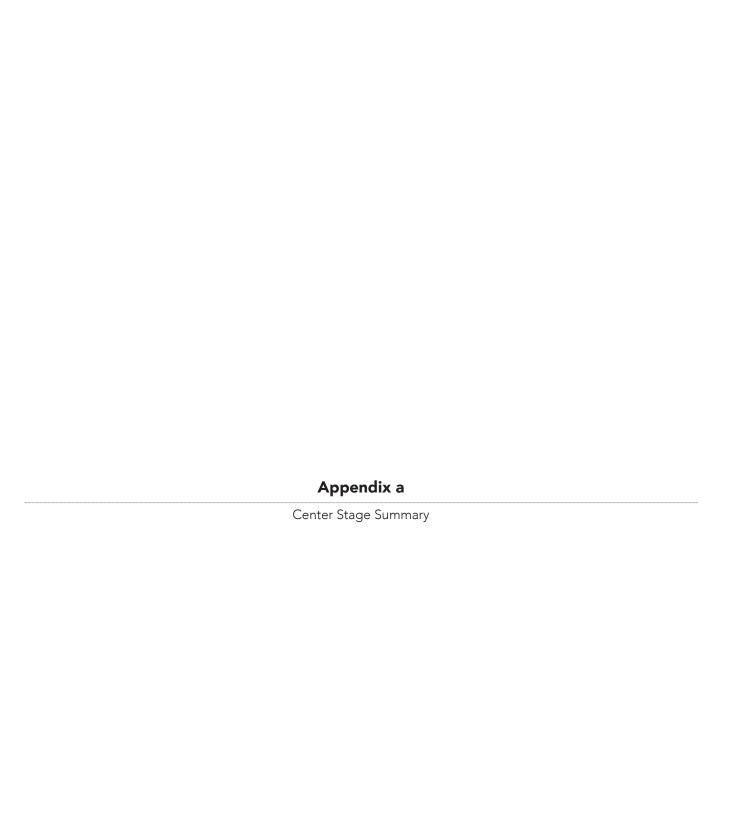
Appendix List

- a. Center Stage Summary
- b. Electrical Needs
- c. Existing Public Art
- d. Summary of Public Outreach
- e. Summary of City Staff Input
- f. Site Photos
- g. Survey
 - Dibble 2018
 - Evans 2016
- h. Drinkwater Repairs Recommendations
- i. Recycling Goalsj. SCPA 2nd Street Entrance
- k. Scottsdale Public Space Master Plan



SCOTTSDALE ARTS

Production Department Input for Park

Fountain Stage:

Stage Area:

Stage Size: 32Wx28D & 4-6' of wing space on either side. We believe that this would be an adequately sized staged to service current repeating events as well as attract more national acts to our park.

Backstage, Storage & Hospitality – We would also recommend a private enclosed or covered area that can be used for hospitality, costume changes and equipment storage. Hospitality area – 150-200sqft, Storage area – 100sq ft. Both areas should be close to the stage.

Roof: 25' MINIMUM – This is the minimum height we would need to properly hang lights and audio for a 2000 capacity venue. We would recommend a covered roof but at least the support structure to handle the weight of the audio system and lighting systems. I would not recommend putting in a lower roof in front of the stage for a walkway as it would inhibit the sightlines from the grass area to the stage. I would recommend viewing this set-up in a section view before making decisions.

Aprrox weight of Audio system: 2500lb split over 4 hanging points

Approx weight of Lighting systems: Ranges from 2000-10,000 lbs split over 2 to 6 hanging points

Stage Power: all 3 phase – 100A – Motor Power, 200A – Audio Power, 400A – Lighting Power

Amphitheatre Stage:

Stage Size: This one really depends on what we want to do out there. If it is mostly bands and smaller acts I think we could create a 40x30 space. If we wanted to see larger orchestras out there I think we would need a larger performance space. The Benedict Music Tent in Aspen, CO has a seating capacity of 2,050 and stage space that can fit up to 150 orchestra members and including timpani and percussion and that is 85' Wide and its widest and 48' wide at its narrowest. It is 50' deep. Please see photo below.



I would highly recommend that this stage is not built on the other side of a fountain from the audience. This will provide a sense of disconnection to the performance and eliminates some of the patrons favorite positions in the audience to watch from.

Backstage, Storage & Hospitality – We would also recommend a private enclosed or covered area that can be used for hospitality, costume changes and equipment storage. Hospitality area – 150-200sqft, Storage area – 100sq ft. Both areas should be close to the stage.

Information Applicable to Both Spaces:

Equipment:

Audio: My thought for audio varies depending on the programming goals for the space. I feel that we should rely on having a rental budget for a line array for each event we do. I can comfortably estimate that a rental would cost between \$9-12k per show. To purchase a total solution that we owned would cost about \$250k. We would have to produce about 20-30 shows before we were to break even. The other positive to renting is that we do not have to pay to maintain it, we do not have to store it and we also always get the newest equipment.

Lighting: I think that each stage should be outfitted with a modern LED system. Over each stage we should see an assortment of weather proof LED wash and spot fixtures. On the lighting towers we should see a few spot fixtures on each one. I would estimate this purchase around \$150-200k per stage to get state of the art equipment.

Front of House & Patron Area:

Front of House area: For audio and lighting operation we would recommend a concrete slab area of about 10'x5'. This area should be aligned down the center line of the stage. Distance from stage will be dependent on size of patron area and final layout.

This area should have a power and data snake that would run from the side of the stage, under the grass area and end up in the concrete slab. This would be used to transport data and power from stage and FOH back and forth.

This area should also have a dedicated 100A power service.

Lighting Positions:

My recommendation would be 3 lighting goalposts. One over front of house area and 2 mirrored on either side about 45deg angle from center line of stage. Distance TBD. Please refer to pictures for context.



This area can be used for stage wash lights and should also be equipped with a solid area to stand and be harnessed in to properly operate a spotlight if needed. Each one should have a few rows of availability to hang lights on. This would provide a space for permanent install, a space for bringing in additional lights for larger acts and a space to hang a projector in case we would like to do movies in the park or projection for certain acts. Each goal post should be serviced with a 100A power service. Each goal post should have a DMX data line that runs back to Front of House.

On the fountain stage area these positions should be used to provide nightly lighting to the North Patio area of the Center for Performing arts. We often have events, vendors or need for wall lighting and this would be an excellent solution to cover that need as well.

For the roof structure of the stage we should consider 3-4 permanent lighting beams as well as a few motor points to hang additional lighting trusses.



Scottsdale Civic Center Mall – Master Plan Upgrades for Electrical and Other Event-related Infrastructure

ELECTRICAL

All light poles in the Civic Center Mall should be equipped with 4 outlets (2 circuits) of 110V power each with weatherproof covers.

Power outlets should be installed in small concrete pedestals with weatherproof covers every 50 linear feet of sidewalk (each side) throughout the Civic Center Mall.

Add 4 outlets (2 circuits) to north wall of city hall loading dock (grass side at northeast lawn).

Power pedestals for "event/vendor service" vendors/rental usage: six 2 outlet (1 circuit per 2 outlets) 110V plugs with an additional 50-amp service plug/outlet*:

One "event/vendor service" power pedestal each at Civic Center Mall entrances i.e. Pepperwood parking lot corner, NE corner of SCPA, West side of library sidewalk from garage, 75th St. city hall parking lot entrance (north side of driveway), 1st Ave. city hall parking lot entrance (east side of driveway entrance), Fountain of Youth entrance, Brown St. entrance

VENDING AREAS:

Three "event/vendor service" power pedestals at north overpass back wall each end (east and west) and middle.

