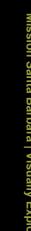


Michael Sánchez received a Bachelor of Science in Landscape Architecture from California Polytechnic State University, San Luis Obispo in 1996. He worked as a landscape architect for ten years before deciding to go back to school for a master's degree in landscape architecture. He plans to continue working in private practice as well as teach.

Visual imagery is very powerful to how we learn, remember and communicate. Images remain in our psyche long after words have fallen silent and return as helpful references at a later date. This project is not a typical historical analysis of the landscape of Mission Santa Barbara, nor a detailed historic rendering of the beautiful architecture and surrounding landscape. Nor is this merely a literary compilation. This project is a unique perspective between all of the professionals that tell stories of the missions – architects, landscape architects, planners, artists, historians, archeologists, anthropologists, Padres, tourists, etc. – and is woven into a product rich in illustrations and backed by interesting facts and sources. This project illustrates elements of the mission that most people might not see from a typical tourist viewpoint.

This visual essay communicates the rich history of this influential place in a way that more fully demonstrates the fascinating elements of this mission's systems and strives to lead the reader to a greater appreciation of this place that is part building, part garden, part lore.







La Mision de la Sénora Bárbara, Virgen y Martír Mission Santa Barbara | Visually Explored

Michael A. Sánchez, 2010

Submitted to the UNIVERSITY OF OREGON, Department of Landscape Architecture, College of Architecture and the Allied Arts



La Mision de la Sénora Barbara, Virgeny Martír, Mission Santa Barbara Visually Explored, a terminal project prepared by MICHAEL A. SÁNCHEZ in partial fulfillment of the requirements for the Master's of Landscape Architecture degree in the Department of Landscape Architecture at the UNIVERSITY OF OREGON.

This project has been approved and accepted by:

Name, Chair of the Committee	Date	
Name, Committee Member	Date	

Committee: Elisabeth 'Liska' Chan (Chair) Kenneth I. Helphand, FASLA













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I proverb, "It takes a village to raise a child". In her 1996 book, first lady Hillary Rodham Clinton said of her same titled book, "it takes a village to bring a book into this world". In this case the village turned out to be more like a small city. ing the Mission. Time does not permit me to list or thank all those who contributed, however, I would like to take a moment to acknowledge with utmost gratitude, several individuals. It is because of their help that this project is even possible.

Research can often be intimidating, especially at an archive library that is over two hundred years old. Lynn Bremer (former director of the Santa Barbara Mission

You may be familiar with the African belief in my abilities to pursue and complete this degree.

> A most heartfelt thank you to both Ramona Clark and Cynthia Spivey for opening your homes to my family and myself so that I could spend time explor-

> Thank you to Mike Pease, Kelcey Beardsley and Craig Russell for taking time to look at or talk to me about my project and give me feedback. I was incredibly inspired by your work and appreciate your sharing it with me.

> A very appreciative thank you to the Landscape Architecture Foundation and their affiliation with the Garden Club of America through the Douglas Dockery

Helphand, is officially on sabbatical this thank you. year so my other committee member, Liska Chan, graciously took over the pohelp in the editing of my publication and preparation of my presentation. Kenny, over the years, continuously inspired me with his vast knowledge of history and author I should look up or sharing one from his own extensive library. Thank you Kenny and Liska, for your indispensable help.

Paying for graduate school is a challenge any student faces. I have been blessed with

Most master's committees have one sacrificed the convenience and at times chair, however, my original chair, Kenny necessity of a full time employee. Carol,

have parents like mine. They have always sition. Liska has provided immeasurable been supportive of the often wacky endeavors I have pursued throughout my life and graduate school was no different. Providing both financial support and encouragement they have been stalwarts of design, always knowing some artist or strength to me. Thank you mom and dad.

> Family is crucial when times get tough and I appreciate the supportive words of encouragement that my brother often provided to me with the zeal and fervor only a sibling could supply. Thank you JP.

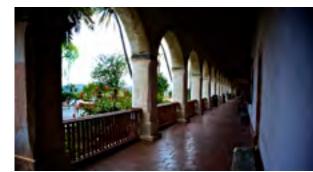
While the support of family is certainly

the patience and understanding of my family. Their love and loyalty gave me the strength and courage to continue when I Every child should be so fortunate to felt like giving up. Words alone can not express my deepest gratitude and appreciation for their sacrifices. This project and degree is dedicated to you. Thank you Kathryn, Ethan, Nate and Bela.

> Finally, none of this would have any relevance or purpose to me if it were not for my relationship with Jesus Christ. I am grateful for the opportunity to have experienced this program – from the wonderful people I have met and worked with to the knowledge and wisdom I have gained. I owe it all to Him.







Michael Anthony Sánchez



Thomas Fellowship which afforded me the opportunity to complete field research at Mission Santa Barbara. This project would not have been what it is without exploring the Mission first hand.

the world's most understanding and generous employer, Carol Schirmer, who has been extremely flexible with my school schedule and because of her benevolence,

crucial in an endeavor such as this, it is also family that shoulders the biggest load. Deadlines, long hours away working on school projects and the many other facets of graduate school all have taken a toll on



Archive Library), was most helpful and generous with SBMAL's resources making my experience there a memorable one.

Thank you to my friend, mentor and colleague Gere Smith, for your unvielding

01 Introduction: Areas of Exploration

the visual dignity of the Spanish mis- at the same time each is different and sions that dot the coastline and inter- has its own history. This makes, not coastal valleys of California. Because I only the subject of missions interestlived out of state during my 4th grade ing, but emphasizes how each mission year I missed an experience that all offers distinct insights into their Californian 4th graders have – an op- unique histories. portunity to study the missions with the final product being a model of the mission of your choice.

The first mission I remember in a meaningful way was Mission San Luis Obispo de Tolosa while studying the shadow patterns of the facade during a college landscape drawing class. After graduating I lived in the San Francisco Bay Area and visited some of the northern missions along the coast. It wasn't until I moved to Santa Barbara years later that I started to gain an even more significant interest in missions as I began drawing, painting and photographing them.

While listening to a landscape history lecture on European monastic cloister gardens and their influence on architecture and landscapes outside of Europe, I was so struck by a photograph of a veranda at Mission San Juan Capistrano that I immediately knew I wanted to study the missions. 1 From

Narrowing it Down

As I began my research I quickly realized to study all twenty-one missions was a lifetime's worth of work, so I narrowed my focus to six, only to discover this also was too ambitious. With more reasonable expectations I shortened my list to two missions. In the end the subject became one. And, as I've discovered, one mission with so many fascinating aspects to explore could become a life's study.

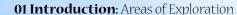
Drawing as Thinking

I wanted this project to be different; not a typical historical analysis of the landscape of the mission, nor a detailed historic rendering of the beautiful architecture and surrounding landscape. Nor was this to be merely a literary compilation. After days in the archive library at Mission Santa Barbara I was overwhelmed by the volumes

As a native Californian I never apthe outside each mission has features written on all of the missions by so preciated the historical importance or that are comparable to the others and many scholarly historians several of whom, being Padres had first hand knowledge and experience. No, this wanted to be a unique collaboration between all of the professionals that tell stories of the missions - architects, landscape architects, planners, artists, historians, Padres, Barbaraños, Chumash and so on - and to weave all of these into a product rich in illustrations and backed by interesting facts and sources. This project cried to focus on elements of the mission that most people might not see from their tourist viewpoint.

What I settled on is what a professor of mine termed a visual essay. 2 I chose this method as a way to communicate the rich history of these influential places but also as a way to more fully demonstrate the fascinating elements of the mission systems that would lead the reader to a greater appreciation of this complex that is part building, part garden,

part



Inspirational works.Left to Right:

Raising Hollers, Mississippi Floods: Designing a shifting landscape, Mathur and da Cunha, 2001

Casebook: Serial Vision. The Concise Townscape, Gordon Cullen, 1961

Whirling Disease, Delta Primer a field guide to the California Delta, Jane Wolff, 2003.

Above a Mud Plume, Mississippi Floods: Designing a shifting landscape, Mathur and da Cunha, 2001

Plan of Pusey House and Garden, Across the Open Field, Laurie Olin, 2000.

One of the pavilions and a Lebanon cedar as the deer see them from the park, Buckland House, Across the Open Field, Laurie Olin, 2000.

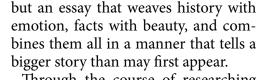
lore. Visual imagery is very powerful to how we learn, remember and communicate. I have an employer who, in just about every conversation, turns to paper and pen to communicate what she is talking about by drawing it. It works. Those images remain in my psyche long after her words have fallen silent and at a later date those images come back as helpful references.

The same situation occurs both for the observer as well as the drawer in communicating and observing any subject. Landscape architecture, as a profession, inherently uses graphic communication as a tool for conveying design ideas. Graphic communica-

contemporary mediums of computer generated line drawings, three dimensional modeling, digital photography and desktop publishing. With the advent and promulgation of the computer, much of today's graphic communication does not include to a great degree anything that is hand rendered.

This is unfortunate as many students and professionals have lost touch with a form of communicating that is critical to the very essence of creativity.

To create a visual essay, this body of work needed to rely heavily on illustrative, compelling pictorial-type images. And while the familiar early twentieth century adage echoes, " Every picture

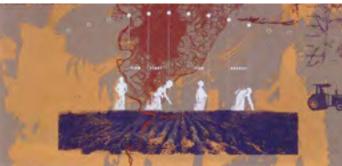


this project several individuals' work excited and influenced me and whose work presented in this document stimulates interest in the reader then individuals is imperative: Chip Sullivan, Jane Wolff, Marc Treib (as editor of several books on the subject of representational work in landscape architecture, art and architecture), Paul Hogarth, and many others. ³

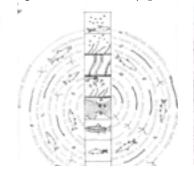
scape architect who implements, as what she calls over-drawings, a term Through the course of researching study a subject as well as to design a Fred Biel 5; a system of layering mulspace or place. In his book *Across the* tiple drawings, maps at various scales Open Field he writes a series of essays work I endeavored to emulate. If the on the English countryside inspired by drawings he did traveling through those places. 4 The words, while resofurther exploration into the following nant on their own, are ameliorated by the drawings and vice versa. What impressed me though was the fact that he wrote the prose to this book some thirty years after he drew the pictures. The physical act of "seeing" through drawing what you see is support of the

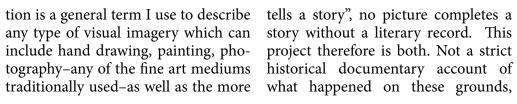
great impact on how I approached landscape architecture at the Universithis project. Laurie Olin is a land- ty of Oregon, implements in her work a design tool, the use of journals to she learned from Kathryn Gleason and and images to create something that is part map and part collage. This final illustration highlights details from each of the layered elements that together speaks more than would the individual element by itself. Liska's overdrawings are done primarily in pen and ink, a medium David Macaulay primarily uses in much of his work. Macaulay, author of such "Children's" books (many of which are equally B)









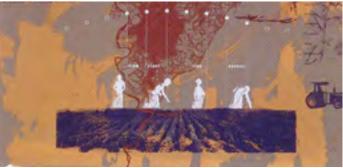


However, there were a key handful of professional artists, architects, planners and landscape architects who use drawing or other forms of graphic imagery in their work that had a

importance of visual imagery in documenting historic elements.

Also influential in how I chose to illustrate my subject were Liska Chan and David Macaulay. Liska, a professor of

stimulating and interesting to adults) as Cathedral, Underground, Rome and The Way Things Work, uses this simple yet powerful medium of pen and ink to denote texture, mood, emotion,





that are often demonstrated through hesiveness behind a town's architecthe use of color. ⁶ Another influential ture and a deeper appreciation for the source was landscape architect and arvarious elements of the visual aspects chitect coauthors Anuradha Mathur of a townscape. Clay's work deals with and Dilip da Cunha, in their book the evolution of the American city, Mississipi Floods Designing a Shifting especially the common elements that Landscape. Simultaneously support-typically get forgotten as background. ing their subject, the Mississippi River, By highlighting these elements he are contemporary and historic photographs, USGS contour maps, paintings completely the parts of a city or town by the authors, and multiple large scale screen print images that are collages of images, maps, historical facts and figures pertaining to the ever changing river. This compilation of information elements and how they were organized conveys much more appreciation for and worked together as a unit, as well the changing forces of the river than as the "background" components that would detailed written descriptions have often been overlooked compared alone. For example, a short essay acto the typical tourist "have-to-sees" companying each print gives histori- the familiar mission bell towers and cal or scientific explanations, however, fountain. How I chose to present and either element alone leaves the reader represent this information is the result wanting more.

Two other individual's work key of the aforementioned individuals. to how I approached this project are Gordon Cullen and Grady Clay. 7 Both wrote and researched extensively on the urban environment though from different perspectives. Cullen's Opposite Page: work involved the aesthetic principles Western bell tower from the Sacred Garden. behind what makes a town or "Town-

perspective and depth; characteristics scape" work, the organizational coshows how others can value more often take for granted.

These last two individuals, therefore, were influential in how I looked at the mission compound, its architectural of the impact made on me by the work





Mission Santa Barbara is known across the world as the Queen of the Missions. *She is without a rival among her sisters for* her majestic setting and imposing architecture. The venerable institution contains elements captured from dead and distant civilizations. The tastes of Greek and Roman, Moor and Mexican, Chumash, Spaniard and American are blended here into one organic whole. Her story is one of unbroken continuity and has been told by every famous visitor from Captain George Vancouver in 1793 to the uncounted writers of our own day.

At no time did the mission fully disintegrate as a building nor did the activity of its friars ever cease... Over her towers have flown the flags of three nations... She has adapted herself to the shifting scene of every epoch and to the need of every age... For this reason the history of the mission cannot be written in isolation. 1

While each mission had their edict

aynard Geiger, prolific author of Christianizing the Indians and es-**IV** of California's missions writing tablishing the region for Spain, many from the unique perspective of one of the missions played key roles in the who lived and worked as a mission development of the cities that grew padre, captures in the introduction of around them. Santa Barbara's mission his book on Mission Santa Barbara rose to prominence above the others. the importance and influence of this Her later responsibility as the repositomission from all others with these ry for the archives of all the missions, a function she still holds, is some indication of her importance to the other missions. Impressively, she is the only mission to have continuous care and operation by the Franciscans since her founding over two hundred years ago. This places upon her a well deserved mantle of honor.

> Stepping back from this individual mission to understand the beginnings of all the missions will elucidate the critical functions Santa Barbara had in the history of the mission landscape.

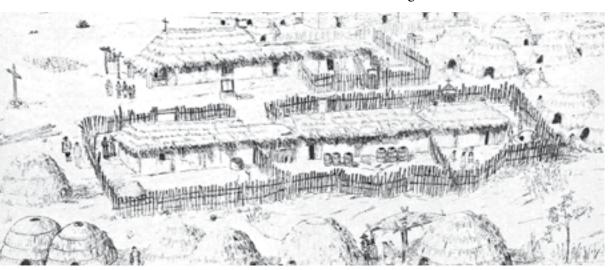
What is a mission?

The Jesuits (A religious order of the Catholic Church) through the directive of the Spanish Crown established twenty misiónes (missions) in Baja (lower) California between 1683 and 1767. Due to a growing concern that the Jesuits were amassing great power and wealth in the frontier of Nueva España or New Spain (are roughly

Secularization:

In 1812 Mexico gained her independence from Spain. The new Mexican government slowly began changing the structure of order established by the Spanish.

Since the missions, founded by the Franciscans, were seen as loval to Spain, they were eventually decommissioned as churches and sold as part of land grants. This resulted in many of the missions falling into disrepair and the padres fleeing the country.



covering the regions of today's Central America and a great portion of North America), King Carlos III expelled the Jesuits and replaced them with Franciscans in 1768. Considered more loyal to the king the Franciscans continued Spain's empirical expansion under the leadership of Fray Junípero Baja California before moving north to establish the first mission of Alta (upper) California in 1769, La Misión San Diego de Alcalá, located at the southern most part of contemporary California in the region known then as San Diego. ²

Serra, Father President over all of the missions, would go on to establish nine missions in Alta California before dying in 1784, two years before Padre Fermín Lasuén would found La Misión de La Señora Bárbara, Virgen y Mártir on December 4, 1786, the anniversary of the death of the patron

Serra. They established one mission in saint for which the city and mission are named. 3

> Both a noun and a verb, the Spanish Franciscan missions were outposts established to demonstrate legitimacy of



the Spanish government to claim the land as part of their empire. As a verb, the Catholic priests from the Order of

Left (Figure 2-1): The First Mission Buildings in 1787

Timber for this first mission structures was cut by soldiers from the presidio in Santa Barbara. All of these were of palisade or log construction with roofs of sacate grass, floors of earth and were surrounded by poles. (drawing by Russell A. Ruiz found in Maynard J. Geiger, A Pictorial History of the Physical Development of Mission Santa Barbara.: From Brush Hut to Institutional Greatness. 1786-1963. [Franciscan Fathers of California, 1963],5)

Center (Figure 2-2): The Founding of Mission Santa Barbara Mission Santa Barbara, the tenth of the California missions, was



founded on the afternoon of December 4.1786, by Fray Fermin Francisco de Lasuen, when he raised and blessed a large cross in a simple ceremony on the hill of Tanayan. (drawing by Russell A. Ruiz, ibid., 3)

Right (Figure 2-3): The First Mission Quadrangle in 1800

The third mission church was dedicated in March of 1794 It occupied the location of the present day stone church and remained in use until December, 1812, (drawing by Russell A. Ruiz, ibid., 5)

cans, along with military accompani- several decades after the secularizaments, saw the establishment of these tion (see sidebar previous page) and new cities (usually based near already decline of the missions. Much of the developed Indian villages) as their chronicling of activities of mission life personal calling from God and their and development of the mission archichurch.

proselytize the indigenous popula- century padres who wrote not only to come to know as the Spanish Francistion to the Catholic faith, teaching record events of mission history but them new trades and crafts, Spanish in many cases in an attempt to set the laws, customs and culture eventually record straight. preparing them to become citizens of Spain. While Spain's military capabilities were clearly superior to those of these indigenous peoples they chose to colonize this "new world" through relatively friendly methods rather than by force. While their success was mixed, their impact on the development of the towns and cities that grew around these mission compounds is obvious and profound. Contemporary cities such as San Diego, Los Angeles, San Iose and San Francisco all had humble beginnings first as Indian dwellings then as missions before becoming the major metropolitan landscapes so familiar today.

missions is a result of the padres

Friars Minor, better known as Francis- themselves, which they did primarily tecture and grounds were the result Part of the padres' "mission" was to of late nineteenth and early twentieth building the fantastic icons we have

Fray Zephyrin Engelhardt, writing in his book The Franciscans in California, points out that the early padres, more interested in their work as missionaries serving their fledgling parishes, failed to document satisfactorily the accounts of those early years. As a result, much of what is recorded after 1785 is based on the research and observations of Protestant historian H.H. Bancroft. 4

Ignorant and prejudiced to some degree about Catholic practices Bancroft often portrayed the padres in poor light choosing to emphasize a narrow perspective of mission life that of the native Indians and their The prolific documentation of the plight of losing their culture as it had existed for millennia before the arrival

of the white man. 5

Regardless of the sensitive nature of historic descriptions or the intentions of the historians, many treasures can be culled describing the extraordinary feat accomplished by the padres along with the Indians who helped them in can Missions of California.

