



AGENDA

REGULAR MEETING

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CLAYTON CITY COUNCIL

* * *

TUESDAY, November 15, 2016

7:00 P.M.

*Hoyer Hall, Clayton Community Library
6125 Clayton Road, Clayton, CA 94517*

Mayor: Howard Geller

Vice Mayor: Jim Diaz

Council Members

Keith Haydon

Julie K. Pierce

David T. Shuey

- A complete packet of information containing staff reports and exhibits related to each public item is available for public review in City Hall located at 6000 Heritage Trail and on the City's Website at least 72 hours prior to the Council meeting.
- Agendas are posted at: 1) City Hall, 6000 Heritage Trail; 2) Library, 6125 Clayton Road; 3) Ohm's Bulletin Board, 1028 Diablo Street, Clayton; and 4) City Website at www.ci.clayton.ca.us
- Any writings or documents provided to a majority of the City Council after distribution of the Agenda Packet and regarding any public item on this Agenda will be made available for public inspection in the City Clerk's office located at 6000 Heritage Trail during normal business hours.
- If you have a physical impairment that requires special accommodations to participate, please call the City Clerk's office at least 72 hours in advance of the meeting at (925) 673-7304.

*** CITY COUNCIL ***
November 15, 2016

1. **CALL TO ORDER AND ROLL CALL** – Mayor Geller.

2. **PLEDGE OF ALLEGIANCE** – led by Mayor Geller.

3. **CONSENT CALENDAR**

Consent Calendar items are typically routine in nature and are considered for approval by the City Council with one single motion. Members of the Council, Audience, or Staff wishing an item removed from the Consent Calendar for purpose of public comment, question or input may request so through the Mayor.

- (a) Approve the minutes of the City Council's regular meeting of November 1, 2016. ([View Here](#))
- (b) Approve the Financial Demands and Obligations of the City. ([View Here](#))
- (c) Approve the City Council cancellation of its regularly scheduled Council meeting of January 3, 2017. ([View Here](#))
- (d) Adopt a Resolution approving a one-time discretionary pay for performance award to the City Manager for calendar year 2016. ([View Here](#))

4. **RECOGNITIONS AND PRESENTATIONS**

- (a) Proclamation declaring November 17, 2016 as “Laurie Parker Day”. ([View Here](#))
- (b) Certificates of Recognition to Diablo View Middle School students for exemplifying the “Do the Right Thing” character trait of “Respect” during the month of October 2016. ([View Here](#))

5. **REPORTS**

- (a) Planning Commission – No meeting held.
- (b) Trails and Landscaping Committee – No meeting held.
- (c) City Manager/Staff
- (d) City Council - Reports from Council liaisons to Regional Committees, Commissions and Boards.
- (e) Other

6. **PUBLIC COMMENT ON NON - AGENDA ITEMS**

Members of the public may address the City Council on items within the Council's jurisdiction, (which are not on the agenda) at this time. To facilitate the recordation of comments, it is requested each speaker complete a speaker card available on the Lobby table and submit it in advance to the City Clerk. To assure an orderly meeting and an equal opportunity for everyone, each speaker is limited to 3 minutes, enforced at the Mayor's discretion. When one's name is called or you are recognized by the Mayor as wishing to speak, the speaker shall approach the public podium and adhere to the time limit. In accordance with State Law, no action may take place on any item not appearing on the posted agenda. The Council may respond to statements made or questions asked, or may at its discretion request Staff to report back at a future meeting concerning the matter.

Public comment and input on Public Hearing, Action Items and other Agenda Items will be allowed when each item is considered by the City Council.

7. **PUBLIC HEARINGS**

- (a) Public Hearing to consider the Introduction and First Reading of a proposed City-initiated Ordinance No. 470 updating the *Clayton Municipal Code*, Title 17 Zoning, Section 17.80 - Water Conserving Landscape Guidelines, concerning City Water Efficient Landscaping standards and regulations, per state mandate. (Community Development Director) ([View Here](#))

Staff recommendations: **1)** Receive the staff report; **2)** Open the Public Hearing and receive public comments; **3)** Close the Public Hearing; **4)** Following Council discussion of or any amendments to the proposed Ordinance, approve a motion to have the City Clerk read Ordinance No. 470 by title and number only and waive further reading; and **5)** Following the City Clerk's reading, by motion approve Ordinance No. 470 for Introduction with the finding the action does not constitute a project under CEQA.

7. PUBLIC HEARINGS – continued

- (b) Public Hearing to review and consider the following actions for the St. John's Episcopal Church/Southbrook Drive Mixed Use Planned Development Project, consisting of a three-lot subdivision for two-single family homes (APN: 118-101-022): ([View Here](#))
- 1) Consider adoption of the Final Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program (ENV-01-15);
 - 2) Consider a General Plan Amendment to modify the land use designation of 0.41 acre of the project site from Institutional Density (ID) to Single Family Medium Density (MD) (GPA-01-15);
 - 3) Consider the Introduction and First Reading of an Ordinance to rezone the 2.77-acre project site from Agriculture (A) District to Planned Development District (PD) (ZOA-03-15); and
 - 4) Consider approval of the Development Plan (DP-01-15), Tentative Subdivision Map (MAP-01-15), Site Plan Review Permit (SPR-07-16), and Tree Removal Permit (TRP-37-15).
(Community Development Director)

Staff recommendations: **1)** Receive the staff report; **2)** Open the Public Hearing and receive public comments; **3)** Close the Public Hearing; **4)** Following Council discussion or any amendments, approve various actions by separate motions listed below:

1. Adopt the Resolution adopting the Final Initial Study/Negative Declaration and Mitigation Monitoring and Reporting Program (ENV-01-15);
2. Adopt the Resolution approving a General Plan Amendment to modify the land use designation of 0.41 acre of the project site from Institutional Density (ID) to Single Family Medium Density (MD) (GPA-01-15);
3. Approve a motion to have the City Clerk read Ordinance 471 (ZOA-03-15) by title and number only and waive further reading; and then following the City Clerk's reading, by motion approve Ordinance 471 for Introduction; and
4. Adopt the Resolution approving the Development Plan (DP-01-15), Tentative Subdivision Map (MAP-01-15), Site Plan Review Permit (SPR-07-16), and Tree Removal Permit (TRP-37-15) for the St. John's Episcopal Church/Southbrook Drive Mixed Use Planned Development Project.

8. **ACTION ITEMS** – None.

9. **COUNCIL ITEMS** – limited to requests and directives for future meetings.

10. **CLOSED SESSION**

(a) *Government Code Section 54956.9(d)(2)* – Significant Exposure to Litigation.
Conference with Legal Counsel: Anticipated Litigation (1 case).

Report out from Closed Session: Mayor Geller.

11. **ACTION ITEM**

(a) Consider authorizing the Mayor to execute an amendment to the Oak Creek Canyon Tolling Agreement between the City of Clayton and West Coast Homebuilders. ([View Here](#))
(City Attorney)

Staff recommendation: Following discussion and opportunity for public comment, that the City Council provide policy direction regarding this matter.

12. **ADJOURNMENT**

The next regularly scheduled meeting of the City Council will be December 6, 2016.

#

MINUTES
OF THE
REGULAR MEETING
CLAYTON CITY COUNCIL

Agenda Date: 11-15-2016

Agenda Item: 3a

TUESDAY, November 1, 2016

1. **CALL TO ORDER & ROLL CALL** – The meeting was called to order at 7:00 p.m. by Mayor Geller in Hoyer Hall, Clayton Community Library, 6125 Clayton Road, Clayton, CA. Councilmembers present: Mayor Geller, Vice Mayor Diaz, and Councilmembers Haydon, Pierce, and Shuey. Councilmembers absent: None. Staff present: City Manager Gary Napper, City Attorney Mala Subramanian, Community Development Director Mindy Gentry, Finance Manager Kevin Mizuno, Maintenance Supervisor John Johnston, and City Clerk/HR Manager Janet Brown.

2. **PLEDGE OF ALLEGIANCE** – led by Mayor Geller.

3. **CONSENT CALENDAR**

It was moved by Councilmember Haydon, seconded by Councilmember Pierce, to approve the Consent Calendar as submitted. (Passed; 5-0 vote).

- (a) Information Only – No Action Requested.
1. City Engineer memo regarding a recent Federal Emergency Management Agency (FEMA) notification to City concerning area floodplain mapping.
- (b) Approved the minutes of the regular meeting of October 18, 2016.
- (c) Approved Financial Demands and Obligations of the City.
- (d) Approved the award of negotiated contracts to Diablo Landscape, Inc. in the amount of \$59,800 and to Waraner Brothers Tree Service in the amount of \$4,400 for a Trees Replacement Project (LMD 2015-3) on Keller Ridge Drive using Citywide Landscape Maintenance District funds (CFD 2007-1), and authorized the allocation of \$18,200 in District reserves to gap-fund the project.
- (e) Adopted Resolution No. 52-2016 approving the administering Agency-State Master Agreement No. 04-5386F15 and Program Supplement No. F007 concerning the proposed Collector Street Rehabilitation Project on Keller Ridge Drive (CIP No. 10425), and authorizing the City Manager to execute the Agreements.
- (f) Approved the City's Investment Portfolio Report for the 1st Quarter of FY 2016-17 ending September 30, 2016.
- (g) Approved a multi-year lease with Konica Minolta Business Systems for replacement of the existing City Hall leased copier machine.

4. **RECOGNITIONS AND PRESENTATIONS**

- (a) Proclamation declaring November 2, 2016 as "Shelter in Place Education Day."

Mayor Geller noted the issuance of the Proclamation and indicated staff will send it to the requestor as no representative was present.

- (b) Certificates of Recognition to "Do the Right Thing" public school students selected for exemplifying the character trait of "Respect" for October 2016.

Mayor Geller and Mt. Diablo Elementary School Principal Dawn Edwards and second grade teachers Mrs. Pike and Mrs. Knapp presented Certificates to students Carter Dudley and Eva Leaver-Solano.

5. REPORTS

- (a) Planning Commission – Commissioner Bassam Altwal summarized the Commission's meeting of October 25, 2016. He indicated its agenda included a General Plan Amendment for the property located at 5555 Clayton Road, noting this item received a lot of public comment. Commissioner Richardson recused himself from that item as he owns real property in the vicinity. The Commission also reviewed another possible General Plan Amendment to allow net acreage density calculations on properties with certain physical constraints, which matter was returned to staff to draw up the required ordinance. And finally, the Commission considered a Zoning Amendment Ordinance revising the City's Landscape Water Conservation standards to comply with recent changes in state law. Commissioner Gall was absent from this meeting however all items passed.

- (b) Trails and Landscaping Committee – No meeting held.

- (c) City Manager/Staff –

City Manager Napper advised there has been recent communication from County Clerk-Recorder Elections Department regarding its certification of the November 2016 Presidential Election and local elections. As the ballot is larger and more complex, the canvassing process is expected to take longer delaying the Contra Costa County Board of Supervisors approval of the canvas of results to December 13th. Questions have since arisen if the Clayton City Council will need to delay its Re-organization Meeting. He noted late this afternoon City Clerk Janet Brown was notified that she could drive down to the County on December 6th to receive its canvas of local election results that the County Clerk is submitting that week to the Board of Supervisors for its approval the following week. The result is Clayton may still have its Re-organization meeting on December 6th.

The City Manager added that Mayor Geller indicated this earlier but as a confirmation: the Clayton City Council meetings are now live through web-streaming. As an alternative, videotape of City Council meetings is still available for viewing on playback Comcast TV, Channel 27, on Thursdays and Saturdays.

- (d) City Council - Reports from Council liaisons to Regional Committees, Commissions and Boards.

Vice Mayor Diaz attended the United Professional Firefighters 2nd Annual Charity Ball and Auction, the One Hundred Club of Contra Costa County's 32nd Annual Dinner, the Clayton Business and Community Association's General meeting, and the Contra Costa Fire Protection District's Open House.

Councilmember Pierce attended a Contra Costa Transportation Board meeting, the Associated Bay Area Governments Executive Board meeting, the Metropolitan Transportation Commission Transportation Awards Ceremony, the Metropolitan Transportation Commission meeting, she participated on an interview panel to hire a new Executive Director for Transportation Partnership and Cooperation (TRANSPAC),

attended a joint meeting of the Associated Bay Area Governments and Metropolitan Transportation Commission meeting, the Clayton Historical Society co-sponsored with Diamond Terrace a Halloween Party and she announced the Annual Christmas Homes Tour takes place on December 11, 2016.

Councilmember Haydon attended the Clayton Library Foundation's monthly meeting, the Contra Costa Habitat Conservancy meeting, Clayton's Budget/Audit Committee Meeting to review the FY 2015-16 Audited Financial Statements of the City, the Clayton Business and Community Association's Oktoberfest wrap-up meeting, and a Clayton Bocce Clinic for new players.

Councilmember Shuey thanked the community for the tremendous support it has given his family during a difficult personal family matter.

Mayor Geller attended a Contra Costa County Office of Education meeting, the Clayton Business and Community Association's general membership meeting, and Clayton's Budget/Audit Committee Meeting to review the FY 2015-16 Audited Financial Statements of the City. He also announced "Christmas for Everyone" is accepting donations and he has offered his home as a drop-off location for anyone wishing to donate.

(e) Other – Introduction of City Council candidates (present at the meeting)

Mayor Geller invited candidates in attendance to share a few comments, if they wished.

Allen Lampo provided a brief history of his volunteerism throughout the community and local organizations within the community and his desire to do more. Mr. Lampo feels that it is time for a fresh perspective and new blood to the City Council. The last time he ran was eight years ago when the downtown was in development. Mr. Lampo suggested that Clayton take a lesson from Concord by creating a committee partnered with the CBCA that would help new businesses on how to get started with licenses, permits, and put out the word that we provide this service. Secondly, he has been in contact with the Contra Costa Association of Realtors and would like to recruit them for phase two of his plan to entice established small businesses to open smaller locations in Clayton, by looking into tax incentives for their first year and building to their specifications. Lastly, as Howard Geller has spearheaded the Concerts in The Grove series, and given his previous nightclub experience and entertainment contacts, Mr. Lampo believes this is something he can take over.

Jim Diaz advised this is a very interesting and exciting time for the candidates that are seeking office on the Clayton City Council. All of the candidates running participated at the Editorial Board for the *East Bay Times* with a rather vigorous inquiry into our qualifications, our experience, and what we plan to bring to the City Council if elected. He felt everyone did a very good job in responding to the Editorial Board and is looking forward to the campaign winding down.

Julie Pierce advised she has served with the City of Clayton for quite some time and has been instrumental in many of the improvements that have taken place in the City along with the struggles that we have gone through to get to where we are. She was part of the fundraising effort to build the Clayton Community Gym which took 6 years to raise the money and qualify for grants. As part of the Oakhurst Development she helped design Clayton Community Park. Ms. Pierce also advised she has worked with both Howard and Jim on the Concerts in The Grove series attending every concert trying to obtain donations to ensure these events are not a City expense. She has worked hard to attract community businesses, however Clayton does not have the resources to give tax incentives, has worked with some of the top professional commercial real estate firms in the region already, and unfortunately Clayton does not have the demographics to meet

the location needs of larger retailers. We are working on having a vibrant downtown that can accommodate the preferred low-traffic downtown area. Ms. Pierce indicated she is active with the Clayton Historical Society, CBCA, and Boy Scouts. Ms. Pierce advised she is much honored to receive an official endorsement by the *East Bay Times* and she would appreciate one's vote by next Tuesday.

Mayor Geller advised that he plans to continue to bring the Concert in The Grove series even when he is not on the City Council but is always looking for volunteers to help out.

6. **PUBLIC COMMENT ON NON - AGENDA ITEMS** – None.

7. **PUBLIC HEARINGS** – None.

8. **ACTION ITEMS**

- (a) Consider the adoption of an interim Urgency Ordinance No. 469 placing a local moratorium on the operation or establishment of parolee homes and community supervision programs within the city of Clayton.

Community Development Director Mindy Gentry provided a summary of the staff report advising this item arises from the Public Safety Realignment Act (AB109) from October 2011. The County Realignment Plan called for the establishment of community programs for employment support and placement services, mentoring and family reunification services, short and long-term housing access, and civil legal services. These services are currently not defined within the Clayton Municipal Code; some services could be characterized as Professional Office which would then be permitted by right in the Limited Commercial District and allowable on a second story in the Town Center Specific Plan.

An inquiry was recently made regarding the City's regulations for establishing residences for parolees that have been previously incarcerated. An adoption of a local moratorium would prohibit Community Supervision Program uses and parolee homes in Clayton for 45 days. It is foreseen that further time extension will be needed for staff to complete its analysis of the land use situation and then draft its proposed ordinance for a Planning Commission hearing and ultimate recommendation to the City Council.

Mayor Geller opened the floor to receive public comment; no public comments were offered.

It was moved by Councilmember Pierce, seconded by Councilmember Shuey, to have the City Clerk read Urgency Ordinance No. 469, by title and number only and waive further reading. (Passed; 5-0 vote).

The City Clerk read Ordinance No. 469 by title and number only.

It was moved by Councilmember Pierce, seconded by Councilmember Shuey, to approve Urgency Ordinance No. 469 for Introduction with findings the Ordinance is not subject to the California Environmental Quality Act because this activity is not considered to be a project and it can be seen with certainty that it will not have a significant effect or physical change to the environment. (Passed 5-0 vote).

- (b) Presentation and approval of the City's audited Comprehensive Annual Financial Report (CAFR) for Fiscal Year 2015-2016 by Cropper Accountancy Corporation, independent Certified Public Accountant firm, and concept direction regarding the disposition of FY 2015-16 General Fund excess monies (\$204,902).

Finance Manager Kevin Mizuno advised this is the first time in City financial history that staff has fully taken charge of the financial statement compilation, which role allows the auditors to focus its efforts on the audit procedures and documentation. The City will submit its first-ever Comprehensive Annual Financial Report (CAFR) to the Government Finance Officers Association, once approved by the City Council. If our CAFR passes certification, the City will be awarded a "Certificate of Achievement for Excellence in Financial Reporting" awarded to agencies going beyond Generally Accepted Accounting Principles. Mr. Mizuno noted Cropper Accountancy Corporation has issued an "unmodified opinion" on the City of Clayton's financial statements for the fiscal year ended June 30, 2016, which means the same as a "clean audit report." Mr. Mizuno introduced John Cropper partner of Cropper Accountancy to present the analysis of its review.

Mr. Cropper thanked the City Council and also introduced Bryce Rojas who assisted as senior lead on the analysis of Clayton's financial statements. Mr. Cropper presented a brief slideshow noting an increase in the Government Wide Net Position of \$431,000, reflecting the full economic health of the City. Mr. Cropper noted the General Fund Balance is strong with annual revenues exceeding annual expenditures by \$377,366 in FY16. Mr. Cropper advised the Statement on Auditing Standards (SAS) 114 auditors communication is a required letter and the Statement on Auditing Standards (SAS) 115 communicates observations on internal control related matters and is often referred to as a management letter. With any audit there are suggestions for improvement but it is nothing serious and serves the purpose to make the entity aware of the issues. Overall, Mr. Cropper noted the Council should be very pleased with its financial status and accounting practices.

Mayor Geller opened the floor to receive public comment; no public comments were offered.

City Manager Napper added there is a secondary related item regarding City Council consideration of allocating the \$205,000 in annual General Fund excess to address certain unmet needs of the City. He referred the City Council to Attachment 4 in the staff report for options for consideration. Should the City Council be so inclined, Mr. Napper recommended this staff list and other items proposed by the City Council could be agendized for a future meeting.

It was moved by Councilmember Haydon, seconded by Councilmember Pierce, to accept the "unmodified opinion" issued by the independent auditors on the City of Clayton's Comprehensive Annual Financial Report for the fiscal year ended June 30, 2016, and instruct staff to place the disposition of the FY16 \$205,000 General Fund excess on a future City Council agenda for consideration. (Passed 5-0 vote).

- (c) Consideration of a proposal by Clayton Valley Little League to permanently install a fixed outfield baseball fence on Sports Field No. 3 at Clayton Community Park, and discussion of the need and funds to renovate the 1992-installed turf playing field and/or all fields at Clayton Community Park (Fields 1-4).

Maintenance Supervisor John Johnston advised the City received a proposal from Clayton Valley Little League (CVLL) requesting joint installation of a permanent fence and location of a storage container at Clayton Community Park on Field 3. In addition, CVLL would also like to build a permanent pitching mound on the same field. Maintenance staff has reviewed the proposal and noted an 8-foot high fence is preferred as a safety component, and it needs the accompanying installations of a minimum 12-inch wide housekeeping strip located under the fence line, a ten foot wide permanent warning track for player safety, and preferably a storage container that matches all other existing buildings or structures located within the public park. Staff cautioned the installation of a permanent fence will limit the use of this field for other sports, impact the existing irrigation system layout and effectiveness, increase field maintenance, and impact other field uses and user groups. Mr. Johnston noted that without a conceptual design it is difficult to come up with cost estimates and the integration into the complete public park proposal. To maximize the public discussion of this item, staff invited representatives from Mt. Diablo Soccer Association (MDSA) and All Out Sports League (AOSL) to also provide input on CVLL's proposal and how it may impact their programs.

City Manager Napper added since this item was being brought here for discussion it was determined to open up further discussion on the broader view of the current condition of Clayton Community Park which was installed in 1992. It is recognized that chasing water leaks has disrupted the playing surface of all fields and natural wildlife creating holes that kids could fall into while playing soccer, which field condition has recently resulted in the Soccer Association not using or renting our fields any longer. Rental revenue collected has significantly declined due to the conditions of the fields, the extended drought made them further unsafe and as a result some sports organizations have found alternate play locations. Staff put together in Section 2 of the Report a range of ideas to renovate all playing fields and associated park irrigation systems.

Councilmember Shuey inquired why the preference of any 8' fence versus a 6' fence? Mr. Johnston advised an 8' fence is preferred for the safety of the kids that will be running into it or trying to jump up to catch a fly ball.

