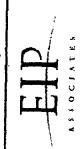


FIGURE 2-10  
Cut-Through Section of Stadium Suite Level 1

Source: HOK, 2004



City of Pasadena

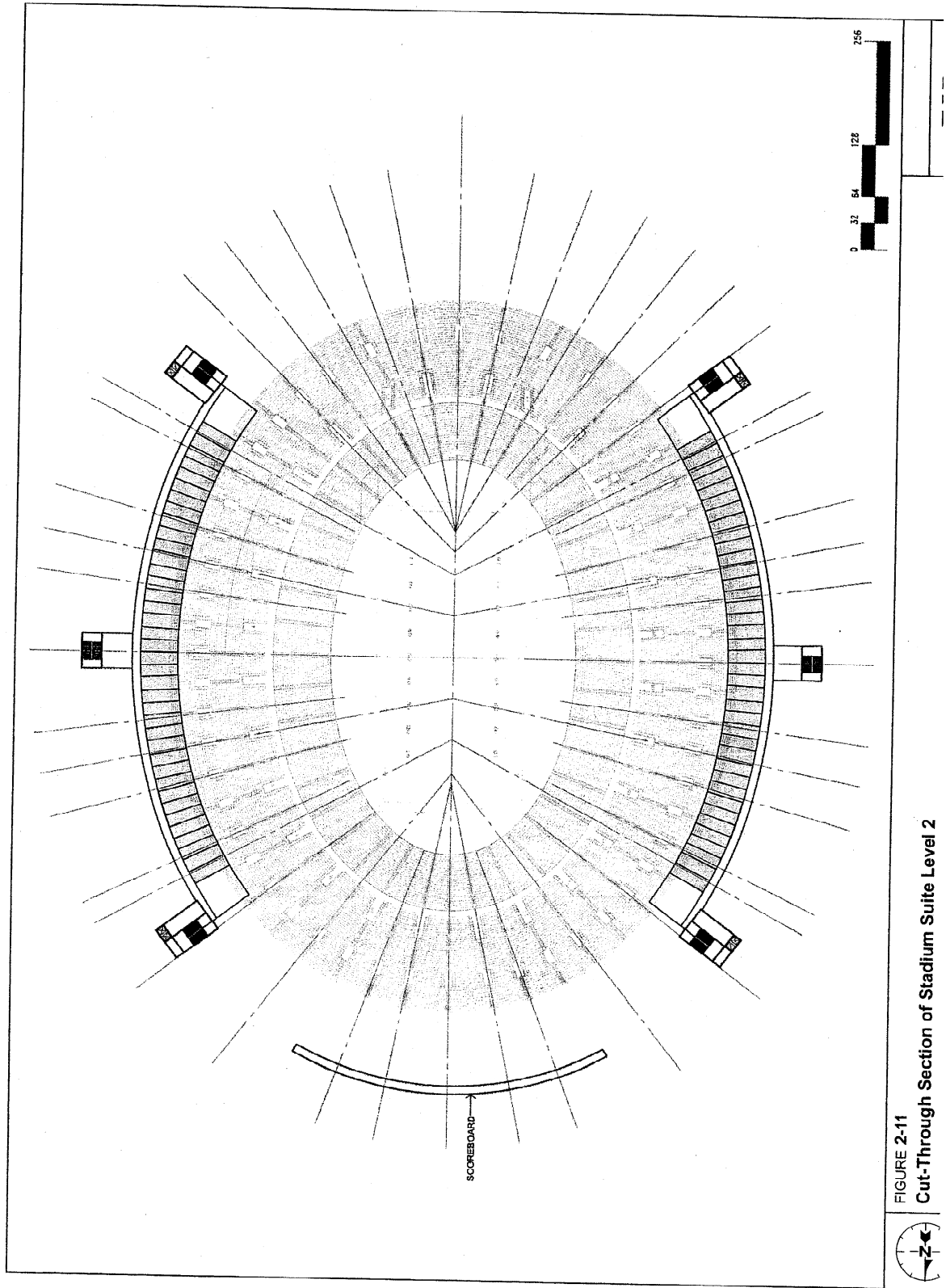
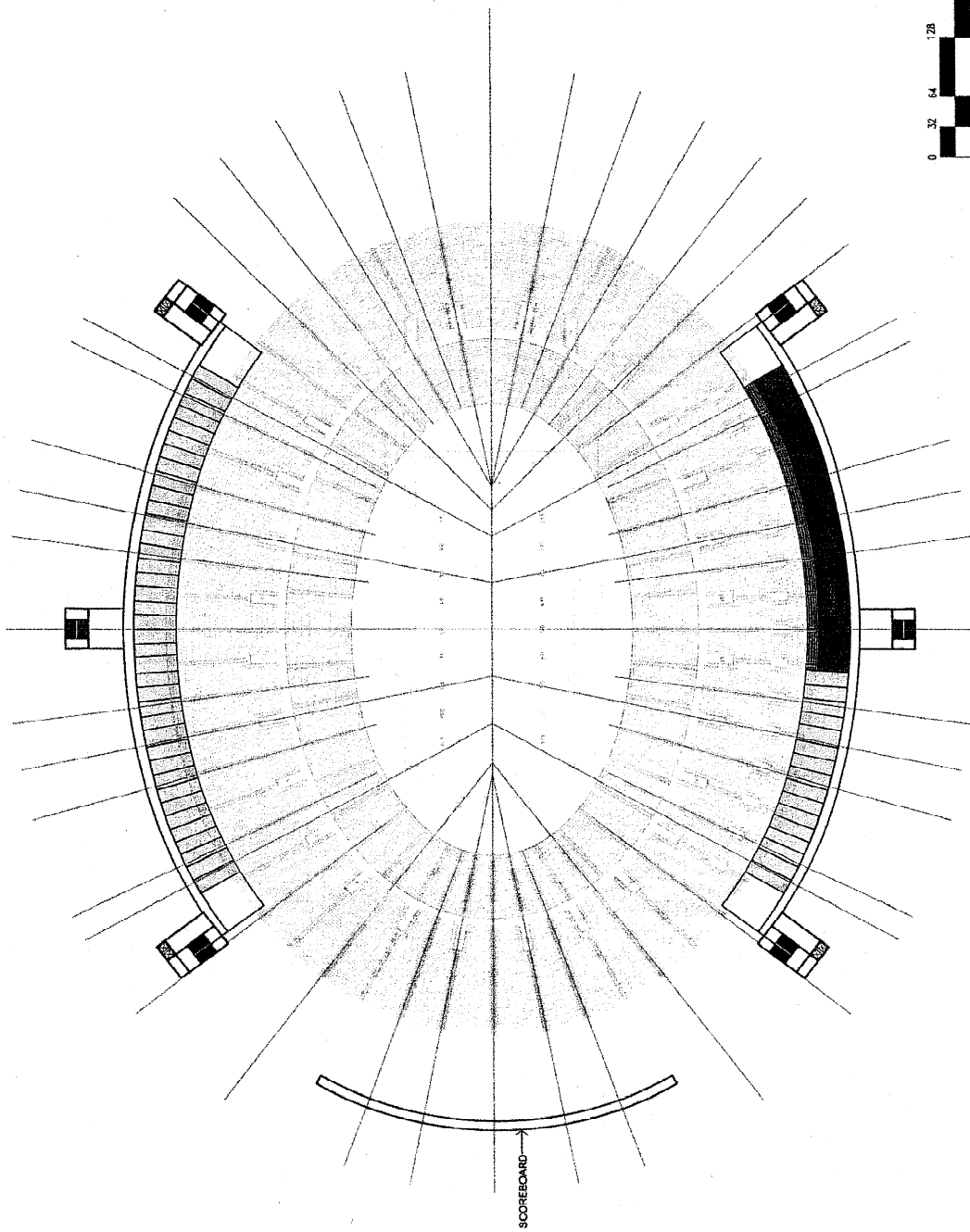
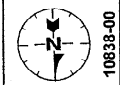


