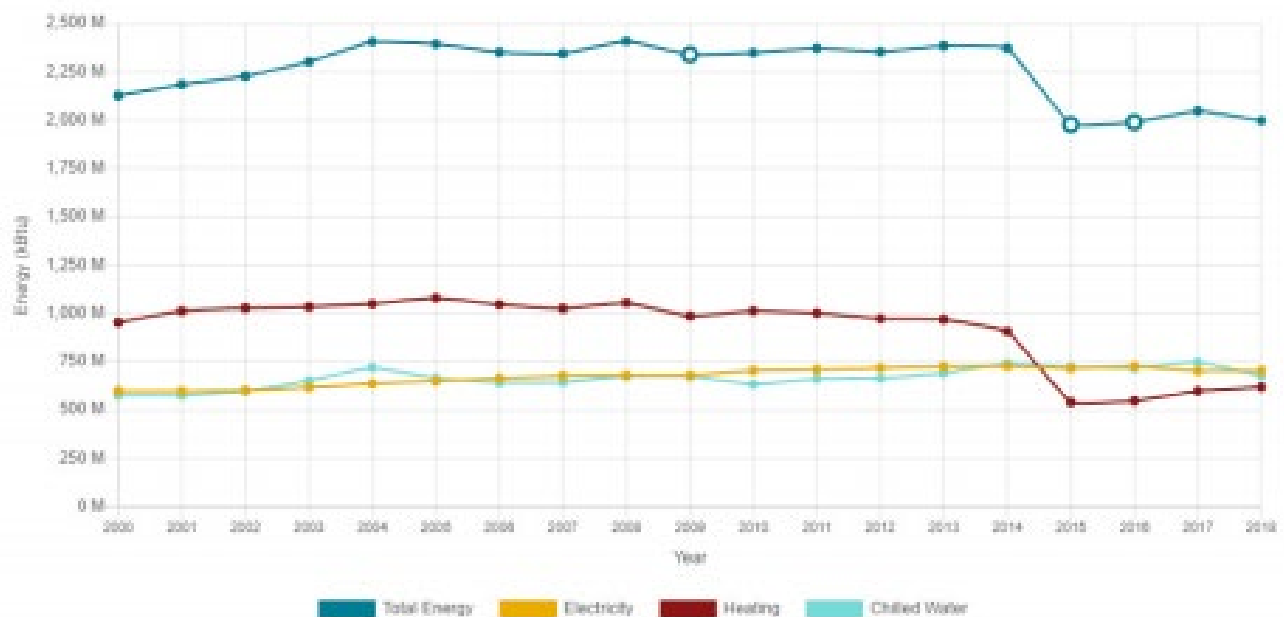
## Appendix E

### Sustainability at Stanford Executive Summary

Integrated Controls and Analytics Program (iCAP). The program streamlines diverse energy monitoring and controls platforms into a single enterprise system, allowing facilities teams to more adeptly manage utility consumption. Through iCAP, flexible, customized applications help to maximize savings with greater accessibility and performance insights. iCAP has also helped Stanford grow as a leader within the “Smart Campus” space. The program has ensured that Stanford’s operational efforts complement the highly regarded academic research programs exploring the Internet of Things and Artificial Intelligence. iCAP team leaders collaborate with the most innovative commercial property owners from around the world to identify, test, and vet new building automation technologies that will make our facilities more productive for occupants and more efficient to operate.

In 2018-19, an iCAP retro-commissioning project at Knight Management Center using advanced analytics to optimize performance is on track to save over \$75,000 per year in energy costs. As of 2018, Stanford has reduced energy intensity on campus 26% from a 2000 baseline.

#### Energy Demand Chart (total)



#### Transportation

##### Expanded Alternative Transportation Options

Stanford is committed to achieving the “No Net New Commute Trips” standard, which is defined by the Stanford Community Plan as no additional trips above a measured baseline during peak commute hours in the campus commute direction. Stanford has, and plans to continue to meet, this standard as proposed under its General Use Permit.