Three "event/vendor service" power pedestals at south overpass back wall each end (east and west) and middle.

Two "event/vendor service" power pedestals at Drinkwater statue grass area, one north end of grass and one south end of grass.

One "event/vendor service" power pedestal at west center edge of fountain stage grass lawn.

One "event/vendor service" power pedestal at northwest corner of fountain stage grass lawn.

Two "event/vendor service" power pedestals at western top of amphitheater grass lawn. One at southwest corner and one at northwest corner of tie-down area for large event tents

SPECIALTY POWER:

Fountain stage, 50-amp box – catering/misc., 100-amp box - motors, 200-amp box - audio, 400 - amp box – lights

Amphitheater stage, 50-amp box – catering/misc., 100-amp box – motors, 200-amp box audio, 400-amp box – lights

75th St – three 100-amp boxes on pedestals between city hall parking lot entrance and northeast corner of library along sidewalk right of way. Each of these power pedestals should be equipped with two fifty amp plug ins, not bare wire.

2nd St. - entrance where the SMoCA and SCPA shared sidewalk starts on the south. One 100-amp box with two 50-amp plug ins on east side of that sidewalk at southwest corner of SCPA.

Scottsdale Civic Center Mall – Master Plan Upgrades for Electrical and Other Event-related Infrastructure

p. 2

SPECIALTY POWER: (Cont.)

* Currently C.O.S. Parks has "event/vendor service" power pedestals in place at north and south overpass as well as the Drinkwater statue portion of the Mall. These represent the size, type and general configuration of "shore power" to be used throughout many areas of the Mall as identified here.

GRAY WATER DISPOSAL (vendors/participants) (NOT GREASE OR COOKING OIL)

Convert storm drain covers in lawn areas of Civic Center Mall to flat iron grates so gray water can be disposed of at these locations. Post signs on pad for "GRAY WATER ONLY" NO GREASE OR OIL DUMPING

COOKING GREASE/OIL DISPOSAL

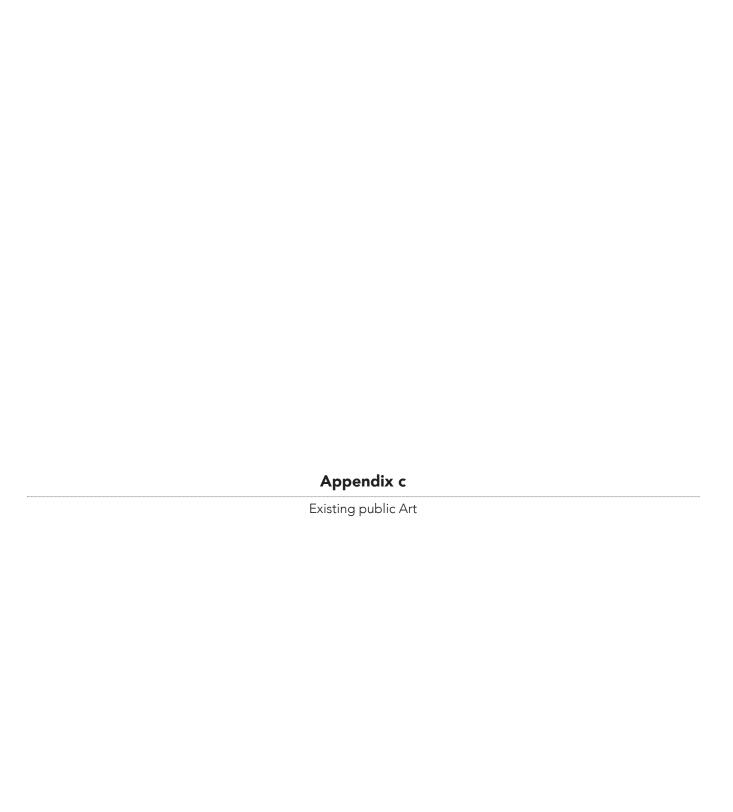
All cooking grease/oil will be removed from the property unless the promoter has arranged for grease/oil barrels for on-site disposal exclusively in these vessels. Larger festivals will be required to provide grease/oil barrels for on-site disposal.

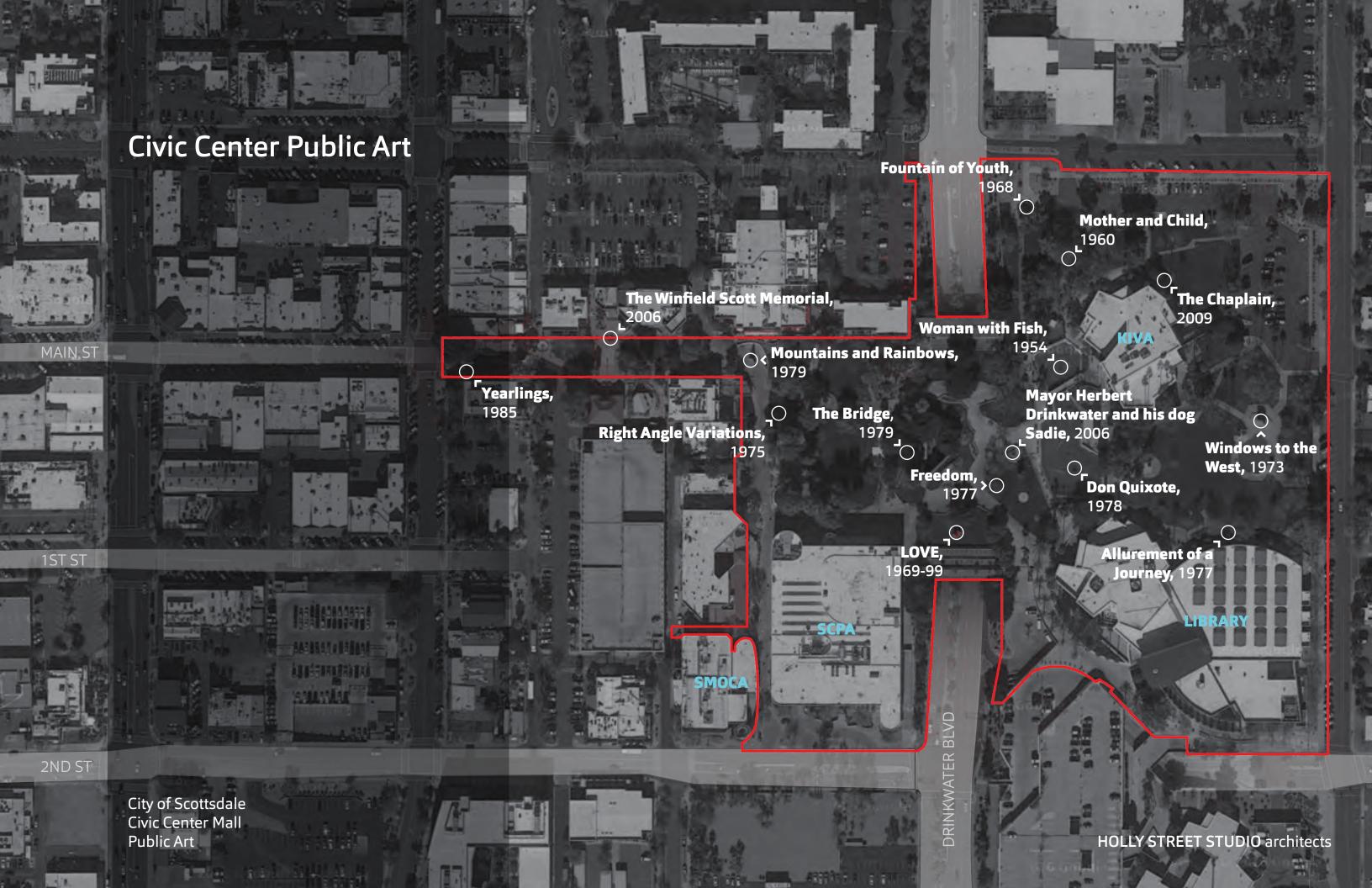
EVENT LOADING/UNLOADING DOCK

At least one and preferably two loading/unloading docks for equipment trucks should be provided to bring event rental equipment onto the Mall property. Situate this(these) docks at grade level with a back in below grade driveway to get truck bed to dock level. Dock levelers preferred but dock plates will suffice for the transition between truck bed and dock level. Suggested location(s) would be in city owned lot west of Sahuaro Hotel or north side of north city hall parking lot adjacent to the grass "peninsula" at 1st Avenue entrance.