FIGURE 2-11  
Cut-Through Section of Stadium Suite Level 2



**FIGURE 2-12**  
**Cut-Through Section of Stadium Suite/Press Level 3**

Source: HOK, 2004



City of Pasadena

## The Design Mitigation

## DISCUSSION OF DESIGN MITIGATION

In response to public comments and comments made at commission meetings, further modification to the design, now the Design Mitigation, was developed to preserve the majority of the character-defining features on the north side of the Rose Bowl, thereby providing a greater opportunity to retain the stadium's National Historic Landmark designation, while also meeting the objectives of the NFL. This mitigation would preserve views to character-defining features that comprise the exterior of the south and north (approximately 50%) of the Rose Bowl. The new structures along the north and south sides would be physically separated and visually differentiated from the historic structure, and would be a long-term reversible condition.

The Design Mitigation captures modified elements of two alternatives discussed in the Draft EIR, the Proposed Project (Project) and the Alternate Design Alternative. It includes the heavier profile structure for club suites similar to the Proposed Project on the west side, which was already altered by the construction of the Press Box. It includes a slimmer profile for three levels of club suites similar to the Alternate Design Alternative on the east side, which would be built on freestanding supports that minimize direct alteration to the Rose Bowl structure. On the east side, the Arroyo stone landscaped berms and retaining walls would be removed during construction, and would be replaced in a location that would extend further east than their original location to conceal concessions and restrooms. On the north side, the Design Mitigation would feature a removable, temporary seating structure. A permanent concourse would be constructed at the rim/Horizon level of the stadium. The large scoreboard proposed for the north rim of the Stadium would no longer be included in the design. Instead, the historic north scoreboard would remain. New scoreboards that would be smaller than that scoreboard proposed for the north rim, would be divided between the east and west sides adjacent to the luxury suite structures. The elimination of the proposed scoreboard on the north rim would provide more visibility to the mountains north of the stadium. The Design Mitigation includes construction of some new one-story concession and restroom facilities on the ground level along the northern perimeter of the Rose Bowl property. The proposed changes to the south side would be similar to that proposed both for the Proposed Project and the Alternate Design Alternative. All other building elements would be similar to the Proposed Project, and the square footage of the facility components would also be similar to the Proposed Project. The Design Mitigation, similar to the Proposed Project, will reduce the total seating capacity of the stadium to 65,000, with the ability to add up to 10,000 additional seats for special events for a maximum of 75,000 seats. Therefore, the Project will still provide for upgrades to building systems, will add egress opportunities to enhance safety at the stadium, and will increase the distance between seats to provide a more comfortable experience for Rose Bowl Stadium patrons.

## ENVIRONMENTAL IMPACT ANALYSIS OF DESIGN MITIGATION

The EIR found that implementation of the Proposed Project will result in significant and unavoidable impacts in the areas of Aesthetics, Air Quality, Cultural Resources, Land Use, Noise, Recreation, and Transportation/Traffic. The impacts of the Design Mitigation are analyzed below and evaluated as to whether any of the significant and unavoidable impacts of the Proposed Project can be avoided with this Alternative. Further, impacts in these and other issue areas are analyzed to determine whether the Design Mitigation would or would not result in new significant impacts or increase the level of significance of already identified impacts.

### Aesthetics and Visual Quality

Implementation of the Project would have a substantial adverse impact on the visual character of the Rose Bowl from both the interior and the exterior of the stadium. It would demolish or alter contributing elements of the Rose Bowl resulting in alteration of the bowl's shape and character-defining features as seen from the Arroyo. Further, the addition of the new structures on the exterior of the stadium would obstruct views from within the bowl along the north edge to the east side of the stadium where treetops and mountain ridgelines are visible.

The Design Mitigation would reduce the impacts on the visual character of the stadium by providing a design that is more open and less massive than the design of the Proposed Project and which would result in less obstruction of views from the interior of the stadium. The landscaped berm on the north end would be preserved, and the berm on the east side would be removed but then replaced abutting the outside of the new support structure. Thus, the east side would retain more of the original appearance of the stadium with replacement of the berm and landscaping. The new structures would be placed on open supports and would not be directly attached to the rim of the stadium, and the appearance of the new bowl would be less massive than the Proposed Project design. On the north side, the temporary seating may be entirely removed when not needed. When needed, the structural frame would be slipped into subsurface sheaths that are hidden in the berms. The concourse would remain as a permanent structure at the Horizon level. These design changes would help preserve the open character of the Rose Bowl on the north side. In this way, current exterior views to the north side of the Rose Bowl would be relatively unchanged when the temporary seating is not installed, as the concourse would be level with the rim. With the Design Mitigation, there would be no new scoreboard above the north rim of the stadium, although the historic north scoreboard would remain in place. New scoreboards would be placed one on the east and the other on the west sides of the stadium, preserving the view northward. Views to the underside of the stadium at the north side would be unobstructed. The perimeter concession buildings would be low profile, would replace existing concessions, and would not introduce an incompatible design or plan to the Rose Bowl grounds. Thus, the visual character of the stadium would be altered to a lesser extent than the Proposed Project, views of the stadium would be improved, and the stadium viewing experience would be improved through elimination of new scoreboards on the north side, and a more open outer structure. Aesthetic impacts on the north side would be reduced to less than significant with the Design Mitigation. It would lessen the effects of the Project on the east side, but not to a level less than significant. The impacts to Aesthetics on the south side and west side would be the same as the Project.

### Air Quality

Site preparation and construction activities would create temporary air quality impacts that are unavoidable with construction. The increase to 25 major events would increase the number of times the daily air quality operational emission thresholds are exceeded.

The Design Mitigation would not change or worsen the severity of any of the significance conclusions stated in the EIR, as a similar amount of construction would occur and the same traffic air quality impacts as the Proposed Project. Impacts to Air Quality would remain significant and unavoidable and would not be reduced by the Design Mitigation.

### Cultural Resources

Implementation of the Proposed Project would substantially and irrevocably alter character-defining features of the Rose Bowl and change the historic fabric of the stadium. It would also jeopardize the National Historic Landmark status of the stadium.

The Design Mitigation was developed to lessen the extent of demolition and alteration of important character-defining features of the Rose Bowl than the Project. The Design Mitigation is the same as the Project along the west side, which has already been altered by construction of the press box structure. The Design Mitigation would preserve views to character-defining features that comprise the exterior of the south and north sides of the Rose Bowl. On the east side, the Arroyo stone landscaped berm and retaining walls would be removed during construction, but when reconstructed, would extend further east than their original location to conceal concessions and restrooms. The new structure along the east side would be physically separated and visually differentiated from the historic structure. On the north and east side, an additional row of vomitoria would be added for access to the concessions and restrooms.

*West Side:* On the west side, the Project design has little additional impact because the existing press box had already substantially altered the Rose Bowl structure, the Arroyo stone berms and retaining walls, and views toward the west side of the Rose Bowl. Also on the west side, a second row of vomitoria would be introduced. This would affect the overall symmetry of the placement of vomitoria, but it would be in proportion to the vertical scale of the new club suites. The effect on the remaining important character-defining features on the west side would be the same for the Design Mitigation and the Project.