Santa Barbara

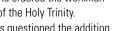
Known affectionately as "The Queen of the Missions", Mission Santa Barbara sits impressively at the base of the Santa Inez Mountains where she commands views of the Channel Islands and watches protectively over the city. A continuous work of over two hundred years, the humble beginnings of this mission elucidate the origins of her name.

How and why were the missions named?

What's in a name? Invaluable not only as a means of identification, a name distinguishes a place or person from other similar people or places.

After time, a name also develops a mented existences the veracity of the

history with which events are associ- life and death of Saint Barbara is less ated, becoming the source of stories, so (see sidebar). Regardless, her imtales and folklore, blurring the line portance is demonstrated through the between truth and legend. Santa naming of the city. The town and pre-Barbara is a clear example of this. As sidio adopted the name in 1782 under a Spanish colonial settlement whose Father Serra and then Governor Neve official religion was Catholicism, the on April 29 from the name which had name of each of the missions was at- been given to this passage nearly two tributed to a patron saint. In the case hundred years prior when Spanish ex-



in the Roman government was confined to a tower by her father to protect her from potential suitors. Before leaving on a business trip, Dioscorus ordered a bath-house built for his daughter. Barbara, a recent convert to Christianity, saw that the house had only two windows and ordered the workman to add a third, a symbol of the Holy Trinity. Upon his return Dioscorus questioned the addition of the third window and was angered by Barbara's confession of her new faith and ordered her delivered to Martinianus, prefect of the province of Nicodema (modern day Turkey). Martinianus had her tortured for proclaiming her belief in Christ and eventually sentenced her to death by beheading. Her father carried out the sentence using his own sword. The story says that, as punishment for his cruelty he was struck down by lightening on his way home.

Sometime during the 3rd century, Barbara, daughter

of Dioscorus, a rich heathen and prominent figure

The legend of Saint Barbara:



Left, Figure 2-4:

This is one of the most traditional views every tourist photographs and is the view most likely seen by visitors almost two hundred years ago as they arrived from downtown. It is not difficult to understand the attraction once you have been here. Nestled amongst the rustic Live Oaks and Sycamores romantic ideas bloom of lazy summer afternoons. Protected from the sun you can almost hear while sitting in the shade of the Pepper trees the Chumash women tell stories as they washed laundry by the fountain.



of Santa Barbara it was La Señora and martyr Lady Barbara.

While many saints have well docu- that saint.

plorer Sebastián Vizcaíno arrived in Bárbara, Virgen y Mártir or the virgin the area on the eve of Saint Barbara's Day in 1602, christening the area after

town that were established there before passing on the charge of Father Presiits own 1786 founding. 7

When were they built?

Leaving San Fernando, Mexico on July 14, 1767, Fr. Junípero Serra led nine padres on a journey that would begin the establishment of a chain of twenty-one missions. The expedition grew and eventually included ships dispatched to support the expedition.

Two years later, both land and sea expeditions arrived at the small port village of San Diego. Leader of the ex-22 pedition, governor Gaspar de Portola chose to continue by sea to search for Monterey Bay. Before leaving San Diego by land to establish additional missions Fr. Serra founded both the presidio and mission in San Diego in honor of Saint Didacus of Alacalá, a 15th-century Spanish Franciscan. 8

Portola eventually found Monterey Bay, having earlier overshot it due to unfamiliarity with the region and along with Fr. Serra founded El Presidio Reál de San Carlos de Monterev and the Mission San Carlos de Monterey on June 3, 1770.

Mission Santa Barbara acquired its Carlos, Fr. Serra went on to found climate and associated plant and geo-Fr. Fermin Francisco Lasuén then in charge of the mission in San Diego. 9

Mission Santa Barbara was founded in a ceremony on December 4, 1786 Highway 101 between San Diego and by Fr. Lasuén (see figure 2-2) who Sonoma are sculptural features in the would go on to establish nine more missions. 10 While this date marked hanging from the neck of the staff. A the beginning of this mission, the familiar landmark to most Califoractual building and future compound with its associated systems of gardens, waterways, structures and ceremonies would not be completed for another forty years. As the only mission to survive the secularization of the mission chain and maintain her function as an operating church by the Franciscans, Santa Barbara can arguably maintain that its influence on architecture and landscape is yet to be completed.

Where were they built?

Primarily established along the coast, many with ocean views, some missions extend inland but always enjoyed some influence from coastal weather. While all missions are considered Along with San Diego and San part of Alta California's coastline, the

name from the presidio and thriving nine missions before he died in 1784 logical communities are considerably different between the southern most dent of the Alta California missions to mission San Diego and the northern most mission Sonoma just northeast of San Francisco.

> Situated along California's interstate shape of a shepherds staff with a bell nians and visitors these bells and staffs mark the general location of El Camino Real, Spanish for "The Royal or King's Highway" whose original path was like no highway familiar to drivers today. 11

> Simple in nature, often just a worn path in the soil and rock from many a wagon, hoof and foot this "highway", more accurately interpreted as "way or path", was the connection between each of twenty-one Spanish Franciscan missions established approximately a day's journey by foot from each other. While technology has streamlined the journey for automobiles, adherence to the general form of the Royal Highway is testament to the astute site-planning capabilities of the early search parties.

Opposite Page:

Sunset at the Mission.





States brings about another frame of lish a presence in these lands through reference within which to understand the guise of proselytization. Both the them; one of context and scale. Each padres and the neophytes (converted mission is not a stand-alone relic or indigenous peoples) were caught in monument. It clearly has connections the middle of this imperial struggle. to European influences in architecture, placement of aqueducts.

Global Context

These Spanish outposts were multifarious in purpose. One such intention was to lay claim to or retain land already claimed from other exploring nations such as Russia or France. 1 A more honorable objective was intend-

The missions' association with ed by the Franciscans, who were en-■ Spain, Mexico and the United couraged by their potentate to estab-

Less controversial was the style of garden design and religious practices. architecture implemented at the mis-Concurrently, a local vernacular is sions. When observing various built is seen in the journey made by Fr. José evident in the use of regional build- elements of the church there can be Maria Romo who in 1872 arrived from ing materials and the many cultural little doubt that the designer, mason a mission outpost in Egypt to shepcustoms tied to the various indigenous and builders had outside influenc- herd a fledgling Boy's College known tribes, thereby illustrating a global es. The Roman architect and writer as Colegio Franciscano as well as presence and scale of operation. A Marcus Vitruvius Pollio in his service preside over Mission Santa Barbara. 4 provincial or regional context tied ex- to the emperors wrote a series of books. By this point in her history, Mission plicitly to the geography of each mis- known as De Architectura Libri Decem Santa Barbara had seen the rise and sion's location is noticeable from the or Ten Books on Architecture, which fall of the mission system, had surway and location where each mission has been translated into five or more vived the devastation of secularization is sited. Additionally, site context and languages and was the standard in and the deterioration of the buildings scale is observed in the craftsmanship Europe during the Renaissance. ² In and grounds as a result. Hopeful were of such features as fountains and the his book Mission Santa Barbara, 1782- the padres that Romo's presence would 1965, padre and archivist, Maynard Geiger, describes how the mission built perity. for the primitive Chumash borrowed architectural styles from ancient and diverse civilizations. Graeco-Roman Kryder-Reid in her significant article, techniques can be seen in the facade

in the 1804 fountain out front; and the towers, tiled roofs and inner courtyard exemplify typical Hispanic and Hispanic-American styles. Geiger highlights that significant parts of western and eastern culture patterns emanate and blend harmoniously here at Santa Barbara's mission. 3

Another illustration of global context turn the tide of decline to one of pros-

On the origins of California's Mission gardens, professor Elizabeth "Perennially New" Santa Barbara and splayed windows and doorways and Garden, describes Romo's journey from Egypt to Santa Barbara that took when he was called to be superior him through Sicily, Italy and France where he visited monasteries, palaces, churches, convents, cemeteries, and seminaries along the way. 5 His sojourn through Europe influenced him eventually leading to the development of the ornamental courtyard gardens at the mission compound and the adjacent college.

(*Panel*, pages 30-31)

Contextually the Franciscan mis-Nueva España, or New Spain, that included Louisiana which was annexed by Spain in 1763 after the Seven Year's War but given back to France in 1801. an historic collection of maps by carthis drawing shows the immense land

was serving as a missionary in Egypt mental ironwork, and white stucco.

over Santa Barbara.

Regional Context

The perceptive visitor to one or more of the missions may notice that the mission they are visiting is not a stand- alone monument or artifact, but a companion to other historic buildings and landscapes. Together, there are a chain of twenty-one individual mission compounds, which at one time included associated vineyards, sions were simply a small outpost of orchards, gardens, livestock ranches, and in some cases presidios or military compounds. Nonexistent at most missions and displayed mostly through drawings or artwork are the corre-This drawing was created over a map sponding communities of indigenous made by Cassini in 1790 and is part of Indians where the missions developed.

tographer David Rumsey. Scale-wise, livestock population, of baptisms or Barbara was the tenth mission in a weddings for any individual mission, Spain controlled and how these mis- or the impact of these reports on the nia or upper California. Mission San sions were only a small, albeit, impor- birth of the state of California as most Diego at the very southern end of tant part of Spain's imperial ambition. know it today. More obvious from San Alta California was the first mission Another part of this drawing is the Diego to Sonoma is the similarity of and Carmel Mission was the second, diagrammatic route of Padre José materials used. An astute observer will located almost at the northern most Maria Romo in 1872 previously men-see kiln dried roof tiles, adobe brick, tioned in Kryder-Reid's article. Romo many varieties of carved stone, orna-

This strong physical connection between the missions unified their efforts and distinctly highlights their regional context despite the fact that each of the missions had a unique look and geographical setting. While the Romans built cobbled roads between their newly conquered cities as a means for efficient circulation and transportation of their military and equipment, the padres carved but a simple path through the rough terrain, affectionately known as El Camino Real, the Royal Road. Today, that historic path finds a parallel in California's State Highway 101, often referred to as the 27 Mission Trail.

(Panel, pages 32-33)

This second drawing illustrates The harvest records of field crops, of Regional context and scale. Santa chain of 21 missions in Alta Califorend of Alta California. The majority of the remaining missions were established in between these first two. Un-

03 Context/Scale: Global · Regional · Site

logical landmarks such as major rivers Mission in Santa Barbara feels approand islands along the coastline empha-Simple crosses indicate the location of each mission and a dashed line indicates El Camino Real also known as the Royal or Kings highway connecting each of the missions. Images of all 21 missions highlights the similarities of all of the missions while pointing ture. out the contrast between each of the individual designs.

Site Context

While the many facets of the global and regional scale and contexts are fascinating, the scale of the site and how it fits into the larger local landscape begins to connect the mission with other aspects of the area. These other "aspects" are identified as systems of the mission and are highlighted in Chapter 5. Archeological context is the environmental and locational glue that connects elements together and is what gives relational perspective on a subject when observed. For example, seeing an igloo in Santa Barbara while visiting the mission would trigger an awareness that the igloo was out

embellished delineation of basic geo- of context. The context of the Old priate, maybe more so than some of size the austerity of this rugged land. the other missions, because the architecture of Santa Barbara is heavily influenced by the mission architecture as well as Spanish colonial architecture. Whereas, cities that have developed around other missions in this chain power position over the presidio, or have utilized other forms of architec-

> Context also comes in different scales or sizes. For example, the overarching benefits of a Red Cross are international, however, their impact is felt on a regional or local scale as well. The Spanish Franciscan missions were no different. The far-reaching power and influence of the Spanish Empire and their powerful fleet of ships was evidently global in scale, leaving their mark on continents, countries, regions, and down to small communities. Evident in visiting these missions is that they were influenced by another time and place.

> Established four years after the Presidio of Santa Barbara (military base) the mission chose as its site a knoll at the foot of the Santa Ines Mountains

approximately sixty feet of elevation above the presidio. As can be seen overt architecture is today still a landfrom a historic rendered elevation mark in the area. from 1798, viewed from the Santa (Panel, pages 34-35) Barbara Channel, the mission rests This third as the highest structure in the area. While the siting of the mission affords obvious views it also establishes a

any other structure for that matter, in-

cluding any Chumash villages. While

other buildings developed over time

around and eventually a b o v e

of those early explorers. Emphasized through this drawing are the topography, rivers and estuaries, proximity of buildings to each other as well as to natural site features. The mission site seen here was called Pedregosa or place of stones by the Spanish

drawing

also increases. Working across mul-

tiple scales has afforded this author an

appreciation for the valiant endeavors

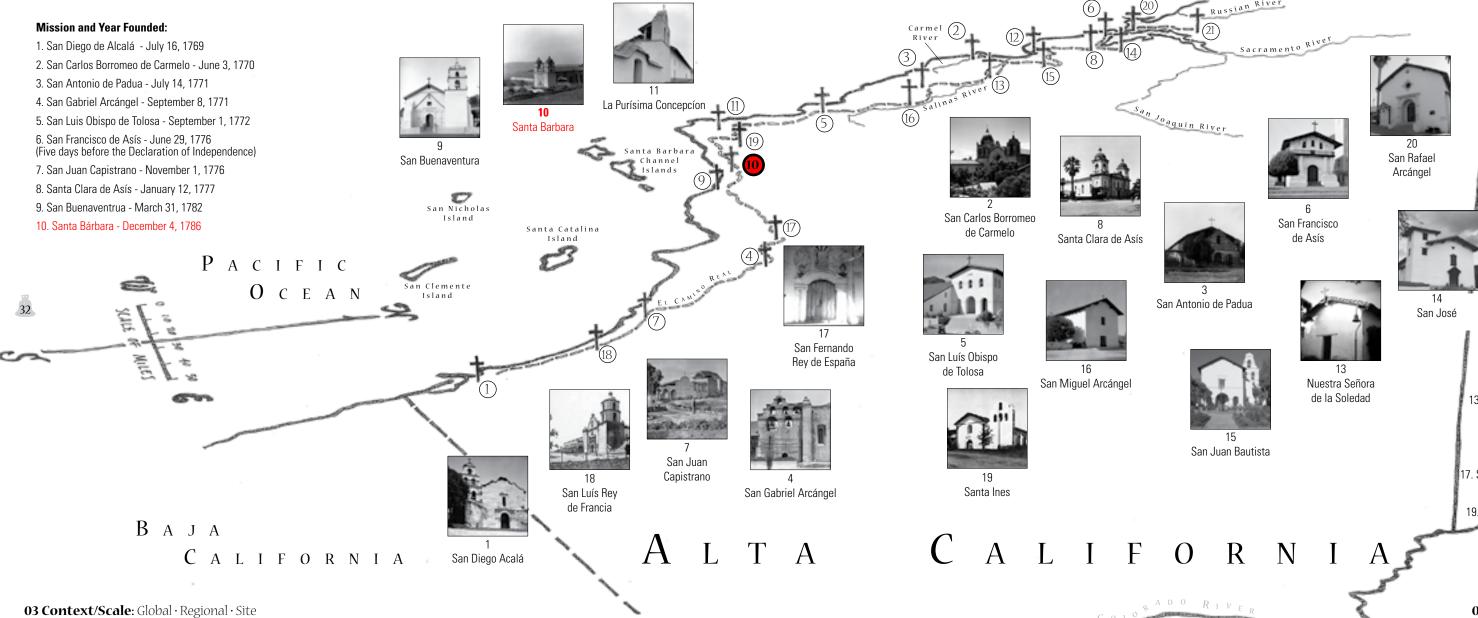
the mission, its prominence due to its scale and context. As scale transitions and was chosen for its prominent locafrom the rougher global scale to the tion over the Presidio or military fort finer site scale the level of information and the town in general. While not as obvious in this plan view, the siting of the mission is conspicuous in the historic intaglio elevation of the coastline from the channel near the islands.

