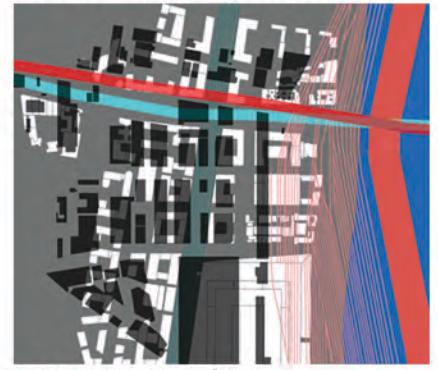


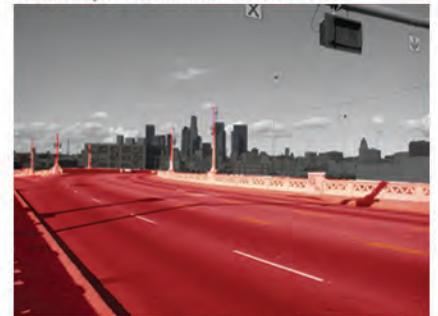
ARTIST DISTRICT PUBLIC LIBRARY
LOS ANGELES 2001



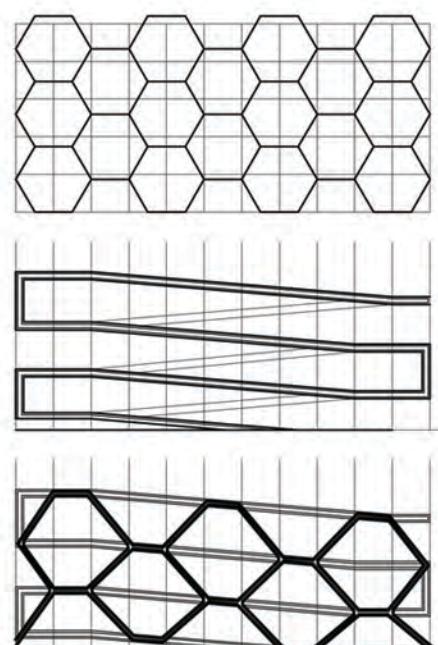
1. Early site and precedent analysis
urban fabric of Los Angeles to Paris:



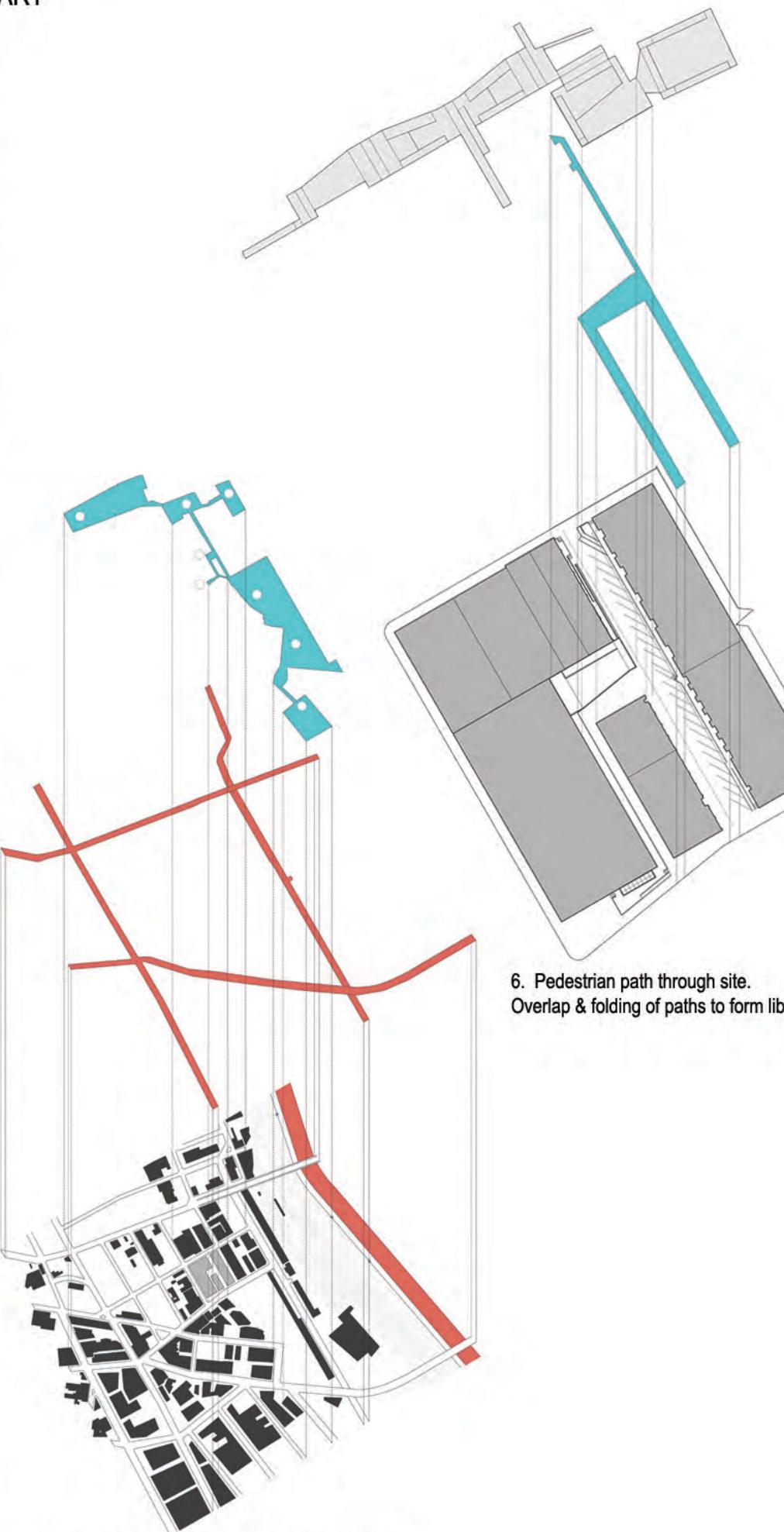
2. LA River to River Seine
Artist District to Arrondissement 13
Bibliotheque Nationale to SCIARC