SIDEWALK WIDENING

With the high volume of pedestrian traffic generated at Scottsdale Civic Center Mall festivals, sidewalks should be not less than 8' wide at a minimum and 10' wide if possible. Every effort should be taken to straighten these sidewalk runs out for easier access by pedestrians/event attendees/event service carts and fork lifts.







Windows to the West

Louise Nevelson 1983 N of Library

The Louise Nevelson sculpture, Windows to the West, 1973, on the east end of the mall is a historical icon for Scottsdale. It was equally funded by our citizens and the National Endowment for the Arts and the first commissioned public artwork we have. Louise Nevelson's original vision for the sculpture was that it'd be a central part of life, with people coming and going around it. We had it fully restored in 2002. There is LOTS of citizen ownership of this piece. But we'll get complaints no matter what we do with it, which we discovered when we took it away for restoration, and entertained putting the Turrell Skyspace in that location. We put it back (mostly) in the same location as before, just not in a water environment.



City of Scottsdale Civic Center Mall Public Art





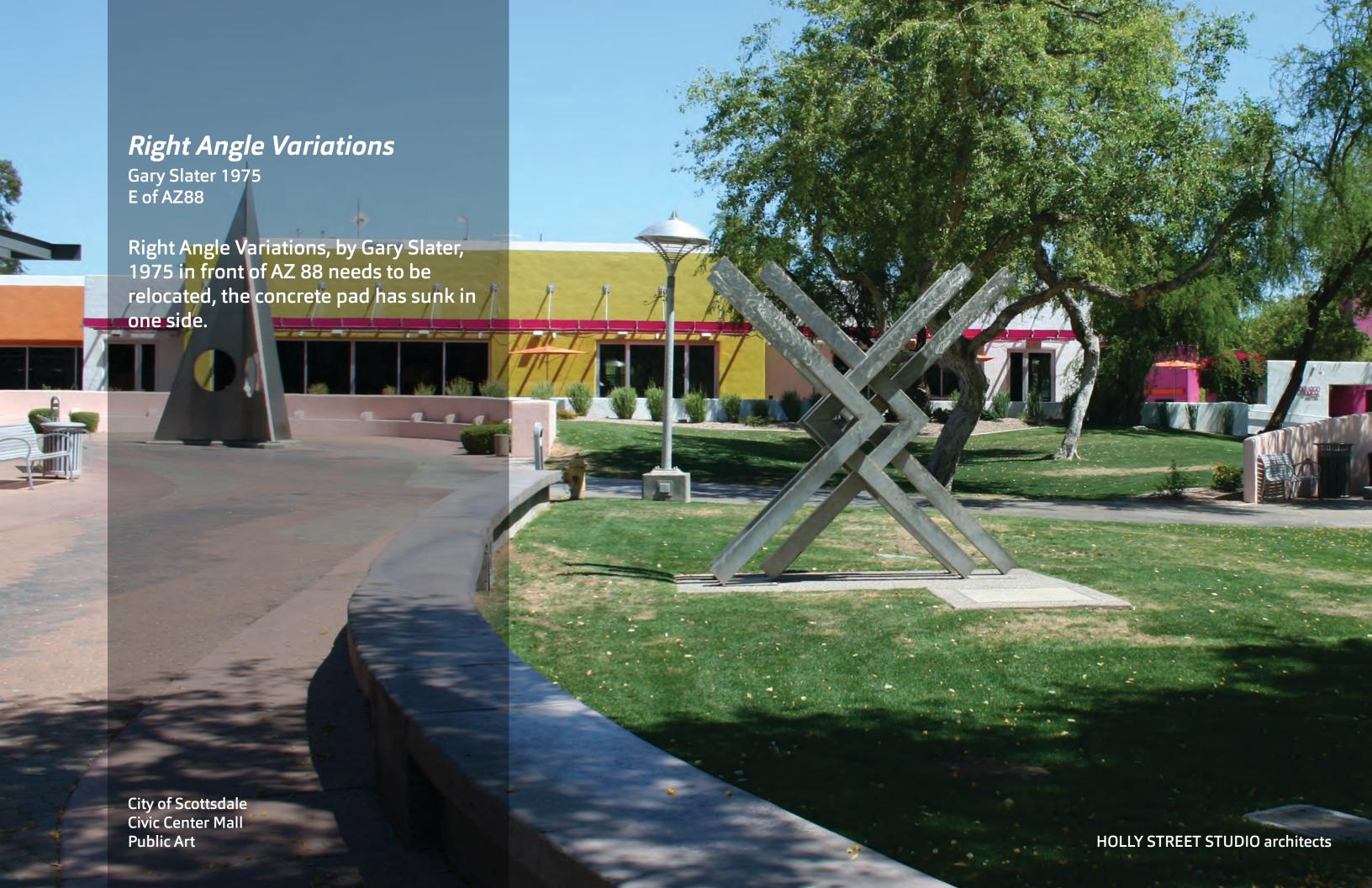








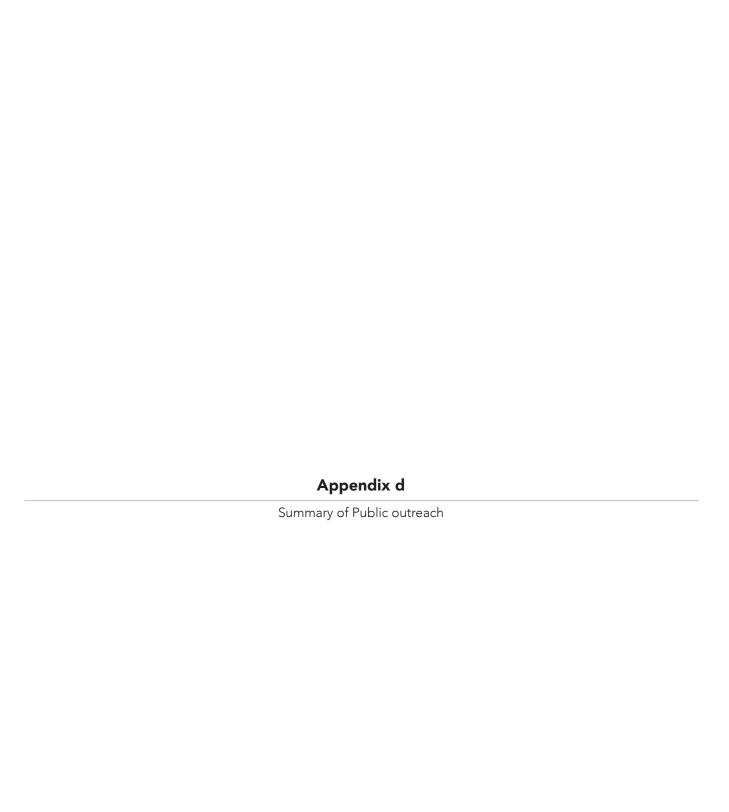




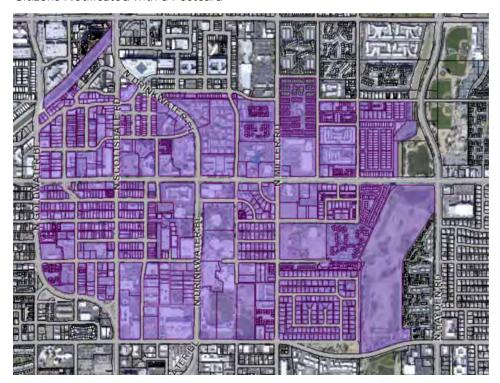








Citizens Notificated with a Postcard



Public invited to comment on Civic Center Mall Master Plan

By Erin Walsh, public information officer, 480-312-2355

January 20, 2017

Residents and other stakeholders are invited to learn about and provide comment on a proposed master plan for the Scottsdale Civic Center Mall.