View from above towers:

The Mission's ideal location for visibility and prominence was specifically chosen for its commanding view and presence over the town

03 Context/Scale: Global · Regional · Site





San Francisco Solano



Sant Cruz

Mission and Year Founded:

11. La Purísima Concepción - December 8, 1787 12. Santa Cruz - August 28, 1791

13. Nuestra Señora de la Soledad - October 9. 1791

14. San José - June 11, 1797

15. San Juan Bautista - June 24, 1797

16 San Miguel Arcángel - July 25, 1797

17. San Fernando Rey de España - September 8, 1797

18. San Luis Rey de Francia - June 13, 1798

19. Santa Inés Virgen y Mártir - September 17, 1804

20. San Rafael Arcángel - December 14, 1817

21. San Francisco Solano - July 4, 1823

Photo Credits: See page 102 **03 Context/Scale:** Global · Regional · Site





called it, is the mission building – bell towers, sanctuary, chapel, verandas, and dormitories - which together, are definitively the iconography of vated the gardens? And what tools and mission looks today?

Santa Barbara had very humble begin- 1794, the adobe structure, plastered ³⁸ nings. Two missionaries Fray Antonio inside and out, measured 45 by 9 1/2 Paterna and Fray Cristóbal Oramas varas and its adjoining sacristy 9 1/2 were charged with the task of a new by 5 varas (123.4 ft. x 26.1 ft. and 26.1 mission settlement and built the first ft. x 13.7 ft. respectively). Its original buildings, simple, rough, even crude site occupies the same location as the log cabin style structures called palipresent and final stone structure.² sades, with grass (sacate) and earthen roofs.1

ters for the padres, the chapel and store- the presidio and interior wing looking rooms. But before the mud had dried upon what would someday be the with a southeast exposure overlook- northerly direction from the original ing the presidio and channel islands. leg was begun with corridors of plas-

Nor Pedregosa as the Spanish site of the mission by Paterna has remained the same.

stage of development were adobe and tile roofs, and by the end of 1787 mission culture. But who built this Paterna had built four rooms, the bechurch, who made the adobe, cut and ginnings of what would become the dressed the stone, fired the tiles, culti-quadrangle of the mission compound.

Subsequent padres added onto the techniques did they employ? What work begun by Paterna eventually events over time impacted the way the adding more rooms, a larger chapel and side chapels, the addition of a sac-After her founding in 1786, Mission risty and the siting of the cemetery. By

The quadrangle grew over the next several years, first with the addition The first buildings were living quar- of arcades along the exterior facing

nooted in this rocky landscape. The orientation and placement of the tered covered brick columns completed by 1800.

> Adobe was an important material The materials used in the second for walls but unlike the stone lintels used in the Greek and Roman temples it could not span to provide support, so timbers of sycamore or poplar were



used until they began to rot. They were eventually replaced by pine from distant mountain ranges.

Various other buildings were constructed around the mission combetween the palisades Paterna already sacred courtyard. In 1797 the second pound serving functions such as had plans for a permanent structure leg of the quadrangle heading in a a guard house, tannery and living quarters for the Indian converts. The Indian homes were the first formal were located immediately adjacent to the front quadrangle.

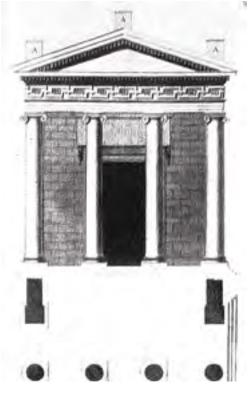
ordered in linear rows facing each

other to form streets that intersected

each other at ninety degree angles and

While all of the missions were built in a "New" world, their design and construction was most evidently influ-

planned housing development in structures of civic importance. Many Santa Barbara and constituted a house cities boasted well known architectural with one window and door built back monuments already centuries old. As to back with other houses. These were such, construction in Alta California



was considerably "behind the times", enced by the "Old" world. Major cities at least by European standards which, of Europe during the late 18th century stylistically speaking, had already seen already possessed many significant the eras of Baroque, Renaissance and buildings such as churches, palaces and Gothic periods, all of which improved

Left, Figure 4-1:

View of Mission Santa Barbara's facade as of February. 2009. The entablature and pediment of the original Graeco-Roman design (See Figure 4-2) and the finished mission facade show great similarity. The entablature, which appears to be supported by the false ionic columns is almost directly reproduced from the architrave and frieze (with its fretwork) from the original Vitruvius



Center, Figure 4-2:

Plate X from the 1787 Spanish edition of Vetruvius' De Architectura Libri Decem [Los diez libros de Architectura] illustrates a Greek Temple with Ionic columns. The three bases labeled "A,A,A" are replaced in Santa Barbara's facade with statues. 3

Right, Figure 4-3:

Statues of Faith, Hope and Charity (from left to right) are placed on the pediment. A niche carved out in the center of the pediment makes room for a statue of St. Barbara

04 Mission Construction: Built Elements

04 Mission Construction: Built Elements

styles of the classical architecture of tinents is an illustration of a Greek to a part of the mission but describe antiquity, those of Greece and Rome.

Era its historic influences could be didetail and proportions can be seen in rectly seen in the architectural design the mission design. of this mission's facade.

1812, Fathers Gil and Amestoy con- of the landmark cities and geologic curred that the December 21 earth- features such as the Channel Islands. quake had inflicted so much damage While most of California's coastline that it made more sense to rebuild than runs north south, this part of the coastto repair. 4 Construction on this fourth church began in 1815, completed in North American and Pacific plates the 1820, and is the basis for the magnificent structure that exists today.

Mission Construction (Panel, pages 44-45)

This over drawing of maps and illustrations describes the influence of European architecture on the architectural design of Mission Santa Barbara's facade. One plan view is scaled to show Western Europe, the Mediterranean Sea and North Africa as well as a portion of North America as it was mapped in approximately 1790. **04 Mission Construction:** Built Elements

or altered in one form or another the Included in this comparison of con- These generic images are not specific Temple as shown in Vitruvius's Ten However, European influences Books on Architecture, of which the played a major part in the design and facade of Mission Santa Barbara was look of Mission Santa Barbara. While modeled. While not a direct copy of Europe was well into the Neoclassical the ancient temple design, much of the

Overlaid on the world map is part of After a devastating earthquake in the coastline of California with some line, due to the geologic collision of the Transverse Range of the Santa Inez mountains shift and the coastline here runs east west. The solar exposure due to this different orientation creates conditions that make Santa Barbara and much of the surrounding coastline more amenable to growing crops than other coastal cities north of this latitude.

> Pictographs illustrating a stone quarry, timber harvesting and adobe production again speak to a different scale than the world or coastline maps.

some of the materials used in the construction of the mission.

Santa Barbara Church Floor Plan (Panel, pages 46-47)

Five floor plans of the church as it changed during early development over a roughly thirty four year period are overlaid on a floor plan of the church as it stood in 1963. While many smaller changes and remodels occurred after the period of secularization (term used to describe the decommissioning of the missions under the new Mexican government after their independence from Spain) most of the original design has remained intact.

Overlaying the floor plan of the church from different periods on top of the floor plan from 1963 highlights a couple of interesting observations. One, is the contrast of a Western design mind set to that of the indigenous peoples. The Chumash in this area lived in single room domed structures and the Indian Pueblos they built within the mission compound were simple single room abodes connected wall to wall with their neighbor. While

the padres lived in modest rooms themselves, these were adjoined to a much grander edifice – the church.

of the church, as illustrated in the lower right-hand corner of the panel, was chosen in particular for its imposthe mission a frame of reference el- devastating earthquake of 1925. Conevating the mission and all it stood for cerned that these cracks would lead to as the most dominant feature in the further damage and make the facade is of uncertain location. However, landscape; second only to the moun- vulnerable to another earthquake, a because of the widespread damage it tains whose feet the mission rested.

through pixilation emphasized the reconstruction period of the missions, must be replaced. did civic and private structures rival the position and importance of the mission in the landscape had passed.

Construction and Earthquakes (Panel, pages 48-49)

In Maynard Geiger's book, A Pictori

engineer's drawing illustrates the positions of hundreds of cracks and fissures decision was made to facilitate more caused, it was estimated to be as large Choosing to render this illustration research into the cause of the cracks.

It was found the that the cracks were center somewhere offshore, possibly 41 depth and prodigious exterior over the not the result of shifting footings, indiminutive structures surrounding it, ferior materials or poor craftsmanship. inland epicenter, somewhere in presnone of which came close to the scale It was determined the cause of the ent-day Santa Barbara County, or even of the mission. Not until many years cracks was due to a chemical reaction later as the city developed during the between the cement and aggregate. As late nineteenth century years after the a result it was decided that the facade

These cracks mysteriously appeared that of the old mission. By this point a mere twenty five years after the repair and construction of the towers destroyed as a result of the earthquake of 1925. Two new towers and the quake caused, no deaths were reportfacade were rebuilt on deeper stronger ed. footings and more durable material

al History of Mission Santa Barbara an was proposed. Construction began in 1950 and completed in 1953. ⁵

While the cracks shown in the en-The perspective showing the facade on the facade of the mission prior to gineer's drawings were not the result 1950. At first glance these cracks and of earthquakes, these geologic confissures appeared to be the result of vulsions most certainly impacted the damage due to earthquake or tremor. mission in two separate centuries. The ing angle. This formidable prospect A mystery to all for the mission facade first quake struck on December 21, put for all who lived in, near or around and been completely rebuilt after the 1812, the second on the morning of June 29, 1925.

> The epicenter of the 1812 earthquake as magnitude 7. Studies locate the epiin the Santa Barbara channel, but an Ventura County, cannot be ruled out.

This earthquake destroyed the church at Mission Santa Barbara, and caused near-total destruction at several other missions most notably Mission Purisma Concepcion, near present-day Lompoc.

Despite the extent of destruction this

The 1925 quake was altogether a dif-**04 Mission Construction:** Built Elements century, building standards were not earthquakes not only to the mission keeping up with the rapid growth and as a result much of the business district was ill prepared for even a considerably smaller magnitude quake of 6.3. 6

As a result thirteen deaths were reported from this earthquake. Many deaths were avoided by the fortunate timing of the early morning shocker, which would certainly have taken more lives as the business district which was almost completely leveled. This district was eventually rebuilt to strict seismic standards as well as ar-42 chitectural guidelines that make Santa

ferent scenario. During the late 19th tant because they link the history of the facade but also to the unique character of Santa Barbara architecture.

> After the 1925 earthquake, Santa Barbara created an architectural review committee to guide the look and development of the architectural design of the downtown core.

Adobe and Earthquakes (Panel, pages 50-51)

The images and text on these pages were the result of an assignment for a class in landscape perception. Arguing that because the mission buildings and

rological activity such as rain storms and wind have on the material adobe. Exploration of this material and nature's affect on it lead to the proposal of an art installation.

Adobe Brick and 1925 Earthquake:

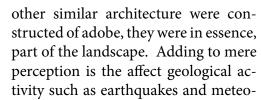
- All images of adobe bricks and the making of the adobe bricks are by Kenneth I. Helphand.
- Title: Old Mission, Santa, Barbara Quake, 6-29-25 Collection: James D. Phelan Photograph Albums, Volume 94 Old Mission, Santa, Barbara Quake, 6-29-25. Contributing Institution: The Bancroft Library. University of California, Berkeley.





Barbara the iconic Riviera of North America. The crack lines which are made up of text describing the earthquakes that occurred in 1812 and 1925 are impor-

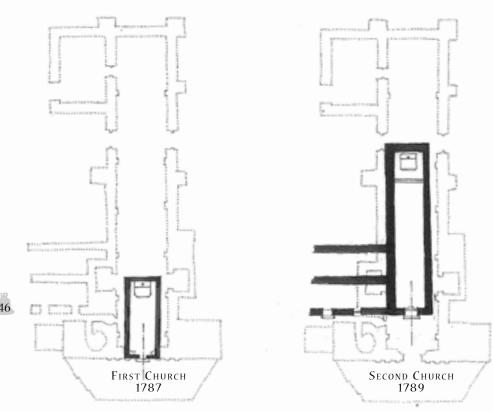






04 Mission Construction: Built Elements





Chapel/Church Construction: Early Chapel and Four Successive Churches of the Old Mission Santa Barbara

Plan of the Mission Church as of 1963:

- 1. Sacristy since 1927.
- 2. Door cut into stone wall from sacristy to sanctuary, 1927.
- Sanctuary.
- 4. Communion railing.
- Original sacristy, 1820.
- 6. Columns and arches of cut stone forming ambulatory built in 1927 replacing an earlier one of cement columns of 1893.
- **04 Mission Construction**: Built Elements

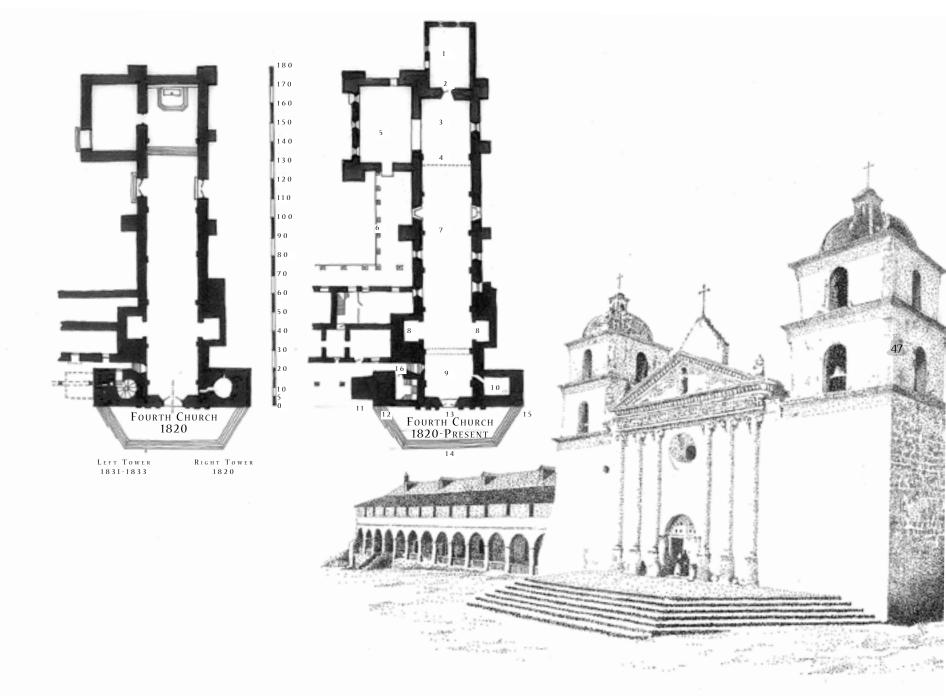
- 7. Nave of the church, 1820.
- 8. Side chapels built in 1815-1820.
- Choir loft area built in 1820 remodeled in 1909, 1927 and
 14.
 1953
 15
- 10. Baptistry since 1953. Above the baptistry is the blower room for the pipe organ, 1925-1953.
- 11. Buttress of 1953 replacing the one probably built in 1833.
- 12. West tower built in 1953 replacing the foundation built in

1820, and the belfries probably built in 1831-1833.

THIRD CHURCH

1794

- 13. Facade of church of 1953 replacing the one of 1820.
- 14. Original stone steps f 1820 partially replaced in 1927.
- 15. East tower of 1953 replacing tower of 1927 which in turn replaced an earlier one of 1820.
- 16. Stone stairs of 1820 (replaced in 1927) covering the earlier stone stairs of 1794.





The Spanish word adobe, translated via the event of an earthquake(s) and **1** as 'mud brick', has been part of the American Southwest for thousands of and cultural landscapes of the Missions. years. Most notable are the Pueblo villages of Mesa Verde and the twenty one eighteenth-century Spanish Franciscan Missions of California.

of any adobe structures, a more critical component, especially in the American buildings as under more quickly – earth- cations to build the adobe walls. quakes. Inextricably tied to geologic time an earthquake's impact on built and boundaries imposed on the land structures varies from simple cracks to and the indigenous people through the complete destruction.

This experimental installation (See Figure 4-5) seeks to explore the short- priests. Each wall will be the width of lived, yet ancient material of adobe and its relationship to both geologic time

chronicled time in its use in the religious

Sun-dried adobe bricks will be used to build a series of twenty one walls composed in a radial pattern. This circle of walls, symbolizing the cyclical and The bricks were used with mud boundless qualities of time, will span mortar to build structures ranging portions of an earthquake fault in the from walls and simple rooms to large area of Lompoc, California – location of churches and compounds. While aging Mission La Purísima – in order to inand the use of this ephemeral material crease the probability of cracks in the plays a significant factor in the demise walls. Various United States Geologic Survey Probabilistic Seismic Hazards Assessment Maps (See Figure 4-4) will Southwest, rendered these particular be analyzed to determine prime fault lo-

The walls represent the expansion construction of the Missions by neophytes (recent converts) for Franciscan a brick module (approximately 18x24x4 inches) and will vary in height and length as each of the twenty one Missions are similar yet unique.

Cracks and fissures, the result of earthquakes and weather will demonstrate the passage and effect of geologic time, drawing visitors to the rich, infinite blackness that results from the void left by stones or crumbling earth. Disintegration and decay reveal aging, a simile for the corresponding conditions of the extant Missions.

Chaparral and other indigenous flora will be allowed to grow freely through and around the aging walls signifying the healing of time that still may be needed by those descendants whose ancestors were displaced or exploited by the Spanish and ensuing Mexican settlers and eventually American settlers.

Adobe can be a durable material but if left unprotected it will return to the earth as mud and dust. While the missions are cultural icons of California's history, preserved as state monuments, much of the original materials have been lost or since replaced. This semitemporary installation seeks to specifically draw attention to the mission landscape of past and present through the impermanent and historical nature of the adobe material and impact future generations through image or written record only.

This installation (never installed) was part of a proposal based on an assignment for a class in Landscape Perception, taught by Kenneth Helphand. The poster and graphics in Figures 4-4 through 4-6 were supporting

Figure 4-4, Background Image:

Seismic map showing fault lines around the region of Lompoc. California Red indicates fault lines that project would be located over.

Figure 4-5. Opposite Bottom:

Experimental art installation exploring the material Adobe.