*North Side:* On the north side, the temporary seating and concourse may be entirely removed when not needed, thereby preserving the even rim and open character of the Rose Bowl. When needed, the structural frame would be slipped into subsurface sheaths that are hidden in the berms. In this way, current exterior views to the north side of the Rose Bowl would be essentially unchanged when the temporary seating and concourse is not installed. With the Design Mitigation, there would be no new scoreboard above the north rim of the stadium. The historic north scoreboard would remain in place. Views to the underside of the stadium at the north side would be unobstructed. The perimeter concession buildings would be low profile, would replace existing concessions, and would not introduce an incompatible design or plan to the Rose Bowl grounds. The significant effect on the important character-defining features on the north side that would result from the Project would be mitigated to less than significant for the Design Mitigation.

*East Side:* On the east side, three levels of club suites would be built on freestanding supports that minimize direct alteration of the Rose Bowl structure itself. The club suites would be physically separated from the stadium structure, the separation would be clearly visible to spectators within the stadium and to observers outside the stadium, and would clearly demonstrate that the new construction is not part of the historic structure. An additional row of vomitoria would be constructed to access concealed concessions and restrooms, and this would affect Myron Hunt's original design; but it would be symmetrical with the second row of vomitoria proposed along the west side and not different from the proposed Project. This would be a significant effect, but it may be acceptable if it is designed and executed properly. The Administration Building would be demolished, but this effect would also be the same as the proposed Project. The landscaped Arroyo Stone berms and retaining walls would have to be removed during construction. They would be photographed, labeled, and stored so that they can be replaced in a similar configuration to conceal the concessions and restrooms. The berms and retaining walls would not be restored to their original location and design because they would extend further east than their original configuration. Relocation of the berms and retaining walls would also displace the tunnel portals from their original location. While the removal and replacement of historic materials for repair or adaptive reuse may meet the Secretary of the Interior's Standards, the redesign of these elements in a substantially different location and configuration would not meet the Standards. The replacement design could be consistent with Myron Hunt's original design and intent, but it would be a reinterpretation with original materials, not a restoration. It is unlikely the National Park Service would approve the extensive redesign of the Arroyo Stone berms and retaining walls. However, the reuse of the original materials and attempt to be consistent with Hunt's original design and intent would have far less effect on the overall historic character of the east side of the Rose Bowl than the Project would have. The effect on the important character-defining features on the east side that would result from the Project would be mitigated by the Design Mitigation, but not to a level of less than significant.

*Perimeter:* Along the perimeter of the Rose Bowl property, the Design Mitigation includes construction of new one-story concession and restroom facilities on the ground level. These would replace the existing units, and form a more organized, symmetrical grouping. The outside of the concession buildings would include a landscaped berm and retaining wall, to increase their compatibility with the natural features in the Arroyo, and to retain the visual predominance of the Rose Bowl. The replacement of perimeter concession buildings would not have a

significant effect on the important character-defining features of the Rose Bowl.

Based on this analysis, if the Design Mitigation were constructed, it would lessen the effects of the Project on the north side to less than significant. It would lessen the effects of Project on the east side, but not to a level less than significant. The effects on the south side and west side would be the same as the Project. There would not be a significant effect on perimeter. Because of the extensive changes at the west and east sides, however, the Rose Bowl would be unlikely to retain its National Historic Landmark status. This finding, how can only be made by the National Park Service.

The Design Mitigation would reduce impacts to some character-defining features of the stadium as outlined in the table below.

<b>SUMMARY OF EFFECTS ON CHARACTER-DEFINING FEATURES OF THE ROSE BOWL</b>		
<b>CHARACTER-DEFINING FEATURE</b>	<b>PROPOSED Project</b>	<b>DESIGN MITIGATION</b>
Neon Rose Bowl Sign	No Change	No Change
South Forecourt	Acceptable Alteration	Acceptable Alteration
Bridges into Bowl	No Change	No Change
Forecourt concrete bridges and retaining walls	No Change	No Change
Bowl reconstruction; elliptical plan and section – south end	Acceptable Alteration	Acceptable Alteration
South-End enlargement	Acceptable Alteration	Acceptable Alteration
Tunnels 15-22 – West Side	Visual Obstruction	Visual Obstruction
Dressing Room in Tunnel 15A	Acceptable Alteration	Acceptable Alteration
Arroyo stone berm retaining wall – West Side	Demolition	Demolition
Bowl reconstruction, elliptical curvature in plan and section – West Side	Substantial Alteration	Substantial Alteration
Tunnel 23 – West Side	Visual Obstruction	Visual Obstruction
Tunnels 8-14 – North End	Visual Obstruction	No Change
Arroyo stone berm retaining walls and landscaping – North End	Demolition	Acceptable Alteration
View of San Gabriel Mountains over the North Rim	Visual Obstruction	No Change
Scoreboard at North End with tile roof	Demolition	No Change
View to underside of Bowl – North End	Visual Obstruction	Acceptable Alteration
Bowl reconstruction elliptical curvature in plan and section – North End	Visual Obstruction	Acceptable Alteration
North End of Bowl seating enlargement	Substantial Alteration	Acceptable Alteration
Dressing Rooms in Tunnel 7A	Acceptable Alteration	Acceptable Alteration
Arroyo stone berm retaining walls and landscaping; retaining wall added on sloping sides; roses planter on berms – East Side	Demolition	Demolition
Bowl reconstruction, elliptical in plan and section – East Side	Substantial Alteration	Substantial Alteration
Tunnels 1-7 – East Side	Visual Obstruction	Visual Obstruction
Tunnels 28 – East Side	Visual Obstruction	Visual Obstruction
Administration Building	Demolition	Demolition
Woven wire fence and gate at perimeter	Demolition	Demolition
Ticket Booths	Demolition	Demolition
Toilet in parking lot	Demolition	Demolition
South Scoreboard – Interior	No Change	No Change
North Scoreboard – Interior	Demolition	No Change
Seating and Vomitoria configuration – Interior	Potential Substantial Alteration	Potential Substantial Alteration but less
Bowl reconstruction; elliptical in plan and section – Interior	Substantial Alteration	Substantial Alteration but less
Field, original configuration – interior	Acceptable Alteration	Acceptable Alteration
South End enlargement – Interior	Acceptable Alteration	Acceptable Alteration

**Key to summary terms:**

**Demolition:** Physically demolishes or destroys “in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for inclusion in, the California Register of Historical Resources (character-defining features of the Rose Bowl).”

**Substantial Alteration:** Materially alters in an adverse manner the character defining features of the Rose Bowl.

**Visual Obstruction:** Changes the immediate surroundings of the character-defining features of the Rose Bowl such that important views are obstructed.

**Acceptable Alteration:** Alterations to Character-defining features of the Rose Bowl are minor or follow the Secretary's Standards.

**No Change:** No change from the existing condition of the character-defining features of the Rose Bowl

**Geology and Soils**

No significant and unavoidable impacts were identified in the EIR for the Proposed Project with respect to Geology and Soils. The Design Mitigation would require a similar amount excavation, and would not change or worsen the severity of any of the significance conclusions stated in the EIR, which would remain less than significant.

#### Hazards and Hazardous Materials

No significant and unavoidable impacts were identified in the EIR for the Proposed Project with respect to Hazards and Hazardous Materials. The Design Mitigation would not change the circumstances with respect to construction or operation of the Project, and would, therefore, not change or worsen the severity of any of the significance conclusions stated in the EIR, which would remain less than significant.