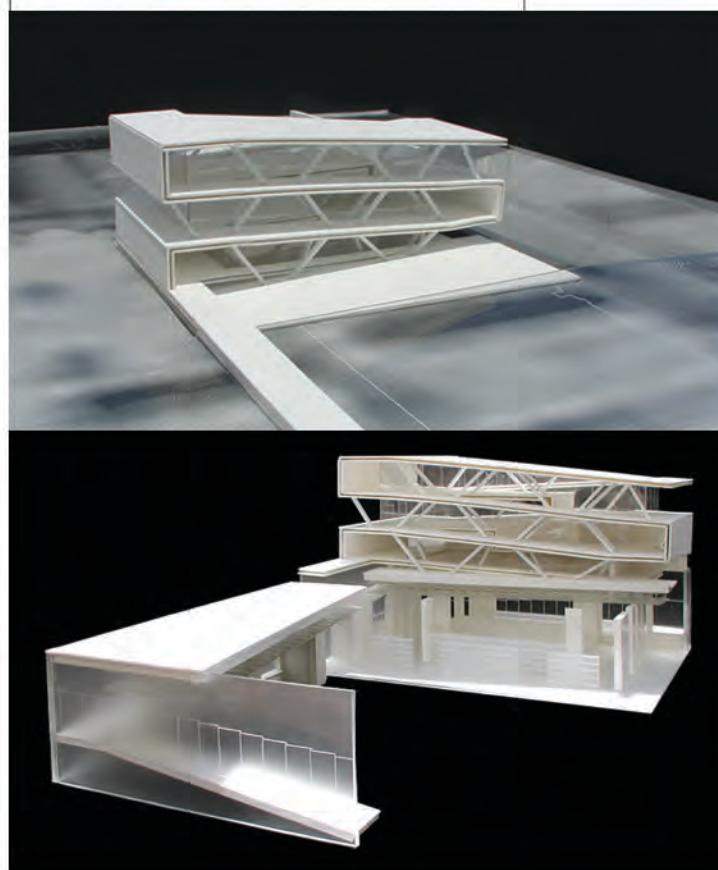
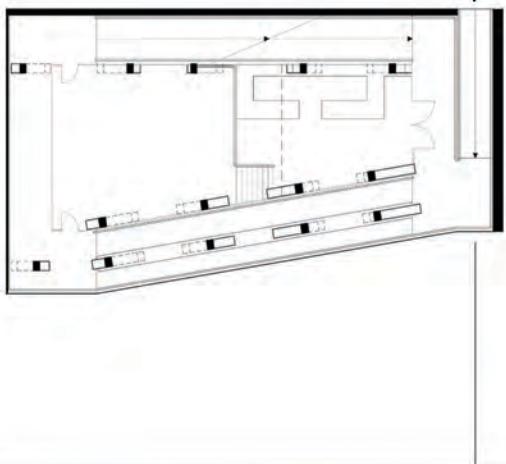
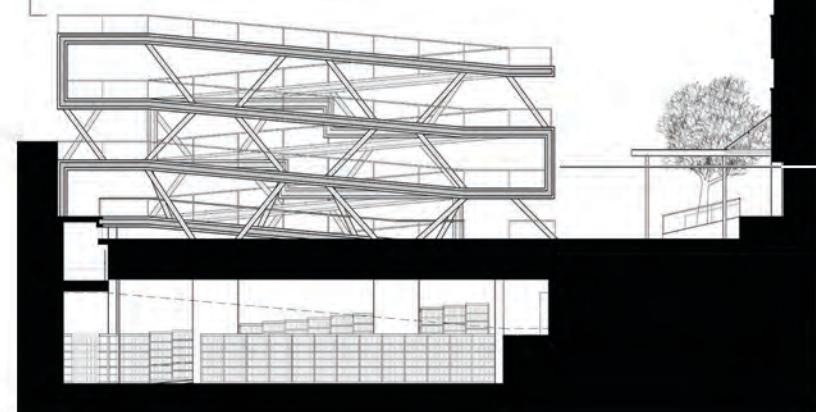
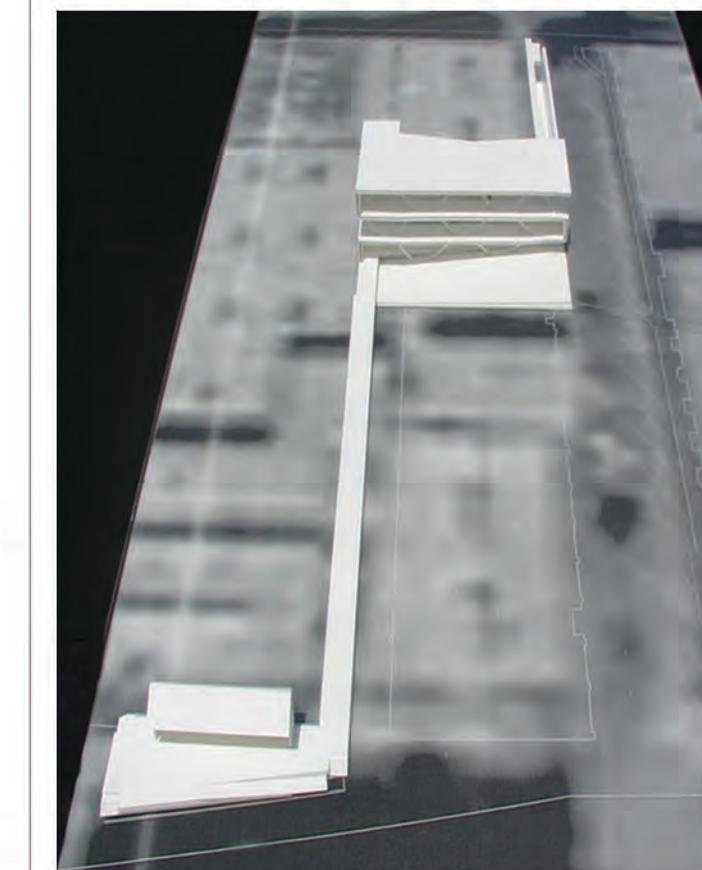
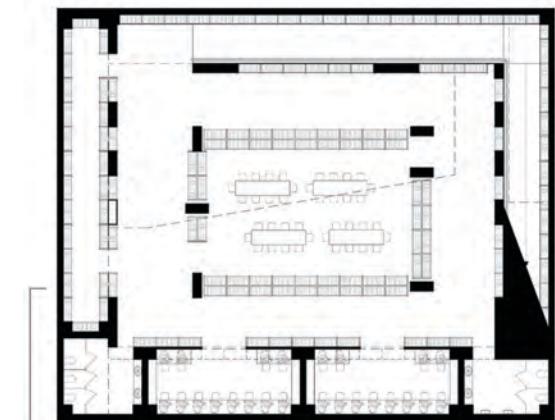
3. Boundaries of Artist District.
1st and 4th St Bridges over LA River.



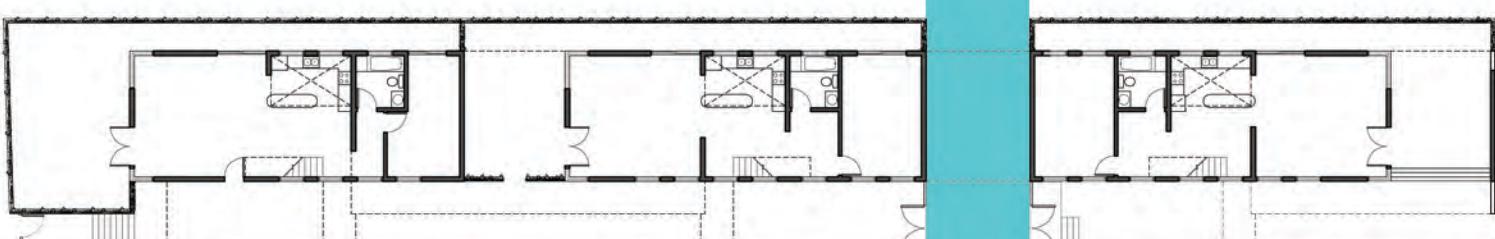
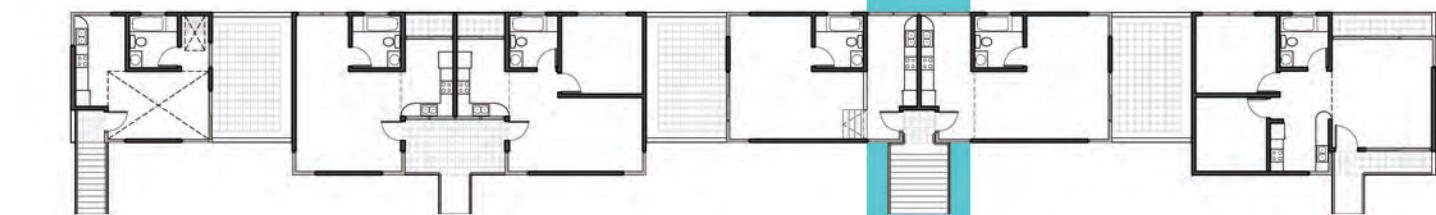
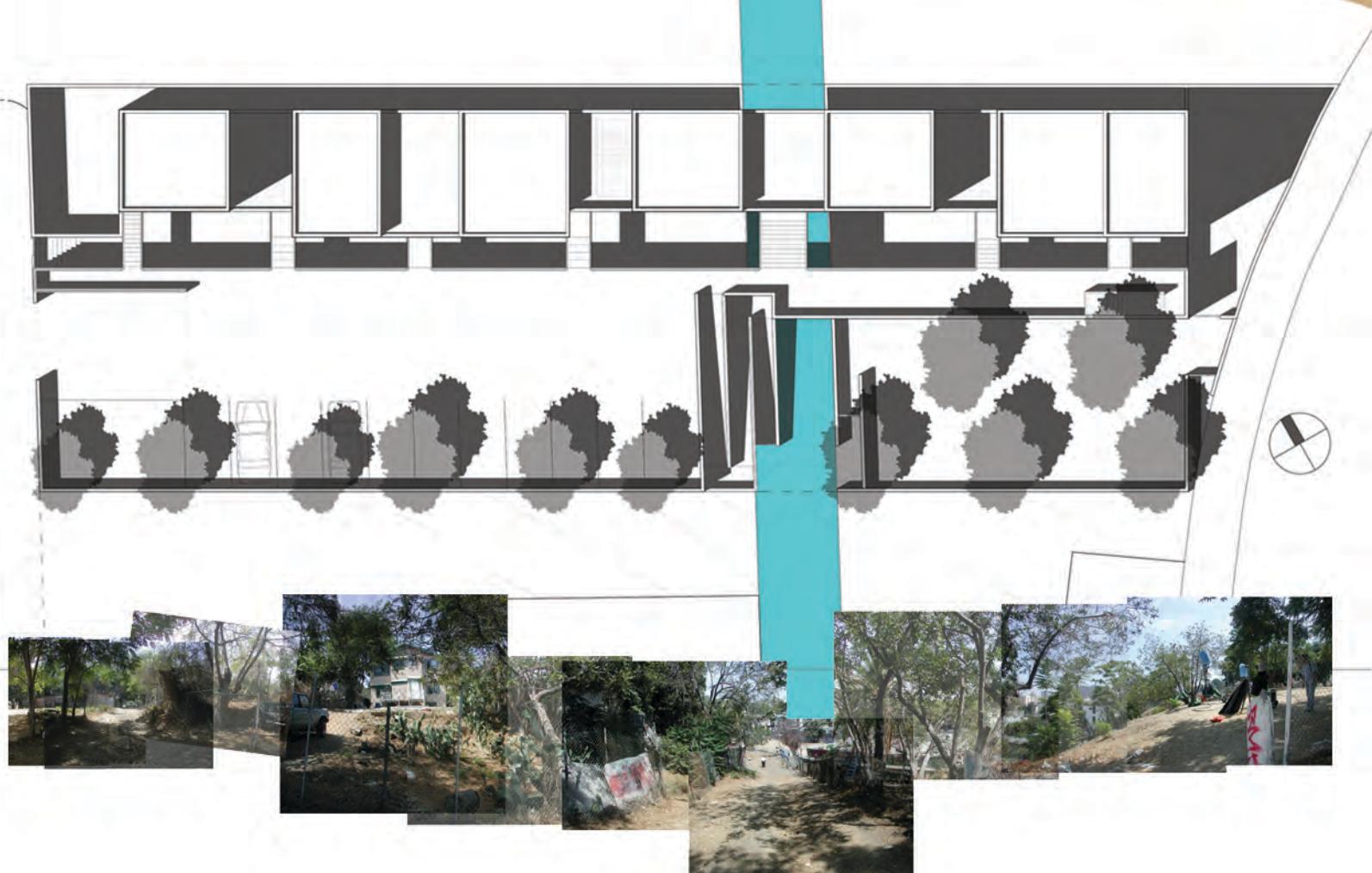
4. Structural + Elevation Development