Councilmember Shuey asked if staff had any further updates as to installation and maintenance costs of artificial turf? Mr. Johnston advised installation of artificial turf would require a complete regrading, landscaping, irrigation system, design and blueprints. He has also heard the lifespan of artificial turf has shortened to approximately 8 years and it requires its own maintenance plan to include brooming and watering it down.

Councilmember Haydon inquired if there are currently any adult teams using the fields? Casey Copeland, President of All Out Sports League, advised his organization is currently using Field 2 for softball in the spring, summer and fall; occasionally for a tournament they may use an additional field. Mr. Copeland also advised some kids have stopped playing on the fields due to the number of potholes and poor turf conditions.

Councilmember Shuey advised he had a conversation with Jeremy Amos, President of Mt. Diablo Soccer League, prior to this meeting noting that soccer has a real issue with player and referee safety on all fields at Clayton Community Park, and have since found other fields to use. Mr. Amos indicated to Mr. Shuey with the combination of the safety of the fields, ground squirrel issues and field costs, it has been problematic for the league.

Kevin Dern, President of Clayton Valley Little League advised that he advocating this proposal to return Clayton Community Park Field 3 to what it once was. The last few years CVLL has struggled with its fields, and is looking to find its home fields. The current condition of the fields is in despair, where a lot of safety hazards have occurred. As a non-profit they do not have a lot of funds and that is why they are seeking out a partnership with the City for field improvements. Currently the League is unable to host any tournaments, play-offs or all-stars due to the condition and design of the fields.

Councilmember Shuey inquired on the additional request from the League for the installation of a permanent pitching mound on Field 3: would it be feasible to still use the portable mound so the field could still be used for softball? Mr. Dern reluctantly replied "yes."

Councilmember Haydon inquired on the use of a temporary fence? Mr. Dern advised CVLL currently has a temporary fence it is using which needs to be put up and taken down each time it is needed and then stored. Parents are tired of having to do this each and every game.

Mayor Geller would like to have CVLL work with Clayton Maintenance staff to determine costs and on-going maintenance and irrigation costs with this item brought back to the Council for consideration. Councilmember Haydon wondered if the renovations to Clayton Community Park could be done in phases? Mayor Geller also made a suggestion that CVLL consider putting in a donation request to the Clayton Business and Community Association as this project could help a lot of kids for years to come.

Aaron Paez, long time Clayton resident and new CVLL Board Member, advised there is a business side to this proposal as it has the potential of bringing approximately 1,400 people to the City between April and June during that time frame, with Saturdays hosting 18 to 22 games in the City area. This could bring more business to the local restaurants as typically after a game teams will get together and have some pizza or hamburgers to reward the kids.

City Manager Napper commented the community dialogue presented this evening is encouraging; Clayton Community Park is not in its present condition based on a lack of desire however, and the park's annual maintenance costs are approximately \$187,000 while annual rental revenues are approximately \$44,000 for the entire park, including picnic rentals. The operational gap is subsidized by the General Fund, whereas in contrast The Grove Park more successfully maintained as it has a non-competing revenue source dedicated to its operation and maintenance. He noted some surrounding cities, such as Pleasant Hill, have a Recreation District which is a community facilities funded by a separate parcel tax. Approximately \$24,000 of the revenues collected last fiscal year for rentals at Clayton Community Park came from CVLL's play.

Councilmember Pierce thanked Clayton Valley Little League for bringing this issue up as it is a good opener for what needs to be done at Clayton Community Park and could possibly satisfy other community needs such as a BMX or skate park. Ms. Pierce would also like to be sure that any modifications to the park be kept safe and in playable condition, and if it is proper to fence off part of this field, limiting its use of other organizations or the public to use that area, the City needs to improve the other areas of the park too.

Mr. Napper commented he appreciated the fact that Clayton Valley Little League approached the City with this proposal but at a minimum merely installing a fence would not be sufficient without the necessary warning track and underlying concrete mow strip. Mr. Johnston noted he just received a proposal from Pacheco Bros. Landscape to renovate all four fields with what is necessary, without irrigation system improvements or and permanent baseball mound, and it would be approximately \$120,000.

Mr. Johnston added the proposal from Pacheco Bros. includes removing the weeds, leveling out the fields, seed, and fertilize. This renovation would need to be done several years in a row, at approximately \$120,000.00 per year, to keep them maintained; the City's general maintenance and staffing level cannot provide a higher level of field care and certainly does not address possible extended drought conditions, lack of irrigation, or ground squirrel prevention measures. He added Field 3's irrigation system must undergo a re-design to properly address the impacts of a permanent fence.

City Manager Napper asked is the City Council willing to allow this field to go to baseball by installing a permanent fence? If that is the desired policy direction, staff will work with Clayton Valley Little League and bring this item back to the Council with refinement of associated costs.

Councilmember Pierce requested additional community outreach to let the community know the City Council is considering a proposed change to Clayton Community Park and encourages additional community input.

- (d) Continued consideration of Mayor Geller's request for the City to initiate a feasibility study for construction of a second public restroom in the Clayton Town Center area.

Mayor Geller advised this item was continued as the Council was not at full capacity at the last meeting when this item was presented and wanted to seek everyone's input.

Councilmember Pierce advised there is not enough information to make a decision on this item. Ms. Pierce performed her own online research and learned the cost of a public restroom could be anywhere from \$200,000 to \$400,000 for a pre-fabricated facility that would be nearly identical to what is at The Grove Park. She also looked into how to determine the size of a facility to meet crowd needs of 3,000 to 10,000 and the added restroom size being contemplated would not meet those types of needs. Ms. Pierce would like staff to do further research before the Council goes any further on this item and prioritizes this as a capital improvement need of the City for 22 days per year.

Mayor Geller would like this consideration returned to staff for its input on where additional restrooms could be located including the on-going maintenance costs. Mayor Geller thinks if there is a real restroom facility across the street from the park, not portable toilets, it would be utilized by the concert crowds and reduce the times people are waiting in line to use the existing park facility. Another suggestion is to go in conjunction with the builder of the commercial strip near the Clayton Historical Society to serve the public needs.

Councilmember Haydon confirmed he thinks it is worth the time for staff to investigate and determine a location of an additional restroom in the downtown.

Councilmember Shuey inquired on how much staff time would be needed as he does not want staff to spend tremendous amounts of time on something if, from a stand point of a policy decision, it is determined that it is not needed. Councilmember Shuey also noted that for larger events such as the Labor Day Derby, Oktoberfest, Art and Wine, port-a-potties will still be needed to accommodate the large attendance at these events. Councilmember Shuey asked if an additional restroom was placed in the Black Diamond Corral across the street from the park, would that be considered a part of "The Grove Park" for funds?

City Manager Napper advised his initial reaction is "No," the Corral would not fall under "The Grove Park" and would be hard pressed to make such a nexus to that special

parcel tax funding; a restroom outside The Grove Park must seek other means of funding. He noted the existing public restrooms accommodate the typical needs of the public at The Grove Park; it is the special events which cause the problems. If restrooms were constructed at the Black Diamond Corral, the cost and maintenance would likely come from the General Fund.

City Manager Napper requested the Council be specific on the type of research it wishes staff to conduct: expanding the existing park restroom, duplicating the existing restroom there or at another location in downtown. Council member Pierce responded she would like staff to take a quick look at doubling the capacity of the existing restroom at The Grove Park on the same site.

Mayor Geller opened the floor to receive public comment; no public comments were offered. The matter was referred to staff for preliminary research as requested.

9. **COUNCIL ITEMS** – None.

10. **RECESS THE CITY COUNCIL MEETING**

Mayor Geller recessed the City Council meeting [at 9:41p.m.] until after the conclusion of the Clayton Finance Authority meeting.

11. **RECONVENE THE CITY COUNCIL MEETING**

Mayor Geller reconvened the City Council meeting [at 9:43 p.m.].

12. **CLOSED SESSION**

Mayor Geller announced the City Council will adjourn to a closed session to discuss the subject matters listed below [9:43 p.m.]:

- (a) *Government Code Section 54957*
Public Employee Annual Performance Evaluation
Position Title: City Manager
- (b) *Government Code Section 54957.6*
Conference with Labor Negotiators
Agency designated representatives: Mayor Geller, Vice Mayor Diaz
Unrepresented employee: City Manager

Report out from Closed Session (11:16 p.m.)

Mayor Geller reported the City Council directed its negotiators regarding these matters but no reportable action was taken.

13. **ADJOURNMENT**– on call by Mayor Geller, the City Council adjourned its meeting at 11:17 p.m.

The next regularly scheduled meeting of the City Council will be November 1, 2016.

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Respectfully submitted,

Janet Brown, City Clerk

APPROVED BY THE CLAYTON CITY COUNCIL

Howard Geller, Mayor

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Agenda Date 11/15/2016

Agenda Item: 3b

STAFF REPORT

Approved 
Gary A. Napper
City Manager

TO: HONORABLE MAYOR AND COUNCILMEMBERS
FROM: Kevin Mizuno, FINANCE MANAGER
DATE: 11/15/16
SUBJECT: INVOICE SUMMARY

RECOMMENDATION:

Approve the following Invoices:

11/09/2016	Cash Requirements	\$ 208,417.75
11/08/2016	ADP Payroll week 45, PPE 11/06/2016	\$ 97,360.87

Total \$305,778.62

Attachments:

Cash Requirements Report dated 11/9/2016 (5 pages)
ADP payroll report for week 45 (1 page)

City of Clayton Cash Requirements Report

Vendor Name	Due Date	Invoice Date	Invoice Number	Invoice Description	Invoice Balance	Potential Discount	Discount Expires On	Net Amount Due
ADP, LLC								
ADP, LLC	11/15/2016	11/15/2016	482345842	Payroll fees PPE 10/23/16	\$152.11	\$0.00		\$152.11
				<i>Totals for ADP, LLC:</i>	<i>\$152.11</i>	<i>\$0.00</i>		<i>\$152.11</i>
All City Management Services, Inc.								
All City Management Services, Inc.	11/15/2016	11/15/2016	45479	School crossing guard services 10/9/16-10/22/16	\$458.19	\$0.00		\$458.19
				<i>Totals for All City Management Services, Inc.:</i>	<i>\$458.19</i>	<i>\$0.00</i>		<i>\$458.19</i>
AT&T (CalNet3)								
AT&T (CalNet3)	11/15/2016	11/15/2016	8770502	Phone 9/22/16-10/21/16	\$1,593.44	\$0.00		\$1,593.44
				<i>Totals for AT&T (CalNet3):</i>	<i>\$1,593.44</i>	<i>\$0.00</i>		<i>\$1,593.44</i>
Bay Area Barricade Serv.								
Bay Area Barricade Serv.	11/15/2016	11/15/2016	0335515-IN	Metal Signs for City trails	\$396.84	\$0.00		\$396.84
				<i>Totals for Bay Area Barricade Serv.:</i>	<i>\$396.84</i>	<i>\$0.00</i>		<i>\$396.84</i>
Bay Area News Group East Bay (CCT)								
Bay Area News Group East Bay (CCT)	11/15/2016	11/15/2016	1006266	October Legal Ads	\$602.00	\$0.00		\$602.00
				<i>Totals for Bay Area News Group East Bay (CCT):</i>	<i>\$602.00</i>	<i>\$0.00</i>		<i>\$602.00</i>
Big O Tires								
Big O Tires	11/15/2016	11/15/2016	5011-120154	New tire, Car #1734	\$345.19	\$0.00		\$345.19
				<i>Totals for Big O Tires:</i>	<i>\$345.19</i>	<i>\$0.00</i>		<i>\$345.19</i>
CalPERS Retirement								
CalPERS Retirement	11/15/2016	11/15/2016	110616	Retirement PPE 11/6/16	\$13,800.29	\$0.00		\$13,800.29
CalPERS Retirement	11/15/2016	11/15/2016	November UAL	November 2016 UAL	\$31,062.09	\$0.00		\$31,062.09
				<i>Totals for CalPERS Retirement:</i>	<i>\$44,862.38</i>	<i>\$0.00</i>		<i>\$44,862.38</i>
Caltronics Business Systems, Inc								
Caltronics Business Systems, Inc	11/15/2016	11/15/2016	2124952	Copier contract 9/17/16-10/16/16	\$281.49	\$0.00		\$281.49
				<i>Totals for Caltronics Business Systems, Inc:</i>	<i>\$281.49</i>	<i>\$0.00</i>		<i>\$281.49</i>
CBCA								
CBCA	11/15/2016	11/15/2016	OKT2016	Oktoberfest 2016, refund, ABC grant	\$2,249.84	\$0.00		\$2,249.84
CBCA	11/15/2016	11/15/2016	RC2016	Refund, overpayment for Rib Cook Off expen	\$330.16	\$0.00		\$330.16
				<i>Totals for CBCA:</i>	<i>\$2,580.00</i>	<i>\$0.00</i>		<i>\$2,580.00</i>
CCWD								
CCWD	11/15/2016	11/15/2016	E Series	Water service 9/3/16-11/2/16	\$33,134.67	\$0.00		\$33,134.67
				<i>Totals for CCWD:</i>	<i>\$33,134.67</i>	<i>\$0.00</i>		<i>\$33,134.67</i>
City of Concord								
City of Concord	11/15/2016	11/15/2016	711	Service to car # 1734	\$784.87	\$0.00		\$784.87
City of Concord	11/15/2016	11/15/2016	54920	October Dispatch services	\$20,089.50	\$0.00		\$20,089.50
				<i>Totals for City of Concord:</i>	<i>\$20,874.37</i>	<i>\$0.00</i>		<i>\$20,874.37</i>

City of Clayton Cash Requirements Report

Vendor Name	Due Date	Invoice Date	Invoice Number	Invoice Description	Invoice Balance	Potential Discount	Discount Expires On	Net Amount Due
Comcast								
Comcast	11/15/2016	11/15/2016	110516	Internet 11/10/16-12/09/16	\$236.12	\$0.00		\$236.12
Comcast	11/15/2016	11/15/2016	100516	Internet 10/10/16-11/09/16	\$236.12	\$0.00		\$236.12
Comcast	11/15/2016	11/15/2016	060516	Internet 6/10/16-7/09/16	\$236.12	\$0.00		\$236.12
<i>Totals for Comcast:</i>					<u>\$708.36</u>	<u>\$0.00</u>		<u>\$708.36</u>
Conco								
Conco	11/15/2016	11/15/2016	CAP0224	Deposit refund for 251 Roundhill Dr	\$452.27	\$0.00		\$452.27
<i>Totals for Conco:</i>					<u>\$452.27</u>	<u>\$0.00</u>		<u>\$452.27</u>
Concord Garden Equipment								
Concord Garden Equipment	11/15/2016	11/15/2016	533770	Diagnosis of Stihl-FS90R - motor locked up	\$57.00	\$0.00		\$57.00
Concord Garden Equipment	11/15/2016	11/15/2016	533769	New spark plug, chain Stihl MS251	\$15.00	\$0.00		\$15.00
Concord Garden Equipment	11/15/2016	11/15/2016	533771	Trimmer line, grease, saw, trimmer	\$648.31	\$0.00		\$648.31
<i>Totals for Concord Garden Equipment:</i>					<u>\$720.31</u>	<u>\$0.00</u>		<u>\$720.31</u>
Contra Costa County Mayors' Conference								
Contra Costa County Mayors' Conferenc	11/15/2016	11/15/2016	MC2017	Annual Assessment for Mayors' Conference, 2	\$1,596.00	\$0.00		\$1,596.00
<i>Totals for Contra Costa County Mayors' Conference:</i>					<u>\$1,596.00</u>	<u>\$0.00</u>		<u>\$1,596.00</u>
Contra Costa County Office of the Sheriff (Training)								
Contra Costa County Office of the Sheri	11/15/2016	11/15/2016	16-20032	Arrest & Control Class - Borman, England, Mi	\$264.00	\$0.00		\$264.00
<i>Totals for Contra Costa County Office of the Sheriff (Training):</i>					<u>\$264.00</u>	<u>\$0.00</u>		<u>\$264.00</u>
Contra Costa Topsoil								
Contra Costa Topsoil	11/15/2016	11/15/2016	126405	10 Yards of Sand for Endeavor Hall	\$531.65	\$0.00		\$531.65
<i>Totals for Contra Costa Topsoil:</i>					<u>\$531.65</u>	<u>\$0.00</u>		<u>\$531.65</u>
CR Fireline, Inc								
CR Fireline, Inc	11/15/2016	11/15/2016	106920	Title 19 Inspection EH	\$1,360.00	\$0.00		\$1,360.00
CR Fireline, Inc	11/15/2016	11/15/2016	106918	Title 19 Inspection Library	\$1,360.00	\$0.00		\$1,360.00
CR Fireline, Inc	11/15/2016	11/15/2016	106919	Title 19 inspection City Hall	\$1,360.00	\$0.00		\$1,360.00
<i>Totals for CR Fireline, Inc:</i>					<u>\$4,080.00</u>	<u>\$0.00</u>		<u>\$4,080.00</u>
Crop Production Svcs								
Crop Production Svcs	11/15/2016	11/15/2016	31340494	Landscape Chemicals	\$3,856.63	\$0.00		\$3,856.63
<i>Totals for Crop Production Svcs:</i>					<u>\$3,856.63</u>	<u>\$0.00</u>		<u>\$3,856.63</u>
Cropper Accountancy Corp								
Cropper Accountancy Corp	11/15/2016	11/15/2016	1231	CFA Financials FY 16	\$2,100.00	\$0.00		\$2,100.00
<i>Totals for Cropper Accountancy Corp:</i>					<u>\$2,100.00</u>	<u>\$0.00</u>		<u>\$2,100.00</u>
Devil Mountain Wholesale Nursery								
Devil Mountain Wholesale Nursery	11/15/2016	11/15/2016	708589	Landscape Flora	\$1,179.45	\$0.00		\$1,179.45
Devil Mountain Wholesale Nursery	11/15/2016	11/15/2016	711372	Landscape Flora	\$277.49	\$0.00		\$277.49
<i>Totals for Devil Mountain Wholesale Nursery:</i>					<u>\$1,456.94</u>	<u>\$0.00</u>		<u>\$1,456.94</u>

City of Clayton Cash Requirements Report

Vendor Name	Due Date	Invoice Date	Invoice Number	Invoice Description	Invoice Balance	Potential Discount	Discount Expires On	Net Amount Due
Diablo Lawnscape								
Diablo Lawnscape	11/15/2016	11/15/2016	12806	Re-landscape Peacock Creek entrance, around	\$11,094.82	\$0.00		\$11,094.82
				<i>Totals for Diablo Lawnscape:</i>	<i>\$11,094.82</i>	<i>\$0.00</i>		<i>\$11,094.82</i>
Diablo View Cleaning								
Diablo View Cleaning	11/15/2016	11/15/2016	22304	Carpet cleaning for Hoyer hall and Library en	\$350.00	\$0.00		\$350.00
				<i>Totals for Diablo View Cleaning:</i>	<i>\$350.00</i>	<i>\$0.00</i>		<i>\$350.00</i>
Digital Services								
Digital Services	11/15/2016	11/15/2016	10867	IT services 10/1/16-11/5/16	\$5,386.79	\$0.00		\$5,386.79
				<i>Totals for Digital Services:</i>	<i>\$5,386.79</i>	<i>\$0.00</i>		<i>\$5,386.79</i>
Eagle Business Forms, Inc								
Eagle Business Forms, Inc	11/15/2016	11/15/2016	12413	Printing, Notice of Correction	\$176.31	\$0.00		\$176.31
				<i>Totals for Eagle Business Forms, Inc:</i>	<i>\$176.31</i>	<i>\$0.00</i>		<i>\$176.31</i>
East Bay Rgn Comm System Auth								
East Bay Rgn Comm System Auth	11/15/2016	11/15/2016	201700010	Operations payments 7/1/16-6/30/17	\$11,400.00	\$0.00		\$11,400.00
				<i>Totals for East Bay Rgn Comm System Auth:</i>	<i>\$11,400.00</i>	<i>\$0.00</i>		<i>\$11,400.00</i>
Globalstar LLC								
Globalstar LLC	11/15/2016	11/15/2016	7761330	Sat Phone 9/16/16-10/15/16	\$61.58	\$0.00		\$61.58
				<i>Totals for Globalstar LLC:</i>	<i>\$61.58</i>	<i>\$0.00</i>		<i>\$61.58</i>
Hammons Supply Company								
Hammons Supply Company	11/15/2016	11/15/2016	95579	City Hall Janitorial supplies	\$947.90	\$0.00		\$947.90
Hammons Supply Company	11/15/2016	11/15/2016	95577	The Grove Janitorial supplies	\$183.32	\$0.00		\$183.32
Hammons Supply Company	11/15/2016	11/15/2016	95578	Library Janitorial supplies	\$152.72	\$0.00		\$152.72
				<i>Totals for Hammons Supply Company:</i>	<i>\$1,283.94</i>	<i>\$0.00</i>		<i>\$1,283.94</i>
J&R Floor Services								
J&R Floor Services	11/15/2016	11/15/2016	Ten 2016	October Janitorial services	\$4,910.00	\$0.00		\$4,910.00
				<i>Totals for J&R Floor Services:</i>	<i>\$4,910.00</i>	<i>\$0.00</i>		<i>\$4,910.00</i>
LarryLogic Productions								
LarryLogic Productions	11/15/2016	11/15/2016	1615	City Council Meeting Production 11/1/16	\$375.00	\$0.00		\$375.00
				<i>Totals for LarryLogic Productions:</i>	<i>\$375.00</i>	<i>\$0.00</i>		<i>\$375.00</i>
Lexipol LLC								
Lexipol LLC	11/15/2016	11/15/2016	18422	24/7 Access to Knowledge Management Sys 1	\$2,750.00	\$0.00		\$2,750.00
				<i>Totals for Lexipol LLC:</i>	<i>\$2,750.00</i>	<i>\$0.00</i>		<i>\$2,750.00</i>
Marken Mechanical Services Inc								
Marken Mechanical Services Inc	11/15/2016	11/15/2016	3105	July Library HVAC equipment maintenance	\$502.17	\$0.00		\$502.17
				<i>Totals for Marken Mechanical Services Inc:</i>	<i>\$502.17</i>	<i>\$0.00</i>		<i>\$502.17</i>
Pacific Telemangement Svc								