## Appendix E

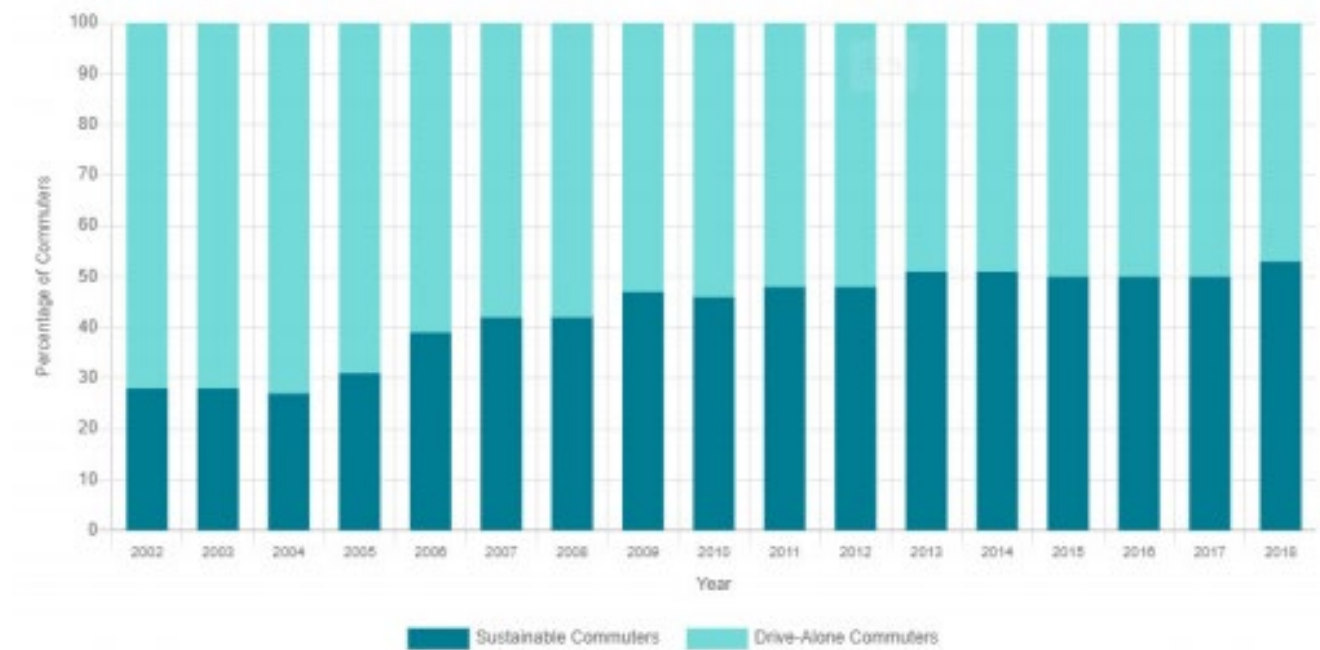
### Sustainability at Stanford Executive Summary

The Transportation Demand Management (TDM) program develops innovative approaches for getting students, faculty, and staff to campus by means other than single-occupancy vehicles. Spearheaded by Stanford Transportation, the TDM program aims to reduce university-related traffic impacts, emissions, and parking demand while the campus continues to grow.

Reduced environmental impact from 2018-2019 transportation programs:

- In 2018, 58% of campus commuters (employees and commuting students) utilized sustainable transportation options on a regular basis.
- 41 all-electric buses in the Marguerite Fleet
- 11,000 plus Stanford employees joined the Commute Club and committed to a sustainable commute.
- 12,280 pounds of CO<sub>2</sub> avoided by Stanford Bike-to-Work Day participation

#### Employee Drive-Alone Rate



#### Water

**Stewarding Vital Water Resources.** Stanford has an expansive history of efficient water management practices, stewarded by the Water Resources and Civil Infrastructure (WRCI) group, which also manages water systems infrastructure, roads, bridges, and dams on university land. The group proactively works to meet the needs of both the university community and the ecological systems it encompasses.