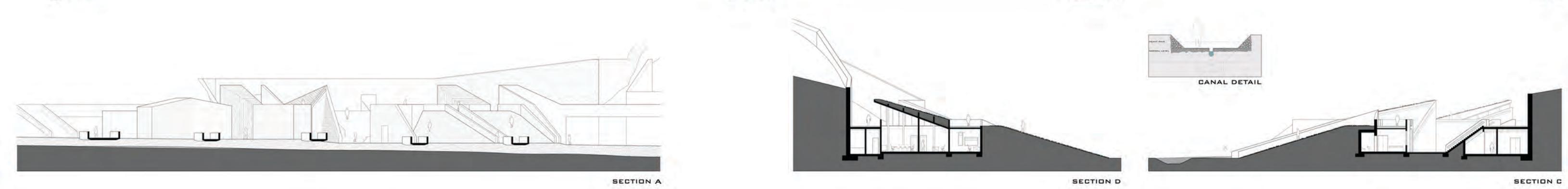
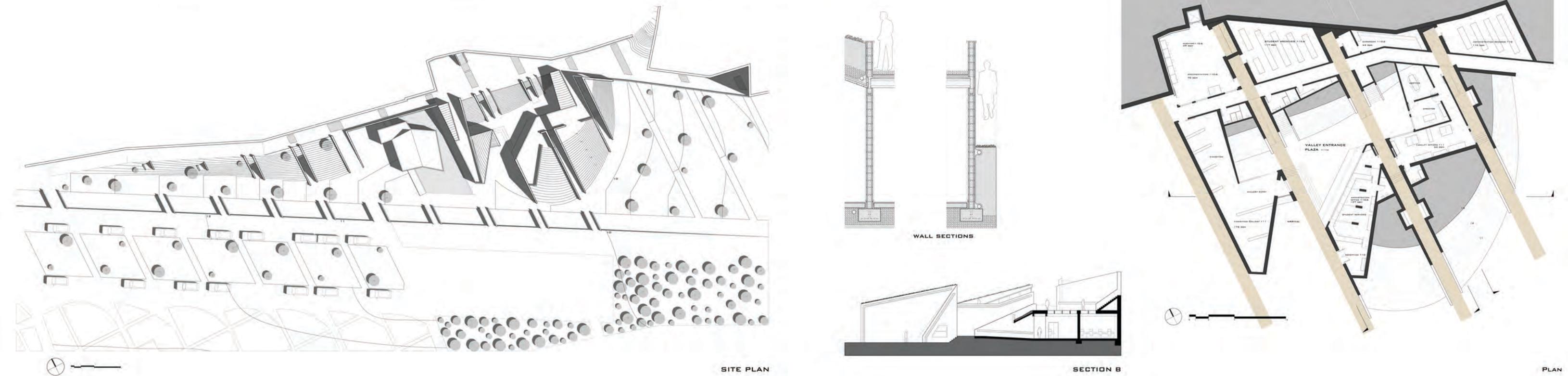
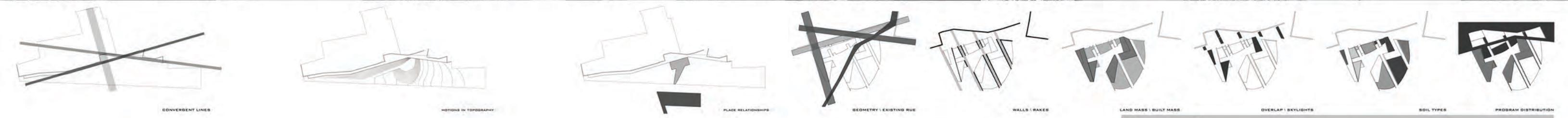
5. Neighborhood boundaries & bridging of open spaces