The meeting takes place 6 p.m. Wednesday, Jan. 25, at the Scottsdale Center for the Performing Arts, 7380 E. Second St.

Scottsdale's Civic Center Mall annually ranks among the Valley's premier community spaces. It features: public art, fountains and mature trees and landscaping. The mall hosts dozens of events each year, including the Scottsdale Arts Festival, the Scottsdale Culinary Festival and the Spring Training Festival.

The mall is at the heart of a cultural campus that includes the Scottsdale Center for the Performing Arts, City Hall, the Civic Center Library and the Scottsdale Museum of Contemporary Art.

The goal of the mall master plan is to identify areas for improvement and renovation. Areas to be addressed include infrastructure, enhanced public amenities, expanded performance and festival capabilities and strengthening the mall as a destination point and economic catalyst.

The proposed master plan was created through an ongoing public involvement process and collaboration with local business owners. A final draft is expected to be considered by the City Council later this year.

The mall was developed in the 1960s following a grassroots community planning process and has undergone several expansions and renovations.

Learn more about the mall and the master plan process.

Following is a summary of comments received from the January 25, 2017 public meeting – **City staff responses are shown in bold type below.**

Comment: Holly Street has created a wonderful design plan for revitalization of the Civic Center.

Comment: The top priority issue should be the parking. Underground parking should be pursued with accommodation to the city hall, performing arts center and SMOCA.

Response: Underground parking is shown on this master plan update and is being proposed by staff for the future.

Comment: The ideas are good, but what value is the process if there is no funding?

Response: The Master Plan needs to be approved before we can arrange funding. The decision will be up to City Council regarding funding in a future budget.

Comment: It appears that the bathrooms on the new plan seem to be an expensive idea on this wish list. I would not put them in the center of the walk way to the beautiful expansive plaza. Can the rest rooms remain where they are and be updated and always remain clean?

Response: We have removed the new restroom building from this master plan. We intend to keep it in the existing location (next to the Little Red Schoolhouse for a while.

Comment: There are some major immediate repairs needed related to fountains and the infrastructure. Those issues should be addressed immediately and funded out of capital funds.

Response: This is also a high priority for City staff. We are working with a structural engineer regarding a solution to the immediate needs for repairs. Additional infrastructure work will be done as part of the remodeling of the Civic Center in the next few years.

Comment: Typically rezoning include increased density and building heights, what is the purpose of the rezoning. Response: The property zoning is inconsistent with the use of the property, for example most of the library is zoned Multiple-family Residential (R-5) and the parking structure is zoned Open – Space (O-S). The proposed rezoning is to align the property with the City Downtown Plan and the proposed Municipal Use Master Site Plan (MUMSP). The MUMSP that is proposed does not include residential density or increase in building heights, although modifications to the development standards are required to the building setbacks to allow the building to be setback at the current distances.

Citizen Review Report Summary for Civic Center MUMSP

On January 25, 2017, the City of Scottsdale held an open house meeting from 6:00 p.m. to approximately 7:30 p.m. to receive public comments on the proposed Municipal Use Master Site Plan and Zoning District Map Amendment change Civic Center Mall property zoning designation from Central Business Downtown Overlay (C-2 DO), Highway Commercial Downtown Overlay (C-3 DO), Multiple Family Residential Downtown Overlay (R-5 DO), and Open Space Downtown Overlay (O-S DO) to the Downtown/Downtown Civic Center – Type 2 Planned Block Development Overlay Downtown Overlay (D/DCC-2 PBD DO), and a Conditional Use Permit for Live Entertainment at the Scottsdale Center for Performing Arts. Postcards (A.4) for the January 25, 2017 meeting were mailed to over 3,000 property owners (A.2) on Jan. 13, 2017. The mailing extended beyond the 750 foot radius around the site - as shown on the attached map and mailing list (A.1). In addition, the City of Scottsdale issued a press release to notify the public of the open house meeting (see below).

Approximately 100 people attended the open house meeting. Sign-in sheets and comment cards from the meeting are also included as **A.6** to this report. In addition, **A.7** includes the affidavit of sign posting and photos of the public notice installations at 3 locations.

Additional meetings were held with smaller groups as follows. In each case, direct contact was made by phone to arrange the meeting with the group.

On January 10, 2017, staff met with Steven Voss, who is developing the condominium complex at Main Street & 75th Street. He requested that we keep the Nevelson sculpture and open space intact at the east end of Civic Center. Staff responded that we will keep the sculpture in place and work on modifying the existing fountain feature so that it can co-exist with the new shade pavilion in that area.

On January 10, 2017, staff met with the Scottsdale Historical Society at the Little Red Schoolhouse. The Society appreciated the new design. However, they were not supportive of the idea to move the restroom building out into the primary walkway. City staff responded by modifying the plan to keep the restroom building in its current location.

On January 17, 2017, City staff met with the Scottsdale Cultural Council senior management at the Cultural Council offices. The Council was generally supportive and requested City staff to provide upgraded facilities for performances including more storage space and better electrical service. They also requested improved truck access. The Public Art Director requested that we coordinate with her staff on potential relocation of public art sculptures. City staff is following up on these requests and agreed to each request.

On January 17, 2017, City staff gave a presentation of the master plan to the Tourism Development Commission at City Hall. Staff gave a presentation of the master plan concept and listened to feedback. The Commissioners asked a few questions for clarification on the concept and also requested that the performance venues allow for multiple types of entertainment. Staff responded that this request will be honored. Overall, the Commission was very supportive of the master plan.

On January 18, 2017, City staff gave a presentation of the Civic Center master plan concept to the Parks & Recreation Commission at City Hall. The Commissioners asked that the plans be coordinated with City Parks staff. They were very supportive of the concept plans.

On January 18, 2017, City staff met with the Old Town Merchants Association at Cavalliere Blacksmith Shop on 2nd Street. The Association members did not like the concept of moving the restroom building out into the primary walkway. City staff responded by modifying the plan to keep the restroom building in its current location. The members were also concerned about taking away parking spaces to create a green space near the Little Red Schoolhouse. Staff responded that the parking would be replaced in another location at that time.

On February 7, 2017, staff gave a presentation to the Paths & Trails Subcommittee of the Transportation Commission at City Hall. The committee members asked that there be a designated bike route through the Civic Center. Staff responded by working with Transportation staff and adding the route to the master plan.

On February 15, 2017, staff met with the COS Library Board at Civic Center Library board room. The Board members requested that a "children's garden" be added near the north side of Civic Center Library. Staff responded by adding this feature to the master plan.

On February 16, 2017, staff gave a presentation to the COS Transportation Commission at City Hall. The commissioners were very supportive of the concept plan. They asked staff to work closely with the Principal Traffic Engineer who is in the process of improving sidewalks around downtown Scottsdale. Staff responded that they are already working together on this coordination effort.