Figure 4-6, Right:

Illustrative poster submitted for LA 585 Landscape Perception, exploring the use of adobe as a building material in the landscape. Images of adobe being made, an art installation by Andy Goldsworthy combined with graphics of maps and data measuring geologic movement are combined to explore adboe through time.





had several systems that were pivotal to how the individual mission funcworld.

These systems included the physical parts of California. ¹ buildings or compound of the mission, the agricultural and horticultural invented for yet another century. ² gardens, livestock and animal husbandry, the water system and its ancillary components of dams, aqueducts, extensive lands surrounding the misreservoirs and fountains. And while sions. Some of the neophytes were not wholly physical, ceremony, was as much a part of the everyday life of the mission as our own circadian rhythm, common a job for Spanish soldiers. and as such can be seen as a metaphor for how the mission operated.

Livestock/Branding

Critical to the survival of each mission was a steady supply of livestock: beef and dairy cattle, oxen for plowing and hauling, horses, sheep and all of the by-products made from

ike an organism that has biothese animals. As each mission was es-Logical systems critical to the or- tablished a certain quantity of livestock ganism's survival, so too the mission were given to the newly established mission by the crown along with grain, seedlings, hardware and other tioned. These systems were also crucial supplies. Similarly to agriculture, liveto how well the regional mission chain stock would multiply, however, more managed and ultimately how success- exponentially than any plant, leaving at proliferating colonies around the industry that would begin the era of Crown of Spain. 3 Most of the brands large ranchos throughout many other

> Barbed wire fencing would not be Growing herds were allowed to roam and the majority of cattle spotted the allowed to learn and were trained how to cowboy, but it was much more Since the range of cattle was so extensive it required Spanish cowboys, or vacqueros as they were called, to be away from the mission for extended periods of time. Asensticias or small mission-like chapels were built on the range land in order for padres to administer daily mass to those working

While it was common for each of the missions to support each other with supplies and equipment, especially when a new mission was established, each mission had its own identity when it came to cattle. Unique cattle brands were created at each of the twenty one missions, carrying on an ancient tradiful the mother country of Spain was a larger mark on the landscape and an tion as well as direct orders from the

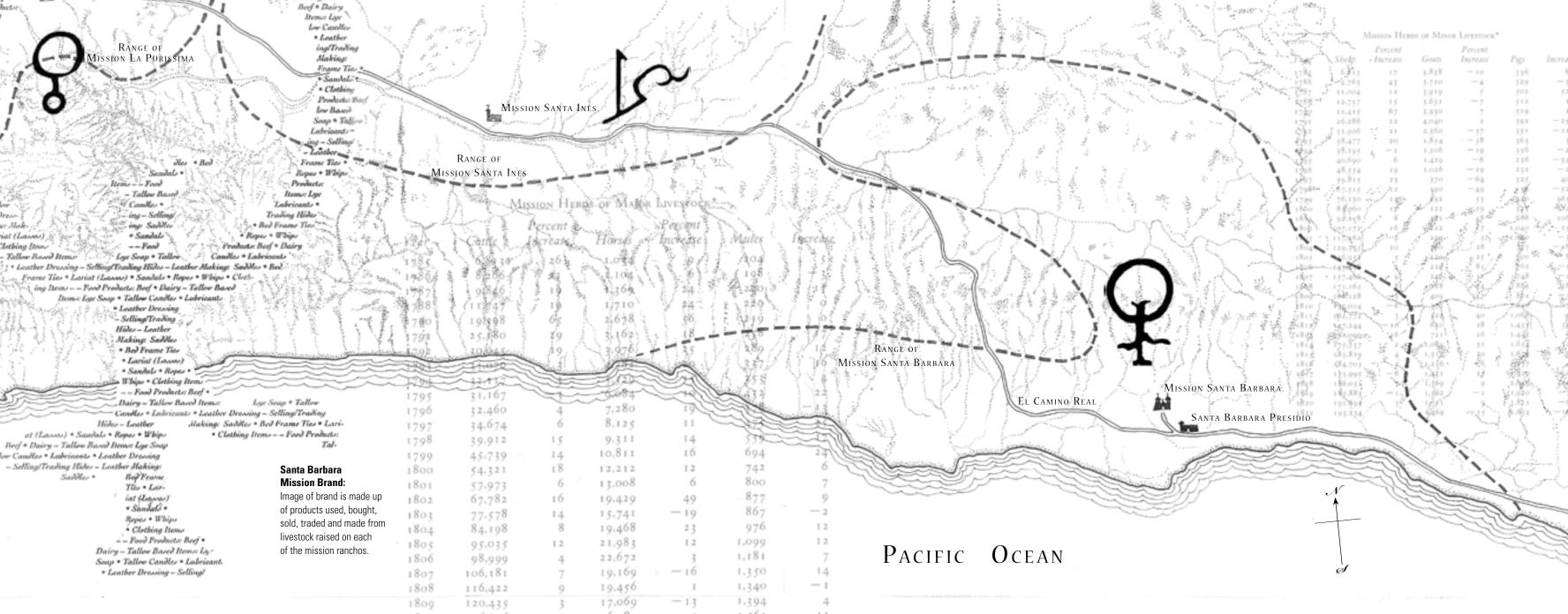


were typical of the day utilizing capital letters or numerals. However, some were completely symbolic employing glyphs, in this case circles, crosses or decorative serifs on the capital letters.

symbols is distinctly ornamental with a rugged beauty, however, somewhat of a mystery with mission historians who have applied basic assumptions as to the meaning since no specific defi-

extending then to Spain's practice but should be shown at harkening to an even older exercise the top with the begun by the Egyptians. 4 Santa Bar- cross-like shape bara's cattle brand is no less a splendid example. Its unique combination of

Figure 5-1. Left: Professor Kenneth Helphand men- nition is found in any of the records. Branding iron with Mission Santa Barbara's brand. tions in Ranch Gates of the Southwest Contributing to misinformation about that brands were often "beautifully this brand is its orientation which Figure 5-2, Right: decorated and highly ornamental", car- often shows the symbol Woodblock print of Mission Santa Barbara brand. rying on from a long line of tradition upside down. The circle By Author. Meaning of Brand: Circles have below. (See often in Figure 5-1 Christianity represented and 5-2) unity and/or (Panel, symbol below pages 56-57) the circle in Described many of its variations this appears as 55 drawing is the a growing vast range of tree or plant. In some instances land controlled the "branch-like" by Mission Santa horizontal line(s) have Barbara and the partial been shown straight making it look more like a cross. Either lands controlled by Santa of these uses can represent life, whether Inés and La Purissíma, divided by the qualities of a biological organism or the the Santa Inez Mountain Range. As "life-giving" sacrifice of Christ who died on the cross. Together with the circle a reference for scale, it took approxithese two adjoined mately a days journey by horse to glyphs may go from mission to mission and a long day the concept life - a fitting in this particular case representation for a mission brand. because of the mountains



Mission Garden

by Michael A. Sánchez

Darting droplets of sun pierce frost blanketing Ground warms, welcomes, verdant stretching. Olive branch arching strange new visitor Dropping fruit among resident acorns. Exotic flower buds burst at first day's light Transporting bliss from faraway lands. Cultivated beds of peculiar species Substitute familiar chaparral expanses.

Neophytes tend curious crops and shepherd livestock New livelihood on ancient soil. Children pursue water rivulets a garden labyrinth, Life sprouts where none existed. Familiar footprints wear dusty garden paths, Daily ritual at communal lavandería.

Meals of atole y pozole heedlessly served
Gone the bounty of the hunt or gather.
Life stories myth bequeathed to little ones
Unfamiliar principles a Padre's calling.
Stars twinkle through 'ap bulrush and willow thatch
Opaque adobe tile, narrow light through clerestory.
Compound, gardens, paddocks heavy on the land
Earth revolts and shakes wanting to go back.



here.

Livestock was a form of currency and as such was documented in the form of annual reports comparing different types of livestock. Tables from Robert Archibald's The Economic Aspects of the California Missions show animals divided into major livestock that included cattle, horses and mules while minor livestock included sheep, goats and pigs. 6 These reports, produced by every mission were used to inform the Viceroyalty and Spain of the progress. Similar records were kept for agriculture harvests, births, deaths, 60 baptisms and marriages, chronicling the lives of those living at the mission compound. Life during the mission era was not always as neat and orderly as these tables and reports made them appear, but they do provide an interesting picture into aspects of daily life we normally would consider documenting.

Agriculture/Horticulture

Huerta

Important as identification was, sustenance was paramount. Providing for their own needs the padres were ac-

Figure 5-3, Top Left: Passionfruit, Granadilla, Passiflora edulis.

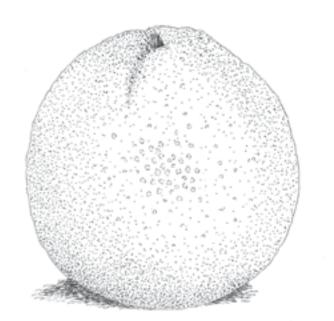
Figure 5-4, Bottom Left: Citrus, Orange, Nananja, (1792, 1804) mission oranges were initially see-propagated (later grafted)

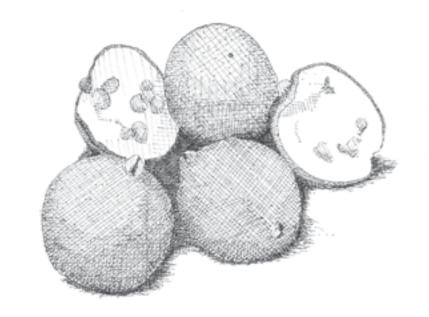
Figure 5-5, Top Right: Guava, Guayaba, Strawberry/Purple Guava, Psidium cattleianum (=P.

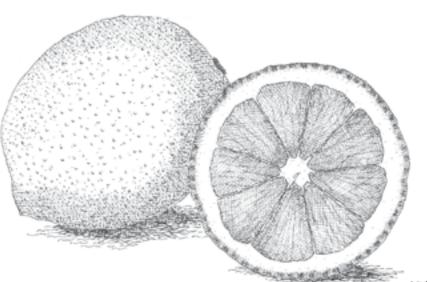
littorrle lonaipe) (likely).

Figure 5-6, Bottom Right: Citrus, Lemon, *Limon*, *Limonero*, *Citrus Limon*.



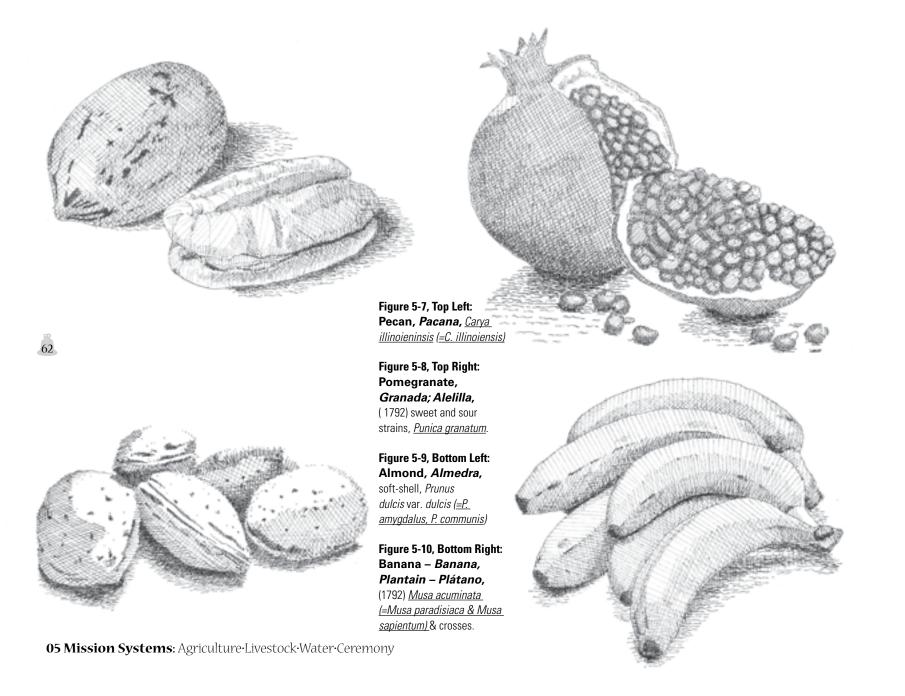


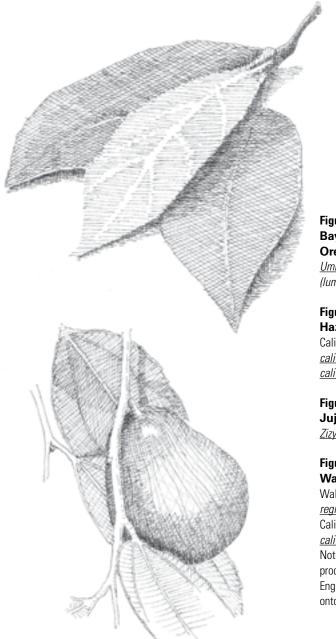




customed to simple lives of servitude, often with meager living conditions. Simply because of their hunter-gatherer lifestyle, the native Indians out of necessity also lived fairly scant. However, as a method for luring Indian converts the padres would often offer meat and clothes with the appeal of a more consistent daily constitution compared to their typical routine that may have included hunger for many days if food was scarce. Many Indians chose to explore the padre's offerings, eventually leaving their traditional ways to be part of this new culture which affected their traditional diets as well as their 61 landscape.

While some of the Indian's traditional practices were incorporated into their new lives at the mission – mostly their gathering techniques for acorns, herbs and wild vegetables – they were also allowed to supplement, especially during the meager early days of the missions, to hunt. Their methods of hunting and gathering were light on the land, often leaving the land appear untouched. A certain respect and adoration for the land was common to the Chumash (Santa Barbara region's







<u>Umbellularia californica</u> (lumber wood, furniture)

Figure 5-12, Top Right: Hazelnut*, Avellana*,

California, <u>Corylus cornuta</u> <u>californica (=C. robusta</u> <u>californica)</u> [native].

Figure 5-13, Bottom Left: Jujube, *Jinol*, *Zizyphus jujaba*.

Figure 5-14, Bottom Right: Walnut – *Nogal*,

Walnut, English Juglans regia & Walnut,
California Black Juglans californica [native]
Note: some native walnuts produced quality nuts;
English walnut was grafted onto the native rootstock.





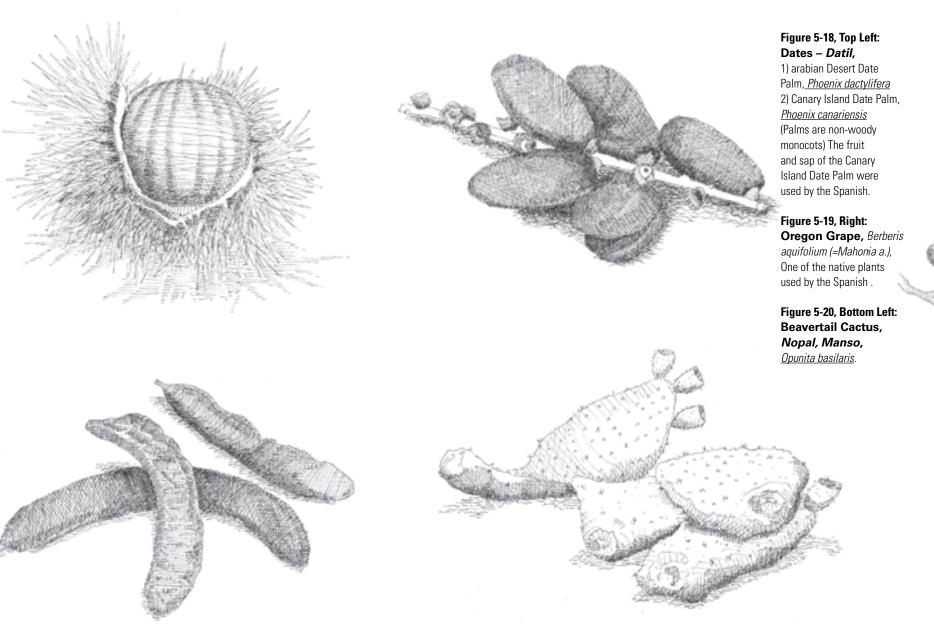


Figure 5-15, Left: **Grape**, *Grano*, (1769) Eating, Juice Grapes (1771), Raisin - **Pasa** (1778), Wine – *Vino* (1778), Brandy - **Aguardiente** (1778) - Angelica, a blend: half mission wine & half mission brandy. Red & White grapes from European grape stock were brought in from Mexico into the Alta territory: European grape, Vitis vinifera: Criolla & Monica types: 'Alba', 'Albilla', 'Diego Rubra', 'Molar', 'Paragrande', 'Torrontes' were seed bred quite true, perhaps 60% of the time. Native grapes and adjacent mission grapes sometimes naturally cross-bred. Hybrid crosses occurred between (V. vinefera) & native grapes, Vitis californica & V. girdiana. From these random crosses new California grape "selections" resulted and were added

Figure 5-16, Top Right: Chestnut, Spanish, Castaña, <u>Castanea sativa</u>.

to the vineyard inventory.