9 UNIT HOUSING, LOS ANGELES 2002, USC Special Exhibition for Tadao Ando & selection by Tadao Ando



SCEP SCHOOL FOR HORTICULTURE & LANDSCAPE ARCHITECTURE
RUE DES ARENES, SAINTES, FRANCE 2004

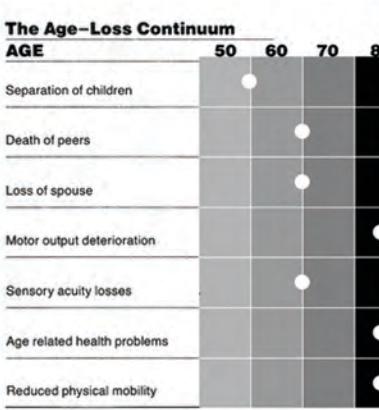


LIVING IN PLACE: AFFORDABLE HOUSING FOR SENIORS AND FAMILIES

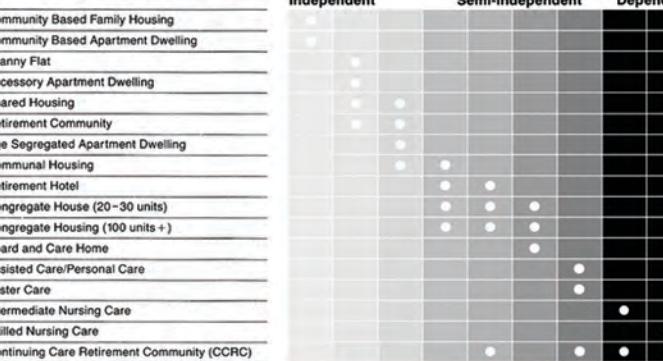
COMPTON CA 2004



1. Film stills from "Requiem for a Dream"



Housing Options for the Elderly

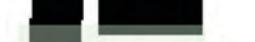


INDEPENDENT LIVING STREET ORIENTED/GROUND LEVEL/WALK UP



5 TWO BEDROOM UNITS / 1 ONE BEDROOM UNIT

SEMI-DEPENDENT LIVING COURTYARD ORIENTED/ACCESS BALCONY

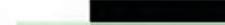


22 TWO BEDROOM UNITS / 2 ONE BEDROOM UNITS

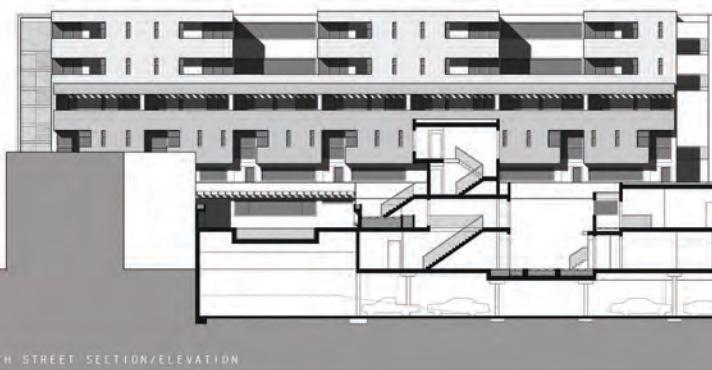
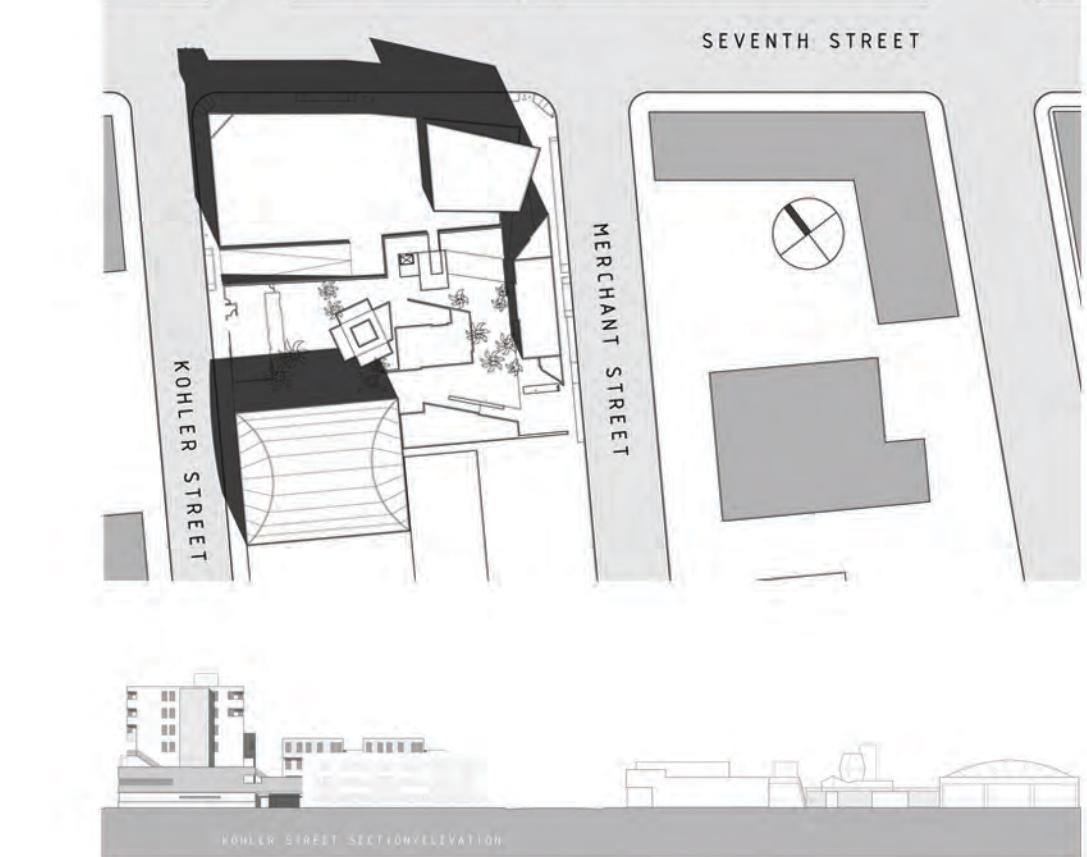
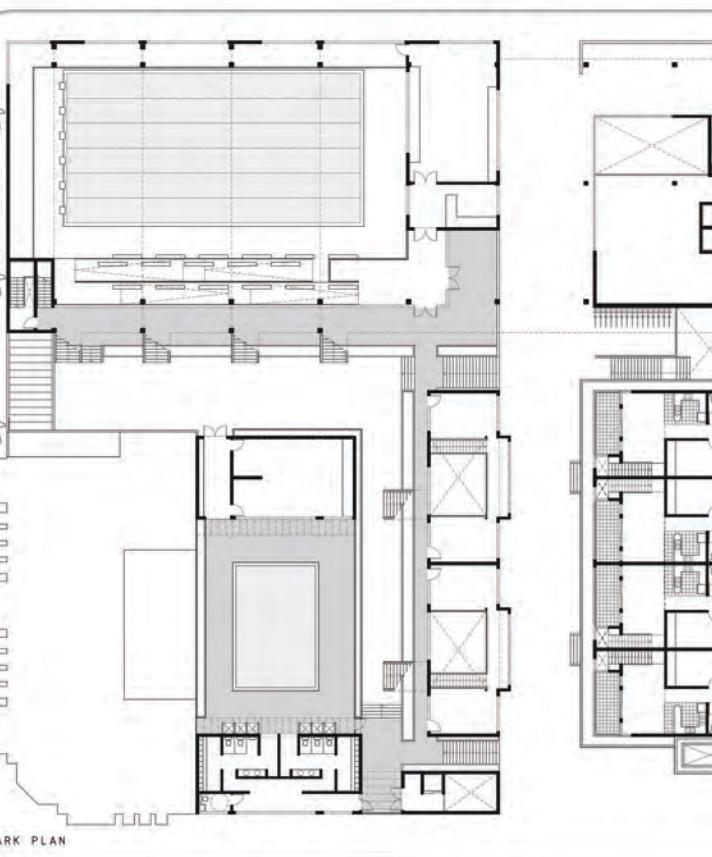
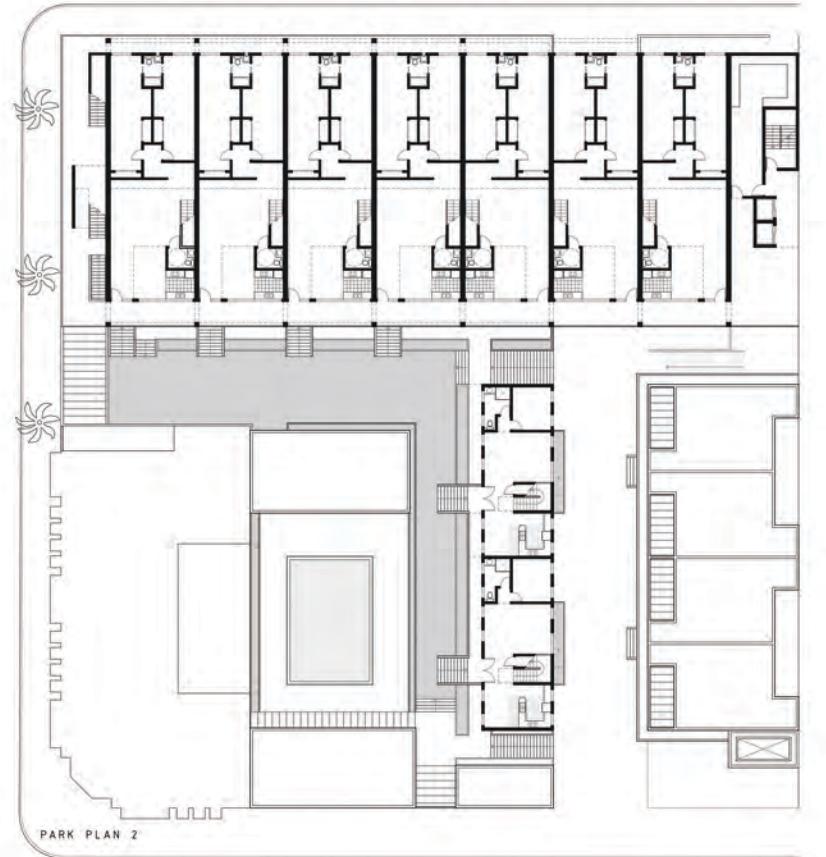
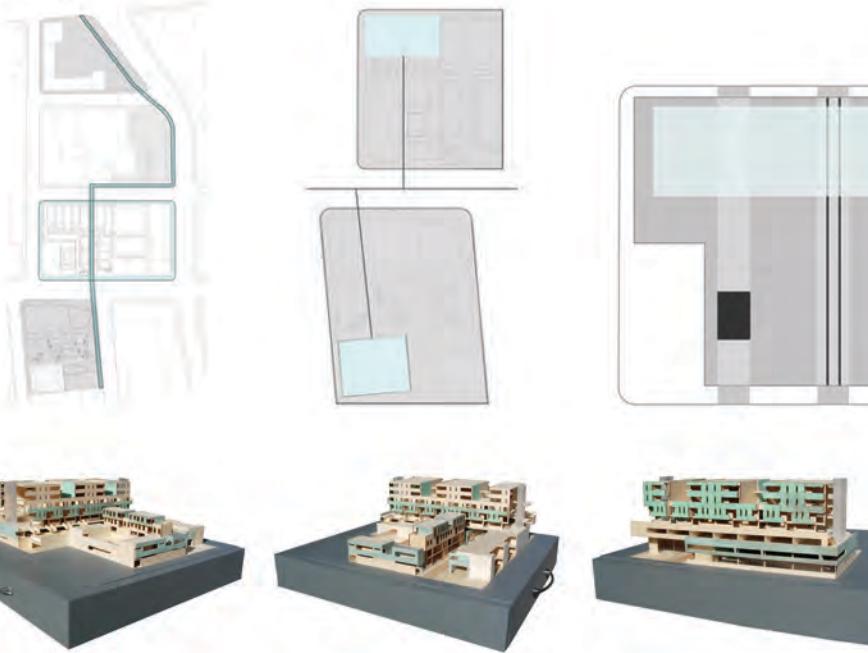
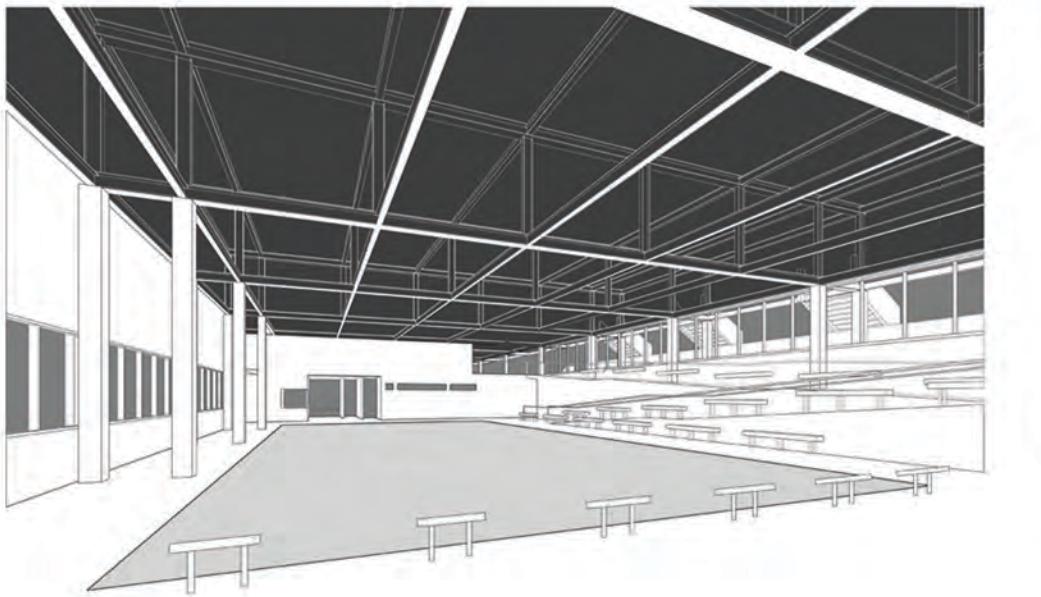
DEPENDENT LIVING SECURITY ORIENTED/ELEVATOR ACCESS