May 5, 2017

Gary Meyer City of Scottsdale 7447 E Indian School Scottsdale, AZ 85251

RE: 22-UP-1990#2

Scottsdale Civic Center Mall Municipal Use Master Site Plan

Dear Mr. Meyer:

The Planning & Development Services Division has completed the review of the above referenced Municipal Use Master Site Plan. The following **1**st **Review Comments** represent the review performed by our team, and is intended to provide you with guidance for compliance with city codes, policies, and guidelines related to this application.

Scottsdale Revise Code Significant Issues

The following code and ordinance related issues have been identified in the first review of this application, and shall be addressed in the resubmittal of the revised application material. Addressing these items is critical to scheduling the application for public hearing, and may affect the City Staff's recommendation. Please address the following:

Fire:

1. Please revise the graphics and text to include the locations of the existing internal fire lanes (twenty-four foot minimum unobstructed width) that are to remain (Fire Ord. 4045, 503.3).

Significant Policy Related Issues

The following policy related issues have been identified in the first review of this application. Even though some of these issues may not be critical to scheduling the application for public hearing, they may affect the City Staff's recommendation pertaining to the application and should be addressed with the resubmittal of the revised application material. Please address the following:

Site Design:

2. Please revise the application narrative to include a detail description of the master plan, proposed improvements, and programing concepts. In addition, please revise the application narrative to include the methodology and analysis of concept pertaining to the proposed master plan and how the proposed plan specifically addresses the Goals and Approaches of the City of Scottsdale General Plan 2001, the Goals and Policies of the Downtown Area Plan, and Scottsdale Sensitive Design Program's Sensitive Design Principles.

- 3. Please revise the application narrative and graphics to provide clarification regarding the proposed 'Rose Garden' that is on the north side of the 'New Performance Pavilion and Gathering Space'. It appears that this feature element will conflict with the pedestrian pathway that is located to the east and west sides of the 'Rose Garden'. Please refer to Scottsdale Sensitive Design Principles 5, 6, & 7.
- 4. Please revise the application narrative and graphics to address and incorporate various forms loading, staging, storage and maintenance accommodation necessary for the proposed and existing facilities to operate as fully functional event space and civic center.

Circulation:

- 5. There appears to significant loss of surface parking south of East 1st Avenue, north and east of City Hall. Please revise the application narrative to include information about how many spaces are being removed and how many will be provide in the "below grade parking" area. In addition, please provide the approximate location that vehicles will utilized to enter the below grade parking area from East 1st Avenue, North 75th Street, and North Drinkwater Boulevard.
- 6. Please revise the proposed master site plan to include an east-west pedestrian pathway along the north side of the New Performance and Pavilion Gathering Space to connect to the path along North Drinkwater Boulevard, East Main Street area and to the City Hall area. Pedestrians should not have to travel south of the performance/gathering area to travel east-west though the mall.
- Please revise the application narrative and incorporate additional graphics that include information about event truck access in and through the mall area, back of house facilities and operation, and refuse considerations for City Hall, the Center for Performing Arts, and proposed facilities.
- 8. The graphics make it appear that the on-street parking along the west side of North 75th Street are being removed. Please revise the graphics to show and label this parking to remain.
- 9. Please revise the graphics to include minimum typical widths and dimensions for the pedestrian corridors connecting North Brown Avenue into the Mall area. Please ensure that a minimum of 10 foot clear pathways will be available if event tents are allowed along this corridor.
- 10. Please revise the graphics to include more information and details pertaining to the pedestrian crossings from One Civic Center building to City Hall. The existing crossings are not shown on the site plan.

Other:

11. Please revise the narrative to include the methodology utilized to accommodate refuse and recycling. In addition, please revise the application narrative to address other infrastructure improvements, such as lighting, electrical, and water and wastewater improvements that are necessary to accommodate the existing functions and events in the mall and propose facilities.

Considerations

The following considerations have been identified in the first review of this application. While these considerations are not critical to scheduling the application for public hearing, they may improve the quality and may reduce the delays in obtaining a decision regarding the proposed development. Please consider addressing the following:

Site Design:

- 12. Please provide notation and clarification regarding the small, terra-cotta-colored polygons that are illustrated at various locations within the project area.
- 13. Please identify the existing Little Red School House.
- 14. Please consider shifting the note 'Repair and Open Plaza to Street Level' so that it is at the northwestern corner of the project area, with an arrow as appropriate.

Please resubmit the revised application requirements and additional information identified in Attachment A, Resubmittal Checklist, and a written summary response addressing the comments/corrections identified above as soon as possible for further review. The City will then review the revisions to determine if the application is to be scheduled for a hearing date, or if additional modifications, corrections, or additional information is necessary.

PLEASE CALL 480-312-7000 TO SCHEDULE A RESUBMITTAL MEETING WITH ME PRIOR TO YOUR PLANNED RESUBMITTAL DATE. DO NOT DROP OFF ANY RESUBMITTAL MATERIAL WITHOUT A SCHEDULED MEETING. THIS WILL HELP MAKE SURE I'M AVAILABLE TO REVIEW YOUR RESUBMITTAL AND PREVENT ANY UNNECESSARY DELAYS. RESUBMITTAL MATERIAL THAT IS DROPPED OFF MAY NOT BE ACCEPTED AND RETURNED TO THE APPLICANT.

These 1st Review Comments are valid for a period of 180 days from the date on this letter. The Zoning Administrator may consider an application withdrawn if a revised submittal has not been received within 180 days of the date of this letter (Section 1.305. of the Zoning Ordinance).

If you have any questions, or need further assistance please contact me at 480-312-4218 or at dsymer@ScottsdaleAZ.gov.

