City of Palo Alto
Public Works Engineering
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IMPERVIOUS AREA WORKSHEET FOR LAND DEVELOPMENTS

Applicants for all projects creating or replacing 500 square feet or more of impervious surface must fill out this worksheet and submit it to the Building Inspection Division prior to issuance of a building permit.

Property Address_____   APN_____-_____-_____

Applicant Name_____   Lot size (sq. ft.)_____

Title of Dwg. used to calculate revised impervious area_____   Dwg. Date_____

Land Use (Circle one):   Residential   Commercial   Industrial   Roadway

For residential uses ⇒   Number of living units (Circle one):   1   2   3 or more

Project Type (Circle one):   New Development   Redevelopment

Watershed (Circle one):   San Francisquito   Matadero   Barron   Adobe   SF Bay
  (see attached watershed map)

Purpose of Worksheet

The City of Palo Alto is collecting information on impervious surfaces created by land development projects in order to meet the requirements of its Stormwater Discharge Permit, issued by the San Francisco Bay Regional Water Quality Control Board. In addition, this information is used to calculate the monthly Storm Drainage Fee for <u>non-single-family residential properties</u> (single-family residential properties are assessed a flat monthly Storm Drainage Fee).

Every developed land parcel in the City of Palo Alto is assessed a monthly Storm Drainage Fee. The fee is based upon the relative contribution of storm water runoff from each parcel to the City's storm drainage system. A parcel's relative contribution of storm water runoff is based upon the amount of "impervious surface" on that parcel.

"Impervious surface" means that part of a developed parcel that has been modified to reduce the land's natural ability to absorb and hold rainfall. It includes hard surfaces which cause water to run off the surface in greater quantities or at an increased rate of flow from the flow that existed under natural conditions prior to development. For example, common impervious surfaces include, but are not limited to, rooftops, walkways, patios, courtyards, driveways, parking lots, storage areas, concrete or asphalt paving, gravel roads, or any cleared, graded, graveled, paved, or compacted surfaces, or other surfaces which similarly impede the natural infiltration of surface water into the soil.

IMPERVIOUS AREA SUMMARY

Lot size (sq. ft.) _____ (a)

Existing impervious surface (sq. ft.) _____ (b)   Existing percent impervious [line (b)÷line (a)] (%) _____ (c)

Area of impervious surface to be constructed (sq. ft.) _____ (d)

Ratio of newly constructed impervious surface to existing impervious surface [line (d) ÷ line (b)] (%)_____ (e)

Approximate area of land disturbance during construction (sq. ft.) _____ (f)

Final impervious surface (sq. ft.) _____ (g)   Revised percent impervious [line (g) ÷line (a)] (%) _____ (h)
  (From "Impervious Area Calculation", see back side.)

IMPERVIOUS AREA CALCULATION
(Select <u>one</u> of the following methods and provide the required information)

METHOD 1

Calculate the area of impervious surface by measuring all impervious improvements.

	Sq. ft.
Buildings	+ _____ (1)
Parking/storage areas (including driveways)	+ _____ (2)
Walkways	+ _____ (3)
Patios and courtyards	+ _____ (4)
Other (specify_____)	+ _____ (5)
Total impervious area (sum #1 thru 5)	_____ (6)

METHOD 2

Calculate the area of impervious surface by subtracting the area of pervious surface from the total area of the parcel.

	Sq. ft.
Total area of parcel (from Assessor's Book)	+ _____ (7)
Pervious Areas	
Landscaping	- _____ (8)
Undisturbed areas	- _____ (9)
Other (specify_____)	- _____ (10)
Total impervious area (sum #7 thru 10)	_____ (11)