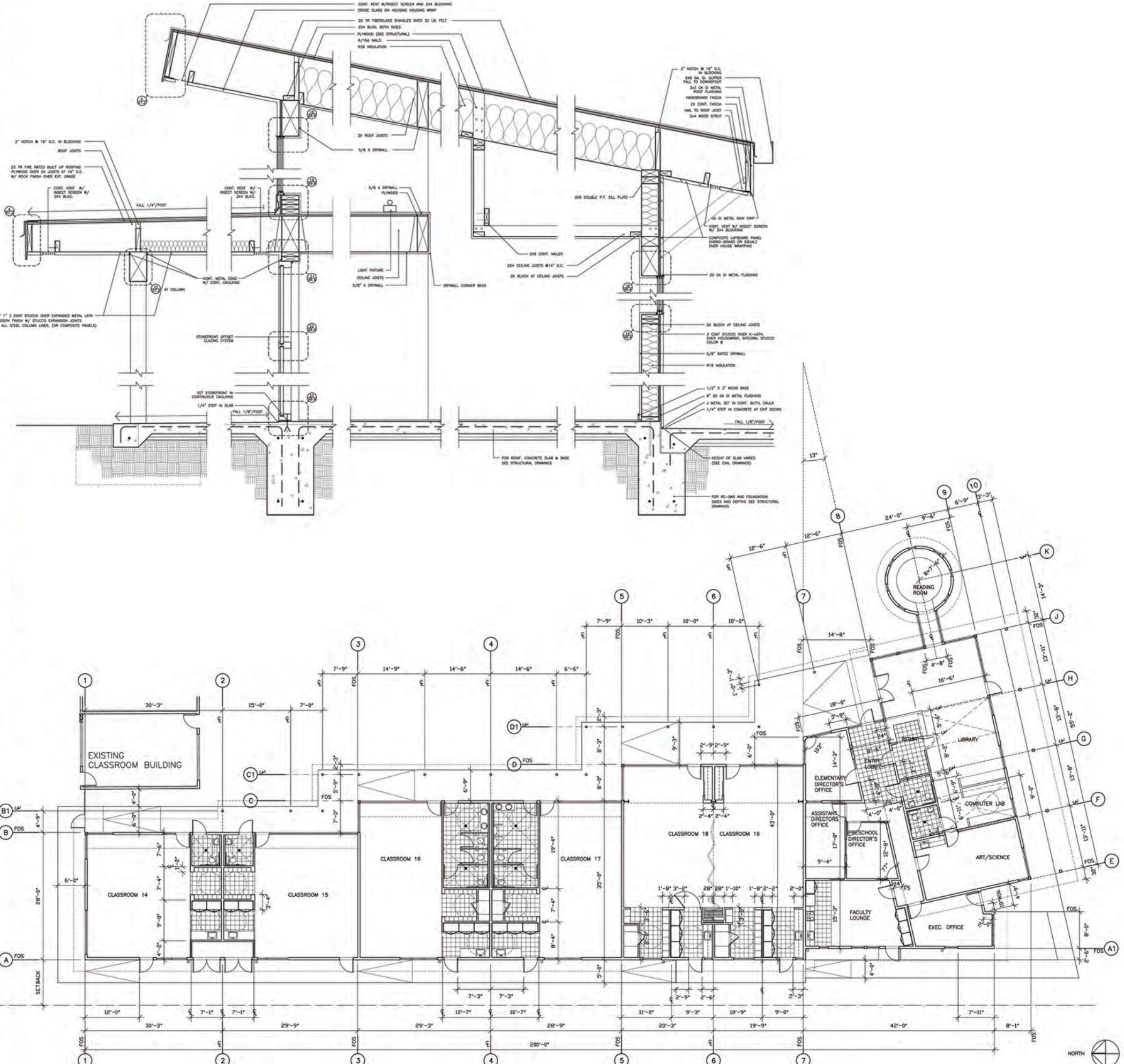
32 TWO BEDROOM UNITS / 2 ONE BEDROOM UNITS

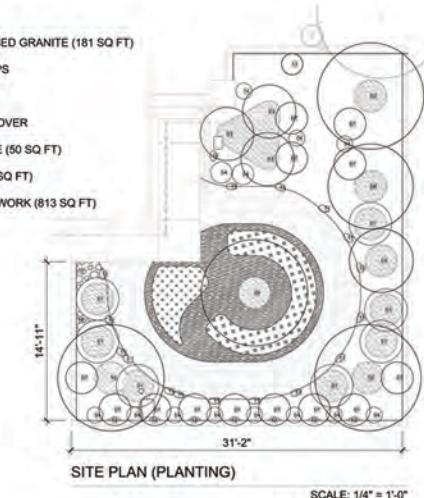
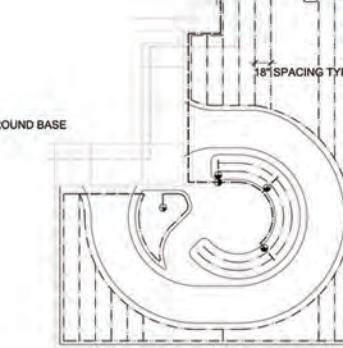
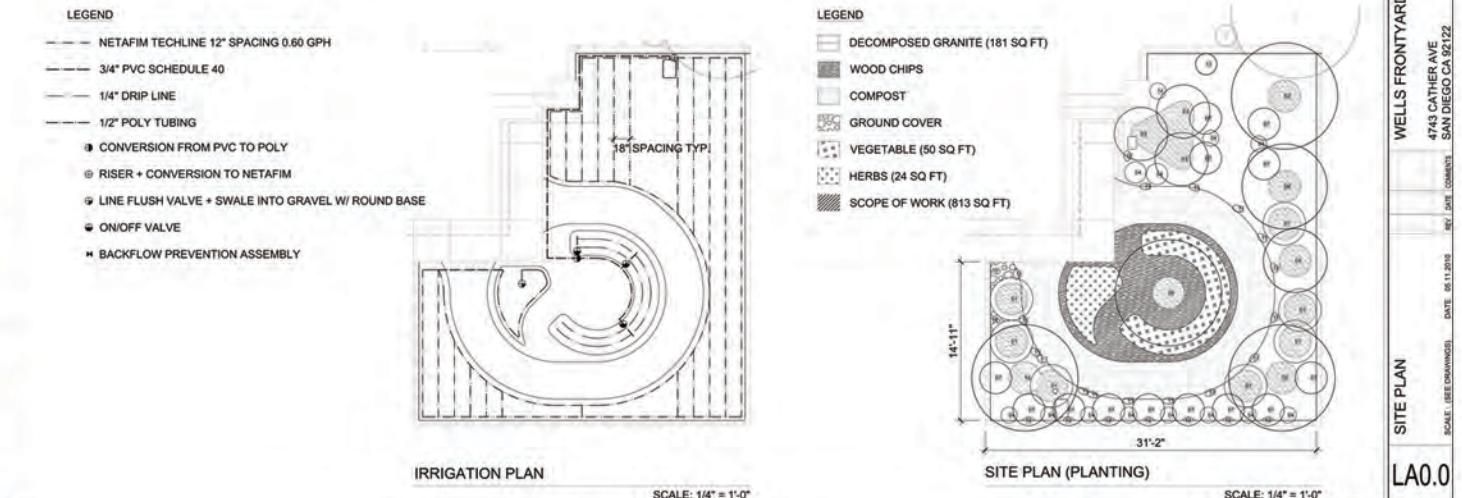


NATATORIUM MIXED USE HOUSING, LOS ANGELES, 2005. USC Independent Thesis Project



WOODLAND HILLS PRIVATE SCHOOL, WOODLAND HILLS CA, 2006 John Mutlow FAIA Architects Design Team, Addition to Private K-12 School





revolution landscape
DESIGN DEPARTMENT
OF THE ASSOCIATED LANDSCAPE CONTRACTORS
OF SAN DIEGO COUNTY

GENERAL NOTES:
-VIF (VERIFY IN FIELD), VIF ALL DIMS. ONSITE
-WATCH FOR DRAIN THAT RUNS SHALLOW OUT TO STREET
-MOVE EXISTING HOSE BIBB FROM WEST SIDE OF (E) DECK TO SOUTH SIDE
-FLOWER AND GARDEN AREAS SHOULD BE AMENDED WITH COMPOST, BUT NOT RAISED ABOVE THE GRADE OF SURROUNDING AREAS.