City of Clayton Cash Requirements Report

Vendor Name	Due Date	Invoice Date	Invoice Number	Invoice Description	Invoice Balance	Potential Discount	Discount Expires On	Net Amount Due
Pacific Telemanagement Svc	11/15/2016	11/15/2016	877045	November Courtyard Payphone	\$73.00	\$0.00		\$73.00
				<i>Totals for Pacific Telemanagement Svc:</i>	<u>\$73.00</u>	<u>\$0.00</u>		<u>\$73.00</u>
PERMCO, Inc.								
PERMCO, Inc.	11/15/2016	11/15/2016	10654	General Engineering services 10/22/16-11/4/1	\$3,767.00	\$0.00		\$3,767.00
PERMCO, Inc.	11/15/2016	11/15/2016	10655	Stormwater, annual report info for Laura	\$366.00	\$0.00		\$366.00
PERMCO, Inc.	11/15/2016	11/15/2016	10656	CAP Inspections 10/22/16-11/4/16	\$41.50	\$0.00		\$41.50
PERMCO, Inc.	11/15/2016	11/15/2016	10657	Prep final plans, bidding proc, inspection Arte	\$2,752.50	\$0.00		\$2,752.50
				<i>Totals for PERMCO, Inc.:</i>	<u>\$6,927.00</u>	<u>\$0.00</u>		<u>\$6,927.00</u>
Pinnacle Construction Services, Inc								
Pinnacle Construction Services, Inc	11/15/2016	11/15/2016	3649	November Diablo Estates Management	\$4,375.00	\$0.00		\$4,375.00
				<i>Totals for Pinnacle Construction Services, Inc:</i>	<u>\$4,375.00</u>	<u>\$0.00</u>		<u>\$4,375.00</u>
Priority Payment Systems (Merchant Bankcard System)								
Priority Payment Systems (Merchant Bar	11/15/2016	11/15/2016	October	October 2016 Bankcard Fees	\$186.79	\$0.00		\$186.79
				<i>Totals for Priority Payment Systems (Merchant Bankcard System):</i>	<u>\$186.79</u>	<u>\$0.00</u>		<u>\$186.79</u>
Raney Planning & Management, Inc.								
Raney Planning & Management, Inc.	11/15/2016	11/15/2016	1607E-6	September labor, Revise AD IS, Prep public r	\$2,200.00	\$0.00		\$2,200.00
				<i>Totals for Raney Planning & Management, Inc.:</i>	<u>\$2,200.00</u>	<u>\$0.00</u>		<u>\$2,200.00</u>
Rex Lock & Safe, Inc.								
Rex Lock & Safe, Inc.	11/15/2016	11/15/2016	114097	Y11 Keys	\$6.00	\$0.00		\$6.00
				<i>Totals for Rex Lock & Safe, Inc.:</i>	<u>\$6.00</u>	<u>\$0.00</u>		<u>\$6.00</u>
SPRAYTEC								
SPRAYTEC	11/15/2016	11/15/2016	13915	August Monthly maintenance, waste water tr	\$225.00	\$0.00		\$225.00
SPRAYTEC	11/15/2016	11/15/2016	13914	July Monthly maintenance, waste water treat	\$225.00	\$0.00		\$225.00
				<i>Totals for SPRAYTEC:</i>	<u>\$450.00</u>	<u>\$0.00</u>		<u>\$450.00</u>
Sprint Comm (PD)								
Sprint Comm (PD)	11/15/2016	11/15/2016	703335311-179	Cell service 9/26/16/10/25/16	\$275.30	\$0.00		\$275.30
				<i>Totals for Sprint Comm (PD):</i>	<u>\$275.30</u>	<u>\$0.00</u>		<u>\$275.30</u>
Staples Advantage								
Staples Advantage	11/15/2016	11/15/2016	8041644238	September office supplies	\$71.50	\$0.00		\$71.50
				<i>Totals for Staples Advantage:</i>	<u>\$71.50</u>	<u>\$0.00</u>		<u>\$71.50</u>
Stericycle Inc								
Stericycle Inc	11/15/2016	11/15/2016	3003615273	October Steri-safe Service	\$96.07	\$0.00		\$96.07
				<i>Totals for Stericycle Inc:</i>	<u>\$96.07</u>	<u>\$0.00</u>		<u>\$96.07</u>
US Bank - Corp Pmt System CalCard								
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Safeway, Walk N Lunch	\$111.41	\$0.00		\$111.41
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Office Supplies	\$277.97	\$0.00		\$277.97
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Get well card Shelley Shuey	\$3.57	\$0.00		\$3.57

City of Clayton Cash Requirements Report

Vendor Name	Due Date	Invoice Date	Invoice Number	Invoice Description	Invoice Balance	Potential Discount	Discount Expires On	Net Amount Due
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Webinar for legislative update, CA League of	\$25.00	\$0.00		\$25.00
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Central Storage, rent	\$115.00	\$0.00		\$115.00
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Ink, Office supplies	\$169.90	\$0.00		\$169.90
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Misc Supplies	\$1,841.99	\$0.00		\$1,841.99
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Clean stove hood at Endeavor Hall	\$700.00	\$0.00		\$700.00
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Soil, Flowers at Endeavor Hall	\$95.61	\$0.00		\$95.61
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Landscaping supplies	\$570.15	\$0.00		\$570.15
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Window glass for F450	\$176.75	\$0.00		\$176.75
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	PAPA seminars, Mark & Sandro	\$200.00	\$0.00		\$200.00
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Sign bolts	\$6.54	\$0.00		\$6.54
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Fuel	\$662.61	\$0.00		\$662.61
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Landscape Fuel	\$1,578.17	\$0.00		\$1,578.17
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Keys, taser cartridges, pepper spray cannisters	\$886.44	\$0.00		\$886.44
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	5 tasers with associated equipment	\$5,912.33	\$0.00		\$5,912.33
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Office supplies	\$488.92	\$0.00		\$488.92
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Fuel	\$2,066.43	\$0.00		\$2,066.43
US Bank - Corp Pmt System CalCard	11/15/2016	11/15/2016	Stmt Ending 10/24/16	Car washes	\$73.91	\$0.00		\$73.91
<i>Totals for US Bank - Corp Pmt System CalCard:</i>					<i>\$15,962.70</i>	<i>\$0.00</i>		<i>\$15,962.70</i>
Waraner Brothers Tree Service								
Waraner Brothers Tree Service	11/15/2016	11/15/2016	13347	Tree work at CCP - stump grinding	\$450.00	\$0.00		\$450.00
Waraner Brothers Tree Service	11/15/2016	11/15/2016	13355	Tree work at The Grove, pruning	\$1,400.00	\$0.00		\$1,400.00
Waraner Brothers Tree Service	11/15/2016	11/15/2016	13343	Tree work @ Center St, remove fallen tree in c	\$1,600.00	\$0.00		\$1,600.00
Waraner Brothers Tree Service	11/15/2016	11/15/2016	13345	Tree work @ Jeffery Ranch Ct, pruning	\$750.00	\$0.00		\$750.00
Waraner Brothers Tree Service	11/15/2016	11/15/2016	13344	Tree work, Creek area @ Zinfandel, Lydia, De	\$1,600.00	\$0.00		\$1,600.00
Waraner Brothers Tree Service	11/15/2016	11/15/2016	13348	Crane work @ Oakhurst Dr- light pole install (\$1,300.00	\$0.00		\$1,300.00
Waraner Brothers Tree Service	11/15/2016	11/15/2016	13346	Tree work @ Keller house, creek trail	\$3,200.00	\$0.00		\$3,200.00
<i>Totals for Waraner Brothers Tree Service:</i>					<i>\$10,300.00</i>	<i>\$0.00</i>		<i>\$10,300.00</i>
Western Exterminator								
Western Exterminator	11/15/2016	11/15/2016	4560869	October Pest Control	\$385.50	\$0.00		\$385.50
<i>Totals for Western Exterminator:</i>					<i>\$385.50</i>	<i>\$0.00</i>		<i>\$385.50</i>
Workers.com								
Workers.com	11/15/2016	11/15/2016	117046	Seasonal workers week end 10/23/16	\$2,768.20	\$0.00		\$2,768.20
Workers.com	11/15/2016	11/15/2016	116976	Seasonal workers week end 10/16/16	\$4,439.35	\$0.00		\$4,439.35
Workers.com	11/15/2016	11/15/2016	117036	Seasonal workers week end 10/16/16	\$563.89	\$0.00		\$563.89
<i>Totals for Workers.com:</i>					<i>\$7,771.44</i>	<i>\$0.00</i>		<i>\$7,771.44</i>
GRAND TOTALS:					\$208,417.75	\$0.00		\$208,417.75

Earnings Statement

WEEKLY STATEMENT 05 PAYS
0 Employees With Overflow Statement
0 Overflow Statement 1 Total Statement
Tot Cks/Vchrs:00000000039 Tot Docs in all:00000000042
First No. Last No. Total
Checks: ADPCHECK ADPCHECK 00000000005
Vouchers: 00000450001 00000450034 00000000034

Z7L TOTAL DOCUMENT
CITY OF CLAYTON
LOCATION 0001

CHECK STUFFING, RECONCILIATION

97360.87 GROSS
69411.87 NET PAY (INCLUDING ALL DEPOSITS)
12796.65 FEDERAL TAX
98.52 SOCIAL SECURITY
1351.04 MEDICARE
.00 MEDICARE SURTAX
.00 SUI TAX
3693.13 STATE TAX
.00 LOCAL TAX
77121.76 DEDUCTIONS
2299.77 NET CHECK

COMPANY CODE Z7L
CITY OF CLAYTON
TOTAL DOCUMENT
LOCATION 0001

VERIFY DOCUMENT AUTHENTICITY - COLORED AREA MUST CHANGE IN TONE GRADUALLY AND EVENLY FROM DARK AT TOP TO LIGHTER AT BOTTOM

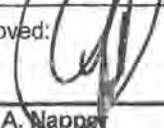
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THE ORIGINAL DOCUMENT HAS AN ARTIFICIAL WATERMARK ON THE BACK. HOLD AT AN ANGLE TO VIEW WHEN CHECKING THE ENDORSEMENT.

Agenda Date: 11-15-2016

Agenda Item: 3c



Approved: 

Gary A. Napper
City Manager

AGENDA REPORT

TO: HONORABLE MAYOR AND COUNCILMEMBERS

FROM: CITY MANAGER

DATE: 15 NOVEMBER 2016

SUBJECT: CANCELLATION OF THE JANUARY 3, 2017 COUNCIL MEETING

RECOMMENDATION

It is recommended the City Council, by minute motion, cancel its regular public meeting to be held on Tuesday, 03 January 2017.

BACKGROUND

Section 2.04.010 of the *Clayton Municipal Code* specifies that regular meetings of the Clayton City Council shall be held on the first and third Tuesdays of each and every month. Application of this Code section to the upcoming 2017 calendar means the first City Council meeting in January 2017 will fall on Tuesday, January 3rd following a long New Year's weekend.

Per Article 8 – Holidays and Leaves with the Miscellaneous Employees Group Unit, whenever a City-designated holiday occurs on a non-work day, that holiday leave is observed on the nearest regular work day. Application of that collective bargaining clause means City Hall will be closed on Mondays, December 26th and January 2nd due to Christmas Day and New Year's Day on Sundays, December 25th and January 1st, respectively. In addition, City Hall employees have unitedly requested/agreed to a non-forced closure of City Hall covering the balance of the work week from Tuesday, December 27th through Friday, December 30th in acknowledgement of a traditionally slow business week and personal holiday plans with the Christmas and New Year's holidays. Historically, an abundance of employee leave requests that holiday week usually results in only 1 or 2 employees actually present in City Hall, which staffing level severely limits our capacity to provide meaningful public services.

City Hall employees have agreed to voluntarily use accrued personal paid leave time (e.g. vacation, compensatory time off, etc.) to retain a regular paycheck during that entire week, a practice that aids in removing leave balances from employee accounts during an already-lesserened public contact work week. City Maintenance personnel have decided to work that week, however, and of course sworn police services do not close for City holidays.

This employee accommodation further means no City Hall employees will be available to prepare and post the Agenda Packet and accompanying staff reports for the Tuesday, January 3, 2017 regular City Council meeting. And finally, the cancellation of its January 3rd meeting also facilitates personal holiday and travel plans of any members of the Clayton City Council.

POTENTIAL JANUARY 3RD AGENDA ITEMS

In consideration of this recommendation staff examined its tracking list of potential items scheduled for placement on the January 3rd City Council meeting. At this time the only matter tracking for or requiring City Council attention is its receipt and acceptance of the Clayton Financing Authority's (CFA) Annual Report for the 2016 activities. According to the By-Laws of the CFA, its Annual Report for the preceding year is to be submitted and approved on the same date as the Clayton City Council's first regular meeting in January of each year. Therefore, should the City Council not hold its first regular meeting in January 2017 until January 17th, the CPA Annual Report is considered compliant action at that meeting.

In order to provide optimum notice of meeting cancellation to interested members of the public and to our community as well as to arrange scheduling of agenda matters for the January 17th City Council meeting, the matter has been placed on this Agenda for advance notice and action.

FISCAL IMPACT

There is no direct financial impact to the City for its cancellation of City Council meetings, except nominal savings of expenses incurred in the preparation, publication and holding of a Council meeting (e.g. staff time, paper and copying expenses, meeting room utilities, contractor video taping of the meeting for cable television replay). City Hall and its operations will reopen with normal business hours on Tuesday, January 3rd.

If necessity or an emergency arises between canceled meetings, a special Council meeting may always be called by the Mayor with proper notice to members of the City Council, the press, and with fully-required public postings of the Agenda.

**A RESOLUTION AWARDING A ONE-TIME DISCRETIONARY
PAY FOR PERFORMANCE TO THE CITY MANAGER**

**THE CITY COUNCIL
City of Clayton, California**

WHEREAS, since October 20, 2016, the City Council and City Manager have been in active discussions and negotiations regarding the City Manager's performance evaluation in 2016 and corresponding compensation; and

WHEREAS, the City Manager's employment contract provides that the City Council may acknowledge him for exceptional outcomes, effective teamwork and encourage continued high level performance through discretionary pay for performance rewards as set forth and as funded each year by the City; and

WHEREAS, in light of the City Manager's work performance during the last year, the City Council wishes to approve a one-time discretionary pay for job performance;

NOW, THEREFORE, BE IT RESOLVED that the City Council of Clayton, California does hereby find, determine and approve as follows:

Section 1. That the above Recitals are true and correct facts pertaining to an important matter of public policy to the City.

Section 2. To acknowledge the City Manager for exceptional outcomes, effective teamwork, and encourage continued high level performance, the City Manager is hereby awarded a one-time discretionary performance pay of \$10,000.00 to be paid in the first pay period of 2017.

Section 3. This Resolution shall and does take immediate effect from and after its passage and adoption.

PASSED, APPROVED AND ADOPTED by the City Council of the City of Clayton, California at a duly-noticed public meeting thereof held on the 15th day of November 2016 by the following recorded vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

THE CITY COUNCIL OF CLAYTON, CA

Howard Geller, Mayor

ATTEST:

Janet Brown, City Clerk

declaring
Thursday, November 17, 2016
as
"Laurie Parker Day"

WHEREAS, Laurie Parker has been a dedicated teacher for the past 22 years, inspiring students from kindergarten through eighth grade; and

WHEREAS, Mrs. Parker has brought her energy and commitment to her students to Diablo View Middle School for the past five years sharing her love of English and history; and

WHEREAS, Mrs. Parker instills in each of her students the confidence in their abilities and the will to succeed, encouraging and fostering a grit to never give up; and

WHEREAS, Mrs. Parker is a valued member of Diablo View faculty helping to build a positive school culture in "Doing The Right Thing"; and

WHEREAS, Mrs. Parker, through her achievements and extraordinary commitment to the teaching profession, has been recognized as a "Teacher of the Year" by the Warren W. Eukel Teacher Trust whose mission it is to foster excellence in education.

NOW, THEREFORE, I, Howard Geller, Mayor of the City of Clayton, California, on behalf of the entire Clayton City Council, do hereby declare our pride in Laurie Parker and commend her for her numerous contributions to teaching and inspiration to her students, and do hereby proclaim Thursday, November 17, 2016 as "Laurie Parker Day" in the City of Clayton, California.

Agenda Item: 4a

Agenda Item: 11-15-2016

XANDER FRIEDMAN
for
"Doing the Right Thing"
at
Diablo View Middle School
by exemplifying great "Respect"
October 2016

Agenda Date: 11-15-2016

Agenda Item: 4b

ALYSA PELOSI
for
"Doing the Right Thing"
at
Diablo View Middle School
by exemplifying great "Respect"
October 2016

VINCE PELOSI
for
"Doing the Right Thing"
at
Diablo View Middle School
by exemplifying great "Respect"
October 2016



Agenda Item: 7a

Approved:

Gary A. Narber
City Manager

STAFF REPORT

TO: HONORABLE MAYOR AND COUNCIL MEMBERS

FROM: MINDY GENTRY, COMMUNITY DEVELOPMENT DIRECTOR *MG*

DATE: NOVEMBER 15, 2016

SUBJECT: INTRODUCTION OF AN ORDINANCE AMENDING THE LANDSCAPE WATER CONSERVATION STANDARDS (ZOA-07-16)

RECOMMENDATIONS

It is recommended the City Council consider all information provided and submitted, and take and consider all public testimony and, if determined to be appropriate, take the following actions:

1. Motion to have the City Clerk read the Ordinance No. 470 by title and number only and waive further reading; and
2. Following the City Clerk's reading; by motion approve Ordinance No. 470 for Introduction to amend the Clayton Municipal Code's landscape water conservation standards to comply with State law (ZOA-07-16) (**Attachment 1**).

BACKGROUND

In 1990, the California State Legislature passed the Water Conservation in Landscaping Act, AB 325, requiring all local agencies to adopt a Water Efficient Landscape Ordinance (WELO).

In September of 2010, the City of Clayton adopted an updated water conservation ordinance in response to the State Water Conservation in Landscaping Act of 2006 (AB 1881). AB 1881 directed the Department of Water Resources to develop a new State Landscape Water Conservation Ordinance, which became effective January 1, 2010. The State Ordinance required all new and rehabilitated landscapes be designed and installed to meet the latest best practices for water use efficiency. All cities and counties in California were required to adopt the State Ordinance as written or develop their own ordinance that is at least as effective in conserving water.

Generally, the thresholds established in the State Ordinance applied to irrigated landscaped areas of 2,500 square feet or greater for developer-initiated projects and public projects, and 5,000 square feet or greater for owner-initiated single-family residential projects. The Planning Commission found the State Ordinance to be too cumbersome and directed staff to participate in drafting an alternative ordinance that was equally as effective as the State Ordinance, but less complicated. The City of Clayton, along with other jurisdictions in the area, worked to draft a Regional Ordinance in order to improve the administration and implementation of the required standards by simplifying the process for design and review. Minor changes were made to the Regional Ordinance which was adopted by the City in 2010, and that Ordinance and those water conservation standards have been in effect locally until recently, due to further state action to regulate this matter.

NEW LAW DISCUSSION

On January 14, 2014, Governor Jerry Brown proclaimed a State of Emergency throughout the State of California due to severe drought conditions. Subsequently on April 1, 2015, the Governor issued Executive Order B-29-15 (EO-29-15) directing the State Water Resources Board to update its State Model Water Efficient Landscape Ordinance (**Attachment 2**). The Executive Order called for revising the Model Ordinance to increase water efficiency standards for new retrofitted landscapes through more efficient irrigation systems, graywater usage, onsite stormwater capture, and by limiting the portion of landscapes that can be covered in turf. The Model Ordinance also requires jurisdictions to report on the implementation and enforcement of local ordinances (**Attachment 3**).

All jurisdictions throughout the state are now required to adopt the State model ordinance or alternatively jurisdictions can adopt their own ordinance as long as it is equally as effective in conserving water as the State's Model Ordinance. The City's existing ordinance does not comply with the State's Model Ordinance as it is not equally as effective in conserving water. Therefore, the City is now under the State's updated Ordinance which is in compliance with Executive Order 29-15; however similar to the update in 2010, the State's Ordinance is cumbersome and the City's proposed ordinance will simplify the process.

SIGNIFICANT PROPOSED CHANGES TO CITY'S ORDINANCE

The major changes to the City's model ordinance, in conformance with the State Ordinance, are as follows (**Attachment 4**):

Projects Subject to the Ordinance

- The size of new landscape areas associated with commercial, multifamily, and single family projects subject to the Ordinance has been lowered from 2,500 square feet to 500 square feet. The threshold for new owner-directed single family projects has been lowered from 5,000 square feet to 500 square feet and rehabilitated owner-directed single family projects has been lowered from 5,000 square feet to 2,500 square feet.

Water Efficient Worksheet and Water Budget

- The maximum applied water allowance (MAWA) has been lowered from 70% of the reference evapotranspiration (ET_o) to 55% for residential landscape projects, and to 45% of ET_o for non-residential projects. This water allowance reduces the landscape area that can be planted with high water use plants such as cool season turf. The water budget approach allows for areas of high water use plants if the water use is reduced in other areas, provided the overall landscape area stays within budget.

Landscape Design

- Turf cannot exceed 25 percent of the landscape area for residential uses and no turf is allowed in non-residential uses (note: only for new or re-landscaped projects that meet or exceed the square footage thresholds).
- Turf cannot be planted in medians or in areas narrower than ten feet.
- Compost must be incorporated into the soil prior to planting at a rate of four yards per 1,000 square feet.
- Mulch depth has been increased to three inches from two.