## Appendix E

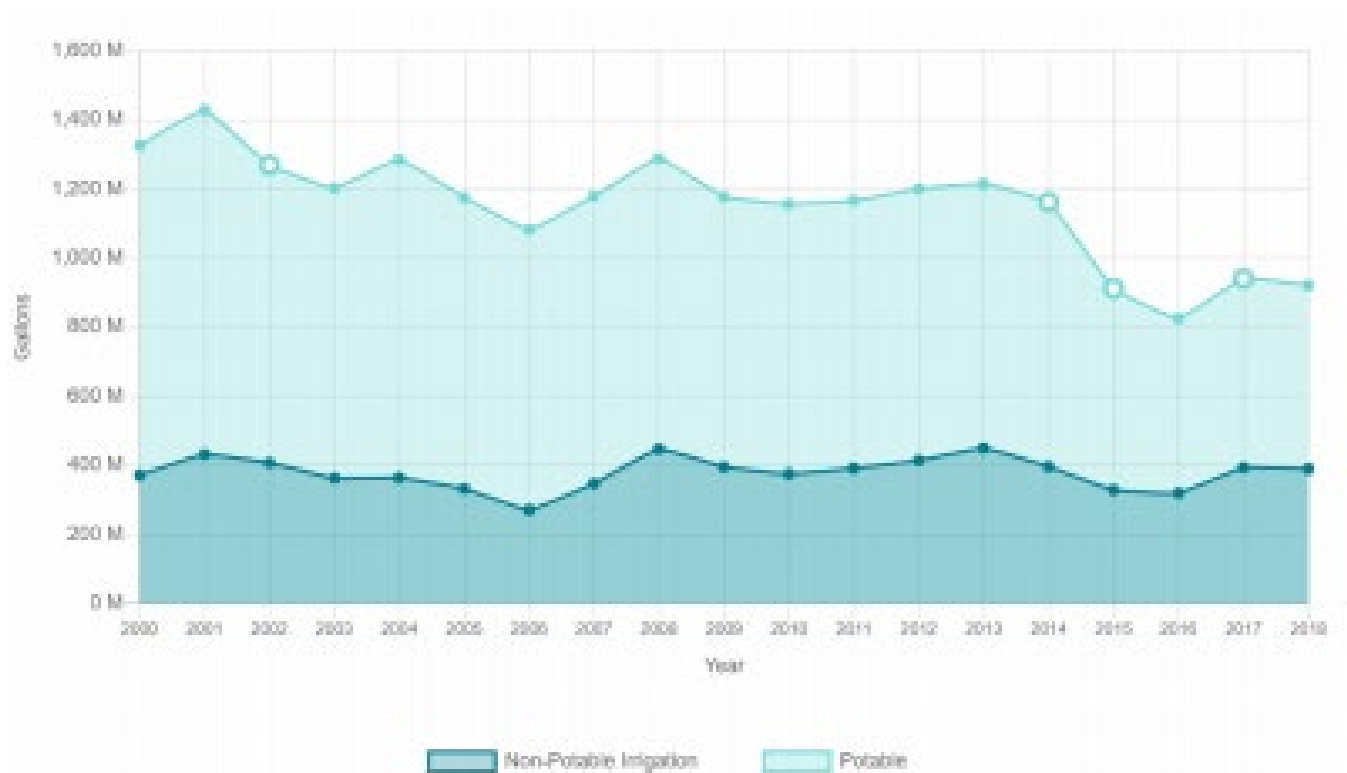
### Sustainability at Stanford Executive Summary

Through the work of its water conservation program, the campus has reduced total potable water use by 44% since its start in 2001. While 2018-19 was among the wettest years on record, conservation efforts implemented during the extended four-year drought that ended in 2017 continue to deliver long-term savings.

All major campus water customers have achieved significant reductions in water consumption compared to the pre-drought baseline of 2013. Future water planning efforts continue through the active development of a Sustainable Water Management Plan, for which WRCI completed nearly 20 technical studies related to alternative water supplies, demand projection, and water conservation.

In 2018-19, potable water use decreased by 3%, and non-potable water use decreased by 1% from the previous year.