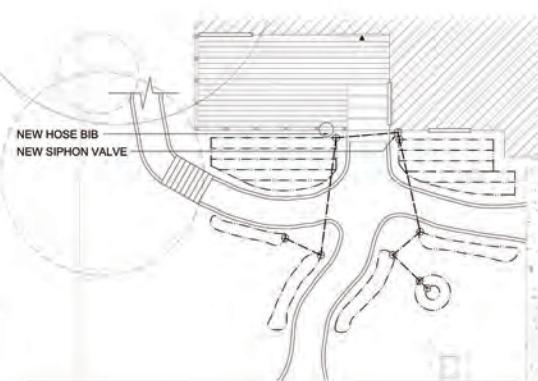
PATHWAY NOTES:
-DG PATH WILL HAVE TYPICAL 3'-0" WIDTH (INCLUDING THE MADE WITH THE EXISTING BRICKS)
-DG PATH WILL WIDEN TO 4'-0" WHERE MEETING (E) STAIRWAY PATH
-DG PATH TO CONNECT WITH (E) BRICK PAVED WALKWAY @ SIDEYARD, VIF

PATHWAY INSTALLATION NOTES:
-BRICKS AND PATH MUST MEET CURB AND SIDEWALK AT LEVEL
-LAY DRY ON GRAVEL BASE AND TAMP
-EVENLY PLACE 1" OF SAND
-PLACE EDDING
-CUT AND PLACE BRICKS(TAP WITH DEAD BLOWHAMMER TO SET)
-PLACE ADDITIONAL BASE UP TO 1" BELOW TOP OF BRICK
-FILL UP TO FINAL GRADE WITH DG OR CRUSHED ROCK

DRY CREEK NOTES:
-SHALL BE DUG TO 12" BELOW GRADE AT LOWEST POINT
-MAINTAIN 1% SLOPE MINIMUM FROM RAIN GUTTER DOWN TO MAIN OPEN AREA NEAR FRONT OF YARD
-PLACE ALL LARGER ROCKS
-PLANT PLANTS IN BETWEEN IN NATURALISTIC MANNER
-FILL IN WITH GRAVEL, SAND, ETC.

IRRIGATION NOTES:
-VERIFY BEST ROUTE FOR IRRIGATION IN FIELD
-TECH-LINE MAY BE INSTALLED WITH 12" OR 18" SPACING
DEPENDING ON Emitter LEVELS AVAILABLE, HOWEVER SPACING
MUST BE CONSISTENT
-IRRIGATION MUST BE RUN, WIRED AND TESTED PRIOR TO ANY
PLANTING

IRRIGATION KEY		
NETAFIM TECHLINE 12" SPACING 0.60 GPH		
3/4" PVC SCHEDULE 40		
1/4" DRIP LINE		
1/2" POLY TUBING		
RISER + CONVERSION TO NETAFIM		

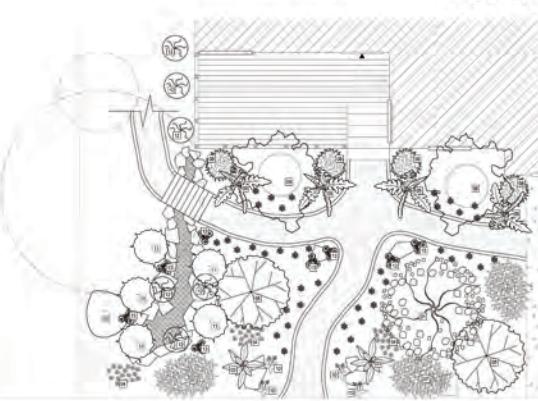


FOWLER FRONTYARD
658 BONAIR PLACE
SAN DIEGO CA 92107

SITE PLAN
SCALE (SEE DRAWINGS) DATE 07/20/2010 REV. DATE 07/20/2010

IRRIGATION PLAN
SCALE: 1/4" = 1'-0"

QUANTITY	PLANT NAME	COMMON NAME	PLANTING SCHEDULE	
			1	2
1	CITRUS	CITRUS TREE	3/6M	
1	ABELEIAS FABRICIARES	MULBERRY	1/6M	
2	SALVIA	SAGE	1/6M	
15	GRINDELIA TRICOTIA	ORISON GUMWEED	1/6M	
2	GRANCHIOS MOLINENSIS	WILD LEAT	1/6M	
2	PRUNUS	PLUM TREE	3/6M	
3	SALVIA SONORENSIS	CREEPING SAGE	1/6M	
4	LAVANDULA	LAVENDER	1/6M	
4	ASTERACEAE (COMPOSITAE)	PARTHONIA	1/6M	
4	DUDLEYA	SUCCULENT PEPPERPLANT	1/6M	
3	MULBERGIA REGIA	DEER GRASS	1/6M	
2	SPOROBOLUS ARACHNOIDES	TREPOPOD	1/6M	
1	ACROLETA MILLEfolium	COMMON YARROW MINT	1/6M	
1	PLUMARIA SARRACINA	MINT	1/6M	



LA1.0
PLANTING PLAN
SCALE: 1/4" = 1'-0"

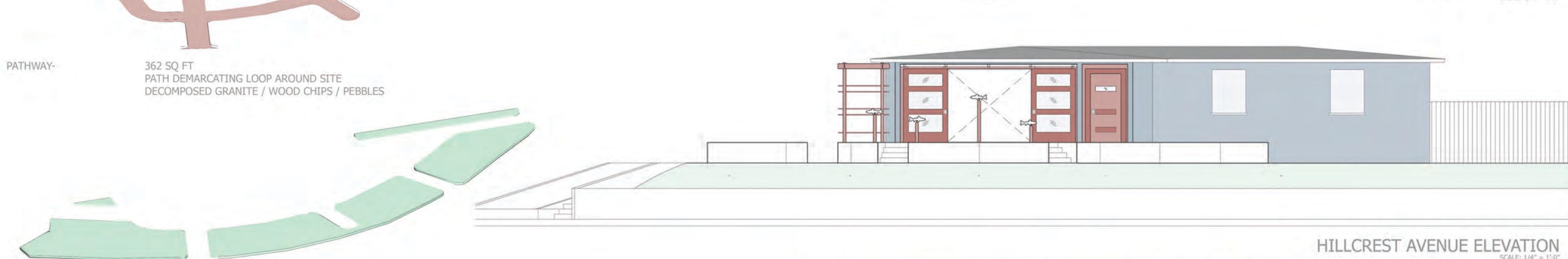
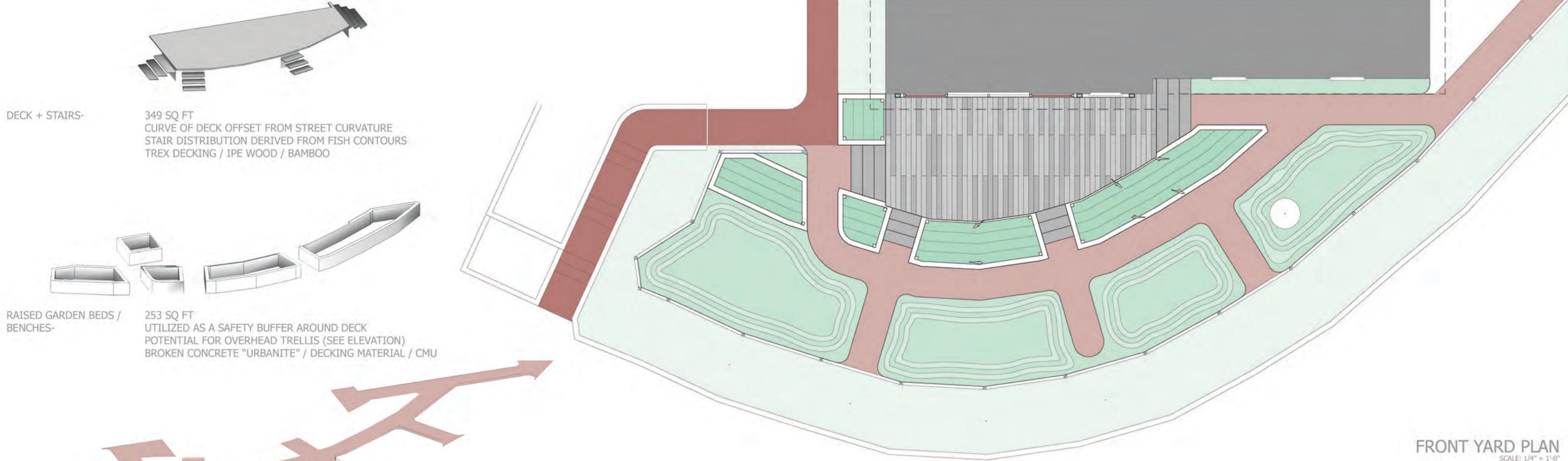
DESIGN DEPARTMENT
OF THE ASSOCIATED LANDSCAPE CONTRACTORS
OF SAN DIEGO COUNTY