Irrigation

- Dedicated landscape water meters or submeters are required for residential landscapes over 5,000 square feet and non-residential landscapes over 1,000 square feet.
- Irrigation systems are required to have pressure regulation to ensure correct and efficient operation.
- Flow sensors that detect and report high flow conditions due to broken pipes and/or popped sprinkler heads are required for landscape areas greater than 5,000 square feet.
- Master shut-off valves are now required in case of large irrigation system failures.
- Minimum width of area that can be overhead irrigated was increased to ten feet.

Graywater

- Graywater systems are allowed.

Reporting

- The City is required to report annually to the Department of Water Resources on the implementation and enforcement of its Water Efficient Landscape Ordinance.

The Planning Commission, at its regularly scheduled meeting of October 25, 2016 reviewed and considered the proposed adoption of the subject Ordinance (**Attachment 5**). The Planning Commission did not express any concerns and determined the Ordinance was in line with the State's regulations regarding landscape water conservation; therefore it recommended the City Council adopt the Ordinance.

ENVIRONMENTAL

The Ordinance is exempt from review under the California Environmental Quality Act ("CEQA") (California Public Resources Code Section 21000 et seq.). Pursuant to State CEQA Guidelines section 15307 (14 Cal. Code Regs., § 15307), this Ordinance is covered by the CEQA Categorical Exemption for actions taken to assure the maintenance, restoration, enhancement, or protection of a natural resource where the regulatory process involves procedures for protection of the environment. The adoption of this Ordinance will result in the enhancement and protection of water resources, and will not result in cumulative adverse environmental impacts or any other potentially significant impacts described in State CEQA Guidelines section 15300.2. It is therefore exempt from the provisions of CEQA.

FISCAL IMPACT

There is no direct fiscal impact; however there will be staff time associated with the preparation of the mandatory annual report to the State Department of Water Resources, and increased cost of City landscape projects may occur as the new regulations require greater preparation and more efficient irrigation systems.

ATTACHMENTS

1. Ordinance No. 470 [17 pp.]
2. Executive Order B-29-15 [7 pp.]
3. Department of Water Resources Model Water Efficient Landscape Ordinance [24 pp.]
4. Clayton Municipal Code Section 17.80 with Redline Changes [15 pp.]
5. Excerpt from the October 25, 2016 Planning Commission Meeting Staff Report [3 pp.]

ATTACHMENT 1

ORDINANCE NO. 470

AN ORDINANCE AMENDING THE CLAYTON MUNICIPAL CODE CHAPTER 17.80 LANDSCAPE WATER CONSERVATION STANDARDS

THE CITY COUNCIL City of Clayton, California

THE CITY COUNCIL OF THE CITY OF CLAYTON DOES HEREBY FIND AS FOLLOWS:

WHEREAS, California Government Code Section 65595 required that local agencies adopt a water efficient landscape ordinance on or before January 1, 2010 that is at least as effective in conserving water as the updated State Model Water Efficient Landscape Ordinance; and

WHEREAS, on April 1, 2015, the California Governor's Executive Order B-29-15 directed the Department of Water Resources to update the State Model Water Efficient Landscape Ordinance through expedited regulation; and

WHEREAS, Executive Order B-29-15 and the revised State Model Water Efficient Landscape Ordinance require that local agencies report on their implementation and enforcement of their local water efficient landscape ordinances to the State each year; and

WHEREAS, to meet State law the City wishes to amend its existing Water Conserving Landscape Guidelines; and

WHEREAS, proper notice of this public hearing was given in all respects as required by law; and

WHEREAS, the Clayton City Council has reviewed all written evidence and oral testimony presented to date on this matter.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF CLAYTON DOES ORDAIN AS FOLLOWS:

Section 1. The above recitals are true and correct and are hereby incorporated into this Ordinance.

Section 2. Chapter 17.80 of the Clayton Municipal Code is hereby amended and restated in its entirety as provided in Exhibit "A" attached hereto and incorporated herein by reference.

Section 3. **CEQA.** The City Council hereby determines that this Ordinance is exempt from review under the California Environmental Quality Act ("CEQA") (California Public Resources Code Section 21000 et seq.). Pursuant to State CEQA Guidelines section 15307 (14 Cal. Code Regs., § 15307), this Ordinance is covered by the CEQA Categorical Exemption for actions taken to assure the maintenance, restoration, enhancement, or protection of a natural resource where the regulatory process involves procedures for protection of the

environment. The adoption of this Ordinance will result in the enhancement and protection of water resources, and will not result in cumulative adverse environment impacts or any other potentially significant impact described in State CEQA Guidelines section 15300.2. It is therefore exempt from the provisions of CEQA. The City Council hereby directs the City Manager or his designee to prepare and file a Notice of Exemption within five business days following adoption of this Ordinance.

Section 4. Severability. If any section, subsection, sentence, clause, or phrase of this Ordinance, or the application thereof to any person or circumstances, is held to be unconstitutional or to be otherwise invalid by any court competent jurisdiction, such invalidity shall not affect other provisions or clauses of this Ordinance or application thereof which can be implemented without the invalid provisions, clause, or application, and to this end such provisions and clauses of the Ordinance are declared to be severable.

Section 5. Conflicting Ordinances Repealed. Any ordinance or part thereof, or regulations in conflict with the provisions of this Ordinance, are hereby repealed. The provisions of this Ordinance shall control with regard to any provision of the Clayton Municipal Code that may be inconsistent with the provisions of this Ordinance.

Section 6. Effective Date and Publication. This Ordinance shall become effective thirty (30) days from and after its passage. Within fifteen (15) days after the passage of the Ordinance, the City Clerk shall cause it to be posted in three (3) public places heretofore designated by resolution by the City Council for the posting of ordinances and public notices. Further, the City Clerk is directed to cause the amendments adopted in Section 2 of this Ordinance to be entered into the City of Clayton Municipal Code.

The foregoing Ordinance was introduced at a regular noticed public meeting of the City Council of the City of Clayton held on November 15, 2016.

Passed, adopted, and ordered posted by the City Council of the City of Clayton at a regular public meeting thereof held on December 6, 2016 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

THE CITY COUNCIL OF CLAYTON, CA

Howard Geller, Mayor

ATTEST

Janet Brown, City Clerk

APPROVED AS TO FORM

APPROVED BY ADMINISTRATION

Malathy Subramanian, City Attorney

Gary A. Napper, City Manager

I hereby certify that the foregoing Ordinance was duly introduced at a noticed regular meeting of the City Council of the City of Clayton held on November 15, 2016 and was duly adopted, passed, and ordered posted at a regular meeting of the City Council held on December 6, 2016.

Janet Brown, City Clerk

EXHIBIT A

Chapter 17.80

LANDSCAPE WATER CONSERVATION STANDARDS

Sections:

17.80.010	Title and Purpose
17.80.020	Definitions
17.80.030	Applicability
17.80.040	Landscape Project Application (LPA) Requirements
17.80.050	Water Efficient Landscape Standards
17.80.060	Landscape Plan Requirements
17.80.070	Landscape Water Audit Requirements
17.80.080	Certifications
17.80.090	Landscape and Irrigation Maintenance Schedule
17.80.100	Stormwater Management
17.80.110	Provisions for Existing Landscapes
17.80.120	Public Education
17.80.130	Reporting

17.80.010 Title and Purpose. This Chapter shall be known and may be cited as the Landscape Water Conservation Standards Ordinance of the City of Clayton for the purpose of implementing within Clayton the Water Conservation in Landscaping Act of 2006 and the implementation of Executive Order B-29-15.

17.80.020 Definitions. Certain words and phrases are defined within this Chapter and the definitions herein apply to this Chapter only. Where it appears from the context of such words, phrases, or provisions that a different meaning is intended, the definition shall be determined by the Community Development Director.

- A. "Applicant" means the individual or entity submitting a Landscape Project Application (LPA) required under Section 17.80.040 of this Chapter to request a permit, plan check, or design review from the City of Clayton, or

requesting new or expanded water service from the local water district. A project applicant may be the property owner or his or her designee.

- B. “Applied water” means the portion of water supplied by the irrigation system to the landscape.
- C. “Backflow prevention device” means a safety device used to prevent pollution or contamination of the water supply due to the reverse flow of water from an irrigation system.
- D. “Certified irrigation system auditor” means a person certified by the U.S. Environmental Protection Agency’s WaterSense Irrigation Partners Program.
- E. “Control valve manifold” a series of control valves plumbed together in one central spot for distribution to sprinkler heads.
- F. “Conversion factor (0.62)” means the number that converts acre-inches per acre per year to gallons per square foot per year.
- G. “Emission Device” means any device that is contained within an irrigation system that is used to apply water. Common emission devices in an irrigation system include, but are not limited to, spray and rotary sprinkler heads, bubblers, and drip irrigation emitters.
- H. “Estimated Total Water Use (ETWU)” means the estimated total water used for the landscape, as described in the City of Clayton Water Allowance Work Sheet.
- I. “ET adjustment factor (ETAF)” means a factor of 0.55 for residential areas and 0.45 for non-residential areas, that, when applied to reference evapotranspiration, adjusts for plant factors and irrigation efficiency which are two major influences upon the amount of water that needs to be applied to the landscape. ETAF for a Special Landscape Area shall be 1.0.
- J. “ETo” stands for Reference Evapotranspiration, and means the water loss from a large field of 4-7 inch-tall, cool-season grass that is not water stressed. Local ETo numbers can be found through the California Irrigation Management Information System (CIMIS).
- K. “Evapotranspiration” means the combination of water transpired from plants and evaporated from the soil and plant surfaces.
- L. “Flow rate” means the rate at which water flows through pipes, valves, and emission devices, measured in gallons per minute, gallons per hour, or cubic feet per second.
- M. “Flow sensors” means an inline device installed at the supply point of the irrigation system that produces a repeatable signal proportional to flow rate. Flow sensors must be connected to an automatic irrigation controller, or

flow monitor capable of receiving flow signals and operating master valves. This combination flow sensor/controller may also function as a landscape water meter or submeter.

- N. “Graywater” means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy body wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes.
- O. “Geometry” means the size, shape, and angles of an area.
- P. “Hardscape” means any durable material (pervious and non-pervious).
- Q. “Hydrozone” means a portion of the landscaped area having plants with similar water needs. This ordinance uses the publication *Water Use Classification of Landscape Species* (WUCOLS) to determine a plant’s water needs. A hydrozone may be irrigated or non-irrigated.
- R. “Irrigation audit” means an in-depth evaluation of the performance of an irrigation system conducted by a Certified Landscape Irrigation Auditor. An irrigation audit includes, but is not limited to: inspection, system tune-up, system test with distribution uniformity or emission uniformity, reporting overspray or runoff that causes overland flow, and preparation of an irrigation schedule. The audit must be conducted in such a manner with the Irrigation Association’s Landscape Auditor Certification program or other U.S. Environmental Protection Agency “Watersense” labeled auditing program.
- S. “Irrigation efficiency (IE)” means the measurement of the amount of water beneficially used divided by the amount of water applied. Irrigation efficiency is derived from measurements and estimates of irrigation system characteristics and management practices. The irrigation efficiency for purposes of this Chapter is 75% for overhead spray devices and 81% for drip or bubbler systems. Greater irrigation efficiency can be expected from well-designed and well-maintained systems.
- T. “Irrigation survey” means an evaluation of an irrigation system that is less detailed than an irrigation audit. An irrigation survey includes, but is not limited to, inspection, system test, and recommendations to improve performance of the irrigation system.
- U. “Irrigation water use analysis” means an analysis of water use data based on meter readings and billing data.
- V. “Landscape area” means all the planting areas, turf areas, and water features in a landscape design plan subject to the Maximum Applied Water Allowance calculation. The landscape area does not include footprints of buildings or structures, sidewalks, driveways, parking lots, decks, patios, gravel, or stone walks, or other pervious or non-pervious hardscapes, and

other non-irrigated areas designated for non-development (e.g., open spaces and existing native vegetation).

- W. “Landscape contractor” means a person licensed by the State of California to construct, maintain, repair, install, or subcontract the development of landscape systems.
- X. “Landscape water audit” means an in-depth evaluation of the installed landscape to verify the landscape complies with the Water-Efficient Landscape Standards of the City of Clayton Landscape Water Conservation Standards Ordinance, and completes the Certificate of Compliance for a landscape water audit.
- Y. “Lateral line” means the water delivery pipeline that supplies water to the emitters or sprinklers from the valve.
- Z. “Master Shut-Off Valve” means an automatic valve installed at the irrigation supply point which controls water flow into the irrigation system. When this valve is closed water will not be supplied to the irrigation system.
- AA. “Maximum Applied Water Allowance (MAWA)” means the upper limit of annual applied water for the established landscaped area, as specified in the City of Clayton Water Allowance Work Sheets.
- BB. “Medians” mean any planting area that separates traffic lanes on streets and parking areas in parking lots.
- CC. “Mulch” means any organic material, such as leaves, bark, straw, or compost; or inorganic mineral materials, such as rocks, gravel, and decomposed granite left loose and applied to the soil surface for the beneficial purposes of reducing evaporation, suppressing weeds, moderating soil temperature, and preventing soil erosion.
- DD. “Non-Permeable” means any surface or material that will not allow the passage of water through that surface or material and into the underlying soil at a rate that ensures run-off will not occur.
- EE. “Operating pressure” means the pressure at which the parts of an irrigation system are designed by the manufacturer to operate.
- FF. “Overhead irrigation” means systems that deliver water through the air (e.g., sprayheads and rotors).
- GG. “Overspray” means the irrigation water that is delivered beyond the target area.
- HH. “Permit” means an authorizing document issued by local agencies for new construction or rehabilitated landscapes.

- II. “Plant factor” or “plant water use factor” is a factor that, when multiplied by ETo, estimates the amount of water needed by plants. The plant factors for this Chapter are from the WUCOLS publication.
- JJ. “Precipitation rate” for this Chapter means the rate of application of water measured in inches per hour.
- KK. “Project” means the total area comprising the landscape area, as defined in this Chapter.
- LL. “Rain switch” or “rain sensing shutoff device” means a component that automatically suspends an irrigation event when it rains.
- MM. “Reference evapotranspiration” or “ETo” means a standard measurement of environmental parameters that affect the water use of plants.
- NN. “Rehabilitated landscape” means any re-landscaping project that requires a permit, plan check, or design review, or requires a new or expanded water service application.
- OO. “Retail water supplier” means any entity, including a public agency, city, county, district or private water company that provides retail water service.
- PP. “Runoff” means water that is not absorbed by the soil or landscape to which it is applied and that flows from the landscape area.
- QQ. “Smart irrigation controllers” means controllers using weather information or soil moisture readings along with site information to automatically adjust the irrigation schedule on a daily basis.
- RR. “Soil moisture sensor” or “soil moisture sensing device” means a device that measures the amount of water in the soil. The device may also suspend or initiate an irrigation event.
- SS. “Special Landscape Area (SLA)” means an area of the landscape dedicated solely to edible plants, such as vegetable gardens or orchards, areas irrigated with recycled water, water features using recycled water, cemeteries, and areas dedicated to active play, such as parks, sports fields, and golf courses where turf provides a playing surface.
- TT. “Sprinkler head” means a device that delivers water through a nozzle.
- UU. “Station” means an area served by one valve or by a set of valves that operate simultaneously.
- VV. “Turf” means a ground cover surface of mowed grass. Kentucky bluegrass, Perennial ryegrass, Red fescue, and Tall fescue are examples of cool-season grasses. Bermuda grass, Kikuyu grass, Seashore Paspalum, St. Augustine grass, Zoysia grass, and Buffalo grass are examples of warm-season grasses.

- WW. “Valve” means a device used to control the flow of water in the irrigation system.
- XX. “Water feature” means a design element where open water performs an aesthetic or recreational function. Water features include ponds, lakes, waterfalls, fountains, artificial streams, spas, and swimming pools (where water is artificially supplied).
- YY. “WUCOLS” means the Water Use Classification of Landscape Species, published by the University of California Cooperative Extension, the Department of Water Resources, and the Bureau of Reclamation, 2000. (WUCOLS) report is available at: <http://www.water.ca.gov/wateruseefficiency/publications/>. Search for WUCOLS, and then go to Part 2 WUCOLS III* 1999 Edition.

17.80.030 Applicability. After January 5, 2017, the indicated provisions of this Chapter shall apply to landscape projects as follows:

- A. Developer Projects: New landscape development for commercial, multi-family, and single family projects with irrigated landscape areas cumulatively equal to or greater than 500 square feet and rehabilitated landscape development for commercial, multi-family, and single family projects with irrigated landscape areas cumulatively equal to or greater than 2,500 square feet, requiring a building permit, grading permit, plan check, or design review shall complete the Landscape Project Application (LPA) described in Section 17.80.040, and comply with all other Sections of this Chapter.
- B. Municipality and Public Agency Projects: New projects designed and installed by the City of Clayton with irrigated landscape areas cumulatively equal to or greater than 500 square feet and rehabilitated projects designed and installed by the City of Clayton with irrigated landscape areas cumulatively equal to or greater than and 2,500 square feet shall comply with Sections 17.80.050, 17.80.060, 17.80.070, 17.80.080, 17.80.090, and 17.80.100.
- C. Owner-Directed Single Family Projects: New owner-directed single family projects with irrigated landscape areas cumulatively equal to or greater than 500 square feet and rehabilitated owner-directed single family projects with irrigated landscape areas cumulatively equal to or greater than 2,500, requiring a building permit, grading permit, plan check, or design review shall complete the Landscape Project Application (LPA) described in Section 17.80.040, and comply with all other Sections, except Section 17.80.090, of this Chapter.
- D. Existing Landscapes: Existing landscapes are only subject to the provisions in Section 17.80.110, “Provisions for Existing Landscapes” and Section 17.80.120, “Public Education”.
- E. The provisions of this Chapter shall not apply to:

1. Landscapes that are only temporarily irrigated for establishment purposes and landscapes that are not irrigated with a permanent irrigation system.
2. Registered local, state or federal historical sites, or as may otherwise be determined by the City Council.
3. Community gardens, botanical gardens and arboretums open to the public.

17.80.040 Landscape Project Application (LPA) Requirements. Applicant shall choose one of the two options below to comply with this Chapter:

A. Option A: Proposed landscape project does not include any:

1. Water features with more than 100 square feet of total surface area; or
2. Turf or other high water use plants, unless they qualify as a “Special Landscape Area”. High water use plants are those designated as ‘high water use’ in the Water Use Classification of Landscape Species (WUCOLS) report¹.

For this option, the applicant shall complete the following:

1. Project Application Sheet.
2. Certification Sheets.
3. Landscape Plans (See Section 17.80.060);
4. Maintenance Schedule (See Section 17.80.090).

B. Option B: Proposed landscape project does include:

1. Water features with more than 100 square feet of total surface area; or
2. Turf or other high water use plants not qualifying as a “Special Landscape Area”. The Estimated Total Water Use (ETWU) for the proposed landscape shall not exceed the Maximum Applied Water Allowance (MAWA) for the site. The MAWA formula will use an ET Adjustment Factor of .50 for residential projects and an ET Adjustment Factor of .45 for non-residential projects.

For this option, the applicant shall complete the following:

1. Project Application Sheet.
2. Certification Sheets.

¹ Water Use Classification of Landscape Species (WUCOLS) report which is available at <http://www.water.ca.gov/wateruseefficiency/publications/> A Guide to Estimating, Part 2.

3. Water Allowance Work Sheets.
4. Landscape Plans (See Section 17.80.060).
5. Maintenance Schedule (See Section 17.80.090).

An applicant requesting design review approval shall submit, at a minimum, a preliminary landscaping plan with the design review application; however, the applicant must submit all components of the Landscape Project Application (LPA) concurrently with the application for building permit or grading permit for the project.

The Community Development Director or his/her designee shall review each LPA for compliance with the provisions of this Chapter and may withhold issuance of a building permit or grading permit for which its corresponding LPA does not comply with this Chapter.

17.80.050 Water Efficient Landscape Standards. The proposed landscape design shall incorporate the most recent acceptable best management practices as determined by the City of Clayton for water-efficient landscape design and shall comply with the following standards:

A. Plant Design:

1. Plants selected shall be well suited to the area's climate and the site's soil conditions.
2. For residential areas, install climate adapted plants with an average WUCOLS plant factor of 0.3 for 75% of the plant area excluding edibles.
3. For non-residential areas, install climate adapted plants with an average WUCOLS plant factor of 0.3 for 100% of the plant area excluding edibles.
4. The proposed landscape shall be designed so that distinct hydrozones are irrigated separately by one or more irrigation valves. A hydrozone is an area with similar sun exposure, irrigation precipitation rate, soil conditions, slope, and plant material with similar water needs. Refer to the WUCOLS report for plant water needs.
5. Plants shall be spaced appropriately based on their expected mature spread.
6. If the geometry of the planting area does not conform to the spray pattern of the sprinkler, resulting in overspray onto the adjacent pavement, then overhead irrigation shall not be used.
7. Plants shall be spaced so that at mature size they do not block sprinklers.
8. Turf shall not be planted on slopes steeper than 15%.

9. Turf shall not exceed 25% of the landscape area for residential areas and there shall be no turf in non-residential areas.
10. Turf shall not be planted in any medians or in areas narrower than 10'0".
11. High water use plants with a WUCOLS plant factor of 0.7 to 1.0 are prohibited in street medians.