#### Water Consumption Trends (total)



# Appendix E

## Sustainability at Stanford Executive Summary

### *Food and Living*

**Embedding Sustainability in Food and Living.** Residential & Dining Enterprises (R&DE) is home to 13,000 students and serves 18,000 meals per day across its more than 300 facilities for dining, catering, hospitality, and residences.

Across its eateries and cafes, R&DE dramatically expanded its food recovery and donation programs this year. Working with the Silicon Valley Food Rescue, the organization implemented an “A La Carte” food rescue program, which donates excess food from dining halls, cafes, and concessions to local organizations.

This year R&DE has experimented with a number of new technologies, including smart thermostats, sensors that track air quality and thermal comfort, and they even worked with students to develop their own sensors that monitor waste production and service. Additionally, a comprehensive survey was undertaken of more than 1,000 graduate students to get an in depth look at how they manage their waste, how much they are willing to sort, and how frequently and how far they are willing to travel to dispose of it.

Over 75 students worked with R&DE in 2018-19 to perform research, test new ideas, educate their peers, and implement sustainability projects in their living and eating spaces.

#### 2018-2019 Culture of Excellence

- 99% chemical free cleaning standards in 41 residences, avoiding over 30000 gallons of chemicals a year
- 60 plus local farms supply food for R&DE, 160 community garden plots, 12 organic teaching gardens on campus, 50,000 plus pounds of deliciously imperfect organic and local produce purchased.
- 64 tons of material and food was donated to those in need during student move out and 6,100 cubic yard reduction in landfill capacity due to increased recycling and composting behavior.

### *Buildings*

**Optimizing Building Design and Construction.** The built environment at Stanford is critical in supporting the academic mission, providing collaborative spaces that enable cross-disciplinary collaboration to connect research, practice, and action around some of the world’s most pressing challenges. The Department of Project Management (DPM) oversees major construction on campus and continually works to elevate the application of sustainable practices in building and design. Its holistic method of benchmarking drives improvement so that each new building coming online performs better than the last.

One of the most expansive projects in the university’s history has been construction of a new satellite campus in Redwood City, which opened in March 2019. The 35-acre site includes four new buildings that house more than 2,500 staff, as well as a recreation center, café, parking garage, and childcare center. A “mini Central Energy Facility” powers the facilities using heat recovery for heating and

## Appendix E

### Sustainability at Stanford Executive Summary

cooling purposes and incorporates the latest in sustainable design. Low-flow fixtures, LED lights with sensor technology, automated mechanical shades to conserve energy, and recycled water for irrigation are just some of the components that contribute to this state-of-the-art campus.

For all projects coming online, operations teams collaborate with the building design team to understand energy consumption and energy targets for all buildings, working closely together to ensure buildings perform as designed. Because of the coordinated approach toward achieving sustainability targets, all Stanford buildings operate at a LEED gold standard.

In 2018-19, eight new buildings and a renovated outdoor amphitheater came online and met Stanford's whole building, energy performance targets.

Sustainable Features of new construction in 2019 include:

- 29,600 LED light bulbs
- 1,220 occupancy sensors for energy reduction
- 150 low-flow faucets
- 250 low-flow toilets

The entire Sustainability at Stanford Annual Report 2018-19 may be found online at:

<http://sustainability-year-in-review.stanford.edu/2019/>





**Appendix F**  
**Stanford Alternative Means Programs**  
**2001-2019**

# Appendix F

## Stanford Alternative Means Programs

### F.1 Annual Reporting of Select LEED Credits

#### SSc4.1-4, Alternative Transportation

Reference annual GUP reporting on net trips during peak commuting hours

*Stanford's annual reporting on "no net new commute trips" is provided in Appendix B (Condition G.4) and in Appendix D.*

Submit an updated Transportation Demand Management Program document or similar narrative that describes alternative transportation services

*Stanford's annual reporting on the TDM Program is provided in Appendix B (Condition G.2).*

#### WEc1, Water Efficient Landscaping

Report the annual percentage of surface water (non-potable) vs. groundwater (potable) water in the lakewater irrigation system.