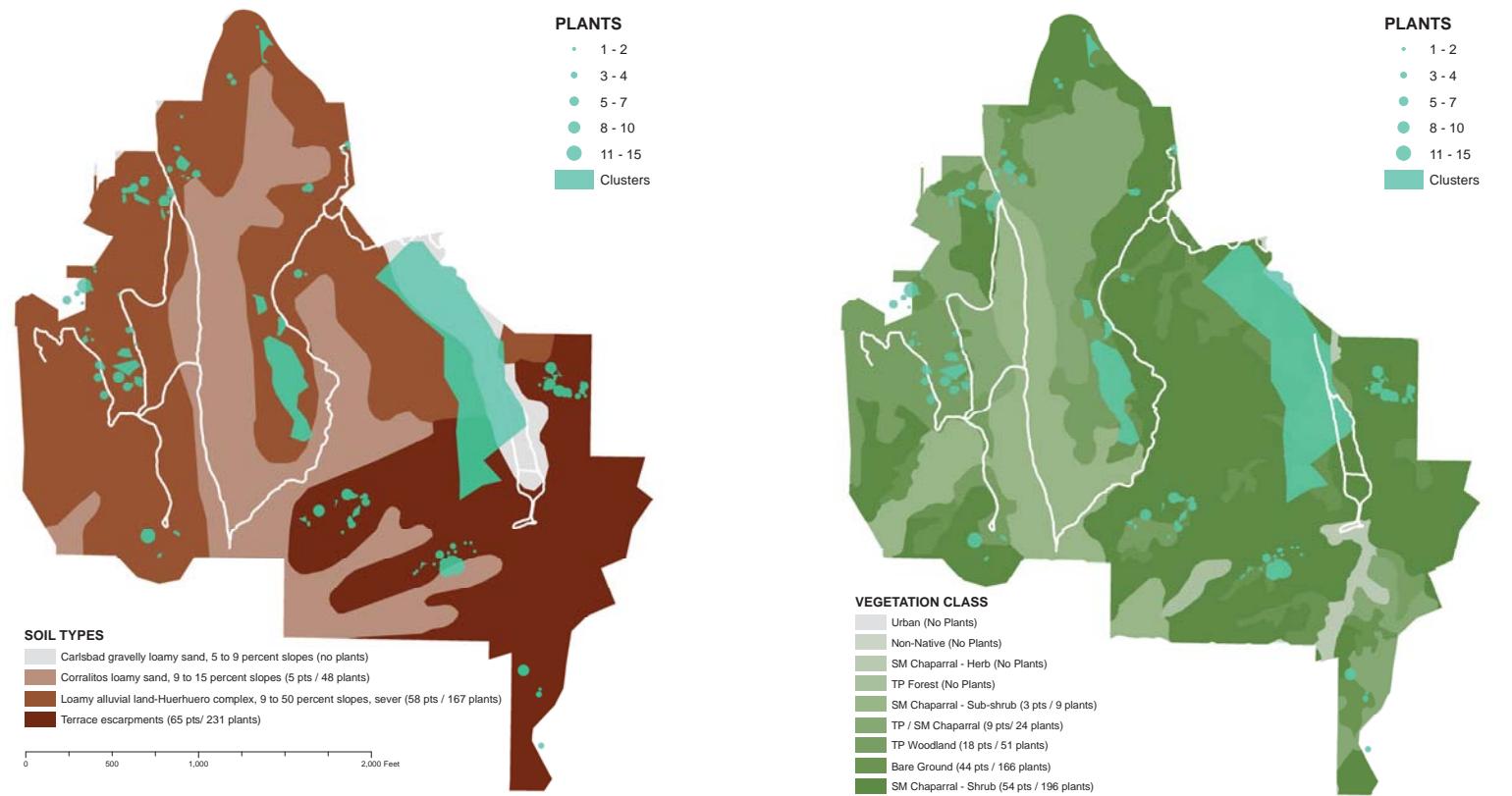
SITE PLAN
4743 CATHER AVE
SAN DIEGO CA 92122

FOWLER FRONTYARD
658 BONAIR PLACE
SAN DIEGO CA 92107

SITE PLAN
SCALE (SEE DRAWINGS) DATE 07/20/2010 REV. DATE 07/20/2010

BIGELOW + O'SHAUGHNESSY FRONT YARD, LA MESA, 2010. First project acting as freelance landscape designer





Purpose & Background

This project responds to the question:

How does the geography of Torrey Pines State Reserve affect the growth distribution of 'Del Mar Manzanita' *Arctostaphylos glandulosa crassifolia*? This project analyzes particular geographical attributes and their influence on the plants' census which my project team and I physically mapped onsite using a Thales Mobile Mapper running ArcPad.

In conducting this analysis, State of California Department of Parks & Recreation authorities and other organizations will be better enabled to determine the current state and future of this particular rare plant. This analysis will also be a key factor in determining whether or not this rare plant receive endangered species status.

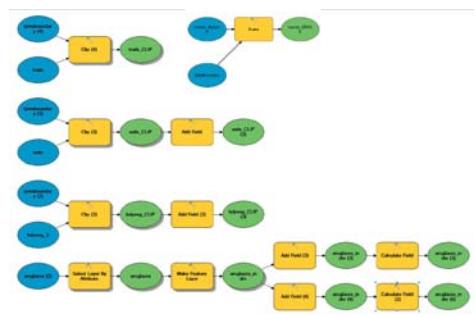
This project was in part encouraged and inspired by a similar recent study entitled "A spatially explicit census reveals population structure and recruitment patterns for a narrowly endemic pine, *Pinus torreyana*" -Janet Franklin + Elizabeth V. Santos from Plant Ecology An International Journal Volume 212 Number 2 February 2011. Given that the 'Del mar Manzanita' and 'Torrey Pine' are neighbors it's fitting that a similar census be conducted.



Data Preparation & Process

The majority of data collection was conducted while hiking onsite. Myself and 2-4 other volunteers hiked the TP Reserve Extension; identifying Del Mar Manzanitas amidst other plant life and marking their quantities and locations throughout the landscape. These hikes started at the beginning of the semester and we concluded the Extension area just last week 03/11/2011.

We collected our new data in two shape files: a point feature for individual plant locations and a polygon feature for larger/denser clusters of plants that were defined by the plant locations along their outer perimeter. We imported our other geographic base layers from the State of California Parks and Recreation Server which we were fortunate enough to have access to from the local branch office. We clipped the majority of State layers to the boundary of the Reserve. Then we integrated the State data into the feature classes of the plant locations; giving them additional attributes at an individual level. Specifically, we added two new field attributes to the plant point feature class: Soil Type and Vegetation Class.



Analysis Methods & Data Issues

With the attribute fields applied to the plant feature classes, we were then able to rank soil type and vegetation class suitability based on the number of plant locations that were within each specific soil type zone or vegetation class zone. We modified this soil and vegetation symbology & sequence to reflect the quantity of 'Del Mar Manzanita' they contained; the darker the tones, the greater the quantity. One of the issues we came across with this procedure is that we didn't realize that we had mapped several plants just beyond the boundary of the reserve. Hence, the plant point/polygons float in space and aren't able to reference a soil type or a vegetation zone. This will have to be edited in the future with a buffer around the park boundaries and re-clipping the soil type and vegetation class map to the new extents of the buffer.

Results & Conclusions

POINT TOTAL: 134 points/ 474
CLUSTER TOTAL: 20 polygons/ 2946
TOTAL PLANTS: 3420

Some of the results thus far indicate that 'Del Mar Manzanita' appear to favor in the 'Terrace Escarpment' Soil Type as well as the 'SM Chaparral Herb Vegetation Zone'. It would make sense to normalize the data next by area and generate density maps based on class and soil type. It would also be worthwhile to focus more on the plant cluster polygon feature class. Our field mapping should follow specific parameters / ranges for plant clusters. In this map some of the polygons are too small to be discernible on the map. Meanwhile some polygons are far too large and cover up too much base data.

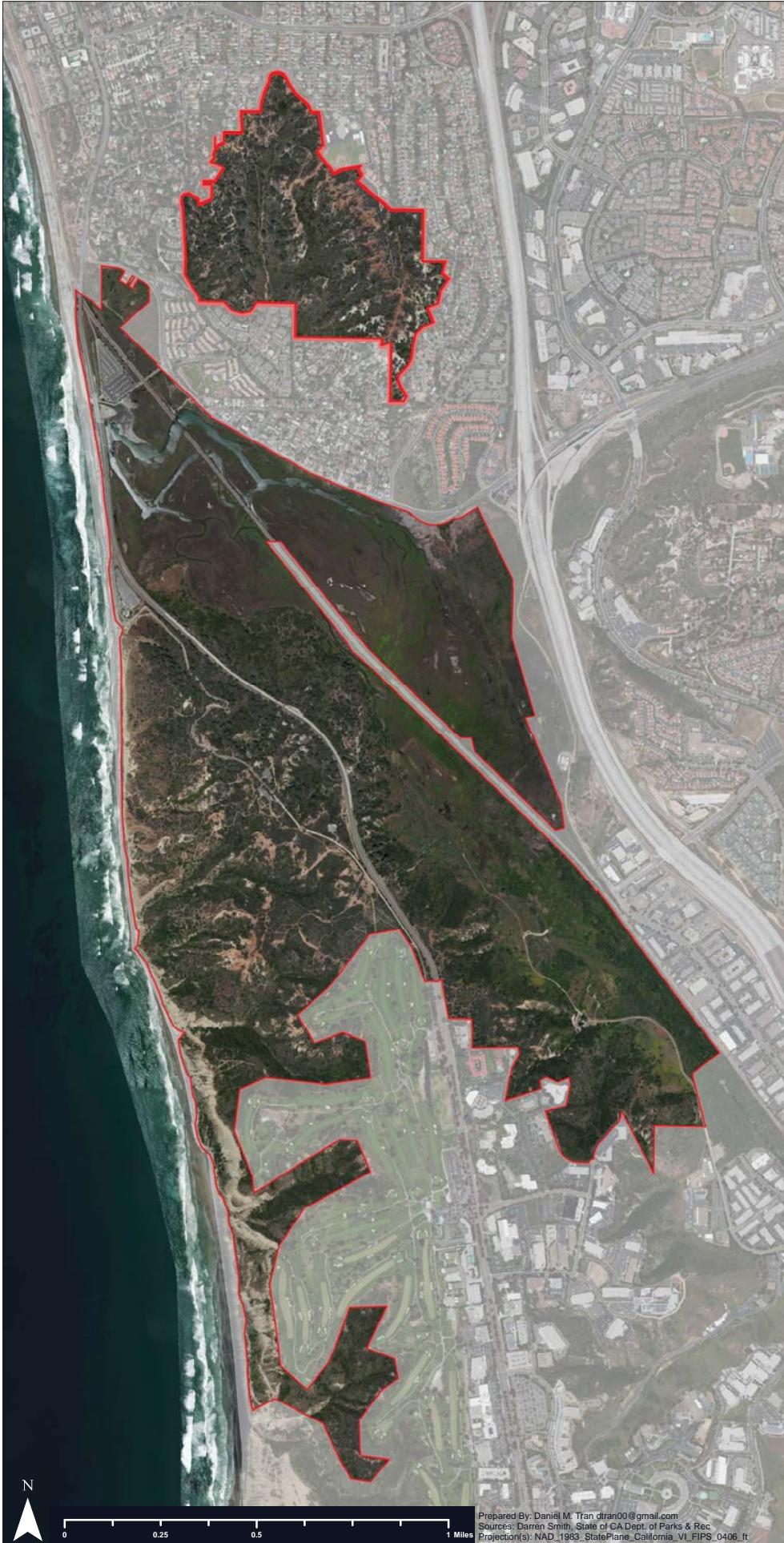
I hope to rectify this in my GISG 114 Spatial Database course where I can introduce a geodatabase that will include domains and sub-types that can enforce these new parameters; making our polygon data more useful.