B. Irrigation System:

The irrigation system design shall comply with the following requirements:

1. Smart irrigation controller(s) utilizing all the features listed below shall be required on all irrigation systems:
 - a. Daily evapotranspiration data or daily soil moisture sensor utilizing a rain sensor.
 - b. Ability to maintain all data in the event of a power shortage.
2. Specify a dedicated landscape water meter for residential landscapes with an irrigated area greater than 5,000 square feet, and a dedicated water meter for non-residential landscapes with an irrigated area greater than 1,000 square feet, or per retail water supplier regulations.
3. Pressure regulators shall be installed on the irrigation system to assure dynamic pressure is within the manufacturer's recommended range.
4. Manual shut-off valve shall be installed as close as possible to water supply connection.
5. Manual shutoff valves shall be installed before each control valve manifold for residential irrigation systems.
6. Manual shut-off valves shall be installed before each control valve manifold or individual control valve on non-residential irrigation systems.
7. Recycled water shall be used for landscape irrigation if it is available at the project site.
8. Landscapes using recycled water are considered Special Landscape Areas. The ET Adjustment Factor for new and existing (non-rehabilitated) Special Landscape Areas shall not exceed 1.0.
9. All graywater systems shall conform to the California Plumbing Code (Title 24, Part 5, Chapter 16) and any applicable local ordinance standards.
10. Specify technology and practices to prevent runoff, low head drainage, overspray, or other water waste.

11. Overhead irrigation shall not be permitted within 12" of any non-permeable surface.
12. Specify sprinkler heads and other emission devices that have matched precipitation rates within each irrigation zone. No irrigation zone shall specify a precipitation rate greater than 1.2 inches per hour. On slopes steeper than 25%, the specified precipitation rate shall not exceed 0.75 inches per hour.
13. Specify irrigation controls so the dynamic water pressure at sprinkler head or other emission device is within manufacturer's recommended optimal operating range.
14. No overhead irrigation shall be specified in planting areas less than 10'0" wide in any dimension, unless demonstrated that water waste will not occur.
15. Specify a manual shut-off valve for each point of connection and specify that each shut-off valve be identified on the controller map.
16. Prepare a controller map and programming table and specify that this be stored in the controller cabinet. The controller map shall visually differentiate each controller zone. For each irrigation valve, the controller programming table shall list the plant water requirement (high, medium, low, or very low), the sun exposure, irrigation emission device type, precipitation rate, station flow rate, optimal pressure, soil type, infiltration rate, square foot area, and degree of slope.
17. Each irrigation valve shall control irrigation to only one distinct hydrozone. A hydrozone is an area with similar sun exposure, irrigation precipitation rate, soil conditions, slope, and plant material with similar water needs. Refer to the WUCOLS report for plant water needs.
18. Specify a separate irrigation valve and hydrozone for the top of a slope and the bottom of a slope.
19. Master shut-off valves are required on all projects except landscapes that make use of technologies that allow for the individual control of sprinklers that are individually pressurized in a system equipped with low pressure shut down features.
20. Flow sensors that detect high flow conditions created by system damage or malfunction are required for all non-residential landscapes and residential landscapes over 5,000 square feet or larger.

C. Water Features:

1. All water features shall have re-circulating water systems.
2. Fountain(s) shall be designed so that no wind drift or overspray occurs.

D. Grading and Soil Preparation:

The landscape design shall:

1. Include a soils management report for large landscape projects and multiple landscape installations (for production home developments a soil sampling of 1 in 7 lots or approximately 15% will satisfy this requirement).
2. Comply with Storm Water Control Plan requirements (C.3), if applicable.
3. Be designed to improve or maintain the infiltration rate of landscape soils typical of their soil texture and minimize soil erosion.
4. Be designed to avoid drainage onto non-permeable hardscapes within the property lines and prevent runoff of all irrigation and natural rainfall outside property lines.
5. Soil amendments shall be incorporated according to recommendations of the soils report and what is appropriate for the plants selected.
6. For landscape installations that require rototilling, compost at a rate of a minimum of 4 cubic yards per 1,000 square feet of permeable area, to a depth of 6 inches into the soil.
7. Specify a minimum three inch layer of mulch shall be applied on all exposed soil surfaces of planting areas unless there is a horticultural reason not to use mulch in a portion of the planting area. Mulch, such as shredded bark, shall be specified in bio-retention areas and slopes, so that the material will stay in place during rain events.

17.80.060 Landscape Plan Requirements. The Landscape plans shall demonstrate that all the water-efficient landscape standards have been met:

A. The planting plan shall:

1. Identify Special Landscape Areas. Special Landscape Areas include: landscape dedicated solely to edible plants, such as vegetable gardens or orchards, areas irrigated with recycled water, water features using recycled water, cemeteries, and areas dedicated to active play, such as parks, sports fields, and golf courses where turf provides a playing surface.
2. Identify plants by their common and botanical names.
3. Identify type and surface area of water features.

B. The irrigation plan shall:

1. Show the location and size of the landscape irrigation water meter.

2. Show the location, type and size of all components of the irrigation system, including, but not limited to, controllers, main and lateral lines, valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, pressure regulators, and backflow prevention devices.
 3. Identify the static water pressure at the point of connection to the public water supply.
 4. Identify the flow rate (gallons per minute), application rate (inches per hour), and design operating pressure (pressure per square inch) for each station.
 5. Identify any applicable graywater discharge piping, system components, and areas of distribution.
- C. Landscape plans shall include details and specifications reflecting the most recent acceptable best management practices as determined by the City of Clayton for water-efficient landscape design.

17.80.070 Landscape Water Audit Requirements. A landscape water audit shall be performed to ensure that the installed landscape meets the requirements of this Chapter.

- A. A landscape water audit shall be conducted within thirty (30) days of the start of the landscape maintenance period or, if no maintenance period, then, immediately, upon completion of the landscape installation. An EPA WaterSense certified Irrigation System Auditor shall conduct the landscape water audit and submit a Certificate of Compliance, Landscape Water Audit sheet.
- B. The Landscape Auditor shall inform the applicant of all non-compliance issues with the Ordinance. This shall include, but not be limited to, all items listed on the Certificate of Compliance, Landscape Water Audit sheet.
- C. All non-compliance issues shall be repaired and the site shall be re-audited for compliance with the criteria of this Chapter prior to final inspection/permit and final sign off.

17.80.080 Certifications. Water Efficiency Landscape Checklist/Certification sheets will be part of the Landscape Project Application (LPA) requirements.

- A. The person(s) creating the landscape design shall complete the Certificate of Compliance, Landscape Design sheet certifying the landscape has been designed to comply with the criteria of this Chapter.
- B. The Landscape Contractor/Installer shall complete the Certificate of Compliance, Landscape Installation sheet certifying the landscape has been installed, as specified in the Landscape Plans, and complies with the criteria of this Chapter.
- C. The Landscape Auditor shall complete the Landscape Certificate of Compliance, Water Audit sheet certifying the landscape and irrigation system have been

installed, as specified in the Landscape Plans, and comply with the criteria of this Chapter.

- D. The Maintenance Contractor/Person shall complete the Certificate of Compliance, Landscape Maintenance sheet certifying the landscape maintenance contractor agrees to manage the property using less water than the Maximum Applied Water Allowance.
- E. Standard applications are not required for Municipality and Public Agency Projects involving "City" projects conducted by City staff or City hired consultants and where certifications (i.e., Design, Installation, Maintenance, and Auditing) are needed, the City's Maintenance Supervisors may sign-off on them.

17.80.090 Landscape and Irrigation Maintenance Schedule. The landscape designer or installer shall develop a landscape maintenance specification and schedule for the landscape project that is consistent with the most recent acceptable best management practices as determined by the City of Clayton for landscape maintenance. Schedules shall be submitted with the Certification of Completion.

- A. An annual landscape maintenance schedule shall include at least the following: routine inspection; adjustment and repair of the irrigation system and its components; aerating turf areas; replenishing mulch; seasonal pruning; weeding in all landscape areas; and removing obstructions to emission devices;
- B. Repair of all irrigation equipment shall be done with the originally installed components or their equivalents;
- C. Project shall be irrigated so that total annual water applied is less than or equal to the Maximum Applied Water Allowance (MAWA) (if applicable).

17.80.100 Stormwater Management. All applicable projects shall comply with the requirements of the National Pollutant Discharge Elimination System intended to implement storm water best management practices into the planting, irrigation, and grading plans to minimize runoff and to increase on-site retention and infiltration.

17.80.110 Provisions for Existing Landscapes. This section applies to existing landscapes that were installed before January 5, 2017.

- A. Irrigation Survey and Irrigation Water Use Analysis

To ensure the efficient use of landscape water, each owner of property in the City of Clayton is encouraged to utilize resources and services, such as irrigation surveys and landscape water use analyses that are offered by the local retail or wholesale water utility.

- B. Water Waste Prevention

Each owner of property in the City of Clayton shall prevent water waste resulting from inefficient landscape irrigation by prohibiting runoff from the target landscape areas due to excessive irrigation or inappropriate run times related to

time of day, seasonal and/or variable weather conditions, low head drainage, overspray, or other similar conditions where water flows onto an adjacent property, walks, roadways, parking lots, or structures.

17.80.120 Public Education.

- A. All new model homes that are landscaped shall use signs, brochures and other written information to demonstrate the principles of water-efficient landscapes that are described in this Chapter. Signage shall include information about the site water use as designed per the local ordinance; specify who designed and installed the water efficient landscape; and demonstrate low water use approaches to landscaping such as using native plants, graywater systems, and rainwater catchment systems.
- B. The architectural guidelines of a common interest development, which include homeowner associations, community apartment projects, condominiums, planned developments, and stock cooperatives, shall not prohibit activities or conditions that have the effect of allowing the use of low water use plants as a group.
- C. For new homes/commercial developments, applicant/owner is required to provide the irrigation controller map and programming table and annual maintenance schedules to new tenants or owners at transfer of ownership/maintenance responsibility.
- D. The City of Clayton shall provide on its website links to resources that offer information about the principals of designing, installing, and maintaining water-efficient landscapes. An example of a link is to the local water utility, the Contra Costa Water District, and the landscape water conservation information that Agency offers.

17.80.130 Reporting

- A. The City of Clayton shall submit annual reports to the Department of Water Resources using the Water Efficient Landscape Ordinance Reporting Form, which can be accessed through the Department of Water Resources website. All reports are due by January 31st of each year.

Executive Department
State of California

EXECUTIVE ORDER B-29-15

WHEREAS on January 17, 2014, I proclaimed a State of Emergency to exist throughout the State of California due to severe drought conditions; and

WHEREAS on April 25, 2014, I proclaimed a Continued State of Emergency to exist throughout the State of California due to the ongoing drought; and

WHEREAS California's water supplies continue to be severely depleted despite a limited amount of rain and snowfall this winter, with record low snowpack in the Sierra Nevada mountains, decreased water levels in most of California's reservoirs, reduced flows in the state's rivers and shrinking supplies in underground water basins; and

WHEREAS the severe drought conditions continue to present urgent challenges including: drinking water shortages in communities across the state, diminished water for agricultural production, degraded habitat for many fish and wildlife species, increased wildfire risk, and the threat of saltwater contamination to fresh water supplies in the Sacramento-San Joaquin Bay Delta; and

WHEREAS a distinct possibility exists that the current drought will stretch into a fifth straight year in 2016 and beyond; and

WHEREAS new expedited actions are needed to reduce the harmful impacts from water shortages and other impacts of the drought; and

WHEREAS the magnitude of the severe drought conditions continues to present threats beyond the control of the services, personnel, equipment, and facilities of any single local government and require the combined forces of a mutual aid region or regions to combat; and

WHEREAS under the provisions of section 8558(b) of the Government Code, I find that conditions of extreme peril to the safety of persons and property continue to exist in California due to water shortage and drought conditions with which local authority is unable to cope; and

WHEREAS under the provisions of section 8571 of the California Government Code, I find that strict compliance with various statutes and regulations specified in this order would prevent, hinder, or delay the mitigation of the effects of the drought.

NOW, THEREFORE, I, EDMUND G. BROWN JR., Governor of the State of California, in accordance with the authority vested in me by the Constitution and statutes of the State of California, in particular Government Code sections 8567 and 8571 of the California Government Code, do hereby issue this Executive Order, effective immediately.



IT IS HEREBY ORDERED THAT:

1. The orders and provisions contained in my January 17, 2014 Proclamation, my April 25, 2014 Proclamation, and Executive Orders B-26-14 and B-28-14 remain in full force and effect except as modified herein.

SAVE WATER

2. The State Water Resources Control Board (Water Board) shall impose restrictions to achieve a statewide 25% reduction in potable urban water usage through February 28, 2016. These restrictions will require water suppliers to California's cities and towns to reduce usage as compared to the amount used in 2013. These restrictions should consider the relative per capita water usage of each water suppliers' service area, and require that those areas with high per capita use achieve proportionally greater reductions than those with low use. The California Public Utilities Commission is requested to take similar action with respect to investor-owned utilities providing water services.
3. The Department of Water Resources (the Department) shall lead a statewide initiative, in partnership with local agencies, to collectively replace 50 million square feet of lawns and ornamental turf with drought tolerant landscapes. The Department shall provide funding to allow for lawn replacement programs in underserved communities, which will complement local programs already underway across the state.
4. The California Energy Commission, jointly with the Department and the Water Board, shall implement a time-limited statewide appliance rebate program to provide monetary incentives for the replacement of inefficient household devices.
5. The Water Board shall impose restrictions to require that commercial, industrial, and institutional properties, such as campuses, golf courses, and cemeteries, immediately implement water efficiency measures to reduce potable water usage in an amount consistent with the reduction targets mandated by Directive 2 of this Executive Order.
6. The Water Board shall prohibit irrigation with potable water of ornamental turf on public street medians.
7. The Water Board shall prohibit irrigation with potable water outside of newly constructed homes and buildings that is not delivered by drip or microspray systems.

8. The Water Board shall direct urban water suppliers to develop rate structures and other pricing mechanisms, including but not limited to surcharges, fees, and penalties, to maximize water conservation consistent with statewide water restrictions. The Water Board is directed to adopt emergency regulations, as it deems necessary, pursuant to Water Code section 1058.5 to implement this directive. The Water Board is further directed to work with state agencies and water suppliers to identify mechanisms that would encourage and facilitate the adoption of rate structures and other pricing mechanisms that promote water conservation. The California Public Utilities Commission is requested to take similar action with respect to investor-owned utilities providing water services.

INCREASE ENFORCEMENT AGAINST WATER WASTE

9. The Water Board shall require urban water suppliers to provide monthly information on water usage, conservation, and enforcement on a permanent basis.
10. The Water Board shall require frequent reporting of water diversion and use by water right holders, conduct inspections to determine whether illegal diversions or wasteful and unreasonable use of water are occurring, and bring enforcement actions against illegal diverters and those engaging in the wasteful and unreasonable use of water. Pursuant to Government Code sections 8570 and 8627, the Water Board is granted authority to inspect property or diversion facilities to ascertain compliance with water rights laws and regulations where there is cause to believe such laws and regulations have been violated. When access is not granted by a property owner, the Water Board may obtain an inspection warrant pursuant to the procedures set forth in Title 13 (commencing with section 1822.50) of Part 3 of the Code of Civil Procedure for the purposes of conducting an inspection pursuant to this directive.
11. The Department shall update the State Model Water Efficient Landscape Ordinance through expedited regulation. This updated Ordinance shall increase water efficiency standards for new and existing landscapes through more efficient irrigation systems, greywater usage, onsite storm water capture, and by limiting the portion of landscapes that can be covered in turf. It will also require reporting on the implementation and enforcement of local ordinances, with required reports due by December 31, 2015. The Department shall provide information on local compliance to the Water Board, which shall consider adopting regulations or taking appropriate enforcement actions to promote compliance. The Department shall provide technical assistance and give priority in grant funding to public agencies for actions necessary to comply with local ordinances.
12. Agricultural water suppliers that supply water to more than 25,000 acres shall include in their required 2015 Agricultural Water Management Plans a detailed drought management plan that describes the actions and measures the supplier will take to manage water demand during drought. The Department shall require those plans to include quantification of water supplies and demands for 2013, 2014, and 2015 to the extent data is available. The Department will provide technical assistance to water suppliers in preparing the plans.

13. Agricultural water suppliers that supply water to 10,000 to 25,000 acres of irrigated lands shall develop Agricultural Water Management Plans and submit the plans to the Department by July 1, 2016. These plans shall include a detailed drought management plan and quantification of water supplies and demands in 2013, 2014, and 2015, to the extent that data is available. The Department shall give priority in grant funding to agricultural water suppliers that supply water to 10,000 to 25,000 acres of land for development and implementation of Agricultural Water Management Plans.
14. The Department shall report to Water Board on the status of the Agricultural Water Management Plan submittals within one month of receipt of those reports.
15. Local water agencies in high and medium priority groundwater basins shall immediately implement all requirements of the California Statewide Groundwater Elevation Monitoring Program pursuant to Water Code section 10933. The Department shall refer noncompliant local water agencies within high and medium priority groundwater basins to the Water Board by December 31, 2015, which shall consider adopting regulations or taking appropriate enforcement to promote compliance.
16. The California Energy Commission shall adopt emergency regulations establishing standards that improve the efficiency of water appliances, including toilets, urinals, and faucets available for sale and installation in new and existing buildings.

INVEST IN NEW TECHNOLOGIES

17. The California Energy Commission, jointly with the Department and the Water Board, shall implement a Water Energy Technology (WET) program to deploy innovative water management technologies for businesses, residents, industries, and agriculture. This program will achieve water and energy savings and greenhouse gas reductions by accelerating use of cutting-edge technologies such as renewable energy-powered desalination, integrated on-site reuse systems, water-use monitoring software, irrigation system timing and precision technology, and on-farm precision technology.

STREAMLINE GOVERNMENT RESPONSE

18. The Office of Emergency Services and the Department of Housing and Community Development shall work jointly with counties to provide temporary assistance for persons moving from housing units due to a lack of potable water who are served by a private well or water utility with less than 15 connections, and where all reasonable attempts to find a potable water source have been exhausted.
19. State permitting agencies shall prioritize review and approval of water infrastructure projects and programs that increase local water supplies, including water recycling facilities, reservoir improvement projects, surface water treatment plants, desalination plants, stormwater capture, and greywater systems. Agencies shall report to the Governor's Office on applications that have been pending for longer than 90 days.

20. The Department shall take actions required to plan and, if necessary, implement Emergency Drought Salinity Barriers in coordination and consultation with the Water Board and the Department of Fish and Wildlife at locations within the Sacramento - San Joaquin delta estuary. These barriers will be designed to conserve water for use later in the year to meet state and federal Endangered Species Act requirements, preserve to the extent possible water quality in the Delta, and retain water supply for essential human health and safety uses in 2015 and in the future.
21. The Water Board and the Department of Fish and Wildlife shall immediately consider any necessary regulatory approvals for the purpose of installation of the Emergency Drought Salinity Barriers.
22. The Department shall immediately consider voluntary crop idling water transfer and water exchange proposals of one year or less in duration that are initiated by local public agencies and approved in 2015 by the Department subject to the criteria set forth in Water Code section 1810.
23. The Water Board will prioritize new and amended safe drinking water permits that enhance water supply and reliability for community water systems facing water shortages or that expand service connections to include existing residences facing water shortages. As the Department of Public Health's drinking water program was transferred to the Water Board, any reference to the Department of Public Health in any prior Proclamation or Executive Order listed in Paragraph 1 is deemed to refer to the Water Board.
24. The California Department of Forestry and Fire Protection shall launch a public information campaign to educate the public on actions they can take to help to prevent wildfires including the proper treatment of dead and dying trees. Pursuant to Government Code section 8645, \$1.2 million from the State Responsibility Area Fire Prevention Fund (Fund 3063) shall be allocated to the California Department of Forestry and Fire Protection to carry out this directive.
25. The Energy Commission shall expedite the processing of all applications or petitions for amendments to power plant certifications issued by the Energy Commission for the purpose of securing alternate water supply necessary for continued power plant operation. Title 20, section 1769 of the California Code of Regulations is hereby waived for any such petition, and the Energy Commission is authorized to create and implement an alternative process to consider such petitions. This process may delegate amendment approval authority, as appropriate, to the Energy Commission Executive Director. The Energy Commission shall give timely notice to all relevant local, regional, and state agencies of any petition subject to this directive, and shall post on its website any such petition.

26. For purposes of carrying out directives 2–9, 11, 16–17, 20–23, and 25, Division 13 (commencing with section 21000) of the Public Resources Code and regulations adopted pursuant to that Division are hereby suspended. This suspension applies to any actions taken by state agencies, and for actions taken by local agencies where the state agency with primary responsibility for implementing the directive concurs that local action is required, as well as for any necessary permits or approvals required to complete these actions. This suspension, and those specified in paragraph 9 of the January 17, 2014 Proclamation, paragraph 19 of the April 25, 2014 proclamation, and paragraph 4 of Executive Order B-26-14, shall remain in effect until May 31, 2016. Drought relief actions taken pursuant to these paragraphs that are started prior to May 31, 2016, but not completed, shall not be subject to Division 13 (commencing with section 21000) of the Public Resources Code for the time required to complete them.
27. For purposes of carrying out directives 20 and 21, section 13247 and Chapter 3 of Part 3 (commencing with section 85225) of the Water Code are suspended.
28. For actions called for in this proclamation in directive 20, the Department shall exercise any authority vested in the Central Valley Flood Protection Board, as codified in Water Code section 8521, et seq., that is necessary to enable these urgent actions to be taken more quickly than otherwise possible. The Director of the Department of Water Resources is specifically authorized, on behalf of the State of California, to request that the Secretary of the Army, on the recommendation of the Chief of Engineers of the Army Corps of Engineers, grant any permission required pursuant to section 14 of the Rivers and Harbors Act of 1899 and codified in section 48 of title 33 of the United States Code.
29. The Department is directed to enter into agreements with landowners for the purposes of planning and installation of the Emergency Drought Barriers in 2015 to the extent necessary to accommodate access to barrier locations, land-side and water-side construction, and materials staging in proximity to barrier locations. Where the Department is unable to reach an agreement with landowners, the Department may exercise the full authority of Government Code section 8572.
30. For purposes of this Executive Order, chapter 3.5 (commencing with section 11340) of part 1 of division 3 of the Government Code and chapter 5 (commencing with section 25400) of division 15 of the Public Resources Code are suspended for the development and adoption of regulations or guidelines needed to carry out the provisions in this Order. Any entity issuing regulations or guidelines pursuant to this directive shall conduct a public meeting on the regulations and guidelines prior to adopting them.