Figure 5-17, Bottom Right: Carob, *Algarroba*, <u>Ceratonia siliqua</u> 'Santa Fe' (hermaphrodite cv.)



other native American Indian cultures. One practice the Chumash exercised was that of annual burning. Burning controlled the typical chaparral undergrowth from becoming overgrown, a condition that provided hiding places for prey but also contributed to potentially dangerous wild fires. 7

livestock was the establishment of exotic plants such as food and forage crops. Indirectly, the spread of European annual grasses through physical contact with shipped livestock from Europe have had their own impact to grasses and wildflowers. 8

Another more pragmatic type of garden was the Huerta, Spanish from the Latin hortis, "garden" was used

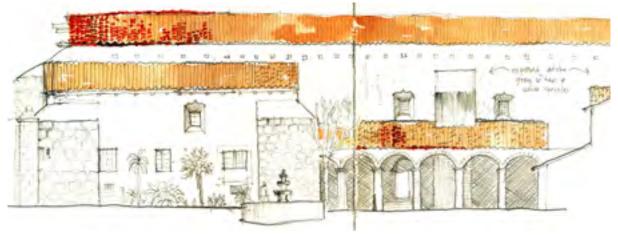
native Indians) as was typical of many to signify the agricultural garden or orchard. These gardens were vital to the survival of the Mission. Each mission was given seed and starts from Spain as part of a medley of establishment tools to begin the mission with the intention that each mission would be self sustaining within five years. A fascinating aspect of the Huerta is their These practices were almost com- biodiversity. While the padres brought pletely lost and most certainly dramat- with them starts from European strains ically minimized by the introduction of basic fruits like olives, pomes, citrus, of field agriculture and husbandry of stone-fruit such as peaches, apricots, livestock. Cattle and to some degree plums and cherries many of the plants sheep most certainly impacted the that were cultivated over the mission's topography and texture of the land lifespan were cultivars that were develthrough repeated compaction and re- oped by the padres themselves or were sulting erosion. While deceptively introduced by visiting traders and exsubtle, a direct result of introducing plorers who exchanged their goods for supplies. 9

While the intent of the huerta was not ornamental in nature, there was a irresistible quality and beauty to them even visitors who looked upon them could not resist. J.T. Farnham, in his California's native perennial bunch visit to Mission Santa Barbara in 1840 described the gardens in this way:

> *The old padres seem to have united with* their missionary zeal a strong sense of comfort and taste. They laid off a beauti

ful garden, a few rods from the church, surrounded it with a high, substantial fence of stone laid in Roman cement, and planted it with limes, almonds, apricots, peaches, apples, pears, quinces, etc., which are now annually vielding their several fruits in abundance... 10

Later, during the reconstruction period when the huerta was no longer a necessity and the agricultural



gardens were abandoned for more ornamental enterprises it is surprising to see many of the qualities expressed in the huertas - symmetry, order and pattern - revealed in the design and layout of the the ornamental gardens of the jardín.

(Panel, pages 58-67, Plants of the Huerta Garden)

The pen and ink drawings on these pages give prominence to but a smidgen of the many edible woody trees, shrubs and vines grown at the mission. Other categories of plants grown at the mission were edible herbaceous perennial plants, edible sea-

sonal plants or "vegetable gardens",

herb garden plants, utilitarian plants,

native plants used for utilitarian pur-

poses, décor plants or ornamental

plants and native plants. An exten-

sive list of individual species found in

each of these categories can be found

in Michael Hardwick's invaluable

Spanish missions entitled Changes in Landscape, The Beginnings of Horticulture in the California Missions. 11 Selected for their visual qualities, the

compendium of plants found at the



species chosen to highlight the plants of the huerta were picked more for their illustrative value and horticulturFigure 5-21, Left:

West elevation of the chapel from the courtyard garden, also known as the sacred garden. Interestingly this drawing underlines the different styles, both employed over time as the mission developed. For example, Moorish windows successfully reside beside Roman arches. Similarly, the cactus and succulent plants shown were not part of the original courtyard but an introduction most likely during the reconstruction period and later adding to the horticultural variety of the garden.



Figure 5-22. Center:

Both the physical structure and the courtyard plants create depth and mystery, inviting the visitor to explore what is just around the corner.

Figure 5-23, Left:

The enormous Morton Bay Fig, found in the cemetery garden attests to the extremely adaptable climate of the Santa Barbara area and the ability of the padres to grow many unique varieties collected or traded with early visitors.





Figure 5-29, Left:

Ruins of an elevated aqueduct. At the top of this stone structure is a channel which conveyed water from the reservoirs to one of the orchard gardens

Figure 5-30, Center:

Carved stone bear water supply to Lavendería (wash basin). After water left the 1804 fountain above it gravity fed this laundry basin.



Figure 5-31, Right:

Ruins of upper reservoir. The remains of an aqueduct feeding this reservoir can be seen in the foreground. Built in 1827 to store water for the grist mill, the penstock (circular hole at base of wall) was fitted with a wooden gate that controlled the flow of water which turned the wheel of the mill's grindstones.

al uniqueness than for some historical significance. Drawing these plants reinforced the cognitive imprint over seeing images of these plants and dramatically over reading about the plants alone.

Iardín



Thomas Brown in his 1980 article Landscapes and Gardens of the Mission Era speaks of three garden types employed during that time not only at the missions but in the cities that developed around the old mission and presidios. Those gardens were the jardín, the town house garden and

rancho garden. 12 The town house garden and rancho garden were most likely gardens influenced or inspired by mission gardens in the developing homes and structures of the era but particular to the mission gardens the jardín was primarily an ornamental garden reaching its zenith during



the reconstruction period of the missions during the latter half of the 19th

Santa Barbara's early gardens, the orchards, vineyards and vegetable gardens during the thirty plus year period in which this mission was most

nature and appearance as many visitors to the early missions attested. 14 However, their purpose was not that of fancy or horticultural ornamentation, but of production, nourishment and sustenance.

Barbara Mission's gardens and build-

ings declined and did not see im-

provement until the church received

the property and title back in 1861. 15

During a Yale University scientific ex-

pedition to Santa Barbara in 1861, sci-

entist, William H. Brewer commented

extended well to the mission when he observed that "Grass grows in the streets and cattle feed in the gardens..." ¹⁶ With very little money to make improvements even for maintenance the mission continued to languish for After secularization in 1834, Santa several more years. Not until a regular income from a newly established boys' exploit. 18 college become available and the visionary ideas of Father José Maria Romo did the buildings and grounds of the mission begin to change. 17

(Panel, pages 68-71, Jardín)

At one time the inner courtyard, also known as the "Sacred Garden" or "Forbidden Garden" created by the wings of the quadrangle was experienced by only the padres and very special quests. It was off-limits to women, hence the name forbidden and was due to their vow of a single life; a practice of all Franciscans the world over. Before the courtyard garden became available to tourists, including women, only three women were known to have seen the special garden. first was the Duchess of Argyle, who visited Santa Barbara after attending the World's Columbian Exposition in

viable, were certainly ornamental in on the degradation to the city which Chicago in 1893 as a representative of Scottish nobility. The second was Mrs. William McKinley who was accompanying her husband, then President of the United States. The third woman's name was unknown, but her entrance was overlooked as she disguised herself as a man and later boasted about her

> Superimposed over a photograph of the 1872 fountain in the cloister garden of the main quadrangle is a plan view of the plant beds. This drawing was reproduced from Samuel Newsome's 1903 plan of the cloister garden which included lists in the plant beds of the 73 plantings used in the original 1872 design (plant names excluded from this drawing). An early design influenced by Romo, this particular layout utilized the four rivers of paradise theme and parterres laid out in symmetrical patterns which became the inspiration of many Mission Revival gardens throughout California. 19

Today, the courtyard garden is no longer considered a secret or private garden admissible to only a few but is open to all. Much of the plant material has been replaced with lawn with the



edges of the courtyard still planted in symmetrical beds.

Details are included of iron and stonework found on the building (see Figures 5-24-5-28), revealing the interconnected patterns of the parterres and these built elements.

While not a formal ornamental garden, the cemetery is most certainly a vibrant collection of fascinating plants and newsworthy tombstones, many of which give a rich history of this Mission.

An article from an 1901 Sunset Magazine eloquently characterizes the cemetery as a garden equal to no other and captures the essences of what this pen and ink drawing tries to describe.

Yet, strangely enough, so supremely does the heart dominate the perceptions, that the uncertain coloring, the angular lines and questionable curves of figure and flower traced by the patient, toilworn fingers of those unselfish shepherds of wilderness souls, these appealed to and touched me more profoundly than all the rare canvases that hung above the altar! Thus eloquent is the work of the padres of the devoted endeavor and of the peculiar difficulties under which these marvelous missions were reared.

But our guide now conducted us to a doorway in the right wall of the church, and fitting in its lock a ponderous key, flung it open; and as we stepped forth ill to the ancient burying ground it seemed that the day's enchantment had but just begun, for a lovelier or more flowery garden in which to sleep the eternal sleep it would seem impossible to imagine! 20

The drawing centers on the enormous Morton Bay Fig which is estimated to have been planted around 1890. Other large specimens loom throughout the garden adding mystery and patina to the stone and adobe walls.

This black and white pen and ink expressed through hatches and line work capture the mystery of this garden by not being a photograph showing every minute detail, but, by allowing the viewer to imagine what some of the shapes, the patterns, the textures might be. What might the colors, the atmosphere, the mood be? These questions, put forward by this drawing, provoke the viewer to appreciate more about this place than merely viewing a pretty picture, thereby allowing the observer to relive the history through an unparalleled experience.

Water System

Equally interesting to the gardens is the water system of the mission. Of the extensive hydraulic infrastructure created to provide water to all parts of the compound, only fragments remain (see Figures 5-29 through 5-31). Pieces of aqueduct are now separated by contemporary streets, private homes and public open spaces but harken to a time where they were the primary feature in the landscape. Other elements such as reservoirs, settling tanks and clay pipes only remain because of photographs, old surveys and much lore. Many elements of the water system, such as the dam in Pedregosa Creek (now Mission Creek) in Mission Canyon as well as a dam in Rattlesnake Canyon are shrouded by overgrown riparian vines, shrubs and trees.

Originally created to furnish the mission with a reliable supply of lifesustaining water the Mission Canyon Dam can be seen today in the Santa Barbara Botanic Garden near the Redwood Forest. The reservoirs, grist mill and filter houses are noticeable remnants rising out of grasses and shrubs gone wild, recognizable only

hydrologic features. However, it's apparent that even these familiar relics may not survive another two hundred years.

To be sure, water was more than critical for the success of any of the missions. Many a mission was relocated because of issues of proximity to a dribbling water source or a well going dry. The three primary purposes of the water system at Santa Barbara were to irrigate crops, vegetable gardens and orchards, to provide water for drinking and washing for those living in the mission compound, and to produce power for one of Alta California's earliest industries-the grist mill.

But water was more than just a life-giving substance. While used sparingly water was also used in celebration, ceremony and as a way to enliven space. These may not have

maps. Other elements from the water the 1804 fountain or lavandería, or the system, such as the Santa Barbara secret courtyard fountain installed by between the mission, the Indian village, fountain and Lavandería (laundry) of Romo in 1872, but it was the outcome, 1804 are the best preserved of all the nonetheless. Positioned to the south-



Figure 5-32, Bell Echo:

Woodblock print by Author. Sound, like a pebble hitting a still pool of water, emanates from the origin. This illustration was a study in expressing the way sound might look if it were visible.

because of informational signage and been the originally intended uses for west of the church entry, the fountain and lavandería were centrally located the orchards, the vegetable gardens and the majordomo's (work foreman)

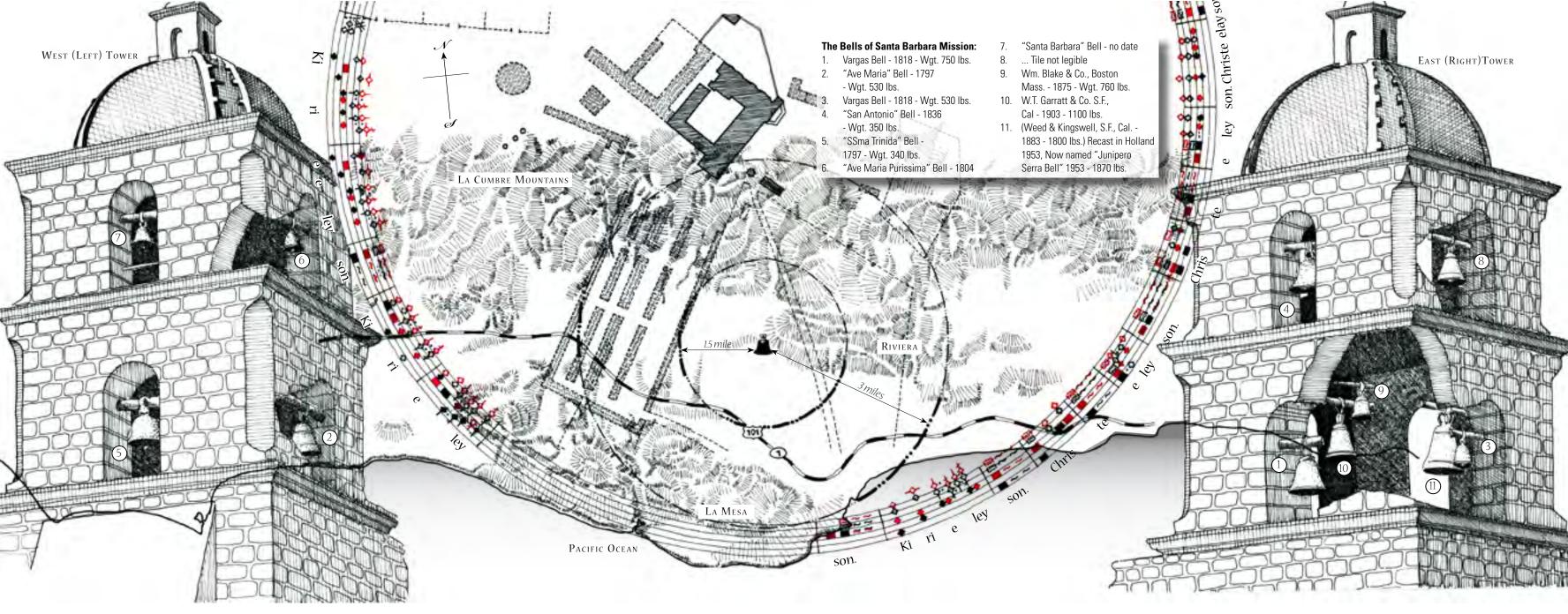
> house. This location was most likely the primary feature a visitor would see upon entering this compound. In essence it was the "hub" for activity at the mission.

> (Panel, pages 74-75, Water System)

This over-drawing includes three plan views at different scales. One scale shows the Pedregosa 77 or Mission Creek Dam. Once passing over the dam water was conveyed via a stone aqueduct down the canyon, diverting it from the creek to the reservoirs above the mission. Water was then gravity fed from the reservoirs through aqueducts to supply orchards, gardens, fountains and laundry as well as many other industries that required water, such

as the grist mill and tannery.

In a 1939 speech for the Sisquoc Barbeque, Fray Maynard Geiger implores



was awakened to the historical importance of this ancient water system they would at once spare nothing to preserve and restore this invaluable resource." 22

One way in which those who read and study this drawing can appreciate the historic connection of the water system to modern-day realities is through the inclusion of the contemporary street layout beneath the footprint of the original mission compound. Seeing the feat these builders overcame to build miles of aqueduct, 80 reservoirs that held close to a million gallons of water and an extensive, well irrigated garden, builds appreciation for these accomplishments.

Rounding out this drawing is a plan and section of the 1804 fountain. This icon of the mission is the focus of many a tourist and artist, local and international. The relationship of the fountain to the mission, the laundry, the Indian village, and the gardens, etc. is emphasized by showing the fountain at different scales, highlighting its design elements through the elevation and associating all of this through

his audience that, "...if Santa Barbara the screened photograph in the background.

Ceremony

The system of ceremony could be seen, heard and felt at Mission Santa Barbara. It most certainly had an impact as a means of connecting the explorers and indigenous people to this historic religious place. Ceremony is an integral part of many religious institutions, most definitely Roman Catholicism, but will not be evaluated specifically as part of this religion but rather harken back to the biological analogy; simply a part of a larger organism.

Mission Bells

Ceremony, as a means of organization, as a method for learning and as an instrument for connecting the padres and their parish to God and country, was critical in unifying Santa Barbara Mission to the other missions and Spain. It comes in many forms; from the simple reciting of prayers to the more complex procedures of a mass, wedding or funeral. It is also the familiar ground on which many believers of the Catholic religion find

comfort, whether they participated in a ceremonial event at this mission or any other.

Therefore, ceremony also serves as a type of order that gives structure to the day, the space or during a specific event or time. Mission Santa Barbara has over the last two hundred-plus years remained an operating church and elements of ceremony can still be seen in and around the compound, during the daily masses, but especially during festivals and religious holidays. However, some elements of ceremony manifested in the landscape and architecture are not so obvious yet have a rich history that must be told.

One such aspect of ceremony are the mission bells and the music of the mission period. The sound of church bells new or old have a curious and intriguing affect on us. Whether you have a religious background or not, the silvery sound of bells tolling can be mesmerizing, taking you back to distant memories; or they can be alarming or exhilarating, calling you to attention or celebration. According to Maynard Geiger's study, Mission Bells of Santa Barbara, these bells gave forth the first genuine musical notes in the civilized communities along time. the Camino Real. They were a call to worship three times daily at morning, noon and evening, reminding all to the Angelus, a devotional prayer recalling the Incarnation of the Son of God. They rang in celebrations such as weddings or festivals, greeted distinguished guests such as presidents or governors as well as lamenting such events as funerals. 23

The Santa Barbara Mission currently has eleven bells divided amongst it's this way. When a mission was established it was given, as a gift from the King of Spain, two bells - one large and one small. ²⁴ Acquiring the funds to purchase new bells or repair bells possible by wealthy parishioners or fund raising. In reviewing Geiger's Mission Bells of Santa Barbara, it is easy to see the difficulty in keeping track of the history of these bells as they were also given as gifts to padres starting other smaller nearby churches, brought back in some cases, destroyed by natural disasters and simply forgot-

ten through the natural mislaying of

These bells had a direct impact on the people living in and around the mission grounds. For example, the bells were used to call all to worship as well as demarcating important times of day such as when work should begin or end, much the same way school bells work to call children to class.