Lakewater Irrigation System Supply Sources					
	Non-potable (Surface Water and other sources)		Potable (Groundwater)		Total
Year	Quantity (acre-feet)	Percentage	Quantity (acre-feet)	Percentage	Quantity (acre-feet)
2010	809	70%	342	30%	1,151
2011	1,019	85%	182	15%	1,201
2012	1,032	82%	238	18%	1,270
2013	1,056	77%	311	23%	1,367
2014	72	6%	1,142	94%	1,214
2015	364	34%	721	66%	1,085
2016	215	24%	690	76%	905
2017	585	56%	456	44%	1,041
2018	684 total (588 surface water; 96 dewatering)	55% total (47% surface water; 8% dewatering)	554	45%	1,238
2019	896 total (518 surface water; 354 dewatering; 23 stormwater)	73% total (43% surface water; 29% dewatering;	323	27%	1,219

## Appendix F

### Stanford Alternative Means Programs

		2% stormwater)			
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The increased use of groundwater in the lakewater irrigation system between 2014 and 2016 was due to the drought. Groundwater wells were pumped to meet demand within the lakewater irrigation system and to fill storage within Felt Lake. The majority of campus lakewater irrigation demand was met by groundwater sources. The overall annual percentages do not reflect the Surface Water/Groundwater breakdown that occurred on a monthly basis (where a blend of both sources was used). However, the average groundwater percentage of the total lakewater irrigation system is 50% over the last 5 years, and 42% over the last 10 years (since 2010). “Abnormal” years were considered in the calculations for the Alternative Means approach, and Stanford demonstrated that with or without abnormal years, Stanford met the credit requirements for WEc1. Other “abnormal years” included 2006, when Felt Lake was drained, and 2007, when sediment removal at Felt Lake, and groundwater pumping was higher than normal. 2014 through 2016 are other examples of “abnormal years” with the drought.

Note: The sources of water contributing to the lakewater irrigation system have been tracked through various methods in order to fit within reporting formats, including that of BAWSCA and GUP reporting. Prior to 2015, the volume entering storage was subtracted from total surface water diverted and water used from storage. In 2015, water added to storage was subtracted from the metered groundwater or surface water source to better account for the source contributing to storage. Prior to 2016, all water coming from storage was assumed to be surface water. In order to better reflect the sources of water used in the lakewater irrigation system, beginning in 2016 the source of stored water is being accounted for by tracking the volume of groundwater that enters and is used from storage. Assumptions for this new method include a starting point of zero groundwater in the non-potable irrigation system storage as of July 2013, surface water entering storage first, and groundwater used from storage first.

Alternative water supplies were introduced and tracked in 2018 and 2019:

- Beginning in 2018, captured construction dewatering was used as an alternative water supply for irrigation (non-potable source). In FY 19, construction dewatering accounted for 29% of the source supply for the lakewater system.
- Beginning in 2019, stormwater capture was used as an alternative water supply for irrigation (non-potable source). In FY 20, stormwater capture accounted for 2% of the source supply for the lakewater system.

#### **EAp3, Fundamental Refrigerant Management**

Report when phase-out of CFC refrigerants in the central plant is complete.

*The scheduled phase-out described in EAp3 has not changed. The demolition of the central energy plant began in FY 15 and was complete by November 2015. Therefore, the prohibited CFC refrigerant has been removed.*

## Appendix F

### Stanford Alternative Means Programs

This will also indicate when EAc4, Enhanced Refrigerant Management, may be submitted for campus-wide pre-approval.

*Since the Central Energy Plant was demolished by November 2015, Stanford may now submit this credit for approval.*

#### **MRp1, Storage & Collection of Recyclables; MRc2.1-2.2, Construction Waste Management**

Confirm that PSSI is still Stanford University's waste contractor, and that PSSI's waste diversion programs are ongoing.

*PSSI is Stanford University's waste contractor for all construction projects on campus, and their waste diversion programs are ongoing. Stanford's construction and demolition waste diversion rate for calendar year 2019 was 78.41%, meeting both the minimum 50% diversion rate and the 75% diversion rate to maintain two credits under MRc2 for the campus as a whole.*

Reference reporting already sent to the County under the Solid Waste Management Act of CA (AB 939).