31. In order to ensure that equipment and services necessary for drought response can be procured quickly, the provisions of the Government Code and the Public Contract Code applicable to state contracts, including, but not limited to, advertising and competitive bidding requirements, are hereby suspended for directives 17, 20, and 24. Approval by the Department of Finance is required prior to the execution of any contract entered into pursuant to these directives.

This Executive Order is not intended to, and does not, create any rights or benefits, substantive or procedural, enforceable at law or in equity, against the State of California, its agencies, departments, entities, officers, employees, or any other person.

I **FURTHER DIRECT** that as soon as hereafter possible, this Order be filed in the Office of the Secretary of State and that widespread publicity and notice be given to this Order.

IN WITNESS WHEREOF I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 1st day of April 2015.

EDMUND G. BROWN JR.
Governor of California

ATTEST:

ALEX PADILLA
Secretary of State

entering into the loan contract. For investor-owned utilities, meetings or hearings held by the Public Utilities Commission may serve as Project Feasibility Meetings.

(b) Before a Project Feasibility Meeting, the supplier shall:

(1) Make available information describing the project in a form and location that will enable the water users to review it and to make appropriate comments. The information must be made available for a period of at least fifteen days before the Project Feasibility Meeting.

(2) Establish a date for the meeting agreeable to the Department and Department of Health Services.

(3) Notify the Department, the Department of Health Services and appropriate county health agencies in writing at least twenty calendar days before the meeting, and notify all water users and the local news media in writing at least fifteen calendar days before the meeting. The notice shall state: the date, time, location, and purpose of the meeting and the location of information describing the project for review by the water users. Sample notice forms will be provided by the Department.

(4) Obtain a meeting place of sufficient size and at a convenient location to accommodate the anticipated attendance.

(c) The agenda of the meeting shall include the following matters: (1) A discussion of applicable public health and water works standards, existing and potential health hazards associated with the water system, how the proposed project will bring the system to minimum health standards, and alternative solutions to the problem. (2) The supplier shall describe the proposed project in detail, using maps, charts, and other illustrative devices, if appropriate. The discussion shall include the costs, sources of funds, the amount of the loan-grant commitment, and changes in water costs resulting from the project.

(3) A representative of the State may describe the Act, the State's role in its administration and the Department's recommendation regarding the supplier's loan application. Persons present at the meeting shall be permitted to ask questions regarding all subjects discussed at the meeting.

(d) If no representative of the Department is present at the meeting, the supplier shall submit an official written report to the Department describing the meeting and its outcome including the results of any vote taken. NOTE: Authority cited: Section 13834, Water Code. Reference: Section 13834, Water Code.

§ 489.1. Plans and Specifications.

Before commencing construction, each Supplier shall provide detailed plans and specifications to the Department of Health Services for review and approval by a registered Civil Engineer employed by the Department of Health Services. Unless otherwise authorized in writing by the Department of Health Services, the supplier shall not commence construction without written notification from the Department of Health Services that the plans and specifications have been approved.

NOTE: Authority cited: Section 13834, Water Code. Reference: Section 13837, Water Code.

§ 489.2. Certification of Completion.

Department of Health Services shall inspect the completed project and if satisfied that the project has been completed in accordance with approved plans and specifications, shall provide the supplier and the Department with written certification to that effect.

NOTE: Authority cited: Section 13834, Water Code. Reference: Section 13834, Water Code.

Chapter 2.6. Weather Resources Management [Repealed]

NOTE: Authority cited: Sections 161, 401, 403 and 6078, Water Code. Reference: Sections 401, 402 and 403, Water Code and Sections 21000 et seq., Public Resources Code.

HISTORY

1. New Subchapter 2.6 (Articles 1-5, Sections 490-495.03, not consecutive) filed 9-28-79; effective thirtieth day thereafter (Register 79, No. 39).
2. Repealer of Subchapter 2.6 (Articles 1-5, Sections 490-495.03, not consecutive, not previously repealed by OAL Order of Repeal) filed 6-5-86; effective

thirtieth day thereafter (Register 86, No. 23). For prior history, see Register 85, No. 26; 81, Nos. 40 and 38; and 80, No. 7.

Chapter 2.7. Model Water Efficient Landscape Ordinance

§ 490. Purpose.

(a) The State Legislature has found:

(1) that the waters of the state are of limited supply and are subject to ever increasing demands;

(2) that the continuation of California's economic prosperity is dependent on the availability of adequate supplies of water for future uses;

(3) that it is the policy of the State to promote the conservation and efficient use of water and to prevent the waste of this valuable resource;

(4) that landscapes are essential to the quality of life in California by providing areas for active and passive recreation and as an enhancement to the environment by cleaning air and water, preventing erosion, offering fire protection, and replacing ecosystems lost to development;

(5) that landscape design, installation, maintenance and management can and should be water efficient;

(6) that Section 2 of Article X of the California Constitution specifies that the right to use water is limited to the amount reasonably required for the beneficial use to be served and the right does not and shall not extend to waste or unreasonable method of use.

(b) Consistent with the legislative findings, the purpose of this model ordinance is to:

(1) promote the values and benefits of landscaping practices that integrate and go beyond the conservation and efficient use of water;

(2) establish a structure for planning, designing, installing, maintaining and managing water efficient landscapes in new construction and rehabilitated projects by encouraging the use of a watershed approach that requires cross-sector collaboration of industry, government and property owners to achieve the many benefits possible;

(3) establish provisions for water management practices and water waste prevention for existing landscapes;

(4) use water efficiently without waste by setting a Maximum Applied Water Allowance as an upper limit for water use and reduce water use to the lowest practical amount;

(5) promote the benefits of consistent landscape ordinances with neighboring local and regional agencies;

(6) encourage local agencies and water purveyors to use economic incentives that promote the efficient use of water, such as implementing a tiered-rate structure; and

(7) encourage local agencies to designate the necessary authority that implements and enforces the provisions of the Model Water Efficient Landscape Ordinance or its local landscape ordinance.

(c) Landscapes that are planned, designed, installed, managed and maintained with the watershed based approach can improve California's environmental conditions and provide benefits and realize sustainability goals. Such landscapes will make the urban environment resilient in the face of climatic extremes. Consistent with the legislative findings and purpose of the Ordinance, conditions in the urban setting will be improved by:

(1) Creating the conditions to support life in the soil by reducing compaction, incorporating organic matter that increases water retention, and promoting productive plant growth that leads to more carbon storage, oxygen production, shade, habitat and esthetic benefits.

(2) Minimizing energy use by reducing irrigation water requirements, reducing reliance on petroleum based fertilizers and pesticides, and planting climate appropriate shade trees in urban areas.

(3) Conserving water by capturing and reusing rainwater and graywater wherever possible and selecting climate appropriate plants that need minimal supplemental water after establishment.

(4) Protecting air and water quality by reducing power equipment use and landfill disposal trips, selecting recycled and locally sourced materi-

als, and using compost, mulch and efficient irrigation equipment to prevent erosion.

(5) Protecting existing habitat and creating new habitat by choosing local native plants, climate adapted non-natives and avoiding invasive plants. Utilizing integrated pest management with least toxic methods as the first course of action.

NOTE: Authority cited: Section 65593, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Sections 65591, 65593 and 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New chapter 2.7 (sections 490-495) filed 7-31-92; operative 7-31-92 (Register 92, No. 32).
2. Amendment of section and NOTE filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
3. Amendment of subsections (a)(4) and (b)(1)-(2), new subsections (c)-(c)(5) and amendment of NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 490.1. Applicability.

(a) After December 1, 2015, and consistent with Executive Order No. B-29-15, this ordinance shall apply to all of the following landscape projects:

(1) new construction projects with an aggregate landscape area equal to or greater than 500 square feet requiring a building or landscape permit, plan check or design review;

(2) rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 square feet requiring a building or landscape permit, plan check, or design review;

(3) existing landscapes limited to Sections 493, 493.1 and 493.2; and

(4) cemeteries. Recognizing the special landscape management needs of cemeteries, new and rehabilitated cemeteries are limited to Sections 492.4, 492.11, and 492.12; and existing cemeteries are limited to Sections 493, 493.1, and 493.2.

(b) For local land use agencies working together to develop a regional water efficient landscape ordinance, the reporting requirements of this ordinance shall become effective December 1, 2015 and the remainder of this ordinance shall be effective no later than February 1, 2016.

(c) Any project with an aggregate landscape area of 2,500 square feet or less may comply with the performance requirements of this ordinance or conform to the prescriptive measures contained in Appendix D.

(d) For projects using treated or untreated graywater or rainwater captured on site, any lot or parcel within the project that has less than 2500 sq. ft. of landscape and meets the lot or parcel's landscape water requirement (Estimated Total Water Use) entirely with treated or untreated graywater or through stored rainwater captured on site is subject only to Appendix D section (5).

(e) This ordinance does not apply to:

(1) registered local, state or federal historical sites;

(2) ecological restoration projects that do not require a permanent irrigation system;

(3) mined-land reclamation projects that do not require a permanent irrigation system; or

(4) existing plant collections, as part of botanical gardens and arboreta open to the public.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 491. Definitions.

The terms used in this ordinance have the meaning set forth below:

(a) "applied water" means the portion of water supplied by the irrigation system to the landscape.

(b) "automatic irrigation controller" means a timing device used to remotely control valves that operate an irrigation system. Automatic irrigation controllers are able to self-adjust and schedule irrigation events using either evapotranspiration (weather-based) or soil moisture data.

(c) "backflow prevention device" means a safety device used to prevent pollution or contamination of the water supply due to the reverse flow of water from the irrigation system.

(d) "Certificate of Completion" means the document required under Section 492.9.

(e) "certified irrigation designer" means a person certified to design irrigation systems by an accredited academic institution, a professional trade organization or other program such as the US Environmental Protection Agency's WaterSense irrigation designer certification program and Irrigation Association's Certified Irrigation Designer program.

(f) "certified landscape irrigation auditor" means a person certified to perform landscape irrigation audits by an accredited academic institution, a professional trade organization or other program such as the US Environmental Protection Agency's WaterSense irrigation auditor certification program and Irrigation Association's Certified Landscape Irrigation Auditor program.

(g) "check valve" or "anti-drain valve" means a valve located under a sprinkler head, or other location in the irrigation system, to hold water in the system to prevent drainage from sprinkler heads when the sprinkler is off.

(h) "common interest developments" means community apartment projects, condominium projects, planned developments, and stock cooperatives per Civil Code Section 1351.

(i) "compost" means the safe and stable product of controlled biologic decomposition of organic materials that is beneficial to plant growth.

(j) "conversion factor (0.62)" means the number that converts acre-inches per acre per year to gallons per square foot per year.

(k) "distribution uniformity" means the measure of the uniformity of irrigation water over a defined area.

(l) "drip irrigation" means any non-spray low volume irrigation system utilizing emission devices with a flow rate measured in gallons per hour. Low volume irrigation systems are specifically designed to apply small volumes of water slowly at or near the root zone of plants.

(m) "ecological restoration project" means a project where the site is intentionally altered to establish a defined, indigenous, historic ecosystem.

(n) "effective precipitation" or "usable rainfall" (Eppt) means the portion of total precipitation which becomes available for plant growth.

(o) "emitter" means a drip irrigation emission device that delivers water slowly from the system to the soil.

(p) "established landscape" means the point at which plants in the landscape have developed significant root growth into the soil. Typically, most plants are established after one or two years of growth.

(q) "establishment period of the plants" means the first year after installing the plant in the landscape or the first two years if irrigation will be terminated after establishment. Typically, most plants are established after one or two years of growth. Native habitat mitigation areas and trees may need three to five years for establishment.

(r) "Estimated Total Water Use" (ETWU) means the total water used for the landscape as described in Section 492.4.

(s) "ET adjustment factor" (ETAF) means a factor of 0.55 for residential areas and 0.45 for non-residential areas, that, when applied to reference evapotranspiration, adjusts for plant factors and irrigation efficiency, two major influences upon the amount of water that needs to be applied to the landscape. The ETAF for new and existing (non-rehabilitated) Special Landscape Areas shall not exceed 1.0. The ETAF for existing non-rehabilitated landscapes is 0.8.

- (t) "evapotranspiration rate" means the quantity of water evaporated from adjacent soil and other surfaces and transpired by plants during a specified time.
- (u) "flow rate" means the rate at which water flows through pipes, valves and emission devices, measured in gallons per minute, gallons per hour, or cubic feet per second.
- (v) "flow sensor" means an inline device installed at the supply point of the irrigation system that produces a repeatable signal proportional to flow rate. Flow sensors must be connected to an automatic irrigation controller, or flow monitor capable of receiving flow signals and operating master valves. This combination flow sensor/controller may also function as a landscape water meter or submeter.
- (w) "friable" means a soil condition that is easily crumbled or loosely compacted down to a minimum depth per planting material requirements, whereby the root structure of newly planted material will be allowed to spread unimpeded.
- (x) "Fuel Modification Plan Guideline" means guidelines from a local fire authority to assist residents and businesses that are developing land or building structures in a fire hazard severity zone.
- (y) "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to, wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines, and laundry tubs, but does not include wastewater from kitchen sinks or dishwashers. Health and Safety Code Section 17922.12.
- (z) "hardscapes" means any durable material (pervious and non-pervious).
- (aa) "hydrozone" means a portion of the landscaped area having plants with similar water needs and rooting depth. A hydrozone may be irrigated or non-irrigated.
- (bb) "infiltration rate" means the rate of water entry into the soil expressed as a depth of water per unit of time (e.g., inches per hour).
- (cc) "invasive plant species" means species of plants not historically found in California that spread outside cultivated areas and can damage environmental or economic resources. Invasive species may be regulated by county agricultural agencies as noxious species. Lists of invasive plants are maintained at the California Invasive Plant Inventory and USDA invasive and noxious weeds database.
- (dd) "irrigation audit" means an in-depth evaluation of the performance of an irrigation system conducted by a Certified Landscape Irrigation Auditor. An irrigation audit includes, but is not limited to: inspection, system tune-up, system test with distribution uniformity or emission uniformity, reporting overspray or runoff that causes overland flow, and preparation of an irrigation schedule. The audit must be conducted in a manner consistent with the Irrigation Association's Landscape Irrigation Auditor Certification program or other U.S. Environmental Protection Agency "Watersense" labeled auditing program.
- (ee) "irrigation efficiency" (IE) means the measurement of the amount of water beneficially used divided by the amount of water applied. Irrigation efficiency is derived from measurements and estimates of irrigation system characteristics and management practices. The irrigation efficiency for purposes of this ordinance are 0.75 for overhead spray devices and 0.81 for drip systems.
- (ff) "irrigation survey" means an evaluation of an irrigation system that is less detailed than an irrigation audit. An irrigation survey includes, but is not limited to: inspection, system test, and written recommendations to improve performance of the irrigation system.
- (gg) "irrigation water use analysis" means an analysis of water use data based on meter readings and billing data.
- (hh) "landscape architect" means a person who holds a license to practice landscape architecture in the state of California Business and Professions Code, Section 5615.
- (ii) "landscape area" means all the planting areas, turf areas, and water features in a landscape design plan subject to the Maximum Applied Water Allowance calculation. The landscape area does not include footprints of buildings or structures, sidewalks, driveways, parking lots, decks, patios, gravel or stone walks, other pervious or non-pervious hardscapes, and other non-irrigated areas designated for non-development (e.g., open spaces and existing native vegetation).
- (jj) "landscape contractor" means a person licensed by the state of California to construct, maintain, repair, install, or subcontract the development of landscape systems.
- (kk) "Landscape Documentation Package" means the documents required under Section 492.3.
- (ll) "landscape project" means total area of landscape in a project as defined in "landscape area" for the purposes of this ordinance, meeting requirements under Section 490.1.
- (mm) "landscape water meter" means an inline device installed at the irrigation supply point that measures the flow of water into the irrigation system and is connected to a totalizer to record water use.
- (nn) "lateral line" means the water delivery pipeline that supplies water to the emitters or sprinklers from the valve.
- (oo) "local agency" means a city or county, including a charter city or charter county, that is responsible for adopting and implementing the ordinance. The local agency is also responsible for the enforcement of this ordinance, including but not limited to, approval of a permit and plan check or design review of a project.
- (pp) "local water purveyor" means any entity, including a public agency, city, county, or private water company that provides retail water service.
- (qq) "low volume irrigation" means the application of irrigation water at low pressure through a system of tubing or lateral lines and low-volume emitters such as drip, drip lines, and bubblers. Low volume irrigation systems are specifically designed to apply small volumes of water slowly at or near the root zone of plants.
- (rr) "main line" means the pressurized pipeline that delivers water from the water source to the valve or outlet.
- (ss) "master shut-off valve" is an automatic valve installed at the irrigation supply point which controls water flow into the irrigation system. When this valve is closed water will not be supplied to the irrigation system. A master valve will greatly reduce any water loss due to a leaky station valve.
- (tt) "Maximum Applied Water Allowance" (MAWA) means the upper limit of annual applied water for the established landscaped area as specified in Section 492.4. It is based upon the area's reference evapotranspiration, the ET Adjustment Factor, and the size of the landscape area. The Estimated Total Water Use shall not exceed the Maximum Applied Water Allowance. Special Landscape Areas, including recreation areas, areas permanently and solely dedicated to edible plants such as orchards and vegetable gardens, and areas irrigated with recycled water are subject to the MAWA with an ETAF not to exceed 1.0. $MAWA = (ETo) (0.62) [(ETAF \times LA) + ((1-ETAF) \times SLA)]$
- (uu) "median" is an area between opposing lanes of traffic that may be unplanted or planted with trees, shrubs, perennials, and ornamental grasses.
- (vv) "microclimate" means the climate of a small, specific area that may contrast with the climate of the overall landscape area due to factors such as wind, sun exposure, plant density, or proximity to reflective surfaces.
- (ww) "mined-land reclamation projects" means any surface mining operation with a reclamation plan approved in accordance with the Surface Mining and Reclamation Act of 1975.
- (xx) "mulch" means any organic material such as leaves, bark, straw, compost, or inorganic mineral materials such as rocks, gravel, or decomposed granite left loose and applied to the soil surface for the beneficial purposes of reducing evaporation, suppressing weeds, moderating soil temperature, and preventing soil erosion.
- (yy) "new construction" means, for the purposes of this ordinance, a new building with a landscape or other new landscape, such as a park, playground, or greenbelt without an associated building.

(zz) "non-residential landscape" means landscapes in commercial, institutional, industrial and public settings that may have areas designated for recreation or public assembly. It also includes portions of common areas of common interest developments with designated recreational areas.

(aaa) "operating pressure" means the pressure at which the parts of an irrigation system are designed by the manufacturer to operate.

(bbb) "overhead sprinkler irrigation systems" or "overhead spray irrigation systems" means systems that deliver water through the air (e.g., spray heads and rotors).

(ccc) "overspray" means the irrigation water which is delivered beyond the target area.

(ddd) "parkway" means the area between a sidewalk and the curb or traffic lane. It may be planted or unplanted, and with or without pedestrian egress.

(eee) "permit" means an authorizing document issued by local agencies for new construction or rehabilitated landscapes.

(fff) "pervious" means any surface or material that allows the passage of water through the material and into the underlying soil.

(ggg) "plant factor" or "plant water use factor" is a factor, when multiplied by ETo, estimates the amount of water needed by plants. For purposes of this ordinance, the plant factor range for very low water use plants is 0 to 0.1, the plant factor range for low water use plants is 0.1 to 0.3, the plant factor range for moderate water use plants is 0.4 to 0.6, and the plant factor range for high water use plants is 0.7 to 1.0. Plant factors cited in this ordinance are derived from the publication "Water Use Classification of Landscape Species". Plant factors may also be obtained from horticultural researchers from academic institutions or professional associations as approved by the California Department of Water Resources (DWR).

(hhh) "project applicant" means the individual or entity submitting a Landscape Documentation Package required under Section 492.3, to request a permit, plan check, or design review from the local agency. A project applicant may be the property owner or his or her designee.

(iii) "rain sensor" or "rain sensing shutoff device" means a component which automatically suspends an irrigation event when it rains.

(jjj) "record drawing" or "as-builts" means a set of reproducible drawings which show significant changes in the work made during construction and which are usually based on drawings marked up in the field and other data furnished by the contractor.

(kkk) "recreational area" means areas, excluding private single family residential areas, designated for active play, recreation or public assembly in parks, sports fields, picnic grounds, amphitheaters or golf course tees, fairways, roughs, surrounds and greens.

(lll) "recycled water," "reclaimed water," or "treated sewage effluent water" means treated or recycled waste water of a quality suitable for nonpotable uses such as landscape irrigation and water features. This water is not intended for human consumption.

(mmm) "reference evapotranspiration" or "ETo" means a standard measurement of environmental parameters which affect the water use of plants. ETo is expressed in inches per day, month, or year as represented in Appendix A, and is an estimate of the evapotranspiration of a large field of four- to seven-inch tall, cool-season grass that is well watered. Reference evapotranspiration is used as the basis of determining the Maximum Applied Water Allowances so that regional differences in climate can be accommodated.

(nnn) "Regional Water Efficient Landscape Ordinance" means a local Ordinance adopted by two or more local agencies, water suppliers and other stakeholders for implementing a consistent set of landscape provisions throughout a geographical region. Regional ordinances are strongly encouraged to provide a consistent framework for the landscape industry and applicants to adhere to.

(ooo) "rehabilitated landscape" means any relandscaping project that requires a permit, plan check, or design review, meets the requirements of Section 490.1, and the modified landscape area is equal to or greater than 2,500 square feet.