Dan Symer, AICP Senior Planner

Sincere





SEC of Indian School Road & Drinkwater Blvd



Looking North West



Looking North East

SEC of Indian School Road & Drinkwater Blvd



Looking South East



Looking South West

2 SWC of Indian School Road & 75th Street



Looking North West



Looking North East

2 SWC of Indian School Road & 75th Street



Looking South East



Looking South West



Looking North West



Looking North East





Looking South East



Looking South West

4 SWC of 1st Street & 75th Street



Looking North West



Looking North East

4 SWC of 1st Street & 75th Street



Looking South East



Looking South West



Looking North



Looking East





Looking South



Looking West



Looking North



Looking East

6 East Side of Brown Ave & Main Street



Looking South



Looking West

7 North end of Civic Park Deck



Looking North



Looking East

North end of Civic Park Deck



Looking South



Looking West



Looking North



Looking East





Looking South



Looking West



Looking North



Looking East

9 NWC of Scottsdale Center for the Arts

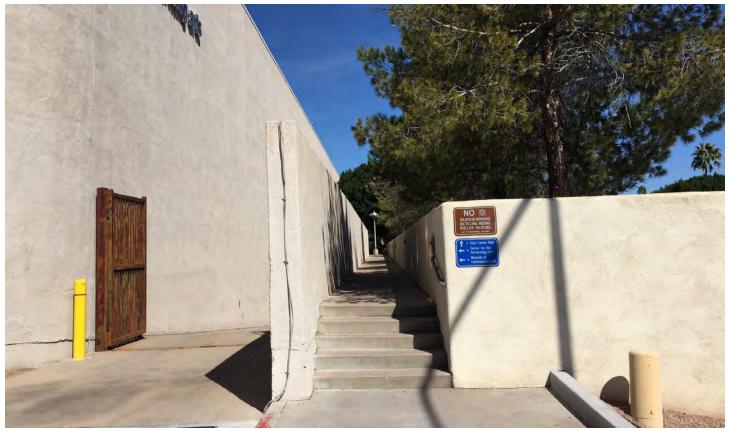


Looking South



Looking West

10 NWC of 2nd Street & Drinkwater Blvd



Looking North



Looking East

10 NWC of 2nd Street & Drinkwater Blvd



Looking South



Looking West

11 East side of 2nd Street & Drinkwater Blvd



Looking North



Looking East

11 NWC of 2nd Street & Drinkwater Blvd



Looking South



Looking West

12 NWC of 2nd Street & 75th Street



Looking North West



Looking North East

12 NWC of 2nd Street & 75th Street

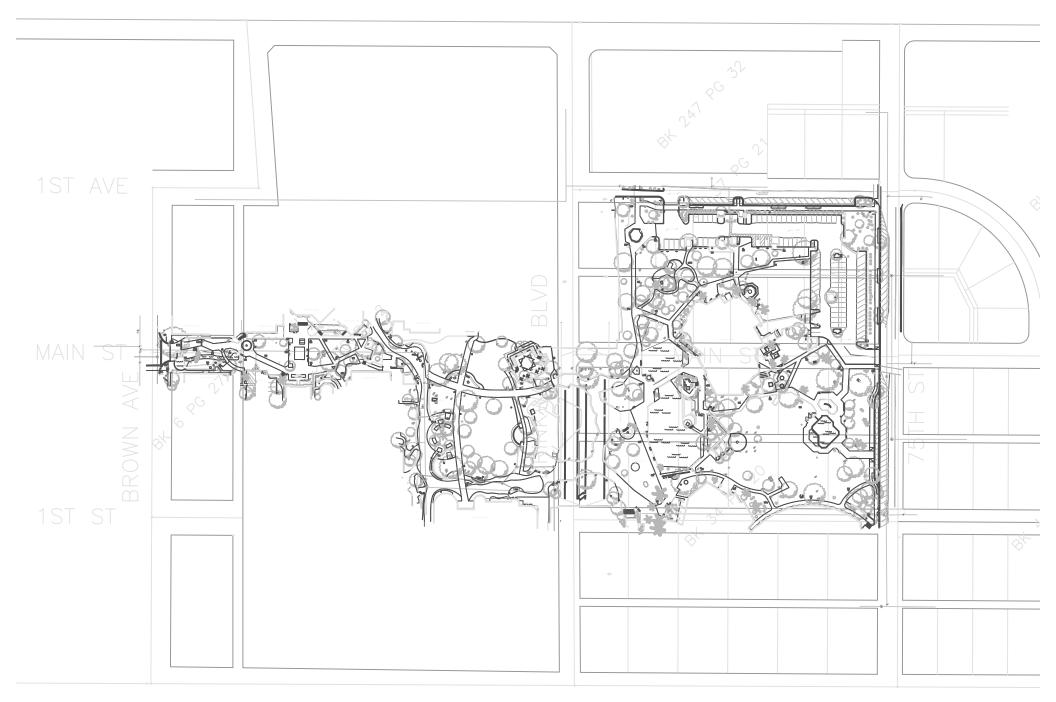


Looking South East

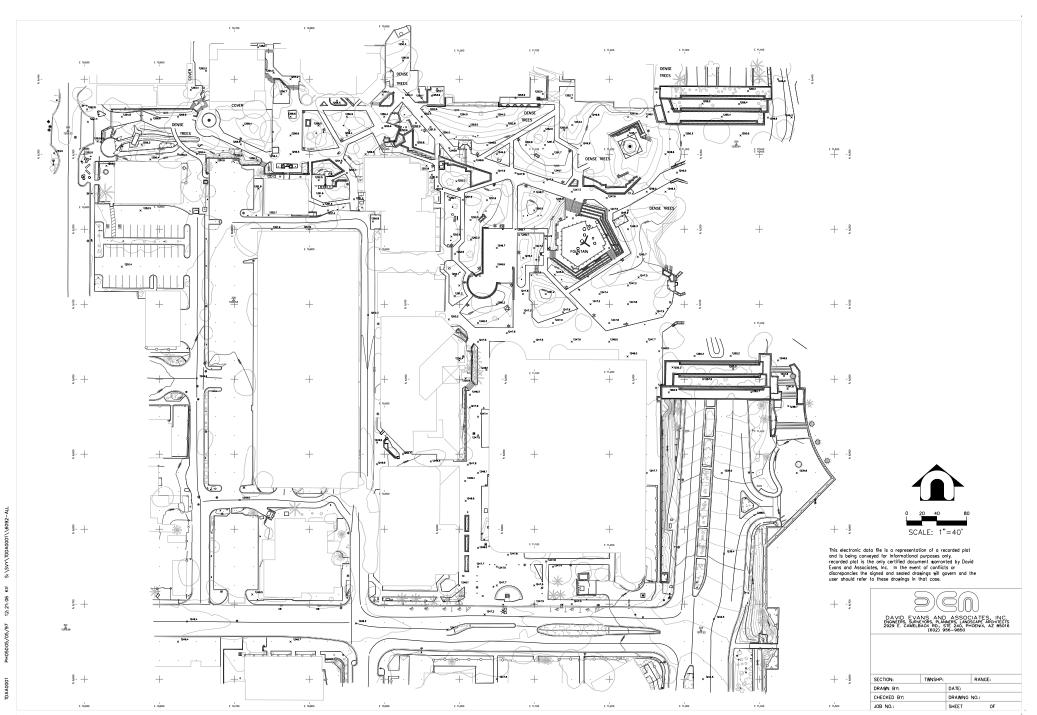


Looking South West



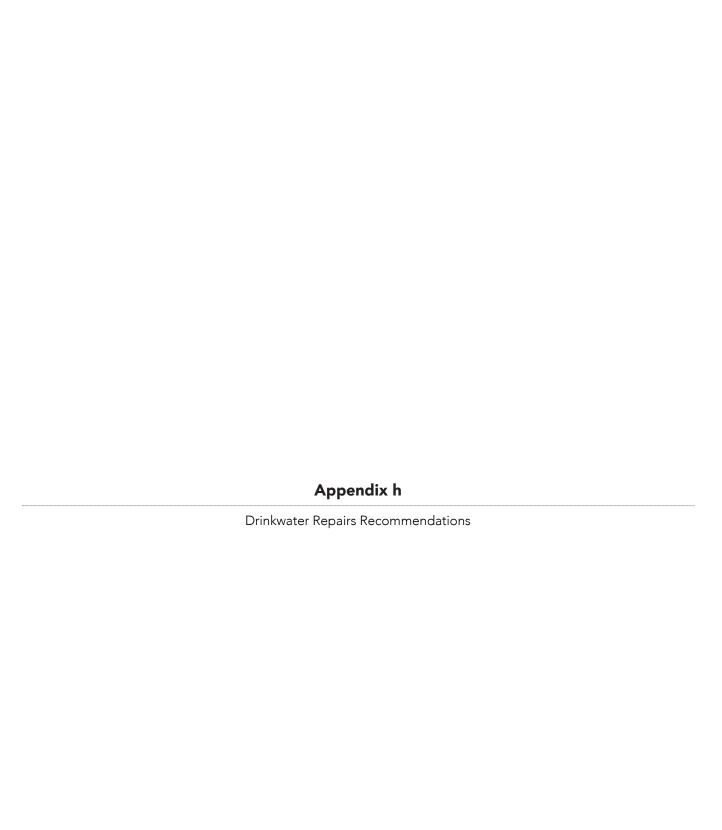


2ND ST



For reference Only

Evans Survey (2018)