#### Hydrology and Water Quality

No significant and unavoidable impacts were identified in the EIR for the Proposed Project with respect to Hydrology and Water Quality. The Design Mitigation would not change the circumstances with respect to construction or operation of the Project, and would, therefore, not change or worsen the severity of any of the significance conclusions stated in the EIR, which would remain less than significant.

#### Land Use

During events, the Project would adversely affect adjacent neighborhoods on more days due to the increased number of major events. Reduced seating in the Bowl and improved parking/transit options could partially offset some of these impacts. The additional building area in the Arroyo and increase in the frequency of use of the stadium would increase the intensity of development in the immediate area.

The Design Mitigation would not result in changes in intensity of development through the additional building area or frequency of use of the stadium. The Design Mitigation would not change or worsen the severity of any of the significance conclusions stated in the EIR, which would remain significant and unavoidable with respect to land use intensification or adverse effects on adjacent neighborhoods.

#### Noise

Adjacent residential neighborhoods will be exposed to temporary or periodic increases in ambient noise levels more frequently as a result of additional events. The increased number of events will also create increases in local traffic volumes and cause a periodic increase in off-site roadway noise levels on more days. However, actual ambient noise levels may be reduced depending on stadium capacity and parking availability, which will result in fewer vehicles.

It is not anticipated that the Design Mitigation would significantly change the acoustics of the stadium. Increased noise from stadium events and increased traffic would still occur at similar levels as identified for the Proposed Project. Therefore, the Design Mitigation would not change or worsen the severity of any of the significance conclusions stated in the EIR.

#### Recreation

With more events, the Project would interfere with or prohibit use of existing recreational facilities in the Central Arroyo on more days. Master scheduling and coordination of events will help mitigate these impacts. Brookside Park would be retained for casual park and picnic use, even during events and some parking in Area I would be used for Kidspace and RBAC users. However, soccer fields would not be available in Area H.

The Design Mitigation would not change or worsen the severity of any of the significance conclusions stated in the EIR, and impacts to recreation due to restricted access to recreational amenities in the Arroyo would remain significant and unavoidable. The Design Mitigation would not reduce the level of significance of this impact.

#### Transportation/Traffic

Although the total seating capacity would drop by 17,500 for the Proposed Project (92,500 to 75,000), the EIR used a conservative methodology that evaluated a potential increase in attendees. The current baseline was set at the typical attendance of current events, 52,000, rather than the actual stadium capacity of 92,000. This current baseline was then compared to the most intense proposed use of 75,000, resulting in analysis of a net increase of 23,000 per event. In addition, 13 new events were analyzed as a change from 0 to 75,000 attendees. The EIR found that the increased number of events would result in adverse impacts on traffic and circulation during weekday and weekend activities. Off-site parking at the Parsons complex during weekday evenings would result in significant impacts on traffic and circulation at intersections in the vicinity (anticipated to be approximately two per year).

The Design Mitigation would not change or worsen the severity of any of the significance conclusions stated in the EIR. Maximum seating capacity would remain at 75,000, and the number of events would remain the same. Therefore, impacts to traffic due to restricted access to recreational amenities in the Arroyo would remain significant and unavoidable. The Design Mitigation would not reduce the level of significance of this impact.

**Design Mitigation  
Breakdown of Project by Level**

Field/Service Level

This level contains the playing field and, at the north end of the stadium, a new loading dock, stadium operations, administration, football team facilities (locker rooms, training facilities, and related spaces), and food service operations. A team store and/or Hall of Fame, field level media space, and other spaces may be located within existing space at the south end of the stadium.

Stadium Plaza/Plaza Concourse Level/Level One Club

This level would be at grade and would replace the existing exterior concourse, toilets, and concession stands. Ticketed entrances would be located at the perimeter. Typical amenities found at this level would include toilets, concessions, novelty stands, first-aid stations, team retail store, sponsor displays, ATMs, public phones, drinking fountains, and similar conveniences. Club lounge and support areas (i.e. kitchens, pantries, storage) may be located on the west side of the stadium within the new Club structure.

Mid Concourse/Level Two Club

This level would be located approximately 20 feet above grade on the east and west sides of the stadium and would include amenities similar to the Plaza Concourse Level. New vomitories (tunnels) would provide access to the seating bowl also on the east and west sides. Club lounge and amenities would be provided along the west side of the stadium within the new Club structure, as well as some stadium administration areas.

Horizon/Level Three Club

The Horizon Level would be located at the top of the seating bowl on the north and east sides and provide a platform for temporary expansion seating and general spectator circulation. The new scoreboard and video system would be located on this level to the east and west of the north end zone. The Level Three Club would be located on the west side of the stadium in the Club structure.

Suite Levels 1, 2, and 3

These structures would be located directly above the Horizon Level and Level Three Club along the east and west sides of the stadium, respectively. The first two levels would be comprised of suites and associated circulation and support areas. Approximately one-half of Suite Level 3 on the west sideline would be dedicated to the press box. Approximately 3,000 seats would be distributed in approximately 200 suites.





## **MEMORANDUM**

*To:* Richard Bruckner, Director of Planning and Development, City of Pasadena

*Date:* May 6, 2005, revised June 2, 2005

*RE:* Recommended Project for the Rose Bowl EIR

*Prepared by:* Richard Starzak, Senior Architectural Historian

### **RECOMMENDED PROJECT**

In response to public comments and comments made at commission meetings, further modification to the NFL Proposed Project was developed to preserve the majority of the character defining features on the north side and be more visually compatible on the east side, of the Rose Bowl, thereby providing a greater opportunity to retain the stadium's National Historic Landmark designation, while also meeting the objectives of the NFL. This Recommended Project design would preserve views to character defining features that comprise the exterior of the south and north (approximately 50%) of the Rose Bowl. The new structures along the north and south sides would be physically separated and visually differentiated from the historic structure, and would be a long-term reversible condition.

The Recommended Project captures modified elements of two alternatives discussed in the Draft EIR, the NFL Proposed Project and the Alternative Design Project. It includes the heavier profile structure for club suites similar to the NFL Proposed Project on the west side, which was already altered by the construction of the Press Box. It includes a slimmer profile for three levels of club suites similar to the Alternative Design Project on the east side, which would be built on free-standing supports that minimize direct alteration to the Rose Bowl structure. On the east side, the Arroyo stone landscaped berms and retaining walls would be removed during construction, but would be replaced in a location further east than their original location to conceal concessions and restrooms. (The berm was removed and not replaced in the original design analyzed in the EIR.) On the north side, the Recommended Project would generally preserve the character defining features at the north end of the stadium. The berm would be preserved in its current location on the north side. The Recommended Project would eliminate the proposed large new scoreboard and instead preserve the smaller historic scoreboard. A removable, temporary concourse and temporary seating structure could also be placed above the rim of the Bowl on the north side to expand seating from 65,000 to 75,000 patrons, as originally proposed. However, that removable structure would not typically be in place. To replace the area of the scoreboard that has been removed by the Recommended Project, two new scoreboards, that would be smaller than that in the NFL Proposed Project, would be placed on the east and west sides adjacent to the suite structures to provide more visibility to the mountains north of the stadium. The Recommended Project includes construction of some new one-story concession and restroom facilities on the ground level along the northern perimeter of the Rose Bowl property. The proposed changes to the south side would be similar to that proposed both for the NFL Proposed Project and the Alternative Design Project. No new below grade concourse would be constructed as proposed by the Alternative Design Project. Additionally, the stadium structure would continue to be supported by earth, not structure. All other building elements would be similar to the NFL Proposed Project and the square footage of the facility components would also be similar to the NFL Proposed Project. Therefore, the Recommended Project will still improve accessibility for disabled persons, will provide for upgrades to building systems and will add egress opportunities that will enhance the safety at the stadium. Similarly, with the reduction of seating capacity, patrons will be provided with additional room in the seating areas for a more comfortable experience.