METHOD 3

Calculate the area of impervious surface by adding (or subtracting) the net change in impervious surface as a result of construction to the impervious surface that existed prior to construction.
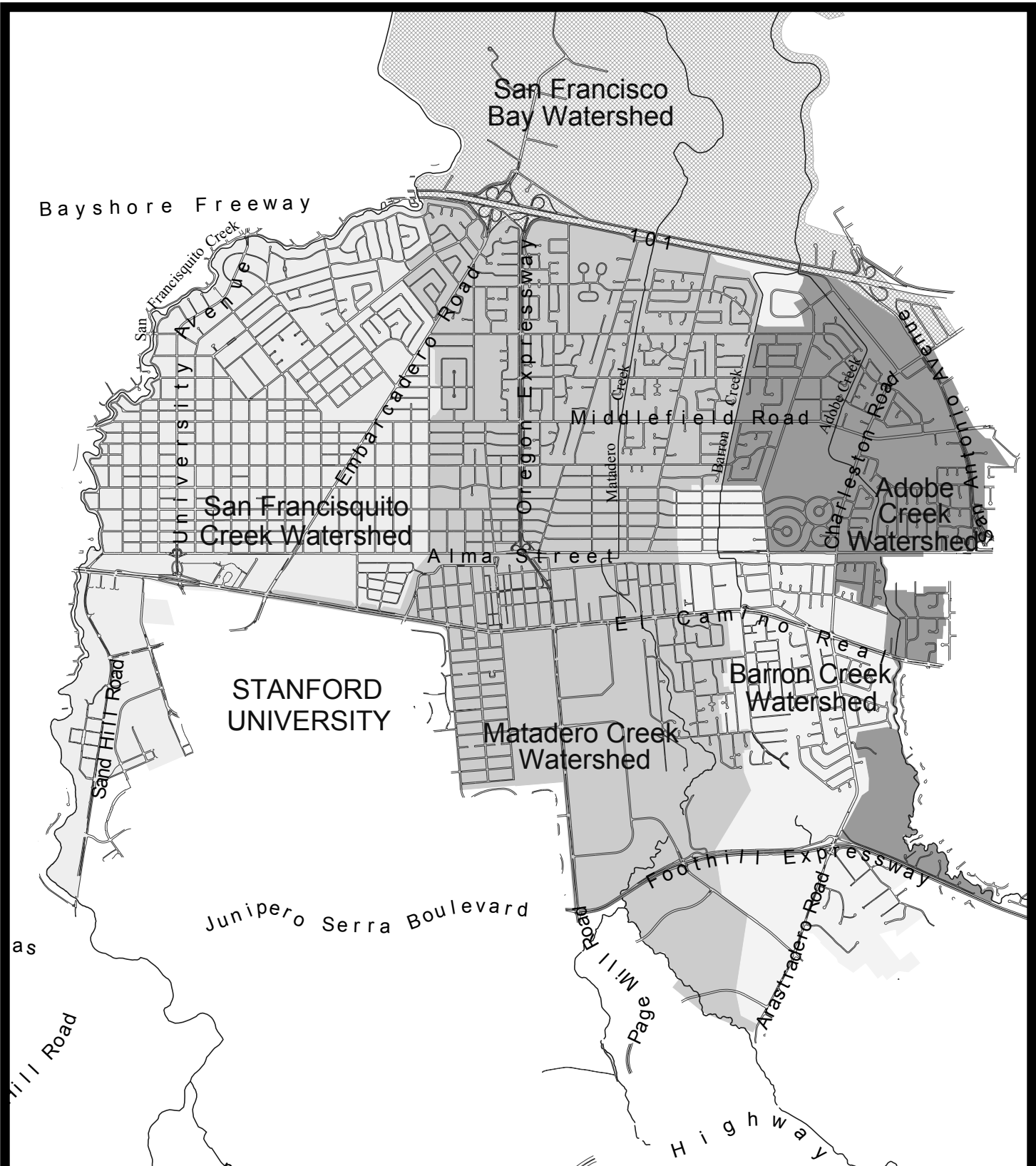
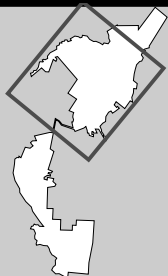|	Sq. ft.
Existing impervious area	+ _____ (12)
New Impervious Areas	
Buildings	+ _____ (13)
Parking/storage areas (including driveways)	+ _____ (14)
Walkways	+ _____ (15)
Patios and courtyards	+ _____ (16)
Other (specify_____)	+ _____ (17)
Impervious Area Removed	
Buildings	- _____ (18)
Parking/storage areas (including driveways)	- _____ (19)
Walkways	- _____ (20)
Patios and courtyards	- _____ (21)
Other (specify_____)	- _____ (22)
Total impervious area (sum #12 thru 22)	_____ (23)

Instructions for *Impervious Area Worksheet*

Beginning May 1, 2002, applicants for all projects creating or replacing 500 square feet or more of impervious surface must fill out an *Impervious Area Worksheet* and submit it to the Building Inspection Division prior to issuance of a building permit. If you have questions about the form or the requested data, please consult with Public Works Engineering staff at the Development Center.

Line-by-Line Instructions

Property Address: Insert the street name and address for the subject property.

APN: Insert the Assessor's Parcel Number (APN) for the subject property.

Applicant Name: Insert the name of the person applying for the building permit for the subject project.

Lot Size: Insert the size of the subject property in square feet.

Title of Drawing: Insert the name or number of the plan drawing used to calculate the impervious surface information.

Drawing Date: Insert the date of the drawing used to calculate the impervious surface information.

Land Use: Circle the appropriate land use for the subject property. If the property use is residential, circle the appropriate number of living units.

Project Type: Circle the appropriate project type. For purposes of this form, "new development" is construction on land that has never been built upon; everything else is considered "redevelopment".

Watershed: Circle the appropriate storm drain watershed for the subject property. Use the map on the reverse side of this form to identify the correct watershed.

Existing Impervious Surface: Insert the amount of impervious surface (in square feet)currently on the subject property (or on the property prior to any recent demolition). See the "Purpose of Worksheet" section of the form for a definition of "impervious surface".

Area of Impervious Surface to be Constructed: Insert the total amount of impervious surface (in square feet) to be constructed as part of the subject project (both construction of new impervious surface over existing pervious areas, as well as replacement of existing impervious surface with new impervious surface). DO NOT INCLUDE routine maintenance work such as reroofing, resurfacing of existing paved areas, etc. in the calculation of impervious surface.

Approximate Area of Land Disturbance: Insert the approximate area (in square feet) to be disturbed by construction operations (including clearing, grading, excavating,, etc.)

Final Impervious Surface: Insert the amount of impervious surface (in square feet) that will be on the subject property at the conclusion of the project (using the calculation worksheets on the back of the form).

San Francisco
Bay Watershed

Bayshore Freeway

San Francisquito Creek

101

University Avenue

Embarcadero Road

Oregon Expressway

Middlefield Road

Matadero Creek

Barron Creek

Adobe Creek

Charleston Road

San Antonio Avenue

San Francisquito
Creek Watershed

Alma Street

Adobe
Creek
Watershed

El Camino Real

Sand Hill Road

STANFORD
UNIVERSITY

Barron Creek
Watershed

Matadero Creek
Watershed

Junipero Serra Boulevard

Foothill Expressway

Mill Road

Page Mill

Arastradero Road

...as

...Hill Road

Highway

CITY OF PALO ALTO CALIFORNIA

The City of
Palo Alto

Storm Drain
Watersheds within
the City of Palo Alto

0'   3500'