STRUCTURAL ENGINEERING EXPERTS

structural

engineers

PARTNERS

Richard Turley, SE
Paul Scott, SE, PE
Sandra Herd, SE, PE, LEED AP
Chris Atkinson, SE, PE, LEED AP
Thomas Morris, SE, LEED AP
Richard Dahlmann, SE, PE
Troy Turley, SE, PE, LEED AP
Brady Notbohm, SE, PE

PROFESSIONAL REGISTRATION

50 States Washington D.C. U.S. Virgin Islands Puerto Rico September 25, 2018

Ms. Elaine Mercado, P.E.
Senior Project Manager
Capital Project Management/City of Scottsdale
7447 East Indian School Road
Scottsdale, AZ 85251

RE: Civic Mall Drinkwater Bridge Renovation

Drinkwater Blvd & Second Street CTS Job No. 16-1625.1

Dear Ms. Mercado,

Based on the selective demolition, concrete core samples and petrography report that has been completed by Haydon Building Corp, Speedie & Associates and Braun Intertec over the pass (3) months, we have evaluated the overall structural condition of the existing bridge structure and provide the following structural repair recommendations:

1. Concrete support columns:

- a. During the concrete repair process on the damaged concrete support columns located along the center of the bridge, it was noted that the outer 2" 3" of concrete appeared to be "soft". Repair work was halted and temporary shoring towers were installed at (4) of the existing columns.
- Concrete core samples were taken from columns B/3 and B/6, as well as the cap beam at grid B/5-6.
- c. The results of the petrographic analysis and the concrete compressive tests, the concrete near the top of the columns was found to be less than the original specified compressive strength, with the lower section of the columns found to be slightly higher than the original specified compressive strength.
- d. <u>Recommendation:</u> Based on these findings, we recommend the installation of a new concrete bearing wall located between each of the existing concrete columns along grid B. This will provide continuous support of the pre-stressed concrete cap beam and the existing concrete columns will no longer be required to provide vertical support for the bridge deck above. Any repairs completed on the existing columns would be aesthetic in nature. The new concrete bearing wall will be supported by a continuous concrete spread footing. Structural design requirements will be included in the final structural design drawings.

2. Pre-stressed Concrete Cap Beam:

- During the structural review of the bridge deck, there were a number of locations along the existing cap beam that are showing signs of concrete damage due to water infiltration from the fountain located above.
- b. The results of the petrographic analysis and the concrete compressive tests indicate the concrete within the beam is of good quality with some minor micro cracks and minor ASR. We believe the micro cracking is due to the torsional loading of the tested beam and the ASR has not resulted in significant structural damage or loss of flexural strength in the beam.
- c. A section of the existing cap beam located between grid B6 and B7 has been damaged due to water infiltration and there are (5) pre-stressed cables that have been damaged and would require a number of layers of carbon fiber reinforcing applied to the exterior of the beam.
- d. <u>Recommendation</u>: Based on these findings, we recommend the installation of a new concrete bearing wall located between each of the concrete columns along grid B. This will provide continuous support of the pre-stressed concrete cap beam. With the installation of the new concrete wall, the existing concrete beam would not require carbon fiber repair. The damaged sections of cables shall be removed and the damaged concrete repaired using a structural repair mortar. The new concrete bearing wall will be supported by a continuous concrete spread footing. Structural design requirements will be included in the final structural design drawings.



3. Bridge Deck:

- a. In general, the existing precast hollow core slabs and cap beams appear to be good structural condition, with the exception of localized spalling on the underside of the bridge due to water infiltration.
- b. Concrete core sample were taken from the existing concrete retaining wall and moisture testing was conducted on the wall backfill. These test rests showed the existing concrete wall was sound and there was no moisture buildup behind the existing retaining wall.
- c. The (3) existing ficus trees located on the north half of the bridge have been removed and (2) test pits have been excavated at grid B/5 and B/3, exposing the existing waterproofing membrane, concrete topping slab and the top of the concrete hollow core slabs and cap beam.
- d. The waterproofing membrane in each of these test pits was found to be in good shape, but was no longer adhered to the concrete slab. There was moisture build up under all of the waterproofing, which would suggest it is no longer performing to the original design intent. Although it is difficult to identify the exact location of where the water is entering under the membrane, the observed damage from below the deck and the observed existing condition above the deck would suggest the water is entering thru holes in the membrane where the vertical reinforcing dowels for the seat walls are penetrating thru the membrane and into the concrete topping slab.
- e. The exposed concrete topping slab and its steel reinforcing appears to be in good condition with no visual evidence of structural distress, delamination or corrosion.
- f. The exposed hollow core slabs and cap beams also appear to be in good condition and no visual evidence of structural distress, delamination or corrosion.
- g. Preparation for the relocation of the existing LOVE statue is currently underway.
- h. <u>Recommendation:</u> Based on the observed existing conditions, we would recommend the removal of all the existing landscaping, fountain structure and sidewalks from the existing bridge deck and replace the existing waterproofing membrane. We would also recommend the future landscaping and finishes that are installed over the new waterproofing membrane allow for positive drainage away from the east and west sides of the bridge and require a very low amount of irrigation.

4. Future Bridge Improvements/modifications:

- a. As part of the master plan for this Civic Mall area, there is a new stage structure proposed to be installed. Based on the current plan, this will be located above the current area that has been designed for infill.
- b. Design provisions will be made for this portion of the structure to accommodate this type of use.
- c. Design for a new concrete retaining wall will be provided in the final structural drawing set for the infill around the stepped planters located at the center of the west wall. This retaining wall will be designed to provide vertical support for the infill framing identified above.

Please contact our office with any questions or comments at 480.774.1700.

Respectfully submitted, CARUSO TURLEY SCOTT

Mitchell Meland, SE Structural Engineer T: (480) 774-1727 Direct E: mmeland@ctsaz.com Reviewed By:

APTONA, U.S.P.

EXPIRES 03-31-20

Brady Notbohm, SE Partner



To Gary Meyer, Sr. Project Manager Capital Projects Management, CoS

Civic Center Master Plan – Recycling goals.

Hi Gary,

Thanks for discussing the Civic Center Master Plan efforts with me last week.

As I brought forward, I would hope we could incorporate a statement or a goal somewhere in the plan referencing the importance of planning for recycling in this popular public space.

The 2035 draft General Plan goals related to solid waste and recycling are being used by Dan Worth to create the *Community Solid Waste and Recycling Vision and Strategic Plan*. Council directed Dan to take on this effort at a Council Meeting in May of 2016.

The 2035 GP Policy EP4.1 states: "Maintain and expand citywide recycling programs, particularly for tourist areas, businesses, multi-family housing, institutional facilities, special events and public spaces."

I am requesting your master plan process and future improvements inclusively embrace this challenge and plan for our community to put its best foot forward in demonstrating the importance of a recycling ethic by showcasing the practice to tourists, visitors and active citizens of Scottsdale. The Civic Center is one of our premiere public spaces within the public realm of our downtown.

I am asking that you please communicate this to the consultant team and express the importance of the timing of this planning opportunity. A simple statement or goal in the master plan should be sufficient. Please also consider this same ethic when working on other components of our downtown public realm and open spaces.

I also did bring up another element the plan should consider. In my past efforts in planning the Civic Center in 1990 I realized there were inadequate accommodations for back of house staging, storage, and maintenance needs for this active public space. Perhaps there is a way to look to areas within the Civic Center to perform those functions seamlessly.