**Historic Analysis.** The Recommended Project was developed to lessen the extent of demolition and alteration of important character defining features of the Rose Bowl. The Recommended Project is the same as the NFL Proposed Project along the west side, which has already been altered by construction of the press box structure. The Recommended Project would preserve views to character defining features that comprise the exterior of the south and north sides of the Rose Bowl. On the east side, the Arroyo stone landscaped berm and retaining walls would be removed during construction, and when reconstructed, would extend further east than their original location to conceal concessions and restrooms. The new structure along the east side would be physically separated and visually differentiated from the historic structure. On the north and east side, an additional row of vomitoria would be added for access to the concessions and restrooms.

**West Side:** On the west side, the NFL Proposed Project design has little additional impact because the existing press box had already substantially altered the Rose Bowl structure, the Arroyo stone berms and retaining walls, and views toward the west side of the Rose Bowl. Also on the west side, a second row of vomitoria would be introduced. This would affect the overall symmetry of the placement of vomitoria, but it would be in proportion to the vertical scale of the new club suites. ***The effect on the remaining important character defining features on the west side would be the same for the Recommended Project and the NFL Proposed Project.***

**North Side:** On the north side, the temporary seating and concourse may be entirely removed when not needed, thereby preserving the even rim and open character of the Rose Bowl. When needed, the structural frame would be slipped into subsurface sheaths that are hidden in the berms. In this way, current exterior views to the north side of the Rose Bowl would be essentially unchanged when the temporary seating and concourse is not installed. With the Recommended Project, there would be no new scoreboard above the north rim of the stadium. The historic north scoreboard would remain in place. Views to the underside of the stadium at the north side would be unobstructed. The perimeter concession buildings would be low profile, would replace existing concessions, and would not introduce an incompatible design or plan to the Rose Bowl grounds. ***The significant effect on the important character defining features on the north side that would result from the NFL Proposed Project would be mitigated to less than significant for the Recommended Project.***

**East Side:** On the east side, three levels of club suites would be built on free-standing supports that minimize direct alteration of the Rose Bowl structure itself. The club suites would be physically separated from the stadium structure, the separation would be clearly visible to spectators within the stadium and to observers outside the stadium, and would clearly demonstrate that the new construction is not part of the historic structure. An additional row of vomitoria would be constructed to access concealed concessions and restrooms, and this would affect Myron Hunt's original design; but it would be symmetrical with the second row of vomitoria proposed along the west side. This would be a significant effect, but it may be acceptable if it is designed and executed properly. The Administration Building would be demolished, but this effect would be the same as the NFL Proposed Project. The landscaped Arroyo Stone berms and retaining walls would have to be removed during construction. They would be photographed, labeled, and stored so that they can be replaced in a similar configuration to conceal the concessions and restrooms. The berms and retaining walls would not be restored to their original location and design because they would extend further east than their original configuration. Relocation of the berms and retaining walls would also displace the tunnel portals from their original location. While the removal and replacement of historic materials for repair or adaptive reuse may meet the Secretary of the Interior's Standards, the redesign of these elements in a substantially different location and configuration would not meet the Standards. The replacement design could be consistent with Myron Hunt's original design and intent, but it would be a reinterpretation with original materials, not a restoration. It is unlikely the National Park Service would approve the extensive redesign of the Arroyo Stone berms and retaining walls. However, the reuse of the original materials and attempt to be consistent with Hunt's original design and intent would have a far less impact on the overall historic character of the east side of the Rose Bowl than the NFL Proposed Project would have. ***The effect on the important character defining features on the east side that would result from the NFL Proposed Project would be mitigated, but not to a level of less than significant for the Recommended Project.***

**Perimeter:** Along the perimeter of the Rose Bowl property, the Recommended Project includes construction of new one-story concession and restroom facilities on the ground level. These would replace the existing units, and form a more organized, symmetrical grouping. The outside of the concession buildings would include a landscaped berm and retaining wall, to increase their compatibility with the natural features in the Arroyo, and to retain the visual predominance of the Rose Bowl. ***The replacement of perimeter concession buildings would not have a significant effect on the important character defining features of the Rose Bowl.***

**Conclusion:** Based on this analysis, if the Recommended Project were constructed, it would lessen the effects of the NFL Proposed Project on the north side to less than significant. It would lessen the effects of the NFL Proposed Project on the east side, but not to a level less than significant because the alterations do not meet the Secretary's Standards. The effects on the south side and west side would be the same as the NFL Proposed Project. There would not be a significant effect on the perimeter. The Recommended Project would have a better chance for the Rose Bowl to retain its National Historic Landmark (NHL) status than the NFL Proposed Project. The finding of NHL status can only be made by the National Park Service.

The potential effects that the NFL Proposed Project and the Recommended Project would have on the Rose Bowl's character defining features are summarized in table on the next two pages.

<b>SUMMARY OF EFFECTS ON CHARACTER DEFINING FEATURES OF THE ROSE BOWL</b>		
<b><i>CHARACTER DEFINING FEATURE</i></b>	<b><i>NFL PROPOSED PROJECT</i></b>	<b><i>RECOMMENDED PROJECT</i></b>
Neon Rose Bowl Sign	No Change	No Change
South Forecourt	Acceptable Alteration	Acceptable Alteration
Bridges into Bowl	No Change	No Change
Forecourt concrete bridges and retaining walls	No Change	No Change
Bowl reconstruction; elliptical plan and section – south end	Acceptable Alteration	Acceptable Alteration
South-End enlargement	Acceptable Alteration	Acceptable Alteration
Tunnels 15-22 – West Side	Visual Obstruction	Visual Obstruction
Dressing Room in Tunnel 15A	Acceptable Alteration	Acceptable Alteration
Arroyo stone berm retaining wall – West Side	Demolition	Demolition
Bowl reconstruction, elliptical curvature in plan and section – West Side	Substantial Alteration	Substantial Alteration
Tunnel 23 – West Side	Visual Obstruction	Visual Obstruction
Tunnels 8-14 – North End	Visual Obstruction	No Change
Arroyo stone berm retaining walls and landscaping – North End	Demolition	Acceptable Alteration
View of San Gabriel Mountains over the North Rim	Visual Obstruction	No Change
Scoreboard at North End with tile roof	Demolition	No Change
View to underside of Bowl – North End	Visual Obstruction	Acceptable Alteration
Bowl reconstruction elliptical curvature in plan and section – North End	Visual Obstruction	Acceptable Alteration
North End of Bowl seating enlargement	Substantial Alteration	Acceptable Alteration
Dressing Rooms in Tunnel 7A	Acceptable Alteration	Acceptable Alteration
Arroyo stone berm retaining walls and landscaping; retaining wall added on sloping sides; roses planter on berms – East Side	Demolition	Demolition

<b>SUMMARY OF EFFECTS ON CHARACTER DEFINING FEATURES OF THE ROSE BOWL</b>		
<b><i>CHARACTER DEFINING FEATURE</i></b>	<b><i>NFL PROPOSED PROJECT</i></b>	<b><i>RECOMMENDED PROJECT</i></b>
Bowl reconstruction, elliptical in plan and section – East Side	Substantial Alteration	Substantial Alteration
Tunnels 1-7 – East Side	Visual Obstruction	Visual Obstruction
Tunnels 28 – East Side	Visual Obstruction	Visual Obstruction
Administration Building	Demolition	Demolition
Woven wire fence and gate at perimeter	Demolition	Demolition
Ticket Booths	Demolition	Demolition
Toilet in parking lot	Demolition	Demolition
South Scoreboard – Interior	No Change	No Change
North Scoreboard – Interior	Demolition	No Change
Seating and Vomitoria configuration – Interior	Potential Substantial Alteration	Potential Substantial Alteration but less
Bowl reconstruction; elliptical in plan and section – Interior	Substantial Alteration	Substantial Alteration but less
Field, original configuration – interior	Acceptable Alteration	Acceptable Alteration
South End enlargement – Interior	Acceptable Alteration	Acceptable Alteration

*Key to summary terms:*

**Demolition:** Physically demolishes or destroys “in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for inclusion in, the California Register of Historical Resources (character-defining features of the Rose Bowl).