*Stanford submitted the County of Santa Clara Countywide AB 939 Quarterly Summary to the Santa Clara County Integrated Waste Management Program on or before March 2, May 30, August 30, and November 30, 2019.*

#### **IDc1.3, Green Housekeeping**

Confirm that Unicco is Stanford University's cleaning service provider.

*UG2 is the current provider of comprehensive green janitorial services to Stanford University.*

#### **IDc1.4, Green Campus Operations Education**

Provide update on any new green campus operations, education campaigns, newsletters, or other forms of green campus operations education.

*The description of green campus operations provided in the Green Building Ordinance materials did not change during this year.*

#### **ISc1.6, Green Dining**

Provide an update on any green dining initiatives or education.

*The description of green dining initiatives and education provided in the Green Building Ordinance materials did not change during this year.*

#### **Water Reduction Credits**

Report on 'water bank' balance using water calculation template.

*The reporting period for this credit is July 1 to June 30, to coincide with Stanford's annual GUP water consumption reporting period for SFPUC purchases and water conservation projects.*

Water Bank Balance
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## Appendix F

### Stanford Alternative Means Programs

Year	Projects	Change (mgd)	Cumulative Balance (mgd)
2010	Previous Projects under GUP	0.683880	0.683880
2011	Water conservation projects	0.012446	0.696326
2012	Water conservation projects	0.009141	0.705467
2013	Water conservation projects	0.017884	0.723351
2014	Water conservation projects	0.018824	0.742175
2015	Water conservation projects and SESI	0.422232	1.164407
2016	Water conservation projects and new building projects	0.005922	1.1703287
2017	Water conservation projects and new building projects	0.001648	1.1719765
2018	Water conservation projects and new building projects	0.0007520	1.172464
2019	Water conservation projects	0.0060580	1.178522

\* SESI: Stanford Energy Systems Innovations

## Appendix F

### Stanford Alternative Means Programs

#### F.2 Annual Reporting of Plug-In Electric Vehicle Charging Systems

The parking baseline is the total number of parking spaces recorded within the site boundary, in Annual Report 13 (18,270 spaces), plus all projects approved from September 1, 2013 to February 14, 2014 (Acorn parking lot, 12 net new spaces; Searsville parking lot, 592 spaces), or a total of **18,874 spaces**. As of February 14, 2014, there were six parking spaces that had access to EV charging on-campus that counted towards meeting the Ordinance (see Figure F-1).

As of August 31, 2019, the total number of parking spaces on campus is **17,593**, which is below the baseline number of spaces, and Stanford had **78** EV charging spaces on campus. Therefore, Stanford is in compliance with the County of Santa Clara's Ordinance for plug-in electric vehicle charging systems.