(ppp) "residential landscape" means landscapes surrounding single or multifamily homes.

(qqq) "run off" means water which is not absorbed by the soil or landscape to which it is applied and flows from the landscape area. For example, run off may result from water that is applied at too great a rate (application rate exceeds infiltration rate) or when there is a slope.

(rrr) "soil moisture sensing device" or "soil moisture sensor" means a device that measures the amount of water in the soil. The device may also suspend or initiate an irrigation event.

(sss) "soil texture" means the classification of soil based on its percentage of sand, silt, and clay.

(ttt) "Special Landscape Area" (SLA) means an area of the landscape dedicated solely to edible plants, recreational areas, areas irrigated with recycled water, or water features using recycled water.

(uuu) "sprinkler head" or "spray head" means a device which delivers water through a nozzle.

(vvv) "static water pressure" means the pipeline or municipal water supply pressure when water is not flowing.

(www) "station" means an area served by one valve or by a set of valves that operate simultaneously.

(xxx) "swing joint" means an irrigation component that provides a flexible, leak-free connection between the emission device and lateral pipeline to allow movement in any direction and to prevent equipment damage.

(yyy) "submeter" means a metering device to measure water applied to the landscape that is installed after the primary utility water meter.

(zzz) "turf" means a ground cover surface of mowed grass. Annual bluegrass, Kentucky bluegrass, Perennial ryegrass, Red fescue, and Tall fescue are cool-season grasses. Bermudagrass, Kikuyugrass, Seashore Paspalum, St. Augustinegrass, Zoysiagrass, and Buffalo grass are warm-season grasses.

(aaaa) "valve" means a device used to control the flow of water in the irrigation system.

(bbbb) "water conserving plant species" means a plant species identified as having a very low or low plant factor.

(cccc) "water feature" means a design element where open water performs an aesthetic or recreational function. Water features include ponds, lakes, waterfalls, fountains, artificial streams, spas, and swimming pools (where water is artificially supplied). The surface area of water features is included in the high water use hydrozone of the landscape area. Constructed wetlands used for on-site wastewater treatment or stormwater best management practices that are not irrigated and used solely for water treatment or stormwater retention are not water features and, therefore, are not subject to the water budget calculation.

(dddd) "watering window" means the time of day irrigation is allowed.

(eeee) "WUCOLS" means the Water Use Classification of Landscape Species published by the University of California Cooperative Extension and the Department of Water Resources 2014.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Sections 65592 and 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 7-31-92; operative 7-31-92 (Register 92, No. 32).
2. Amendment of section and NOTE filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
3. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 492. Provisions for New Construction or Rehabilitated Landscapes.

(a) A local agency may designate by mutual agreement, another agency, such as a water purveyor, to implement some or all of the requirements contained in this ordinance. Local agencies may collaborate with water purveyors to define each entity's specific responsibilities relating to this ordinance.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596,

Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 7-31-92; operative 7-31-92 (Register 92, No. 32).
2. Amendment of section heading, repealer and new section and amendment of NOTE filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
3. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 492.1. Compliance with Landscape Documentation Package.

- (a) Prior to construction, the local agency shall:
- (1) provide the project applicant with the ordinance and procedures for permits, plan checks or design reviews;
 - (2) review the Landscape Documentation Package submitted by the project applicant;
 - (3) approve or deny the Landscape Documentation Package;
 - (4) issue a permit or approve the plan check or design review for the project applicant; and
 - (5) upon approval of the Landscape Documentation Package, submit a copy of the Water Efficient Landscape Worksheet to the local water purveyor.
- (b) Prior to construction, the project applicant shall:
- (1) submit a Landscape Documentation Package to the local agency.
- (c) Upon approval of the Landscape Documentation Package by the local agency, the project applicant shall:
- (1) receive a permit or approval of the plan check or design review and record the date of the permit in the Certificate of Completion;
 - (2) submit a copy of the approved Landscape Documentation Package along with the record drawings, and any other information to the property owner or his/her designee; and
 - (3) submit a copy of the Water Efficient Landscape Worksheet to the local water purveyor.

NOTE: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

§ 492.2. Penalties.

- (a) A local agency may establish and administer penalties to the project applicant for non-compliance with the ordinance to the extent permitted by law.

NOTE: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

§ 492.3. Elements of the Landscape Documentation Package.

- (a) The Landscape Documentation Package shall include the following six (6) elements:

- (1) project information;
 - (A) date
 - (B) project applicant
 - (C) project address (if available, parcel and/or lot number(s))
 - (D) total landscape area (square feet)
 - (E) project type (e.g., new, rehabilitated, public, private, cemetery, homeowner-installed)
 - (F) water supply type (e.g., potable, recycled, well) and identify the local retail water purveyor if the applicant is not served by a private well
 - (G) checklist of all documents in Landscape Documentation Package
 - (H) project contacts to include contact information for the project applicant and property owner
 - (I) applicant signature and date with statement, "I agree to comply with the requirements of the water efficient landscape ordinance and submit a complete Landscape Documentation Package".

- (2) Water Efficient Landscape Worksheet;

(A) hydrozone information table

(B) water budget calculations

1. Maximum Applied Water Allowance (MAWA)

2. Estimated Total Water Use (ETWU)

(3) soil management report;

(4) landscape design plan;

(5) irrigation design plan; and

(6) grading design plan.

NOTE: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

§ 492.4. Water Efficient Landscape Worksheet.

(a) A project applicant shall complete the Water Efficient Landscape Worksheet in Appendix B which contains information on the plant factor, irrigation method, irrigation efficiency, and area associated with each hydrozone. Calculations are then made to show that the evapotranspiration adjustment factor (ETAF) for the landscape project does not exceed a factor of 0.55 for residential areas and 0.45 for non-residential areas, exclusive of Special Landscape Areas. The ETAF for a landscape project is based on the plant factors and irrigation methods selected. The Maximum Applied Water Allowance is calculated based on the maximum ETAF allowed (0.55 for residential areas and 0.45 for non-residential areas) and expressed as annual gallons required. The Estimated Total Water Use (ETWU) is calculated based on the plants used and irrigation method selected for the landscape design. ETWU must be below the MAWA.

(1) In calculating the Maximum Applied Water Allowance and Estimated Total Water Use, a project applicant shall use the ETo values from the Reference Evapotranspiration Table in Appendix A. For geographic areas not covered in Appendix A, use data from other cities located nearby in the same reference evapotranspiration zone, as found in the CIMIS Reference Evapotranspiration Zones Map, Department of Water Resources, 1999.

(b) Water budget calculations shall adhere to the following requirements:

(1) The plant factor used shall be from WUCOLS or from horticultural researchers with academic institutions or professional associations as approved by the California Department of Water Resources (DWR). The plant factor ranges from 0 to 0.1 for very low water using plants, 0.1 to 0.3 for low water use plants, from 0.4 to 0.6 for moderate water use plants, and from 0.7 to 1.0 for high water use plants.

(2) All water features shall be included in the high water use hydrozone and temporarily irrigated areas shall be included in the low water use hydrozone.

(3) All Special Landscape Areas shall be identified and their water use calculated as shown in Appendix B.

(4) ETAF for new and existing (non-rehabilitated) Special Landscape Areas shall not exceed 1.0.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 492.5. Soil Management Report.

(a) In order to reduce runoff and encourage healthy plant growth, a soil management report shall be completed by the project applicant, or his/her designee, as follows:

- (1) Submit soil samples to a laboratory for analysis and recommendations.

(A) Soil sampling shall be conducted in accordance with laboratory protocol, including protocols regarding adequate sampling depth for the intended plants.

(B) The soil analysis shall include:

1. soil texture;
2. infiltration rate determined by laboratory test or soil texture infiltration rate table;
3. pH;
4. total soluble salts;
5. sodium;
6. percent organic matter; and
7. recommendations.

(C) In projects with multiple landscape installations (i.e. production home developments) a soil sampling rate of 1 in 7 lots or approximately 15% will satisfy this requirement. Large landscape projects shall sample at a rate equivalent to 1 in 7 lots.

(2) The project applicant, or his/her designee, shall comply with one of the following:

(A) If significant mass grading is not planned, the soil analysis report shall be submitted to the local agency as part of the Landscape Documentation Package; or

(B) If significant mass grading is planned, the soil analysis report shall be submitted to the local agency as part of the Certificate of Completion.

(3) The soil analysis report shall be made available, in a timely manner, to the professionals preparing the landscape design plans and irrigation design plans to make any necessary adjustments to the design plans.

(4) The project applicant, or his/her designee, shall submit documentation verifying implementation of soil analysis report recommendations to the local agency with Certificate of Completion.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of subsection (a)(1)(B), new subsection (a)(1)(C) and amendment of NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 492.6. Landscape Design Plan.

(a) For the efficient use of water, a landscape shall be carefully designed and planned for the intended function of the project. A landscape design plan meeting the following design criteria shall be submitted as part of the Landscape Documentation Package.

(1) Plant Material

(A) Any plant may be selected for the landscape, providing the Estimated Total Water Use in the landscape area does not exceed the Maximum Applied Water Allowance. Methods to achieve water efficiency shall include one or more of the following:

1. protection and preservation of native species and natural vegetation;
2. selection of water-conserving plant, tree and turf species, especially local native plants;
3. selection of plants based on local climate suitability, disease and pest resistance;
4. selection of trees based on applicable local tree ordinances or tree shading guidelines, and size at maturity as appropriate for the planting area; and
5. selection of plants from local and regional landscape program plant lists.
6. selection of plants from local Fuel Modification Plan Guidelines.

(B) Each hydrozone shall have plant materials with similar water use, with the exception of hydrozones with plants of mixed water use, as specified in Section 492.7(a)(2)(D).

(C) Plants shall be selected and planted appropriately based upon their adaptability to the climatic, geologic, and topographical conditions of the

project site. Methods to achieve water efficiency shall include one or more of the following:

1. use the Sunset Western Climate Zone System which takes into account temperature, humidity, elevation, terrain, latitude, and varying degrees of continental and marine influence on local climate;

2. recognize the horticultural attributes of plants (i.e., mature plant size, invasive surface roots) to minimize damage to property or infrastructure [e.g., buildings, sidewalks, power lines]; allow for adequate soil volume for healthy root growth; and

3. consider the solar orientation for plant placement to maximize summer shade and winter solar gain.

(D) Turf is not allowed on slopes greater than 25% where the toe of the slope is adjacent to an impermeable hardscape and where 25% means 1 foot of vertical elevation change for every 4 feet of horizontal length (rise divided by run x 100 = slope percent).

(E) High water use plants, characterized by a plant factor of 0.7 to 1.0, are prohibited in street medians.

(F) A landscape design plan for projects in fire-prone areas shall address fire safety and prevention. A defensible space or zone around a building or structure is required per Public Resources Code Section 4291(a) and (b). Avoid fire-prone plant materials and highly flammable mulches. Refer to the local Fuel Modification Plan guidelines.

(G) The use of invasive plant species, such as those listed by the California Invasive Plant Council, is strongly discouraged.

(H) The architectural guidelines of a common interest development, which include community apartment projects, condominiums, planned developments, and stock cooperatives, shall not prohibit or include conditions that have the effect of prohibiting the use of low-water use plants as a group.

(2) Water Features

(A) Recirculating water systems shall be used for water features.

(B) Where available, recycled water shall be used as a source for decorative water features.

(C) Surface area of a water feature shall be included in the high water use hydrozone area of the water budget calculation.

(D) Pool and spa covers are highly recommended.

(3) Soil Preparation, Mulch and Amendments

(A) Prior to the planting of any materials, compacted soils shall be transformed to a friable condition. On engineered slopes, only amended planting holes need meet this requirement.

(B) Soil amendments shall be incorporated according to recommendations of the soil report and what is appropriate for the plants selected (see Section 492.5).

(C) For landscape installations, compost at a rate of a minimum of four cubic yards per 1,000 square feet of permeable area shall be incorporated to a depth of six inches into the soil. Soils with greater than 6% organic matter in the top 6 inches of soil are exempt from adding compost and tilling.

(D) A minimum three inch (3") layer of mulch shall be applied on all exposed soil surfaces of planting areas except in turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicated. To provide habitat for beneficial insects and other wildlife, up to 5 % of the landscape area may be left without mulch. Designated insect habitat must be included in the landscape design plan as such.

(E) Stabilizing mulching products shall be used on slopes that meet current engineering standards.

(F) The mulching portion of the seed/mulch slurry in hydro-seeded applications shall meet the mulching requirement.

(G) Organic mulch materials made from recycled or post-consumer shall take precedence over inorganic materials or virgin forest products unless the recycled post-consumer organic products are not locally available. Organic mulches are not required where prohibited by local Fuel Modification Plan Guidelines or other applicable local ordinances.

(b) The landscape design plan, at a minimum, shall:

- (1) delineate and label each hydrozone by number, letter, or other method;
- (2) identify each hydrozone as low, moderate, high water, or mixed water use. Temporarily irrigated areas of the landscape shall be included in the low water use hydrozone for the water budget calculation;
- (3) identify recreational areas;
- (4) identify areas permanently and solely dedicated to edible plants;
- (5) identify areas irrigated with recycled water;
- (6) identify type of mulch and application depth;
- (7) identify soil amendments, type, and quantity;
- (8) identify type and surface area of water features;
- (9) identify hardscapes (pervious and non-pervious);
- (10) identify location, installation details, and 24-hour retention or infiltration capacity of any applicable stormwater best management practices that encourage on-site retention and infiltration of stormwater. Project applicants shall refer to the local agency or regional Water Quality Control Board for information on any applicable stormwater technical requirements. Stormwater best management practices are encouraged in the landscape design plan and examples are provided in Section 492.16.
- (11) identify any applicable rain harvesting or catchment technologies as discussed in Section 492.16 and their 24-hour retention or infiltration capacity;
- (12) identify any applicable graywater discharge piping, system components and area(s) of distribution;
- (13) contain the following statement: "I have complied with the criteria of the ordinance and applied them for the efficient use of water in the landscape design plan"; and
- (14) bear the signature of a licensed landscape architect, licensed landscape contractor, or any other person authorized to design a landscape. (See Sections 5500.1, 5615, 5641, 5641.1, 5641.2, 5641.3, 5641.4, 5641.5, 5641.6, 6701, 7027.5 of the Business and Professions Code, Section 832.27 of Title 16 of the California Code of Regulations, and Section 6721 of the Food and Agriculture Code.)

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; Section 1351, Civil Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 492.7. Irrigation Design Plan.

(a) This section applies to landscaped areas requiring permanent irrigation, not areas that require temporary irrigation solely for the plant establishment period. For the efficient use of water, an irrigation system shall meet all the requirements listed in this section and the manufacturers' recommendations. The irrigation system and its related components shall be planned and designed to allow for proper installation, management, and maintenance. An irrigation design plan meeting the following design criteria shall be submitted as part of the Landscape Documentation Package.

(1) System

(A) Landscape water meters, defined as either a dedicated water service meter or private submeter, shall be installed for all non-residential irrigated landscapes of 1,000 sq. ft. but not more than 5,000 sq. ft. (the level at which Water Code 535 applies) and residential irrigated landscapes of 5,000 sq. ft. or greater. A landscape water meter may be either:

1. a customer service meter dedicated to landscape use provided by the local water purveyor; or
2. a privately owned meter or submeter.

(B) Automatic irrigation controllers utilizing either evapotranspiration or soil moisture sensor data utilizing non-volatile memory shall be required for irrigation scheduling in all irrigation systems.

(C) If the water pressure is below or exceeds the recommended pressure of the specified irrigation devices, the installation of a pressure regu-

lating device is required to ensure that the dynamic pressure at each emission device is within the manufacturer's recommended pressure range for optimal performance.

1. If the static pressure is above or below the required dynamic pressure of the irrigation system, pressure-regulating devices such as inline pressure regulators, booster pumps, or other devices shall be installed to meet the required dynamic pressure of the irrigation system.

2. Static water pressure, dynamic or operating pressure, and flow reading of the water supply shall be measured at the point of connection. These pressure and flow measurements shall be conducted at the design stage. If the measurements are not available at the design stage, the measurements shall be conducted at installation.

(D) Sensors (rain, freeze, wind, etc.), either integral or auxiliary, that suspend or alter irrigation operation during unfavorable weather conditions shall be required on all irrigation systems, as appropriate for local climatic conditions. Irrigation should be avoided during windy or freezing weather or during rain.

(E) Manual shut-off valves (such as a gate valve, ball valve, or butterfly valve) shall be required, as close as possible to the point of connection of the water supply, to minimize water loss in case of an emergency (such as a main line break) or routine repair.

(F) Backflow prevention devices shall be required to protect the water supply from contamination by the irrigation system. A project applicant shall refer to the applicable local agency code (i.e., public health) for additional backflow prevention requirements.

(G) Flow sensors that detect high flow conditions created by system damage or malfunction are required for all on non-residential landscapes and residential landscapes of 5000 sq. ft. or larger.

(H) Master shut-off valves are required on all projects except landscapes that make use of technologies that allow for the individual control of sprinklers that are individually pressurized in a system equipped with low pressure shut down features.

(I) The irrigation system shall be designed to prevent runoff, low head drainage, overspray, or other similar conditions where irrigation water flows onto non-targeted areas, such as adjacent property, non-irrigated areas, hardscapes, roadways, or structures.

(J) Relevant information from the soil management plan, such as soil type and infiltration rate, shall be utilized when designing irrigation systems.

(K) The design of the irrigation system shall conform to the hydrozones of the landscape design plan.

(L) The irrigation system must be designed and installed to meet, at a minimum, the irrigation efficiency criteria as described in Section 492.4 regarding the Maximum Applied Water Allowance.

(M) All irrigation emission devices must meet the requirements set in the American National Standards Institute (ANSI) standard, American Society of Agricultural and Biological Engineers/International Code Council's (ASABE/ICC) 802-2014 "Landscape Irrigation Sprinkler and Emitter Standard, All sprinkler heads installed in the landscape must document a distribution uniformity low quarter of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014.

(N) It is highly recommended that the project applicant or local agency inquire with the local water purveyor about peak water operating demands (on the water supply system) or water restrictions that may impact the effectiveness of the irrigation system.

(O) In mulched planting areas, the use of low volume irrigation is required to maximize water infiltration into the root zone.

(P) Sprinkler heads and other emission devices shall have matched precipitation rates, unless otherwise directed by the manufacturer's recommendations.

(Q) Head to head coverage is recommended. However, sprinkler spacing shall be designed to achieve the highest possible distribution uniformity using the manufacturer's recommendations.

(R) Swing joints or other riser-protection components are required on all risers subject to damage that are adjacent to hardscapes or in high traffic areas of turfgrass.

(S) Check valves or anti-drain valves are required on all sprinkler heads where low point drainage could occur.

(T) Areas less than ten (10) feet in width in any direction shall be irrigated with subsurface irrigation or other means that produces no runoff or overspray.

(U) Overhead irrigation shall not be permitted within 24 inches of any non-permeable surface. Allowable irrigation within the setback from non-permeable surfaces may include drip, drip line, or other low flow non-spray technology. The setback area may be planted or unplanted. The surfacing of the setback may be mulch, gravel, or other porous material. These restrictions may be modified if:

1. the landscape area is adjacent to permeable surfacing and no runoff occurs; or

2. the adjacent non-permeable surfaces are designed and constructed to drain entirely to landscaping; or

3. the irrigation designer specifies an alternative design or technology, as part of the Landscape Documentation Package and clearly demonstrates strict adherence to irrigation system design criteria in Section 492.7 (a)(1)(I). Prevention of overspray and runoff must be confirmed during the irrigation audit.

(V) Slopes greater than 25% shall not be irrigated with an irrigation system with a application rate exceeding 0.75 inches per hour. This restriction may be modified if the landscape designer specifies an alternative design or technology, as part of the Landscape Documentation Package, and clearly demonstrates no runoff or erosion will occur. Prevention of runoff and erosion must be confirmed during the irrigation audit.

(2) Hydrozone

(A) Each valve shall irrigate a hydrozone with similar site, slope, sun exposure, soil conditions, and plant materials with similar water use.

(B) Sprinkler heads and other emission devices shall be selected based on what is appropriate for the plant type within that hydrozone.

(C) Where feasible, trees shall be placed on separate valves from shrubs, groundcovers, and turf to facilitate the appropriate irrigation of trees. The mature size and extent of the root zone shall be considered when designing irrigation for the tree.

(D) Individual hydrozones that mix plants of moderate and low water use, or moderate and high water use, may be allowed if:

1. plant factor calculation is based on the proportions of the respective plant water uses and their plant factor; or

2. the plant factor of the higher water using plant is used for calculations.

(E) Individual hydrozones that mix high and low water use plants shall not be permitted.

(F) On the landscape design plan and irrigation design plan, hydrozone areas shall be designated by number, letter, or other designation. On the irrigation design plan, designate the areas irrigated by each valve, and assign a number to each valve. Use this valve number in the Hydrozone Information Table (see Appendix B Section A). This table can also assist with the irrigation audit and programming the controller.

(b) The irrigation design plan, at a minimum, shall contain:

(1) location and size of separate water meters for landscape;

(2) location, type and size of all components of the irrigation system, including controllers, main and lateral lines, valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, pressure regulators, and backflow prevention devices;

(3) static water pressure at the point of connection to the public water supply;

(4) flow rate (gallons per minute), application rate (inches per hour), and design operating pressure (pressure per square inch) for each station;

(5) recycled water irrigation systems as specified in Section 492.14;

(6) the following statement: "I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the irrigation design plan"; and

(7) the signature of a licensed landscape architect, certified irrigation designer, licensed landscape contractor, or any other person authorized

to design an irrigation system. (See Sections 5500.1, 5615, 5641, 5641.1, 5641.2, 5641.3, 5641.4, 5641.5, 5641.6, 6701, 7027.5 of the Business and Professions Code, Section 832.27 of Title 16 of the California Code of Regulations, and Section 6721 of the Food and Agricultural Code.)