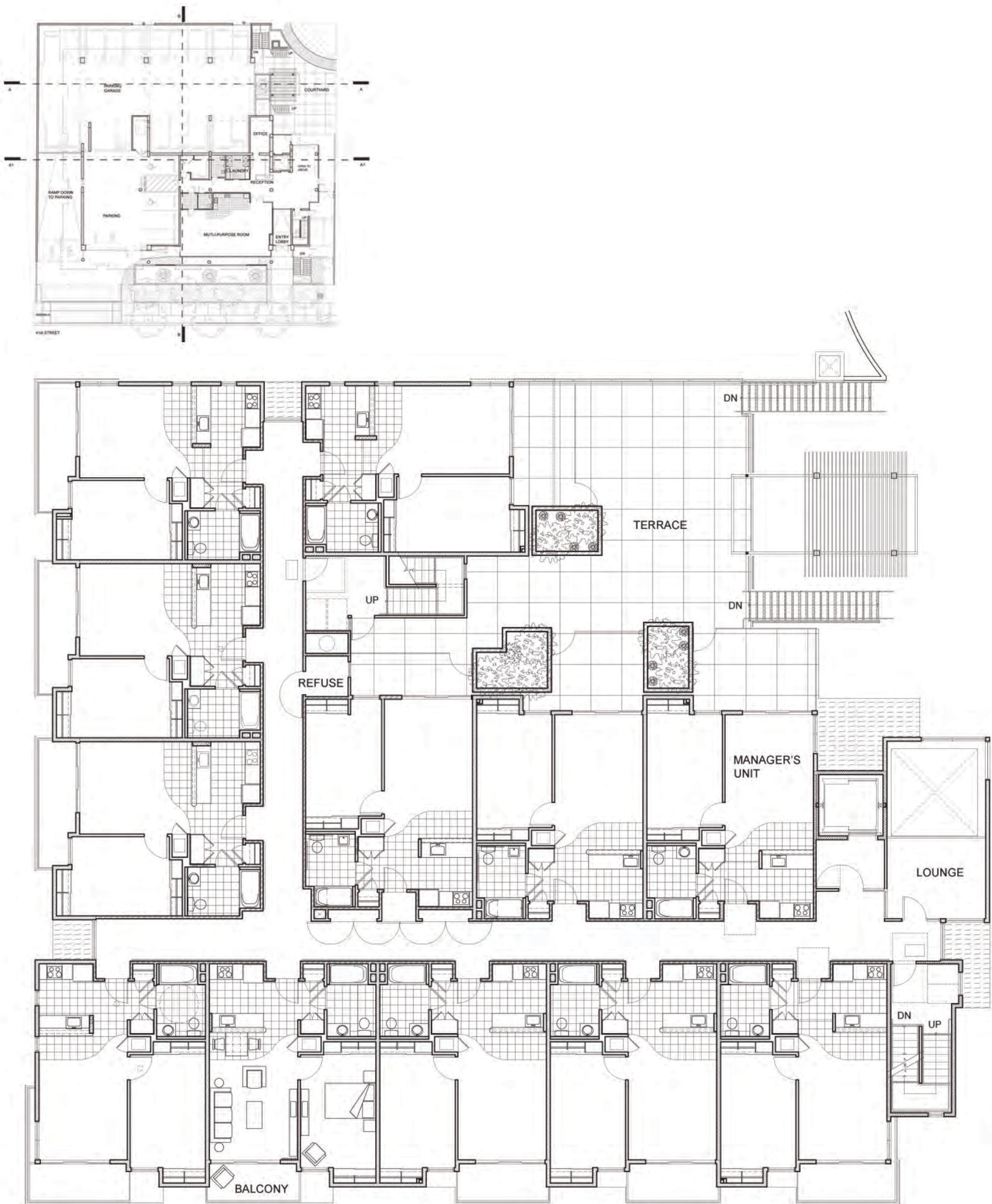
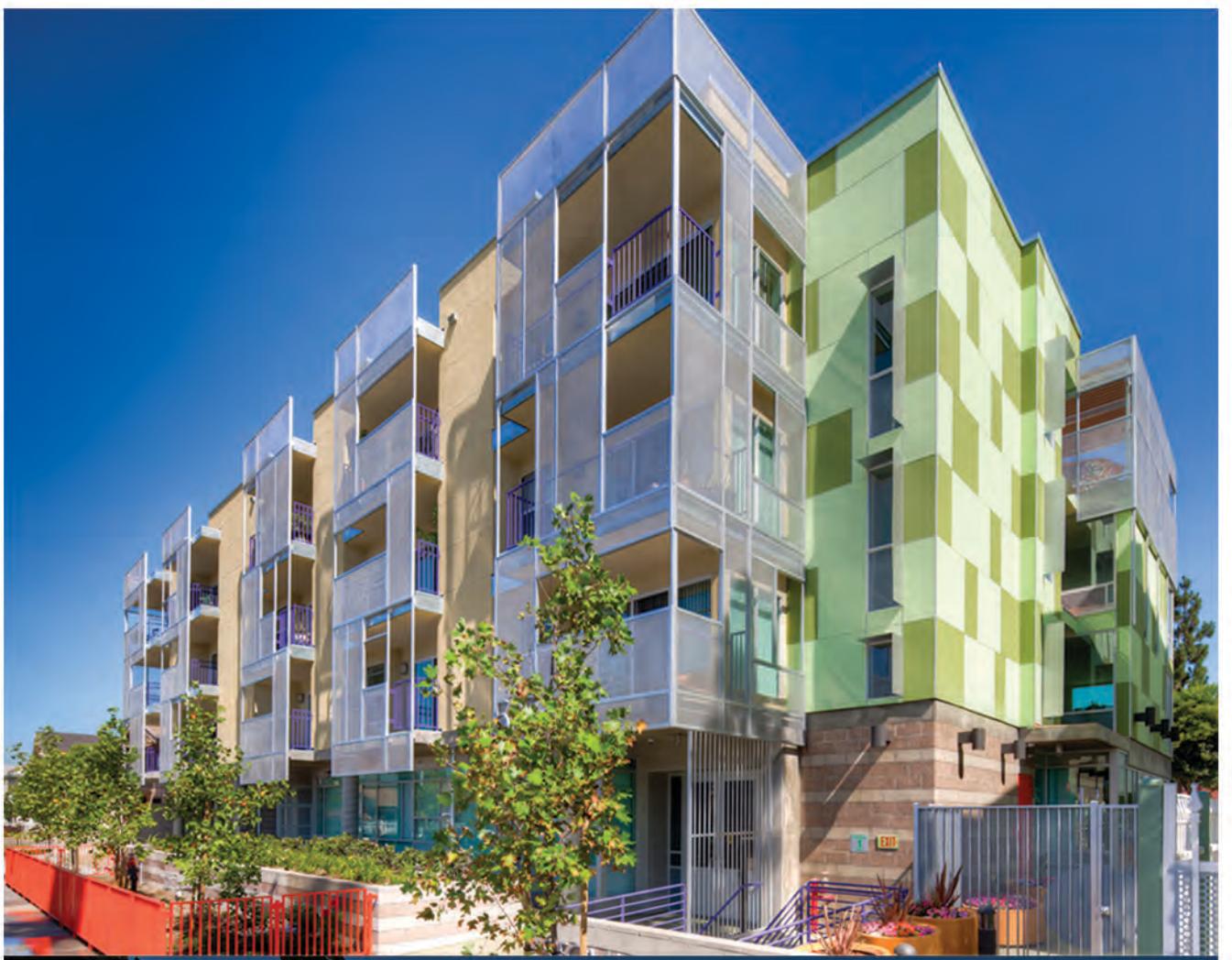
'Del Mar Manzanita' Census 2011

in Torrey Pines State Natural Reserve Extension

California State Parks



STOVALL VILLA, LOS ANGELES 2012, John Mutlow FAIA Architects Design Team, Multi-family Housing Award - 42nd Annual Los Angeles Architectural Awards 2012



GIS MAPPING OF CTCAC PROJECT PORTFOLIO, SACRAMENTO CA, 2013