Thank you for your considerations, and best of luck to the team on the successful completion of this process.

lim Conner

Manager, Office of Environmental Initiatives

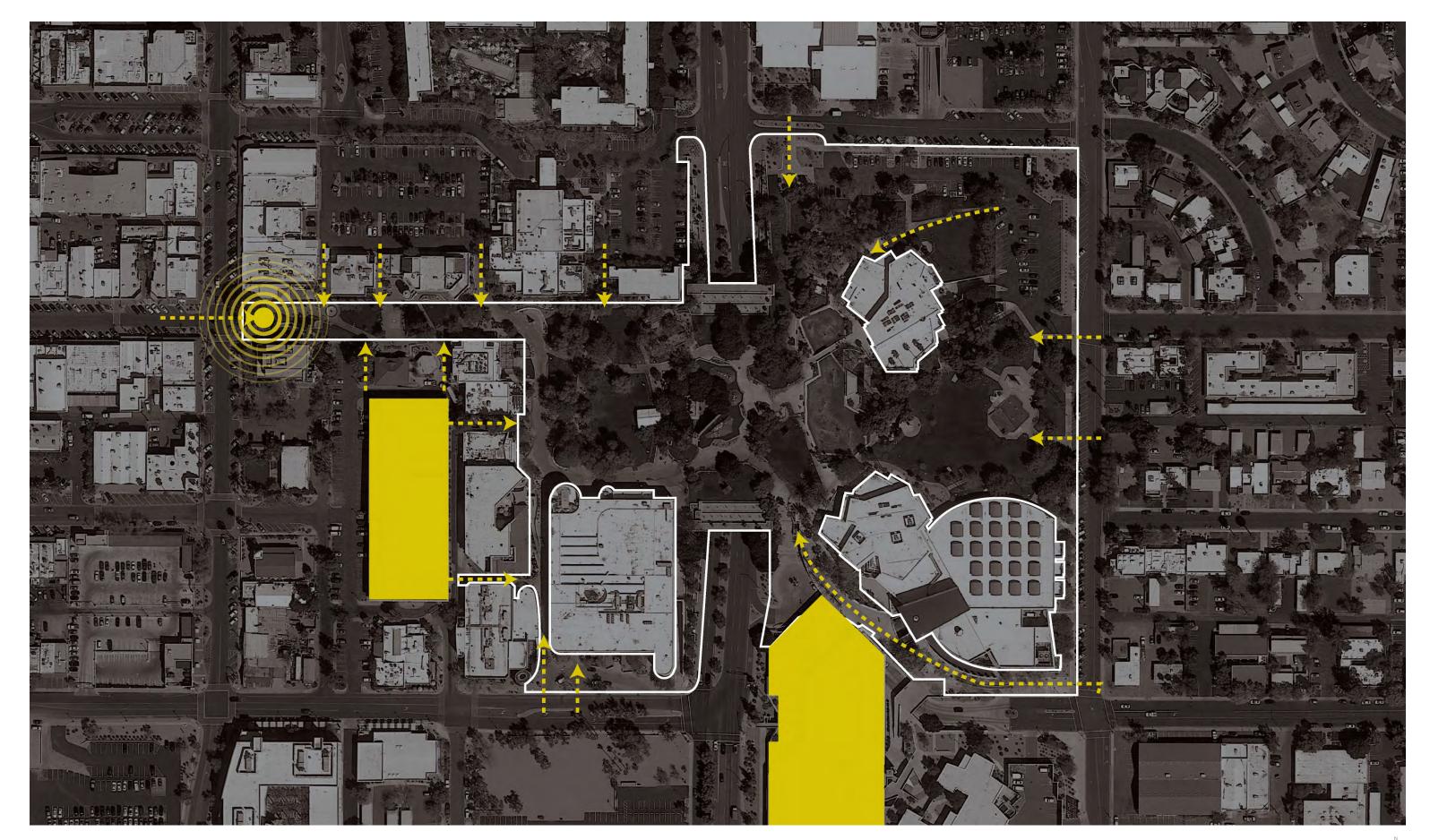
City of Scottsdale

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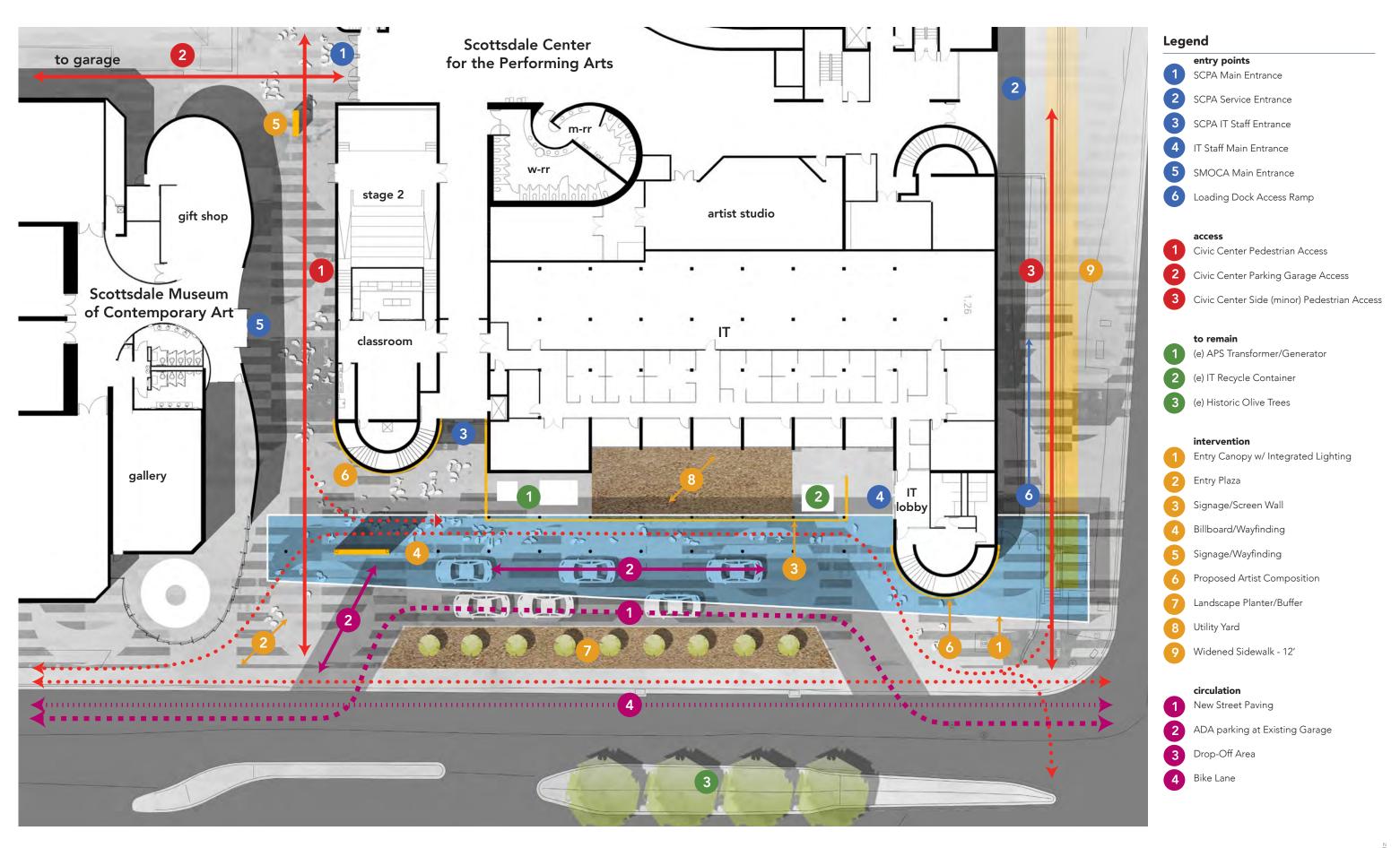






Scottsdale Center for the Performing Arts: Second Street Improvements

04.27.18





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