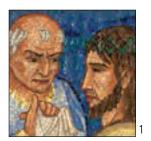
In a recent discussion with Craig Russell, author of From Serra to Sancho (a compendium of mission period music) and recording artist playing two towers, however, it wasn't always baroque guitar in his latest release Mission Roads, I learned the mission bells were not used as a musical instrument playing specific or independent notes, "songs" or "melodies", but rather, through the art of tolling the damaged by earthquakes were made bells were used to create rhythmic patterns of sounds for different events. Russell went on to say that through the art of bell-tolling there are rhythmic loops and each bell is part of these revolving loops or circles that overlap in ever-changing patterns where the patterns are based on the regularity of a particular bell's loop. In a visual analogy he compared this process to

that of a hanging mobile, where each individual "shape" (bell) has its own integrity, but those "shapes" (bells) all revolve and interact in ever-changing

(Panel, pages 78-79, Bells of Mission Santa Barbara)

While the traveling sound waves of bells may be difficult to express or represent illustratively their impact on those living at the mission were direct and absolute. Like the daylight triggering our body's circadian rhythm the bells triggered the rhythm of life at the mission. In fact every aspect of life at the mission was regulated by the bell; 81 be it work, meals, sleep or prayer.

In an attempt to convey the far reaching reverberations of the bells the accompanying illustration begins by expressing the distance the sound of the bells traveled in overlapping plan views of the mission site at two different scales: one inch equals a mile and one inch equals two hundred feet. The importance of the bells to all those living in the mission compound is undeniable. Through a thread on the American Bell Association's blog-site, bells of this era and form or struc-



Stations of the Cross:

- Jesus is condemned to death by Pontius Pilate
 - Jesus is given his cross.
 - Jesus falls the
 - Jesus meets His Mother.
- Simon of Cyrene carries the cross.
- Veronica wipes the face of Jesus.
 - Jesus falls the second time.

ture could be heard from a distance old Camino Real and helps to of 34 of a mile to as far as eight miles draw comparisons between depending on the condition of the air historic place and contemand other objects that may disrupt porary space. While the bells the sound waves from traveling, such were intended primarily for as land forms. These sounds were perhaps even heard further out at sea where the sound waves could travel much farther. 26

Therefore, the one inch equals a mile scale reflects concentric circles representing sound waves at various ranges from a mile to three miles. The ambient sound of the 1790's would have included horses, wagons and people making various sounds of work and play, most of which would be in relatively low to mid range frequencies. Contrasting this with the higher frequency sound waves from the bells and one could easily imagine the mission bells being heard from most parts of town. Included in this illustration is major state highway 101 which closely follows the



those living at the mission

compound their peal became part of the fabric of the landscape far beyond the walls of the mission.

This drawing also touches on the music of the mission era. At the one inch equals two hundred feet scale a partial music score of the song Kiri Eleyson circles the mission similar to the scale showing the sound traveling.

> There are several items of interest in how the music is depicted. The first is the staff. Contemporary staff have five lines and four spaces

The two bell towers along with the facade of the

music was also popular and |

often played on the veran-

das or steps of the mission but always played outside

of the church. 27

clef and a bass clef. The four

separate parts in this illustration are

distinguished by color and fill. There

are solid red and hollow red notes as

well as solid black and hollow black

This music, written in Latin, was

sacred music and as such was only

played inside the church. Secular

a treble

notes.

notes for four separate parts instead

of having two staffs differentiated by

where this staff contains six lines and mission are the symbols that identify five spaces. Another difference is the Santa Barbara from all the other mispresence of a single staff that includes sions. Breakaway renderings of the towers reveal all eleven of the bells. A chart highlights the unique characteristics of each of the bells.

Stations of the Cross

The Stations of the Cross is a ceremony where individuals can follow the various stages of the crucifixion of Iesus Christ such as these sculptures shown here. Once, this was a ceremony adhered to by Pilgrims to the Holy Land, but became unsafe when

the Muslims took over the region. In order to protect their believers, Church officials created the stations within the church through paintings or other artwork, in order for their members to celebrate this ceremony safely.

Stations of the Cross:

- Jesus meets the daughters of Jerusalem
- Jesus falls the third time
- Jesus is stripped of His garments
- Crucifixion: Jesus is nailed to the cross
- 12. Jesus dies on the cross
- Jesus' body is removed from the cross (Deposition or Lamentation)
 - Jesus is laid in the tomb and covered in incense















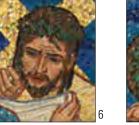


















Overleaf:

Woodblock print of Agave victoriae-reginae

Below – Left to Right: Figure 6-1, Mission La Purissíma:

Plein-air watercolor of the chapel and bell tower.

Figure 6-2. Cemetery Garden:

Pen and ink rendering on mylar film. This drawing could be said to be simply a line drawing as some form of line makes up the outlines as well as shadows and tonal

Figure 6-3. Bell Echo:

Woodblock print. This woodblock is printed with watercolor inks.

Figure 6-4, Doorway to Cemetery:

Digital Photograph. Nikon D80, AF-S DX Zoom-Nikkor 18-135mm. ISO 1600, 18mm, 0ev, f/5.6, 1/320. curious sight, the three skull and bones depicted over the and doorway are meant to signify the entry of the cemetery.

necause of my love for drawing Dand most artistic media in general and my passion for landscape spaces both contemporary and historic, I wanted to incorporate heavily the exercise of drawing into this project.

most visually celebrated historic icons of California and because this Queen of the Missions is so identified through visual means it seemed natural to extend the instructional goal of helping others better understand and appreciate this incredible place through the context of art and graphic design.

project more fully infused with knowledge and experiences of Mission Santa Barbara at a level deeper than perhaps only writing supported with historic images could provide. As a hopeful academic I was also looking for peda-Mission Santa Barbara is one of the gogical methods to help students use a tool that is left virtually obsolete today by the computer – drawing.

> Many variety of courses in drawing are offered at every school where landscape architecture is taught and because ours' is a field that is based in the visual it makes sense to have courses that teach visual communication. Many

all students become excited about exploring a subject in a way they may never have thought.

or any form of visual communication as simply a means to an end, however, I've worked with enough visually challenged individuals to know how exploring or documenting a subject. painful it is to want to express oneself graphically only to be frustrated with the physical limitations of a hand-eyebrain connection. Everyone learning to draw has experienced this. To be clear, however, this is not a project

through painting and journaling, through photography, writing and the artistic process in general as I explored I have obviously never seen drawing Mission Santa Barbara's landscape. It is also meant to inspire the curious and those tempted to dabble in art but afraid to try it as a method of learning,

Journaling the Place

Many mediums or forms of art were used to explore the various aspects of Mission Santa Barbara's buildings, landscape and systems, the most basic of which was simple graphite pencil

this project as an opportunity to help through drawing and literary research, well as a plein-air line or tonal drawings. I drew details, panoramas, elevations of the mission and the landscape it dwelt in, plan view diagrams and various other visual snippets. What was common in all of these was a desire to capture the essence of what I was studying and not a final or finished rendering. In some cases I came back and embellished with color in order to understand a different element of my subject - mood, atmosphere, temperature, wetness or dryness - qualities that often cannot be documented by black and white alone.





Watercolor study of circulation vent.

Figure 6-6, Mission Santa Barbara Facade:

Pencil study of the facade for a possible experiment similar to Gordon Cullen's Serial Vision shown in his book The Concise Townscape.

06 Tools of Exploration: The Journey





Drawing as well as other forms of students though (especially those who visual communication were the keys to are not naturally artistically inclined) attaining these goals. An equally am- see these classes as a means to an end. bitious goal was to myself finish this As such I see what I've learned through



on how to teach drawing, nor is it an analysis of the importance of drawing in visual communication.

It is an analysis of what I learned



sketching. Using primarily a pencil and sometimes a pen I studied the mission landscape by journaling what I saw. Journaling in this context includes both notes and annotations as



While mood can be illustrated in black and white it often fails to com-

... continued page 90

The following experiment and supporting drawings were part of a class in Contemporary Landscape Theory taught by Professor Kenneth Helphand.

How many times do people walk through a landscape soaking in the views, perhaps stopping at a designated overlook to take a picture of their companions or to have a picture taken of them? Every single day. How many of those same individuals would remember what that vista was, the special qualities of the place they sought to memorialize if they were to lose that image or print? Most likely very few to none.

Very rarely anymore do Americans and perhaps most tourists sketch or paint as a way to remember a place or to ingrain the scene into their memories through similar types of memory techniques. However, those with little or much life experience can recall vividly images of times past when stimulated by a passing stench or lovely fragrance. Our sense of smell in fact is the longest-lived of the senses bring back to the moment even the earliest memories of our lives.

The gardens of Mission La Purissíma are loaded with memories. To visitors today, those memories are conveyed through the museum and educational venues setup throughout the Mission grounds. But what if there were a way to

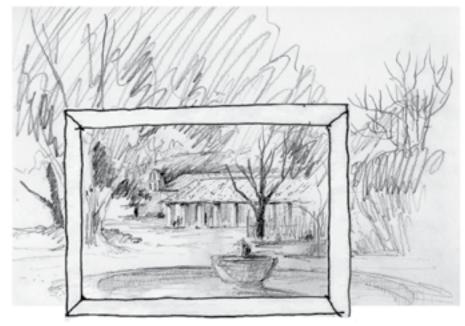
06 Tools of Exploration: The Journey

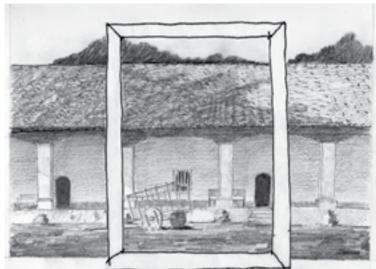
use that history and the gardens in their present state to indelibly etch into the minds of tourists what they see on their exploration of the gardens.

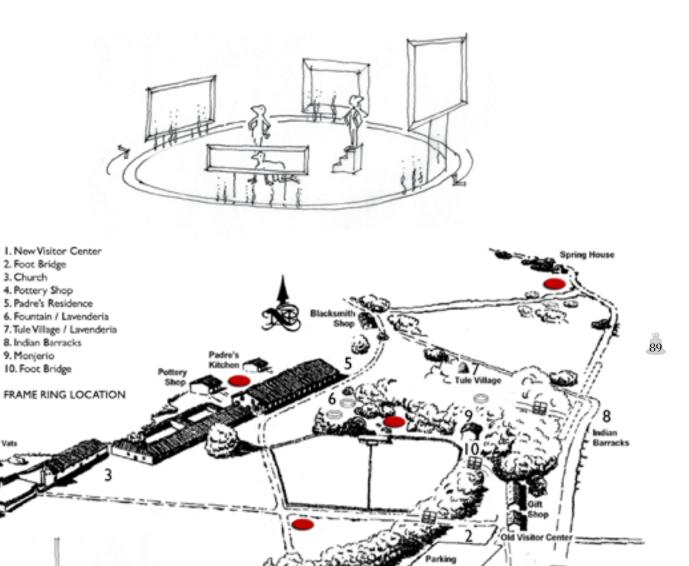
This experiment seeks to use odor as a means of stimulating the portions of the brain to remember what is seen. To facilitate this frames will be set on a large rotating ring that can be oriented to capture different points of view and perspective from a single point. The frames will vary in size, shape and orientation. Depending on the selected scenery an odor or aroma dependent upon the view will be released into the air connecting both the visual and the olfaction.

For example if a frame is oriented toward the tallow vats, perhaps the smell of soap, or fat would fill the air. If a frame were directed toward the lavenderia or communal clothes washing area a scent of clean sun-dried laundry could be detected. Or even smells of farm animals when the frame is positioned toward the paddocks.

The possibilities are endless and the frame rings could be moved to different locations to provide numerous viewpoint and scent combinations and could be done in different times of the year to take advantage of seasonal smells.







New Visitor Center

municate certain emotions or atmosphere that are easily communicated through color. Shadows, through color, line or other tone emphatically add depth, time of day, mystery and reality to a drawing, but without color the observer is left wondering whether the moment captured happened in the morning, mid-day or evening.

But drawing is more than just the medium one uses to record what one sees. Through drawing the opportunity to observe a subject and its relationship to other elements is fundamental. As Laurie Olin, author, landscape ⁹⁰ architect and artist points out in his book of essays and drawings of the English landscape, "Drawing is not merely a manual skill or craft dependent upon physical dexterity... drawing is an attitude and a mode of seeing and being that is essentially quiet." A certain concentration overcomes the drawer as he focuses on his subject, an attention that is more strident than the actual activity of drawing.

If there is anything else that can be said of drawing, it might be, that there is nothing to equal the experience of personally being in special and unique

places, holding paper and pencil and simply being in that place and time capturing what will never be the same again in time and space.

Photography

Photography is an interesting and fascinating medium. Two hundred

and forty years ago when the missions were founded, photography was still some sixty-some years from being invented. The way we see our world changed when cameras were made accessible to the masses and film processing convenient for the average person. Today, with the common use

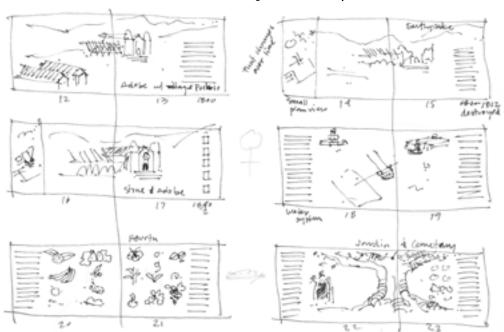


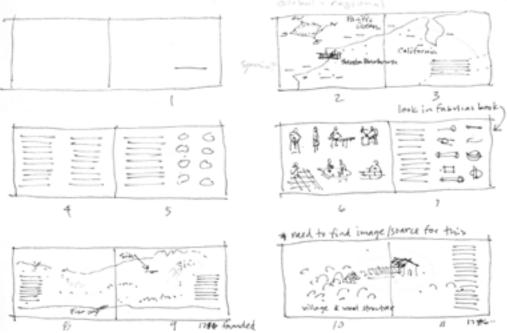
Figure 6-7, Sketchbook Thumbnails:

Integral to exploring both the place as well as crafting a publication is the organization of thoughts graphically. In order to "see" what I was thinking I drew it using a quick notation called thumbnails where text simply becomes lines and detailed information becomes shapes

of digital photography, many images tograph which is to capture an image this project was as a means of capturare easily taken without thought to what one is actually looking at. After all, without the expense of having to pay for printing or developing, one can shoot as many pictures as time allows. This practice, however, strays from the original intent of the camera and pho-

of an object freezing it in time in a way through a painting or drawing. Remember, photo realism needed photography to be invented before there was some type of "realism" to emulate.

One way photography was used in



ing a large amount of information in a that would be difficult or impossible relatively short amount of time. Opposite of drawing, in this case, the digital camera became a tool for freezing time and space rapidly. Because unlimited time was not available to sit and draw everything I saw, I relied on the camera to encapsulate in seconds what would have taken me hours to draw.

> This has its advantages and drawbacks however. Lost to some degree in this form of photography is the focus and observation skills used in drawing. While a professional artist certainly spends intentional time crafting an 91 image before activating the shutter, more effort was made to quickly document elements of the landscape that I wanted to evaluate more deliberately and purposefully at a later time. Perhaps because of my artistic inclinations the images I captured were not all merely "snapshots" but had qualities of that reflected an intentional application of balance, composition, depth of field and attention to light. This attention to detail would later be useful as I "played" with the images on the computer.



Photographic Progression:

The four images on this page represent a typical pattern illustrating the progression a photographic image went through in order to be used as a graphic in this publication.



The original raw image, unedited and uncropped.

Above, Right:

The initial step was to crop this image to a proportion that matched the landscape format of this publication.

Right, Center:

The next step was to create a vignette filter over the image in order to focus the attention on the fountain in the background and in preparation for the plan graphic of the cloister garden that would be reversed in white. (see pages 68-69)

The final step was to create a dynamic effect. Wanting this to be more than just a photograph an additional filter was added to this image in order to accentuate the colorful plants in the foreground and creating a darker background for the cloister garden plan.

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picture is manipulation of the image through some type of digital imaging software. While historically belonging solely to the realm of the darkroom artist, amateur photographers amazing works of art. Such has been example of ways that I have in the attempted here.

Beyond basic corrections like color, exposure, saturation and contrast, digital manipulation ventures into editing or altering the actual image as a way to create mood and appreciation for something that otherwise might have been considered common or ordinary, thereby transforming something that was originally intended as documentation into an artistic expression. Arguably, there is also a level of understanding and appreciation of the subject through the time spent in looking manipulating the original.

Painting

Painting is another medium that was used to study this mission. While a "final" or "finished" painting was not the goal of this exercise, nothing

Another aspect of photography that can match the beauty of professional ferent light. goes beyond the actual taking of the painting in any medium. Painting in this project was used similarly to drawing, as a tool to explore elements of my subject that could not have been discovered through the use of other mediums. Included in this chapter is today can, through the help of software a finished watercolor I did of Mission such as Adobe's Photoshop produce La Purissíma (see Figure 6-1) as an

Pen and Ink

At one time a fountain pen, often a feathered quill, was the primary method of transferring ink to paper or parchment. Today, felt-tip pens or refillable technical pens are the methods of application for India or permanent



past captured the essence of a place. Rather, watercolor in this project was used to see parts of the mission in dif-

Carving Woodblock:

Author, Michael Sánchez working on Bell Echoes, a woodblock print exploring the visualization of sound. (see Figure 5-32)

challenging as a way of capturing or rary alike, both of which fit well with documenting a subject. Because there the objectives of this project; to tell are no grays or tonal variations inherent in pure black ink, other methods must be used to represent tonal value. In most of the drawings produced in this publication tonal value

expressed through the density or proximity in hatching of lines or pointalism.