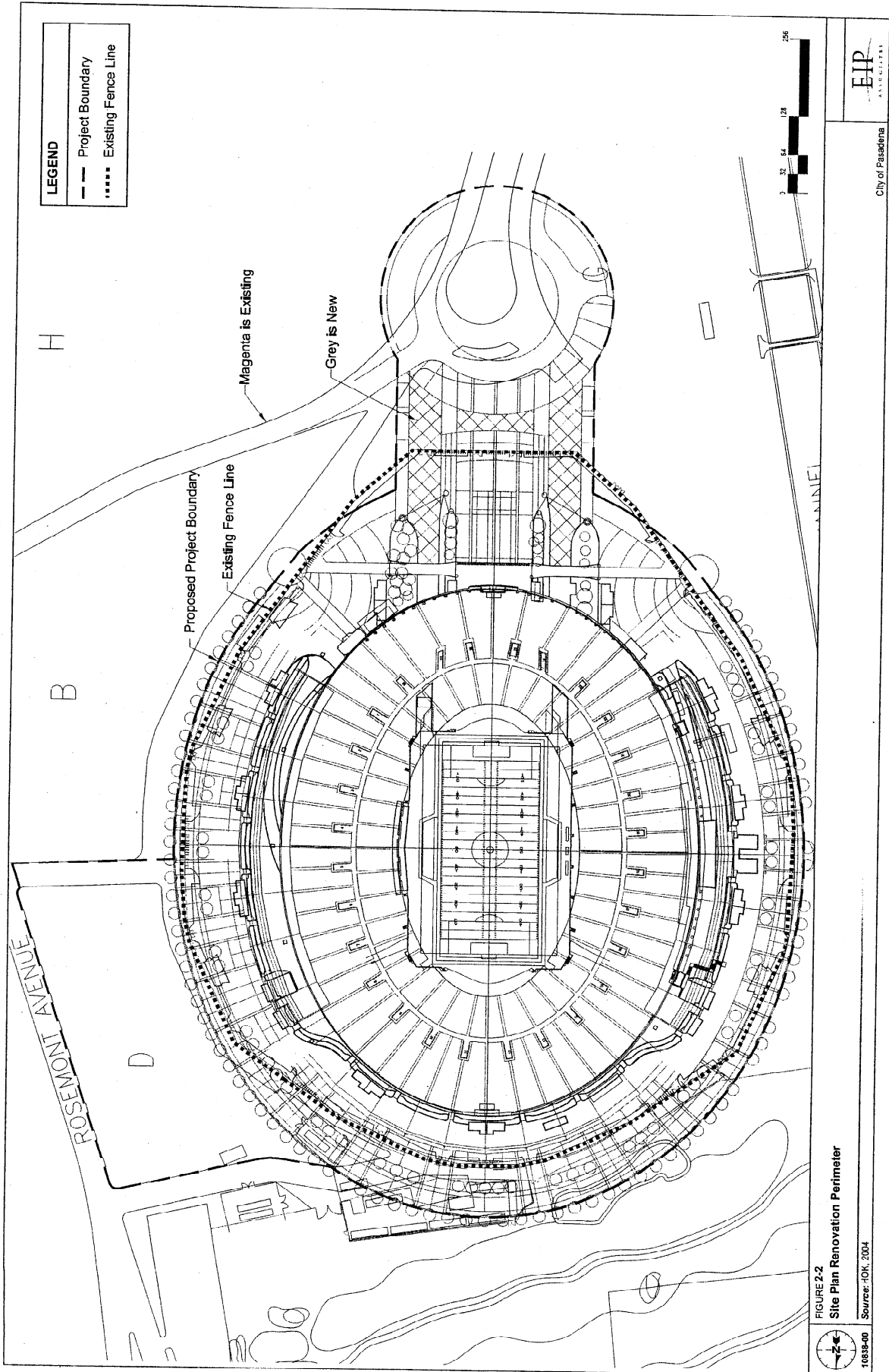
**Substantial Alteration:** Materially alters in an adverse manner the character-defining features of the Rose Bowl.

**Visual Obstruction:** Changes the immediate surroundings of the character-defining features of the Rose Bowl such that important views are obstructed.

**Acceptable Alteration:** Alterations to Character-defining features of the Rose Bowl are minor or follow the Secretary’s Standards.