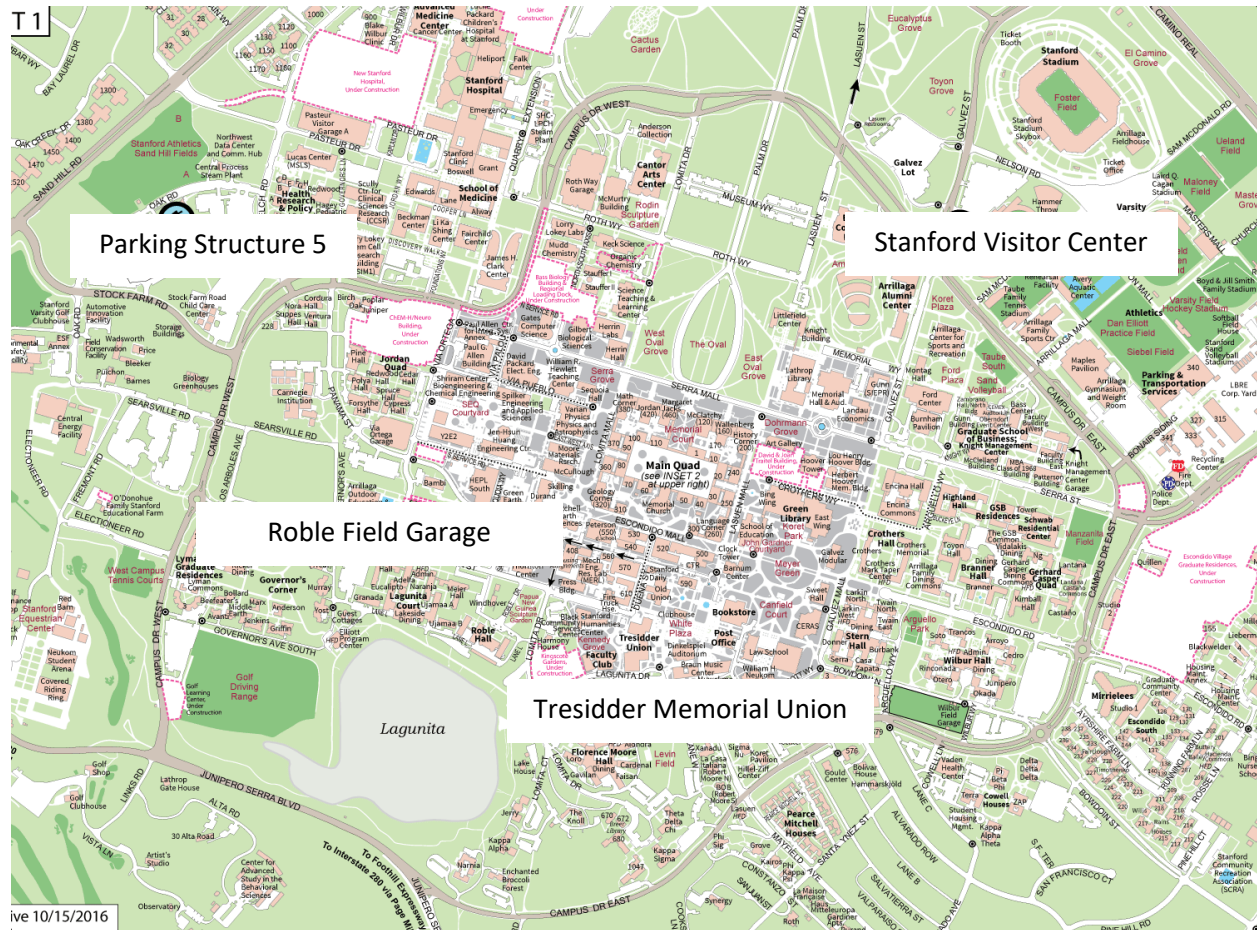
Date	Parking spaces tally	No. of spaces above baseline	No. of EV charging spaces required by PEV Ordinance	No. of EV charging spaces on campus	In compliance with PEV Ordinance
End of FY 13 (August 31, 2013)	18,270	N/A	N/A	N/A	N/A
Baseline as of February 14, 2014	18,874	0	0	6	Yes
End of FY 14 (August 31, 2014)	18,796	(78)	0	6	Yes
End of FY 15 (August 31, 2015)	18,101	(773)	0	14	Yes
End of FY 16 (August 31, 2016)	18,112	(762)	0	24	Yes
End of FY 17 (August 31, 2017)	18,289	(585)	0	78	Yes
End of FY 18 (August 31, 2018)	17,622	(1,252)	0	78	Yes
End of FY 19 (August 31, 2019)	17,593	(1,281)	0	78	Yes

Note: All spaces are mixed-use parking lots.

# Appendix F

## Stanford Alternative Means Programs

FIGURE F-1: CURRENT EV CHARGER LOCATIONS AS OF AUGUST 31, 2019



Locations	Number of ports	Charging type
Parking Structure 5 / Stock Farm Garage	16	Level 2
Stanford Visitor Center	4	Level 2
Tresidder Memorial Union	4	Level 2
Roble Field Garage	54	Level 2
<b>Total</b>	<b>78</b>	