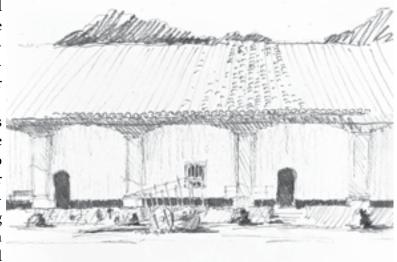
Many artists ⁹⁴ masterfully use pen and ink to represent their ideas and concepts. Drawing inspiration David Macaulay's ac-

> complished work Cathedral: The story of its construction, the primary method used in this study was ink on mylar. It was chosen as a way to extract the quintessential elements of the mission, the spirit of a bygone era. Black and white goes hand-in-hand

Black and white drawings can be with historical pieces and contempothe story of Mission Santa Barbara through visual studies.

Woodblock

There are various forms of wood-



block print. Western print making traditionally use oil based paints and the blocks range from wood to linoleum. The woodblock prints done for this project were inspired by Japanese woodblock or moku hanga and use watercolor. Both forms utilize a similar technique of creating ridges

and valley in a medium by carving whereby paint is applied to the ridges and transferred to paper either by a roller or in the case of Japanese print making, a barren, or round flat burnisher.

The act of carving the wood in my case was like farming of gardening.



Rather than cultivating soil to produce a bounty of fruits or vegetables I was sculpting a flat piece of wood in hopes of bringing forth a new understanding or appreciation of Mission Santa Barbara. While none of the woodblock prints I did were specifically of the mission, they did encapsulate aspects of the mission relative to a topic of the mission I was studying. For example, in my study of branding and livestock I made a woodblock of Mission Santa Barbara's brand. While not a complex woodblock, being only a single color, the act of print making in this case

> was akin to the act of branding itself. Where in branding, a hot iron is used to mark the hide of livestock; a pattern carved in wood was used to mark a piece of paper. (see Figure 5-2)

Intaglio

The meaning of intaglio, pronounced |in'talyo; -'täl-|, is to engrave or etch into a medium, typically a metal such as copper. The process is very similar to that of woodblock print making described above. Because of the

nature of the materials used in intaglio, different effects can be achieved using a variety of techniques.

The process as described by Professor Emeritus Margaret Prentice paints an image of hills and valleys etched into the surface of a copper plate, where the valleys in this print making medium

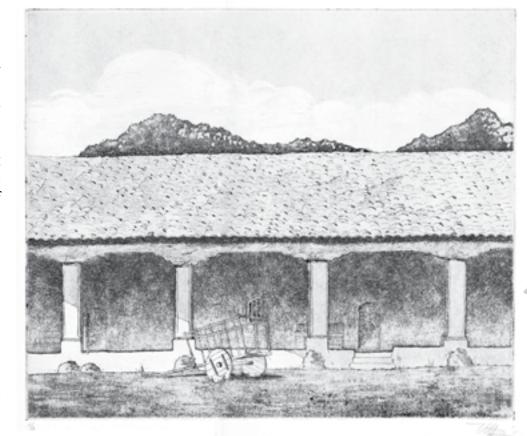


Figure 6-8, Plein-air sketch, Left:

Field documentation to capture the spirit of the place. Quick notation of objects, proportions, shadows and overall mood.

Figure 6-9, Studio Detail, Center:

Plein-air sketch was further delineated to show full range of tonal values and detail of elements

Figure 6-10, Intaglio Print, Right:

Etched on a copper plate through scraping and burnishing over multiple layers of rosin and spray lacguer to create different depths of "valleys" that would eventually hold ink creating the various tones of the final print



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Graphic Design Process

Figure 6-11, Left:

Map from historic book. Elements of map are copied

Figure 6-12, Center:

Copied drawing from map is warped as a perspective in Adobe Photoshop to create a "bird's eye" affect

Figure 6-13, Right:

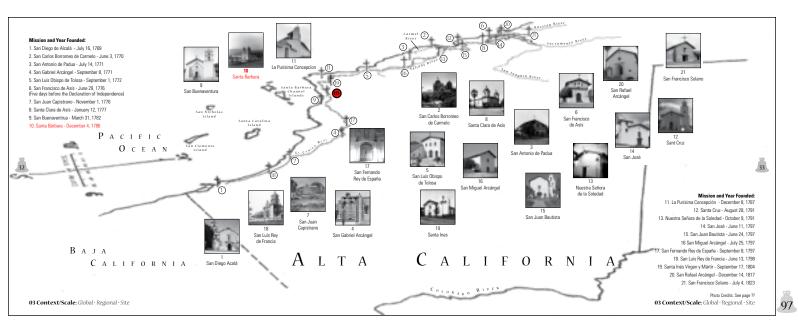
Text, Color, Photographic images are added to scanned base to round out graphic and create a new drawing

take the ink as opposed to the hills taking the ink in woodblock. Again, the visceral experience of touching the

copper, etching tools and tarlatan, the smell of etching inks, solvents, rosins and lacquers, the sound of the wheel turning on the etching press, embed in my mind the image I created of an arcade at Mission La Purissíma. (see Figure 6-10)

Graphic design

Often overlooked as a medium for discovery or exploration is graphic Perhaps, because often by the time a drawing or image makes it into some type of graphic software



such as Adobe's InDesign or Illustrator Conclusion much of the design or creative thought has already been initiated, apparently leaving only the placement of graphics on the page for display. This couldn't be further from the truth. Many an InDesign user will tell you bringing played in this project, spatial, tempothe images into the software is only the ral, cultural and historic relationships beginning.

process and requires the artist to reevaluate the representation often to observe whether it is meeting the objectives or not.

There are many aspects of the Mission landscape to observe, many of which by themselves could be a stand alone subjects of research. Through the illustrative process described and disbetween each of the mission elements, Design in any medium is a cyclical be it landscape, building or both, the viewer's perceptions or insights would not have been accessible through a literary process alone.

overlaying historic site plans on a contemporary street plan, perhaps explaining choices in site planning that frame, rather than block the incredible views of the channel islands. These and many other relationships are made more relevant and obvious through drawings, like the ones included in this project, over word pictures alone.

While there are many similar styles of representation in the field of landscape architecture, I believe the combination of mediums and techniques demon-For example, patterns emerge by strated in this project culminate, in a

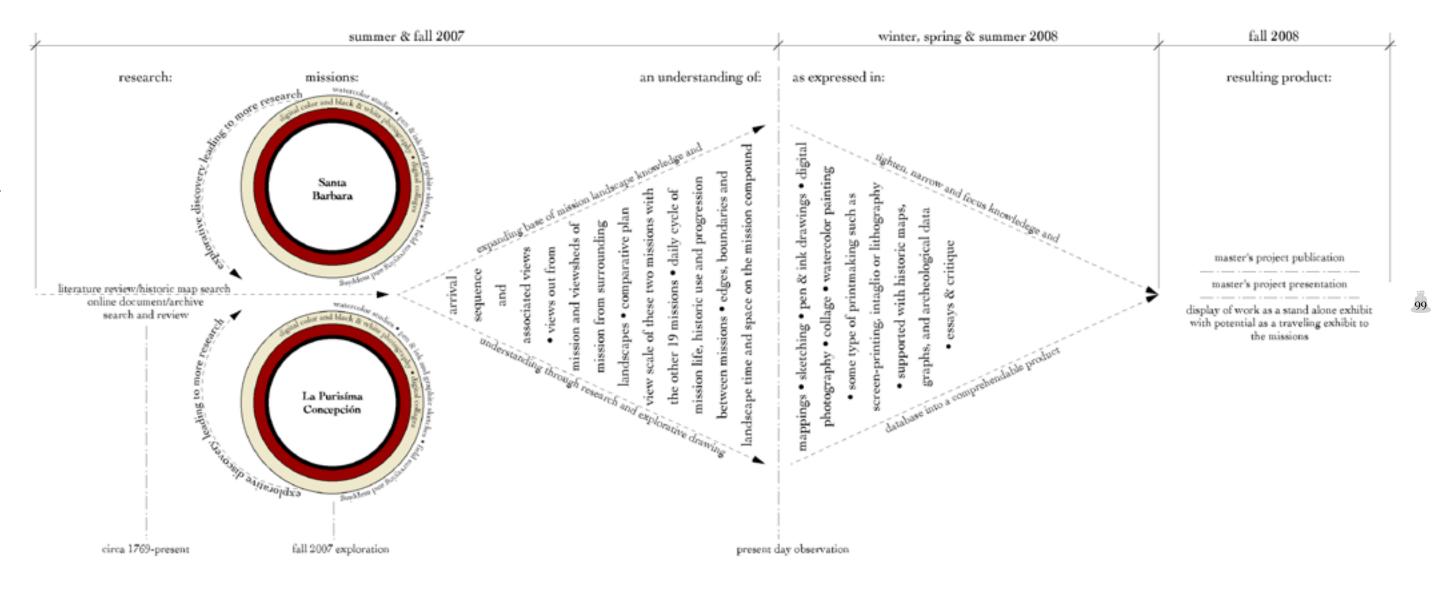
new contribution to the field, hopefully giving designers ideas of new ways to access or understand a place.

However, my greatest disappointment in this project was that while a picture may be worth a thousand words, it certainly may not be the one thousand words I was intending to communicate. So, while I may have learned some wonderful treasure of observation from creating these drawings, it may unfortunately be a different treasure that you walk away with. My only solace is the hope that all who read and view this project will walk away with a new and appreciative understanding of this magnificent place known as the Queen of the Missions.

Figure 6-14, Right:

The Diagram to the right is a "flow chart" of sorts describing the process and time frame of this master's project. One can see simply by the date set for completing this project and the date on this publication the diagram was not accurate.

It does incorporate many of the processes, if in spirit only, used to implement the research and production of this project.



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Notes

Chapter 1

- 1. Kenneth I. Helphand is Knight Professor of Landscape Architecture at the University of Oregon where he has taught courses in landscape history, theory and design since 1974. He is the author of several books, his most recent being *Defiant Gardens: Making Gardens in Wartime* (2006).
- Elisabeth 'Liska' (Clemence) Chan is an Associate Professor of Landscape Architecture and department head at the University of Oregon where she teaches design studios, theory and media classes.
- 3. Chip Sullivan's *Drawing the Landscape*, Jane Wolff's *Delta Primer: A Field Guide to the California Delta* and Marc Treib's *Representing Landscape Architecture* all deal with the representation of the landscape in engaging and dynamic ways. Artist Paul Hogarth was able through his drawings and paintings to communicate critical and often politically sensitive issues without saying a word. It is often assumed incorrectly that words alone are an only means of communication.
- 4. Olin, L., Across the open field: essays drawn from English landscapes. Penn studies in landscape architecture. 2000, Philadelphia, Pa.: University of Pennsylvania Press. xiii, 352 p.
- 5. Liska Chan first heard the term over-drawings from professors Kathryn Gleason and Fred Biel at Cornell University.
- 6. Cathedral: The Story of Its Construction, Building the Book Cathedral and Rome Antics are prime examples of how artist David Macau-

- lay uses black and white to create many of the emotions and atmospheres typical through artistic mediums that employ color.
- Cullen, Gordon. Concise Townscape. Architectural Press, 1995. Clay, Grady. Close-Up: How to Read the American City (Phoenix Book; P863). University Of Chicago Press, 1980.

Chapter 2

- 1. Geiger, Maynard. *Mission Santa Barbara*, 1782-1965. Franciscan Fathers, 1965.
- 2. Berger, John Anton. *The Franciscan missions of California*. Doubleday, 1948. (pp190-191)
- 3. James, George Wharton. In and Out of the Old Missions of California: An Historical and Pictorial Account of the Franciscan Missions. Nabu Press, 2010. (p33)
- 4. Engelhardt, OSF. Fr. Zephyrin. *The Franciscans in California*. Harbor Springs MI: Holy Childhood Indian School, 1897 1st prtg. 516p, plates, folding map., 1897., 1.
- 5. Ibid. 2-3.
- Catholic Encyclopedia (1913)St. Barbara by Johann Peter Kirsch, http://en.wikisource. org/wiki/Catholic_Encyclopedia_(1913)/St._ Barbara.
- 7. Geiger, Ibid.
- 8. McLaughlin, David J. The California Missions Source Book: Key Information, Dramatic Images, and Fascinating Anecdotes Covering All Twenty-One Missions. University of New Mexico Press, 2009.

- 9. Ibid., 17
- Geiger, Maynard J. A Pictorial History of the Physical Development of Mission Santa Barbara,: From Brush Hut to Institutional Greatness, 1786-1963. Franciscan Fathers of California, 1963.
- Brunt, Jessie Van. California Missions / Painted and Described By Jessie Van Brunt. Los Angeles, Calif.: Wetzel Publishing, 1932., 10.

Chapter 3

- Vega, Gilberto. Ringers of Bells and Teachers of Civilization: The Work of the California Franciscan Missionaries, 1769-1821. , 1983. Print., 15.
- Geiger, Maynard J. Mission Santa Barbara, 1782-1965. [Franciscan Fathers of California], 1965, 48-49.
- Geiger, Maynard J. A Pictorial History of the Physical Development of Mission Santa Barbara,: From Brush Hut to Institutional Greatness, 1786-1963. Franciscan Fathers of California, 1963., 10.
- Kryder-Reid, Elizabeth "Perennially New" Santa Barbara and the Origins of the California Mission Garden. *Journal of the Society of Architectural Historians* 69, no. 3 (September 2010), 378-405., 385.
- 5. Ibid., 385.

Chapter 4

1. Geiger, Maynard. Mission Santa Barbara,

- 1782-1965. Franciscan Fathers, 1965., 41.
- Egenhoff, Elisabeth L. Fabricas: A Collection of Pictures and Statements on the Mineral Materials Used in Building in California Prior to 1850. State of California, Department of Natural Resources, 1952, 10.
- 3. Geiger, Maynard J. A Pictorial History of the Physical Development of Mission Santa Barbara,: From Brush Hut to Institutional Greatness, 1786-1963. Franciscan Fathers of California, 1963, 10-11.
- 4. Glenn, Frater, O.F.M. Mission Santa Barbara "Queen of the Missions", 3.
- 5. Geiger, Ibid., 62-64.
- Southern California Earthquake Data Center, http://www.data.scec.org/chrono_index/santabar.html.

Chapter 5

- Olsen, Daniel M., 1963, Ranch gates of the Southwest / Daniel M. Olsen, Henk van Assen ; introduction by Lucy R. Lippard ; text by Kenneth I. Helphand, San Antonio : Trinity University Press, c2009
- 2. Ibid.
- 3. Ibid.
- 4. Ibid.
- California Missions Resource Center, http:// www.missionscalifornia.com/ate/does-brandsanta-barbara-mission-meaning-behind.html

- Archibald, Robert. The Economic Aspects of the California Missions 1978 Edition. AAFH, 1978, Table 21, 179, Table 22, 181.
- Conversation with Jerry Sortomme, professor emeritus of horticulture at Santa Barbara City College and Director of the Huerta Project at Old Mission Santa Barbara, February 2009.
- 8. Ibid.
- 9. Ibid.
- Hardwick, Michael R. Changes in Landscape
 California Missions. Paragon Agency, 2005, 63.
- 11. Ibid., 107-120.
- 12. Brown, Thomas, "Landscapes and Gardens of the Mission Era", 1981, pp. 5-7.
- 13. Ibid., 17.
- 14. DuHaut-Cilly, Viaggio Intorno Al Mondo, Vol. I. pp. 207-280. This author saw the Mission 30 March, 1827 and had this to say regarding the early gardens: "The management of the Mission was committed to Fr. Antonio Ripoll. He was at the time attending to affairs elsewhere, so we took advantage of his absence to visit his garden which we found to be large, well cultivated and planted with trees. Very fine olive trees shaded the straight paths, and you could see fruits of the temperate and torrid zones at one and the same time. The Adam's figs spread their broad leaves between the apples and pears, and the gold of the oranges mingled with the red of the cherries.
- 15. Secularization McLaughlin, David J. The Cal-

- ifornia Missions Source Book: Key Information, Dramatic Images, and Fascinating Anecdotes Covering All Twenty-One Missions. University of New Mexico Press, 2009., 40-41. Title Kryder-Reid, Elizabeth, "Perennially New" Santa Barbara and the Origins of the California Mission Garden, Journal of the Society of Architectural Historians 69, no. 3 (September 2010), 385.
- Geiger, Maynard J. Mission Santa Barbara, 1782-1965. [Franciscan Fathers of California], 1965, 182.
- 17. Ibid., 186-7
- McGroarty, John S., The Place of the Sacred Garden, *The West Coast Magazine*, Vol. VII, No. 1, October 1909, 238-239.
- 19. Kryder-Reid, Elizabeth, "Perennially New" 103 Santa Barbara and the Origins of the California Mission Garden, Journal of the Society of Architectural Historians 69, no. 3 (September 2010), 387.
- Srein, Evaleen, A December Morning at Mission Santa Barbara, Sunset Magazine, Vol. VII No. 4, August 1901, 94-95.
- Allen, Rebecca., Felton, David L., The Water System at Mission Santa Barbara, California Mission Studies Association, Occasional Paper 1, 1998, 1.
- 22. Geiger, Maynard J., Speech given at Sisquoc Barbecue, July 1, 1939, 2.
- 23. Geiger, Maynard, O.F.M., Ph.D., Mission Bells of Santa Barbara: Their History and Romance,

06 Tools of Exploration: The Journey

1.