**No Change:** No change from the existing condition of the character-defining features of the Rose Bowl

## Site Plan Renovation Perimeter



**LEGEND**

---	Project Boundary
.....	Existing Fence Line

FIGURE 2-2  
Site Plan Renovation Perimeter

Source: iDK, 2004

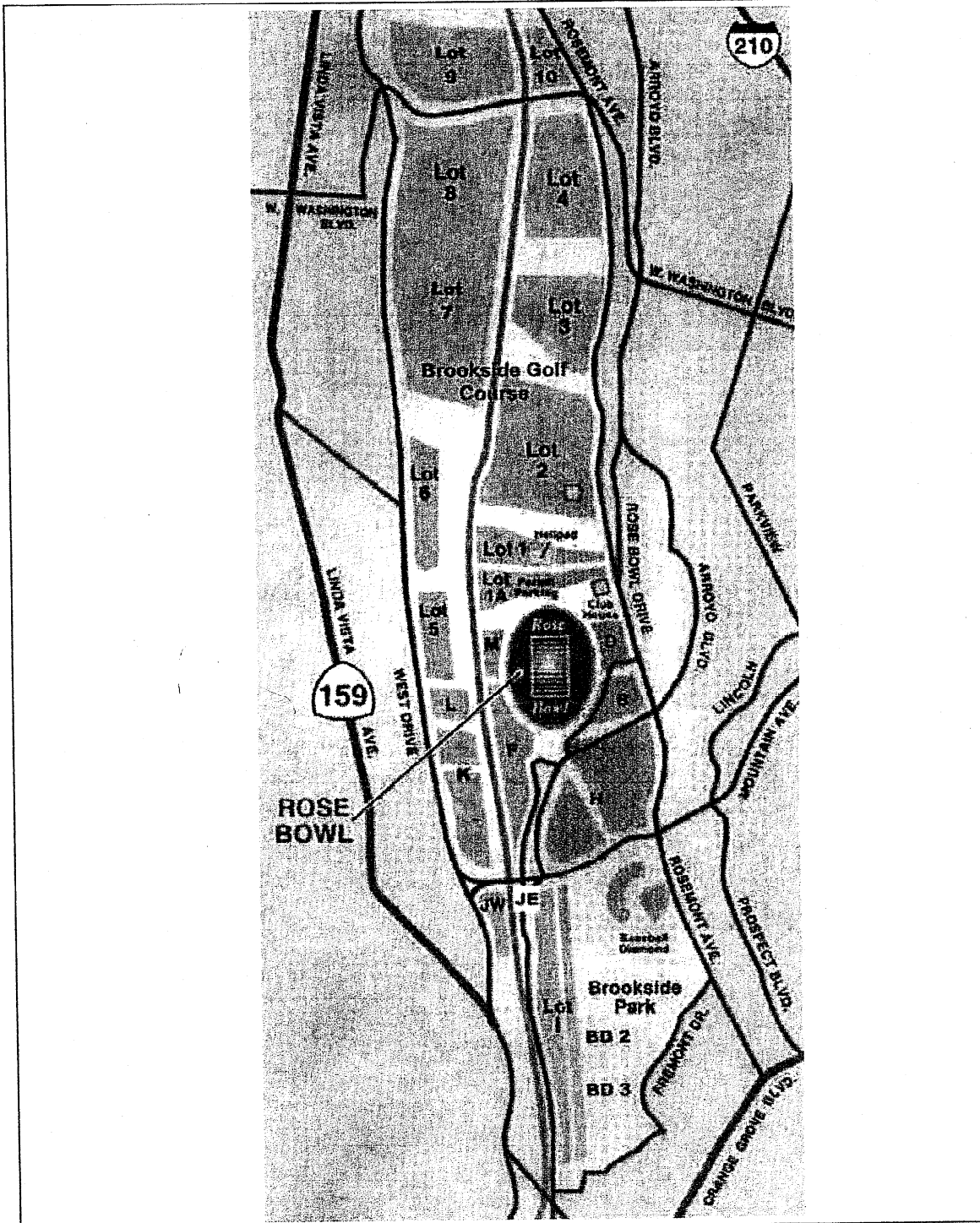



10835-00

City of Pasadena



Existing Parking Lots in the Rose Bowl Area  
2004




**FIGURE 3.12-2**  
**Existing Parking Lots in the Rose Bowl Area**  
 Sources: RBOC; Linscott Law & Greenspan Engineers, 2004

Not to Scale



City of Pasadena



Environmental Mitigation Monitoring  
and Report Program for  
the Rose Bowl Renovation Project

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## **CHAPTER 10 Environmental Mitigation Monitoring and Reporting Program for the Rose Bowl Renovation Project**

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### **10.1 AUTHORITY**

This Environmental Mitigation Monitoring and Reporting Program has been prepared pursuant to Section 21081.6 of the California Environmental Quality Act, known as CEQA (Public Resources Code Section 21000 *et seq.*), to provide for the monitoring of mitigation measures required of the Rose Bowl Renovation Project, as set forth in the Final Environmental Impact Report (Final EIR) prepared for the project. This report will be kept on file in the offices of the City of Pasadena Planning and Development Department, 175 North Garfield Avenue, Pasadena, CA 91101.

### **10.2 MONITORING SCHEDULE**

Prior to the issuance of building permits, while detailed development plans are being prepared for approval by City staff, City staff will be responsible for ensuring compliance with mitigation monitoring applicable to the project design phase. City staff will prepare or cause to be prepared reports identifying compliance with mitigation measures. Once construction has begun and is underway, monitoring of the mitigation measures associated with construction will be included in the responsibilities of designated City staff, who shall prepare or cause to be prepared reports of such monitoring no less than once a month until construction has been completed. Once construction has been completed, the City will monitor the project as appropriate and provided in the monitoring plan.

### **10.3 FORMAT OF MITIGATION MONITORING MATRIX**

The mitigation monitoring matrix on the following pages is formatted to parallel the format of the Executive Summary table contained in the Final EIR. The matrix identifies the environmental issue areas for which monitoring is required, the required mitigation measures, the time frame for monitoring, and the responsible monitoring agencies.

If any mitigation measures are not being implemented, the City may pursue corrective action. Penalties that may be applied include, but are not limited to, the following: (1) a written notification and request for compliance; (2) withholding of permits; (3) administrative fines; (4) a stop-work order; (5) criminal prosecution and/or administrative fines; (6) forfeiture of security bonds or other guarantees; (7) revocation of permits or other entitlements.

**Table 10-1 Mitigation Monitoring and Reporting Program Matrix**

Impact	Mitigation Measures	Time Frame/ Monitoring Milestone	Responsible Monitoring Party
<p><b>Aesthetics</b></p> <p><b>Impact 3.1-1</b> The proposed project could result in a substantial adverse effect on a scenic vista.</p>	<p><b>MM 3.1-3</b> Consistent with the implementation methods MM3.3-2a (see Section 3.3 Biology) and the provisions of the Tree Protection Ordinance, the City of Pasadena shall also require that any Replacement Tree Canopy Coverage (for removed or damaged trees) be concentrated on the east side of the stadium. Also replacement plantings (24 in. box minimum) of one tree for every one lost or removed shall be installed along the edges of existing hardscape parking lots within the Arroyo. In addition vines shall be planted to grow to be permanently secured to vertical building wall surfaces on the east side of the stadium. At retaining walls, vines and shrubs shall be installed and spaced so as to completely cover walls when mature. All plantings shall be implemented in accordance with a City approved landscape plan. Planting off site within the Arroyo shall be done under the direction of the City.</p> <p><b>MM 3.1-3 (a)</b> The project operator shall prepare a landscape plan for improvements to the perimeter areas of Parking Lots B, D, F, I, K, J-East, J-West, and M for City approval prior to the issuance of grading permits. The landscape improvements shall include the planting of trees (minimum of 24 in. box, planted 30 feet on center or equivalent as determined by the City) with complementary ground cover and supporting irrigation system. The improvements shall be completed prior to issuance of occupancy permits to the tenant.</p> <p><b>MM 3.1-3 (b)</b> The project operator shall prepare a hardscape plan for improvements to Parking Lots J-East and J-West for City approval prior to the issuance of grading permits. The improvements shall include the installation of a hard drivable surface that remains permeable (such as turf block) and developed to industry standards. The improvements shall be completed prior to issuance of occupancy permits.</p> <p>MM 3.4-4 also applies to this impact.</p>	<p>Prior to issuance of Occupancy Permit</p>	<p>Planning and Development Department  Public Works Department</p>
<p><b>Impact 3.1-2</b> The proposed project could substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a scenic highway.</p>	<p><b>MM 3.1-1</b> The City of Pasadena shall require construction contractors to strictly control the staging of construction equipment and the cleanliness of construction equipment stored or driven beyond the limits of the construction work area as a means of minimizing temporal degradation of the visual character of surrounding areas and the associated impact to aesthetics. Prior to completion of final plans and specifications, the City of Pasadena shall review the plans and specifications to ensure that all construction vehicles and equipment shall be parked in designated staging areas when not in use. Vehicles shall be kept clean and free of mud and dust before leaving the project site. Completion of this measure shall be monitored and enforced by the City of Pasadena.</p> <p><b>MM 3.1-2</b> The City of Pasadena shall require construction contractors to provide</p>	<p>At plan review, weekly during construction</p>	<p>Planning and Development Department</p>