- 24. Ibid., 2.
- (email conversation with Craig Russell, 27, May 2010)
- 26. http://www.americanbell.org/forum/viewtop-ic.php?f=6&t=399&p=960
- (email conversation with Craig Russell, 27, May 2010)
- 28. Descriptions and history of the Stations of the Cross: http://www.fisheaters.com/stations. html#1, http://www.cptryon.org/prayer/child/stations/index.html, http://www.catholic.org/clife/prayers/station.php

Chapter 6

.. Olin, L., Across the open field: essays drawn from English landscapes. Penn studies in landscape architecture. 2000, Philadelphia, Pa.: University of Pennsylvania Press. xiii, 352 p., 28

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Other than those images listed below or cited at the image, all photographs illustrated in this publication are those of the author.

Page 30-31

 David Rumsey Historical Map Collection: World Globe 1790, Jean-Dominique, comte de Cassini was a French astronomer and cartographer of Italian French descent and one of the last globe makers active at the end of the 18th century.

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- The following credits are in reference to the images of the twenty one missions shown in the Regional Scale and Context Drawing on pages 32-33.
- .. San Diego Acalá http://www.cmp.ucr.edu/collections/permanent/projects/survey/missions/ connell/co_img/90.24.282.9.jpg
- 2. San Carlos Borromeo de Carmelo http://www.cmp.ucr.edu/collections/permanent/projects/survey/missions/Hoxie/hx_img/97.6.19.2.2.jpg
- 3. San Antonio de Padua http://www.cmp.ucr. edu/collections/permanent/projects/survey/ missions/Pidgeon/pi_img/86.34.716.jpg
- 4. San Gabriel Arcángel http://www.cmp.ucr. edu/collections/permanent/projects/survey/ missions/vroman/vr_img/ACV205.JPG
- 5. San Luis Obispo de Tolosa http://www.cmp.ucr.edu/collections/permanent/projects/survey/missions/connell/co_img/90.24.286.1.jpg
- San Francisco de Asís (Mission Dolores)

 http://www.cmp.ucr.edu/collections/permanent/projects/survey/missions/connell/co_img/90.24.278.16.jpg
- 7. San Juan Capistrano http://www.cmp.ucr. edu/collections/permanent/projects/survey/ missions/km/km_Img/23026.jpg
- 8. Santa Clara de Asís http://www.cmp.ucr.edu/collections/permanent/projects/survey/missions/haines/ha_img/81.33.266.jpg
- 9. San Buenaventura http://www.cmp.ucr.edu/

- collections/permanent/projects/survey/missions/connell/co_img/90.24.288.1.jpg
- Santa Barbara http://www.cmp.ucr.edu/collections/permanent/projects/survey/missions/ Pidgeon/pi_img/86.34.703.jpg
- 11. La Purísima Concepción http://www.cmp.ucr. edu/collections/permanent/projects/survey/ missions/connell/co_img/90.24.284.27.jpg
- 12. Santa Cruz http://farm5.static.flickr. com/4050/4393799580_23d861527d.jpg
- 13. Nuestra Señora de la Soledad http://t0.gstatic.com/images?q=tbn:ANd9GcT877EF048a3UBiFrVEO7DdUXEM6Gs6b149F9THxK_BNeTbxbg&t=1&usg=__WWuwK-AOB-C7MVeinlgKSBCHOGpM=
- 14. San José http://www.californiamissionsfoundation.org/uploads/images/Missions/SanJose.jpg
- San Juan Bautista http://k43.pbase.com/ o4/75/47975/1/53390562.MissionSanJuan-Bautista_22960.jpg
- San Miguel http://www.cmp.ucr.edu/collections/permanent/projects/survey/missions/connell/co_img/90.24.283.6.jpg
- San Fernando Rey de España http:// www.cmp.ucr.edu/collections/permanent/ projects/survey/missions/connell/co_ img/90.24.289.15.jpg
- 18. San Luís Rey de Francia -http://www.orderalhambra.org/218benziri/slr.jpg
- 19. Santa Ines- http://www.cmp.ucr.edu/collec-

- tions/permanent/projects/survey/missions/connell/co_img/90.24.284.42.jpg
- 20. San Rafael Arcángel- http://www.missiontour org/sanrafael/images/sr_exteriormain.jpg
- 21. San Francisco Solano- http://www.cmp.ucr. edu/collections/permanent/projects/survey/ missions/Other

Intaglio elevation pages 34-35

1. Collection: David Rumsey Collection

Author: Vancouver, George, 1757-1798

Date: 1798

Short Title: Views of Parts of the Coast of North West America.

Publisher: G.G. & J. Robinson London

Note: Uncolored views including Punto de los Reyes and the Bay of Sir Francis Drake, Port of St. Francisco, Point Pinos, Santa Barbara, the entrance to the Port of St. Diego, and Cape Colnett.

Reference: P197; Streeter 3497; Sabin 98443; Cowan 1933; Wagner 853-860.

Country: Mexico

State/Province: California

Published May 1st 1798, by R. Edwards New Bond Street, J. Edwards Pall Mall and G. Robinson Paternoster Row. J. Fittler sculp.

The following credits are in reference to the images on pages 42-43.

- 1. All images of adobe bricks and the making of the adobe bricks are by Kenneth I. Helphand.
- 2. Title: Old Mission, Santa. Barbara Quake, 6-29-25

Identifier: :421

Collection: James D. Phelan Photograph

Albums, Volume 94 Old Mission, Santa. Barbara Quake, 6-29-25,

Contributing Institution: The Bancroft Library. University of California, Berkeley.

Works Consulted

The body of work represented here comprises research on the missions themselves; looking at these places historically, politically, horticulturally and culturally. Several books also describe the missions through historic images, drawings, maps and paintings.

The following references also represent research on how to read/study/document the landscape, different theories of landscape design, representation as well as books that represent different graphic styles. My interest in these books is how others display and express illustrative information, how they portray historical data and how others have written and told the story of landscape..

- Baer, K. and H. Rudinger, Architecture of the California missions. Photos. by Hugo Rudinger. 1958, Berkeley: University of California Press. 196 p.
- 2. Berger, A., Drosscape: wasting land in urban America. 1st ed. 2006, New York: Princeton Architectural Press. 255 p.
- 3. Birksted, J., Landscapes of memory and experience. 2000, London; New York: Spon Press. 272 p.
- 4. Brewer, P.L., et al., Lines of discovery: 225 years of American drawings. 2006, Columbus, Ga. London: The Columbus Museum: Giles. 251 p.

- Byne, M.S. and A. Byne, Spanish gardens and patios. 1924, Philadelphia & London, New York: J. B. Lippincott company; The Architectural record. 305 p.
- Cameron, R., Above Washington: a collection of nostalgic and contemporary aerial photographs of the District of Columbia. Rev. printing; 1986. ed. 1993, San Francisco, Calif.: Cameron. 158 p.
- Casa Valdés, T.O.y.S., Spanish gardens. 1987, Woodbridge [Eng.]: Antique Collectors' Club. 299 p.
- 8. Conan, M., J. Tito Rojo, and L. Zangheri, Histories of garden conservation: case-studies and critical debates: colloquio internazionale sulla storia della conservazione dei giardini. Giardini e paesaggio. 2005, Firenze: L. S. Olschki. xiii, 449 p.
- 9. Corner, J. and A.S. MacLean, Taking measures: across the American landscape. 1996, New Haven [Conn.]: Yale University Press. xix, 185 p.
- 10. Cosgrove, D.E., Mappings. Critical views. 1999, London: Reaktion Books. viii, 311 p.
- 11. Cosgrove, D.E., The Palladian landscape: geographical change and its cultural representations in sixteenth-century Italy. 1993, University Park, Pa.: Penn State University Press. xv, 270 p.
- 12. Cosgrove, D.E. and S. Daniels, The Iconography of landscape: essays on the symbolic representation, design, and use of past environments. Cambridge studies in historical ge-

- ography. 1988, Cambridge [Cambridgeshire]; New York: Cambridge University Press. ix, 318 p.
- 13. Costo, R. and J.H. Costo, The Missions of California: a legacy of genocide. 1987, [San Francisco]: Published by The Indian Historian Press for the American Indian Historical Society. x, 233 p.
- Crump, S., California's Spanish missions: their yesterdays and todays. 1st ed. 1975, Corona del Mar, Calif.: Trans-Anglo Books. 95 p.
- 15. Edwards, B., Courtyard housing: past, present and future. 2006, Abingdon [England]; New York: Taylor & Francis. xix, 248 p., [8] p. of plates.
- 16. Francis, M. and R.T. Hester, The meaning of gardens: idea, place, and action. 1990, Cambridge, Mass.: MIT Press. ix, 283 p.
- 17. Francis, M. and A. Reimann, The California landscape garden: ecology, culture, and design. 1999, Berkeley, Calif.: University of California Press. xx, 234 p.
- 18. French, J.S., The California garden: and the landscape architects who shaped it. 1993, Washington, D.C.: The Landscape Architecture Foundation. 256 p.
- 19. Harris, D.S. and B.R. Maybeck, Maybeck's landscapes: drawing in nature. 2004, San Francisco: William Stout Publishers. 159 p.
- 20. Hildrup, J.S., The missions of California and the old Southwest. 1907, Chicago: A. C. McClurg. ix, 100 p.

- 21. James, G.W., The old Franciscan Missions of California. 1928, Boston: Little, Brown. xiv, 260 p.
- 22. Knowles, A.K., Past time, past place: GIS for history. 2002, Redlands, Calif.: ESRI Press. xx, 202 p.
- 23. Koch-Nielsen, H., Stay cool: a design guide for the built environment in hot climates. 2002, London, UK: James & James. 159 p.
- 24. Levick, M. and S. Young, The missions of California. Rev. and updated. ed. 1998, San Francisco: Chronicle Books. 134 p.
- 25. Masson, K. and J. Chen, Santa Barbara style. 2001, New York: Rizzoli. 207 p.
- 26. Mathur, A. and D.d. Cunha, Mississippi floods: designing a shifting landscape. 2001, New Haven [Conn.]: Yale University Press. xv, 161 p.
- Miller, N.F. and K.L. Gleason, The Archaeology of garden and field. 1994, Philadelphia: University of Pennsylvania Press. xv, 228 p.
- 28. Norworth, H., The pathway of the padres. 1951, Los Angeles, Calif.: Shield-Way Pub. Co. [8], 144, [1] p.
- 29. Novak, B., Nature and culture: American landscape and painting, 1825-1875. 3rd ed. 2007, New York, NY: Oxford University Press. xxix, 296 p.
- O'Malley, T. and M. Treib, Regional garden design in the United States. 1995, Washington, D.C.: Dumbarton Oaks Research Library and Collection. vi, 321 p.

- 31. Olin, L., B. Hodge, and Harvard University. Graduate School of Design., Transforming the common place: selections from Laurie Olin's sketchbooks. 1996, Cambridge, Mass.
- New York: Harvard University Graduate School of Design; Princeton Architectural Press. 79 p.
- 33. Padilla, V., Southern California gardens: an illustrated history. 1994, Santa Barbara, Calif.: A.A. Knoll. xviii, 359 p., [8] p of plates.
- 34. Panich, P., Cultivating words: the guide to writing about the plants and gardens you love. 2005, Northampton, Mass.: Tryphon Press. xviii, 129 p.
- 35. Polyzoides, S., R. Sherwood, and J. Tice, Courtyard housing in Los Angeles: a typological analysis. 2nd ed. 1992, New York, N.Y.: Princeton Architectural Press. x, 216 p.
- Potteiger, M. and J. Purinton, Landscape narratives: design practices for telling stories.
 1998, New York: J. Wiley. xii, 340 p.
- 37. Power, N.G. and M. Hales, The gardens of California: four centuries of design from mission to modern. 1st ed. 1995, New York: C. Potter. xii, 196 p.
- 38. Powers, L.B., The missions of California: their establishment, progress and decay. 1897, San Francisco: W. Doxey. vi, 106 p., 20 leaves of plates.
- 39. Reps, J.W., Bird's eye views: historic lithographs of North American cities. 1998, New York: Princeton Architectural Press. 115 p.

- 40. 40. Reps, J.W., Panoramas of promise: Pacific Northwest cities and towns on nineteenth-century lithographs. 1984, Pullman, Wash.: Washington State University Press. 93 p.
- 41. 41. Reps, J.W., Washington on view: the nation's capital since 1790. 1991, Chapel Hill: University of North Carolina Press. xi, 297 p.
- 42. 42. Reynolds, J., Courtyards: aesthetic, social, and thermal delight. 2002, New York, NY: John Wiley. xi, 243 p.
- 43. 43. Smyth, E.L., The missions of California. 1899, Chicago: A. Belford & Co. [38] leaves of plates.
- 44. 44. Solomon, B.S., Green architecture and the agrarian garden. 1988, New York: Rizzoli. 137 p.
- 45. 45. Starr, K., Americans and the California dream, 1850-1915. 1973, New York: Oxford University Press. xviii, 494 p.
- 46. 46. Stewart, G.R., U.S. 40; cross section of the United States of America. 1953, Boston: Houghton Mifflin. viii, 311 p.
- 47. 47. Swaffield, S.R., Theory in landscape architecture: a reader. Penn studies in landscape architecture. 2002, Philadelphia: University of Pennsylvania Press. xii, 265 p.
- 48. 48. Taylor, C., The archaeology of gardens. 1983, Aylesbury, Bucks, U.K.: Shire Publications. 72 p.
- 49. Taylor, J.M. and H.M. Butterfield, Tangible memories: Californians and their gardens, 1800-1950. 2003, [S.l.]: Xlibris Corp. 475 p.

- Treib, M., The architecture of landscape, 1940-1960. Penn studies in landscape architecture. 2002, Philadelphia: University of Pennsylvania Press. x, 311 p.
- 51. Treib, M., Settings and stray paths: writings on landscapes and gardens. 2005, London; New York: Routledge. xiii, 237 p.
- 52. Treib, M. and D. Imbert, Sanctuaries of Spanish New Mexico. 1993, Berkeley: University of California Press. xvi, 352 p.
- Tuan, Y.-f., Space and place: the perspective of experience. 1977, Minneapolis: University of Minnesota Press. vi, 235 p.
- United States. Congress. Senate. Committee on Energy and Natural Resources., California Missions Preservation Act: report (to accompany H.R. 1446). 2004, [Washington, D.C.: U.S. G.P.O. 7 p.
- 55. Venturi, R., D. Scott Brown, and S. Izenour, Learning from Las Vegas: the forgotten symbolism of architectural form. 1977, Cambridge, Mass.: MIT Press. xvii, 192 p.
- 56. Watts, M.T., Reading the landscape of America. Rev. and expanded ed. 1975, New York: Macmillan. x, 354 p.
- 57. Yenne, B., The missions of California. 2004, San Diego, Calif.: Thunder Bay Press. 191.
- The following references are loosely organized into general mission websites, archive libraries and research sites and Mission specific sites for both Santa Barbara and La Purísima. Further review and documentation of these websites

is required as well as additional sites not yet explored.

General Mission

- 58. http://missions.bgmm.com/index.htm
- 59. http://www.californiamissions.com/
- 60. http://www.ca-missions.org/contact.html
- 61. http://sanbuenaventuramission.org/links_mission.html
- 62. http://missionsofcalifornia.org/
- 63. http://www.ac.wwu.edu/~stephan/anthony/missions.html
- 64. http://ekryderr.iupui.epsilen.com/ content/personal/universal/public/home/ index.aspx?pr=ekryderr
- 65. http://www.indiana.edu/~arch/saa/matrix/cv/kryder-reid.html
- 66. http://www.cuca.k12.ca.us/lessons/missions/contents/index.html
- 67. http://www.ca-missions.org/
- 68. http://www.sahscc.org/
- 69. http://www.missionart.com/
- 70. http://missionsofcalifornia.org/foundation/missions2000.html
- 71. http://www.missionsjc.com/edu_lessons.

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- html
- 72. http://www.loc.gov/topics/hispanicheritage/missions/
- 73. http://en.wikipedia.org/wiki/Spanish_ missions in California
- 74. http://en.wikipedia.org/wiki/Architecture_of_the_California_Missions
- 75. http://en.wikipedia.org/wiki/Mission_ 89. http://www.sbmission.org/history.shtml Revival_Style_architecture
- 76. http://en.wikipedia.org/wiki/Spanish_ Colonial_Revival_Style_architecture
- 77. http://architecture.about.com/od/periodsstyles/ig/House-Styles/mission-724232.htm
- Archive/Research/Mapping
- 78. http://www.davidrumsey.com/
- 79. http://bancroft.berkeley.edu/
- 80. http://www.californiahistory.net/
- 81. http://geography.berkeley.edu/ProjectsResources/californiastudies.html
- 82. http://www.calarchivists.org/
- 83. http://www.lib.washington.edu/subject/ History/RUSA/
- 84. http://www.caviews.com/sbarbara.htm

- 85. http://www.cr.nps.gov/hps/tps/briefs/ 99. brief05.htm
- 86. http://www.oac.cdlib.org/
- **Mission Santa Barbara**
- 87. http://www.sbmal.org/
- 88. http://www.californiamissions.com/cahistory/santabarbara.html
- 90. http://gocalifornia.about.com/cs/ missioncalifornia/a/barbarahist.htm
- 91. http://www.santabarbara.com/points_of_ interest/mission/#map
- 92. http://www.missionart.com/hSB/p-SB.
- 93. http://missiontour.org/santabarbara/ history.htm
- 94. http://memory.loc.gov/ammem/collections/habs haer/index.html
- 95. http://santabarbaramission.org/
- 96. http://www.geog.ucsb.edu/~apcg2001/ fieldtrips/sb_water/
- 97. http://members.tripod. com/~ArtistFromHungary/mission/santabarbara.htm
- 98. http://www.californiagenealogy.org/missionsofca/santa barbara.htm

http://www.centralcoasttourist.com/Missions/Santa Barbara Mission/santa barbara mission.html

Mission La Purísima

100. http://www.lapurisimamission.org/

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