**Table 10-1 Mitigation Monitoring and Reporting Program Matrix**

Impact	Mitigation Measures	Time Frame/ Monitoring Milestone	Responsible Monitoring Party
<p><b>Impact 3.1-3</b> The proposed project could result in new sources of increased light and glare from new lighting systems.</p>	<p>temporary screening from the present public view site, around construction work areas, for all improvements that require grading during construction and enhancement, as a means of minimizing the temporal effects to the visual character of the surrounding area and the associated impacts to aesthetics. MM 3.1-3, MM 3.3-1, and MM 3.3-2 would also apply.</p>		
<p><b>Impact 3.1-3</b> The proposed project could result in new sources of increased light and glare from new lighting systems.</p>	<p><b>MM 3.1-4</b> Security lighting for the project shall be designed to minimize light migration in accordance with this measure. The City of Pasadena shall specify the lighting type and placement on the project site to ensure that the effects of security lighting are limited as a means of minimizing night lighting and the associated impacts to aesthetics. Prior to completion of final plans and specifications, the City of Pasadena shall review the plans and specifications to ensure that all light fixtures will use glare-control visors, arc tube suppression caps, and will use a photometric design that maintains 70 percent of the light intensity in the lower half of the light beam. <b>MM 3.1-5</b> Prior to opening the stadium, the Applicant shall test the installed field-lighting system to ensure that lighting meets operating requirements in the stadium and minimizes obtrusive spill lighting in the stadium facility. Testing would include light-meter measurements at selected locations in the vicinity to measure spill lighting from field-lighting fixtures, permit adjustment of lighting fixtures, and confirm that spill-lighting effects would not exceed 3 foot-candles 1,000 feet from the project perimeter and no more than 1 foot-candle 3,000 feet from the project perimeter. <b>MM 3.1-6</b> Stadium lighting and advertising (including signage) shall be oriented in such a manner to reduce that amount of light shed onto sensitive receptors and incorporate "cur-off" shields as appropriate to minimize any increase in lighting at adjacent properties. <b>MM 3.1-7</b> All interior floodlights, exterior parking lot, and other security lighting shall be directed away from sensitive receptors and towards the specific location intended for illumination. State-of-the-art fixtures shall be used, and all lighting shall be shielded to minimize the production of glare and light spill onto both existing and proposed residential units on the adjacent hillsides. A lighting design plan shall be submitted to the City for approval at plan check. <b>MM 3.1-8</b> Landscape illumination and exterior sign lighting shall follow the City's Municipal Code guidelines and be accomplished with low-level unobtrusive fixtures. <b>MM 3.1-9</b> All facilities shall emphasize the natural setting and use of natural materials. Building color shall be warm and earth-toned. Non-reflective materials shall be used on the exterior surfaces. Where appropriate, arroyo stone shall be</p>	<p>At design review and plan check (MM 3.1-4, 3.1-6, 3.1-7, 3.1-8, 3.1-9); prior to issuance of occupancy permit (MM 3.1-5)</p>	<p>Planning and Development Department</p>

**Table 10-1 Mitigation Monitoring and Reporting Program Matrix**

Impact	Mitigation Measures	Time Frame/ Monitoring Milestone	Responsible Monitoring Party
<p><b>Impact 3.1-4</b> The proposed project could result in new sources of increased light and glare from the new scoreboard and advertising systems.</p>	<p>Incorporated into the design. MM 3.1-6 would apply.</p>	<p>At design review and plan check</p>	<p>Planning and Development Department</p>
<p><b>Impact 3.1-5</b> Implementation of the proposed project would substantially adversely impact the visual character or quality of the existing architectural features of the Rose Bowl stadium.</p>	<p>MM 3.1-9 would apply. MM 3.4-4 also applies to this impact. No other feasible mitigation is available to reduce this impact to less than significant.</p>	<p>At design review and plan check</p>	<p>Planning and Development Department</p>
<p><b>Air Quality</b></p>			
<p><b>Impact 3.2-5</b> Site preparation and construction activities would contribute to an existing air quality violation (NOx and PM<sub>10</sub> only).</p>	<p><b>MM 3.2-1</b> The project builder(s) shall develop and implement a construction management plan, as approved by the City of Pasadena, which includes the following measures recommended by the SCAQMD, or equivalently effective measures approved by the City of Pasadena:</p> <ul style="list-style-type: none"> <li>■ Configure construction parking to minimize traffic interference</li> <li>■ Provide temporary traffic controls during all phases of construction activities to maintain traffic flow (e.g., flag person)</li> <li>■ Schedule construction activities that affect traffic flow on the arterial system to off-peak hours to the degree practicable</li> <li>■ Consolidate truck deliveries when possible</li> <li>■ Maintain equipment and vehicle engines in good condition and in proper tune as per manufacturers' specifications and per SCAQMD rules, to minimize exhaust emissions</li> <li>■ Use methanol- or natural gas-powered mobile equipment and pile drivers instead of diesel to the extent commercially practical</li> <li>■ Use propane- or butane-powered on-site mobile equipment instead of gasoline to the extent commercially practical</li> </ul> <p><b>MM 3.2-2</b> The project builder(s) shall implement all rules and regulations by the Governing Board of the SCAQMD that are applicable to the development of the Project (such as Rule 402—Nuisance and Rule 403—Fugitive Dust) and that are in effect at the time of development. The following measures are currently recommended to implement Rule 403—Fugitive Dust. These measures have been quantified by the SCAQMD as being able to reduce dust generation between 30 and 85 percent</p>	<p>Prior to issuance of grading permits; weekly during construction</p>	<p>Planning and Development Department  Public Works Department  City Transportation Department</p>

**Table 10-1 Mitigation Monitoring and Reporting Program Matrix**

Impact	Mitigation Measures	Time Frame/ Monitoring Milestone	Responsible Monitoring Party
<p><b>Impact 3.2-6</b> Project implementation would exceed daily operational emissions thresholds.</p>	<p>depending on the source of the dust generation:</p> <ul style="list-style-type: none"> <li>■ Water trucks will be utilized on the site and shall be available to be used throughout the day during site grading and excavation to keep the soil damp enough to prevent dust from being raised by the operations</li> <li>■ Wet down the areas that are to be graded or that are being graded and/or excavated, in the late morning and after work is completed for the day</li> <li>■ All unpaved parking or staging areas, or unpaved road surfaces shall be watered three times daily or have chemical soil stabilizers applied according to manufacturers' specifications</li> <li>■ Endlose, cover, water twice daily, or apply approved soil binders to exposed piles (i.e., gravel, sand, and dirt) according to manufacturers' specifications</li> <li>■ The construction disturbance area shall be kept as small as possible</li> <li>■ All trucks hauling dirt, sand, soil, or other loose materials shall be covered or have water applied to the exposed surface prior to leaving the site to prevent dust from impacting the surrounding areas</li> <li>■ Wheel washers shall be installed where vehicles enter and exit unpaved roads onto paved roads and used to wash off trucks and any equipment leaving the site each trip</li> <li>■ Streets adjacent to the project site shall be swept at the end of the day if visible soil material is carried over to adjacent roads</li> <li>■ Wind barriers shall be installed along the perimeter of the site</li> <li>■ All excavating and grading operations shall be suspended when wind speeds (as instantaneous gusts) exceed 25 miles per hour over a 30-minute period</li> <li>■ A traffic speed limit of 15 miles per hour shall be posted and enforced for the unpaved construction roads (if any) on the project site</li> </ul> <p>Remediation operations, if required, shall be performed in stages concentrating in single areas at a time to minimize the impact of fugitive dust on the surrounding area</p>	<p>Prior to issuance of grading permits; weekly during construction</p>	<p>Planning and Development Department</p>
	<p>MMs 3.1.2-1 and 3.1.2-2 would also apply to this impact.</p>		