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 492.8. Grading Design Plan.

(a) For the efficient use of water, grading of a project site shall be designed to minimize soil erosion, runoff, and water waste. A grading plan shall be submitted as part of the Landscape Documentation Package. A comprehensive grading plan prepared by a civil engineer for other local agency permits satisfies this requirement.

(1) The project applicant shall submit a landscape grading plan that indicates finished configurations and elevations of the landscape area including:

(A) height of graded slopes;

(B) drainage patterns;

(C) pad elevations;

(D) finish grade; and

(E) stormwater retention improvements, if applicable.

(2) To prevent excessive erosion and runoff, it is highly recommended that project applicants:

(A) grade so that all irrigation and normal rainfall remains within property lines and does not drain on to non-permeable hardscapes;

(B) avoid disruption of natural drainage patterns and undisturbed soil; and

(C) avoid soil compaction in landscape areas.

(3) The grading design plan shall contain the following statement: "I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the grading design plan" and shall bear the signature of a licensed professional as authorized by law.

NOTE: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

§ 492.9. Certificate of Completion.

(a) The Certificate of Completion (see Appendix C for a sample certificate) shall include the following six (6) elements:

(1) project information sheet that contains:

(A) date;

(B) project name;

(C) project applicant name, telephone, and mailing address;

(D) project address and location; and

(E) property owner name, telephone, and mailing address;

(2) certification by either the signer of the landscape design plan, the signer of the irrigation design plan, or the licensed landscape contractor that the landscape project has been installed per the approved Landscape Documentation Package;

(A) where there have been significant changes made in the field during construction, these "as-built" or record drawings shall be included with the certification;

(B) A diagram of the irrigation plan showing hydrozones shall be kept with the irrigation controller for subsequent management purposes.

(3) irrigation scheduling parameters used to set the controller (see Section 492.10);

(4) landscape and irrigation maintenance schedule (see Section 492.11);

(5) irrigation audit report (see Section 492.12); and

(6) soil analysis report, if not submitted with Landscape Documentation Package, and documentation verifying implementation of soil report recommendations (see Section 492.5).

(b) The project applicant shall:

(1) submit the signed Certificate of Completion to the local agency for review;

(2) ensure that copies of the approved Certificate of Completion are submitted to the local water purveyor and property owner or his or her designee.

(c) The local agency shall:

(1) receive the signed Certificate of Completion from the project applicant;

(2) approve or deny the Certificate of Completion. If the Certificate of Completion is denied, the local agency shall provide information to the project applicant regarding reapplication, appeal, or other assistance.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

2. New subsection (a)(2)(B) and amendment of NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 492.10. Irrigation Scheduling.

(a) For the efficient use of water, all irrigation schedules shall be developed, managed, and evaluated to utilize the minimum amount of water required to maintain plant health. Irrigation schedules shall meet the following criteria:

(1) Irrigation scheduling shall be regulated by automatic irrigation controllers.

(2) Overhead irrigation shall be scheduled between 8:00 p.m. and 10:00 a.m. unless weather conditions prevent it. If allowable hours of irrigation differ from the local water purveyor, the stricter of the two shall apply. Operation of the irrigation system outside the normal watering window is allowed for auditing and system maintenance.

(3) For implementation of the irrigation schedule, particular attention must be paid to irrigation run times, emission device, flow rate, and current reference evapotranspiration, so that applied water meets the Estimated Total Water Use. Total annual applied water shall be less than or equal to Maximum Applied Water Allowance (MAWA). Actual irrigation schedules shall be regulated by automatic irrigation controllers using current reference evapotranspiration data (e.g., CIMIS) or soil moisture sensor data.

(4) Parameters used to set the automatic controller shall be developed and submitted for each of the following:

- (A) the plant establishment period;
- (B) the established landscape; and
- (C) temporarily irrigated areas.

(5) Each irrigation schedule shall consider for each station all of the following that apply:

- (A) irrigation interval (days between irrigation);
- (B) irrigation run times (hours or minutes per irrigation event to avoid runoff);
- (C) number of cycle starts required for each irrigation event to avoid runoff;
- (D) amount of applied water scheduled to be applied on a monthly basis;
- (E) application rate setting;
- (F) root depth setting;
- (G) plant type setting;
- (H) soil type;
- (I) slope factor setting;
- (J) shade factor setting; and
- (K) irrigation uniformity or efficiency setting.

NOTE: Authority cited: Section 65595, Government Code. Reference: Section 65596, Government Code.

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

§ 492.11. Landscape and Irrigation Maintenance Schedule.

(a) Landscapes shall be maintained to ensure water use efficiency. A regular maintenance schedule shall be submitted with the Certificate of Completion.

(b) A regular maintenance schedule shall include, but not be limited to, routine inspection; auditing, adjustment and repair of the irrigation system and its components; aerating and dethatching turf areas; topdressing with compost, replenishing mulch; fertilizing; pruning; weeding in all landscape areas, and removing obstructions to emission devices. Operation of the irrigation system outside the normal watering window is allowed for auditing and system maintenance.

(c) Repair of all irrigation equipment shall be done with the originally installed components or their equivalents or with components with greater efficiency.

(d) A project applicant is encouraged to implement established landscape industry sustainable Best Practices for all landscape maintenance activities.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 492.12. Irrigation Audit, Irrigation Survey, and Irrigation Water Use Analysis.

(a) All landscape irrigation audits shall be conducted by a local agency landscape irrigation auditor or a third party certified landscape irrigation auditor. Landscape audits shall not be conducted by the person who designed the landscape or installed the landscape.

(b) In large projects or projects with multiple landscape installations (i.e. production home developments) an auditing rate of 1 in 7 lots or approximately 15% will satisfy this requirement.

(c) For new construction and rehabilitated landscape projects installed after December 1, 2015, as described in Section 490.1:

(1) the project applicant shall submit an irrigation audit report with the Certificate of Completion to the local agency that may include, but is not limited to: inspection, system tune-up, system test with distribution uniformity, reporting overspray or run off that causes overland flow, and preparation of an irrigation schedule, including configuring irrigation controllers with application rate, soil types, plant factors, slope, exposure and any other factors necessary for accurate programming;

(2) the local agency shall administer programs that may include, but not be limited to, irrigation water use analysis, irrigation audits, and irrigation surveys for compliance with the Maximum Applied Water Allowance.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 492.13. Irrigation Efficiency.

(a) For the purpose of determining Estimated Total Water Use, average irrigation efficiency is assumed to be 0.75 for overhead spray devices and 0.81 for drip system devices.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596,

Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 492.14. Recycled Water.

(a) The installation of recycled water irrigation systems shall allow for the current and future use of recycled water.

(b) All recycled water irrigation systems shall be designed and operated in accordance with all applicable local and State laws.

(c) Landscapes using recycled water are considered Special Landscape Areas. The ET Adjustment Factor for new and existing (non-rehabilitated) Special Landscape Areas shall not exceed 1.0.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 492.15. Graywater Systems.

(a) Graywater systems promote the efficient use of water and are encouraged to assist in on-site landscape irrigation. All graywater systems shall conform to the California Plumbing Code (Title 24, Part 5, Chapter 16) and any applicable local ordinance standards. Refer to § 490.1 (d) for the applicability of this ordinance to landscape areas less than 2,500 square feet with the Estimated Total Water Use met entirely by graywater.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Renumbering of former section 492.15 to 492.16, new section 492.15 and amendment of NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 492.16. Stormwater Management and Rainwater Retention.

(a) Stormwater management practices minimize runoff and increase infiltration which recharges groundwater and improves water quality. Implementing stormwater best management practices into the landscape and grading design plans to minimize runoff and to increase on-site rainwater retention and infiltration are encouraged.

(b) Project applicants shall refer to the local agency or Regional Water Quality Control Board for information on any applicable stormwater technical requirements.

(c) All planted landscape areas are required to have friable soil to maximize water retention and infiltration. Refer to § 492.6(a)(3).

(d) It is strongly recommended that landscape areas be designed for capture and infiltration capacity that is sufficient to prevent runoff from impervious surfaces (i.e. roof and paved areas) from either: the one inch, 24-hour rain event or (2) the 85th percentile, 24-hour rain event, and/or additional capacity as required by any applicable local, regional, state or federal regulation.

(e) It is recommended that storm water projects incorporate any of the following elements to improve on-site storm water and dry weather runoff capture and use:

- Grade impervious surfaces, such as driveways, during construction to drain to vegetated areas.

- Minimize the area of impervious surfaces such as paved areas, roof and concrete driveways.
- Incorporate pervious or porous surfaces (e.g., gravel, permeable pavers or blocks, pervious or porous concrete) that minimize runoff.
- Direct runoff from paved surfaces and roof areas into planting beds or landscaped areas to maximize site water capture and reuse.
- Incorporate rain gardens, cisterns, and other rain harvesting or catchment systems.
- Incorporate infiltration beds, swales, basins and drywells to capture storm water and dry weather runoff and increase percolation into the soil.
- Consider constructed wetlands and ponds that retain water, equalize excess flow, and filter pollutants.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Renumbering of former section 492.16 to section 492.17 and renumbering of former section 492.15 to new section 492.16, including amendment of section heading, section and NOTE, filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 492.17. Public Education.

(a) Publications. Education is a critical component to promote the efficient use of water in landscapes. The use of appropriate principles of design, installation, management and maintenance that save water is encouraged in the community.

(1) A local agency or water supplier/purveyor shall provide information to owners of permitted renovations and new, single-family residential homes regarding the design, installation, management, and maintenance of water efficient landscapes based on a water budget.

(b) Model Homes. All model homes that are landscaped shall use signs and written information to demonstrate the principles of water efficient landscapes described in this ordinance.

(1) Signs shall be used to identify the model as an example of a water efficient landscape featuring elements such as hydrozones, irrigation equipment, and others that contribute to the overall water efficient theme. Signage shall include information about the site water use as designed per the local ordinance; specify who designed and installed the water efficient landscape; and demonstrate low water use approaches to landscaping such as using native plants, graywater systems, and rainwater catchment systems.

(2) Information shall be provided about designing, installing, managing, and maintaining water efficient landscapes.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Renumbering of former section 492.17 to new section 492.18 and renumbering of former section 492.16 to new section 492.17, including amendment of section and NOTE, filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 492.18. Environmental Review.

(a) The local agency must comply with the California Environmental Quality Act (CEQA), as appropriate.

NOTE: Authority cited: Section 21082, Public Resources Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Sections 21080 and 21082, Public Resources Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. Renumbering of former section 492.17 to new section 492.18, including amendment of NOTE, filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 493. Provisions for Existing Landscapes.

(a) A local agency may by mutual agreement, designate another agency, such as a water purveyor, to implement some or all of the requirements contained in this ordinance. Local agencies may collaborate with water purveyors to define each entity's specific responsibilities relating to this ordinance.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 7-31-92; operative 7-31-92 (Register 92, No. 32).
2. Repealer and new section and amendment of NOTE filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
3. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 493.1. Irrigation Audit, Irrigation Survey, and Irrigation Water Use Analysis.

(a) This section, 493.1, shall apply to all existing landscapes that were installed before December 1, 2015 and are over one acre in size.

(1) For all landscapes in 493.1 (a) that have a water meter, the local agency shall administer programs that may include, but not be limited to, irrigation water use analyses, irrigation surveys, and irrigation audits to evaluate water use and provide recommendations as necessary to reduce landscape water use to a level that does not exceed the Maximum Applied Water Allowance for existing landscapes. The Maximum Applied Water Allowance for existing landscapes shall be calculated as: $MAWA = (0.8)(ETo)(LA)(0.62)$.

(2) For all landscapes in 493.1(a), that do not have a meter, the local agency shall administer programs that may include, but not be limited to, irrigation surveys and irrigation audits to evaluate water use and provide recommendations as necessary in order to prevent water waste.

(b) All landscape irrigation audits shall be conducted by a certified landscape irrigation auditor.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of subsection (a) and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 493.2. Water Waste Prevention.

(a) Local agencies shall prevent water waste resulting from inefficient landscape irrigation by prohibiting runoff from leaving the target landscape due to low head drainage, overspray, or other similar conditions where water flows onto adjacent property, non-irrigated areas, walks, roadways, parking lots, or structures. Penalties for violation of these prohibitions shall be established locally.

(b) Restrictions regarding overspray and runoff may be modified if:

(1) the landscape area is adjacent to permeable surfacing and no runoff occurs; or

(2) the adjacent non-permeable surfaces are designed and constructed to drain entirely to landscaping.

NOTE: Authority cited: Section 65594, Government Code. Reference: Section 65596, Government Code.

HISTORY

1. New section filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

§ 494. Effective Precipitation.

(a) A local agency may consider Effective Precipitation (25% of annual precipitation) in tracking water use and may use the following equation to calculate Maximum Applied Water Allowance:

$MAWA = (ETo - Eppt)(0.62)[(0.55 \times LA) + (0.45 \times SLA)]$ for residential areas.

$MAWA = (ETo - EPPT)(0.62)[(0.45 \times LA) + (0.55 \times SLA)]$ for non-residential areas.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. Repealer and new section; new NOTE and new Appendices A-C filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).
2. Amendment of section and NOTE filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

§ 495. Reporting.

(a) Local agencies shall report on implementation and enforcement by December 31, 2015. Local agencies responsible for administering individual ordinances shall report on their updated ordinance, while those agencies developing a regional ordinance shall report on their existing ordinance. Those agencies crafting a regional ordinance shall also report on their new ordinance by March 1, 2016. Subsequently, reporting for all agencies will be due by January 31st of each year. Reports shall be submitted to the Department of Water Resources.

(b) Local agencies are to address the following:

(1) State whether you are adopting a single agency ordinance or a regional agency alliance ordinance, and the date of adoption or anticipated date of adoption.

(2) Define the reporting period. The reporting period shall commence on December 1, 2015 and the end on December 28, 2015. For local agencies crafting regional ordinances with other agencies, there shall be an additional reporting period commencing on February 1, 2016 and ending on February 28, 2016. In subsequent years, all local agency reporting will be for the calendar year.

(3) State if using a locally modified Water Efficient Landscape Ordinance (WELO) or the MWELo. If using a locally modified WELO, how is it different than MWELo, is it at least as efficient as MWELo, and are there any exemptions specified?

(4) State the entity responsible for implementing the ordinance.

(5) State number and types of projects subject to the ordinance during the specified reporting period.

(6) State the total area (in square feet or acres) subject to the ordinance over the reporting period, if available.

(7) Provide the number of new housing starts, new commercial projects, and landscape retrofits during the reporting period.

(8) Describe the procedure for review of projects subject to the ordinance.

(9) Describe actions taken to verify compliance. Is a plan check performed; if so, by what entity? Is a site inspection performed; if so, by what entity? Is a post-installation audit required; if so, by whom?

(10) Describe enforcement measures.

(11) Explain challenges to implementing and enforcing the ordinance.

(12) Describe educational and other needs to properly apply the ordinance.

NOTE: Authority cited: Section 65595, Government Code; and sections 11 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Section 65596, Government Code; and section 11, Governor's Exec. Order No. B-29-15 (April 1, 2015).

HISTORY

1. New section filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38). For prior history, see Register 2009, No. 37.

Appendix A. Reference Evapotranspiration (ET_o) Table

Appendix A - Reference Evapotranspiration (ET _o) Table*													
County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ET _o
ALAMEDA													
Fremont	1.5	1.9	3.4	4.7	5.4	6.3	6.7	6.0	4.5	3.4	1.8	1.5	47.0
Livermore	1.2	1.5	2.9	4.4	5.9	6.6	7.4	6.4	5.3	3.2	1.5	0.9	47.2
Oakland	1.5	1.5	2.8	3.9	5.1	5.3	6.0	5.5	4.8	3.1	1.4	0.9	41.8
Oakland Foothills	1.1	1.4	2.7	3.7	5.1	6.4	5.8	4.9	3.6	2.6	1.4	1.0	39.6
Pleasanton	0.8	1.5	2.9	4.4	5.6	6.7	7.4	6.4	4.7	3.3	1.5	1.0	46.2
Union City	1.4	1.8	3.1	4.2	5.4	5.9	6.4	5.7	4.4	3.1	1.5	1.2	44.2
ALPINE													
Markleeville	0.7	0.9	2.0	3.5	5.0	6.1	7.3	6.4	4.4	2.6	1.2	0.5	40.6
AMADOR													
Jackson	1.2	1.5	2.8	4.4	6.0	7.2	7.9	7.2	5.3	3.2	1.4	0.9	48.9
Shanandoah Valley	1.0	1.7	2.9	4.4	5.6	6.8	7.9	7.1	5.2	3.6	1.7	1.0	48.8
BUTTE													
Chico	1.2	1.8	2.9	4.7	6.1	7.4	8.5	7.3	5.4	3.7	1.7	1.0	51.7
Durham	1.1	1.8	3.2	5.0	6.5	7.4	7.8	6.9	5.3	3.6	1.7	1.0	51.1
Gridley	1.2	1.8	3.0	4.7	6.1	7.7	8.5	7.1	5.4	3.7	1.7	1.0	51.9
Oroville	1.2	1.7	2.8	4.7	6.1	7.6	8.5	7.3	5.3	3.7	1.7	1.0	51.5
CALAVERAS													
San Andreas	1.2	1.5	2.8	4.4	6.0	7.3	7.9	7.0	5.3	3.2	1.4	0.7	48.8
COLUSA													
Colusa	1.0	1.7	3.4	5.0	6.4	7.6	8.3	7.2	5.4	3.8	1.8	1.1	52.8
Williams	1.2	1.7	2.9	4.5	6.1	7.2	8.5	7.3	5.3	3.4	1.6	1.0	50.8
CONTRA COSTA													
Brentwood	1.0	1.5	2.9	4.5	6.1	7.1	7.9	6.7	5.2	3.2	1.4	0.7	48.3
Concord	1.1	1.4	2.4	4.0	5.5	5.9	7.0	6.0	4.8	3.2	1.3	0.7	43.4
Courtland	0.9	1.5	2.9	4.4	6.1	6.9	7.9	6.7	5.3	3.2	1.4	0.7	48.0
Martinez	1.2	1.4	2.4	3.9	5.3	5.6	6.7	5.6	4.7	3.1	1.2	0.7	41.8
Moraga	1.2	1.5	3.4	4.2	5.5	6.1	6.7	5.9	4.6	3.2	1.6	1.0	44.9
Pittsburg	1.0	1.5	2.8	4.1	5.6	6.4	7.4	6.4	5.0	3.2	1.3	0.7	45.4
Walnut Creek	0.8	1.5	2.9	4.4	5.6	6.7	7.4	6.4	4.7	3.3	1.5	1.0	46.2
DEL NORTE													
Crescent City	0.5	0.9	2.0	3.0	3.7	3.5	4.3	3.7	3.0	2.0	0.9	0.5	27.7
EL DORADO													
Camino	0.9	1.7	2.5	3.9	5.9	7.2	7.8	6.8	5.1	3.1	1.5	0.9	47.3
FRESNO													
Clovis	1.0	1.5	3.2	4.8	6.4	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.4
Coalinga	1.2	1.7	3.1	4.6	6.2	7.2	8.5	7.3	5.3	3.4	1.6	0.7	50.9
Firebaugh	1.0	1.8	3.7	5.7	7.3	8.1	8.2	7.2	5.5	3.9	2.0	1.1	55.4
FivePoints	1.3	2.0	4.0	6.1	7.7	8.5	8.7	8.0	6.2	4.5	2.4	1.2	60.4
Fresno	0.9	1.7	3.3	4.8	6.7	7.8	8.4	7.1	5.2	3.2	1.4	0.6	51.1
Fresno State	0.9	1.6	3.2	5.2	7.0	8.0	8.7	7.6	5.4	3.6	1.7	0.9	53.7
Friant	1.2	1.5	3.1	4.7	6.4	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.3
Kerman	0.9	1.5	3.2	4.8	6.6	7.7	8.4	7.2	5.3	3.4	1.4	0.7	51.2
Kingsburg	1.0	1.5	3.4	4.8	6.6	7.7	8.4	7.2	5.3	3.4	1.4	0.7	51.6
Mendota	1.5	2.5	4.6	6.2	7.9	8.6	8.8	7.5	5.9	4.5	2.4	1.5	61.7
Orange Cove	1.2	1.9	3.5	4.7	7.4	8.5	8.9	7.9	5.9	3.7	1.8	1.2	56.7
Panoche	1.1	2.0	4.0	5.6	7.8	8.5	8.3	7.3	5.6	3.9	1.8	1.2	57.2
Parlier	1.0	1.9	3.6	5.2	6.8	7.6	8.1	7.0	5.1	3.4	1.7	0.9	52.0

Appendix A - Reference Evapotranspiration (ET_o) Table*													
County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ET_o
FRESNO													
Reedley	1.1	1.5	3.2	4.7	6.4	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.3
Westlands	0.9	1.7	3.8	6.3	8.0	8.6	8.6	7.8	5.9	4.3	2.1	1.1	58.8
GLENN													
Orland	1.1	1.8	3.4	5.0	6.4	7.5	7.9	6.7	5.3	3.9	1.8	1.4	52.1
Willows	1.2	1.7	2.9	4.7	6.1	7.2	8.5	7.3	5.3	3.6	1.7	1.0	51.3
HUMBOLDT													
Eureka	0.5	1.1	2.0	3.0	3.7	3.7	3.7	3.7	3.0	2.0	0.9	0.5	27.5
Ferndale	0.5	1.1	2.0	3.0	3.7	3.7	3.7	3.7	3.0	2.0	0.9	0.5	27.5
Garberville	0.6	1.2	2.2	3.1	4.5	5.0	5.5	4.9	3.8	2.4	1.0	0.7	34.9
Hoopla	0.5	1.1	2.1	3.0	4.4	5.4	6.1	5.1	3.8	2.4	0.9	0.7	35.6
IMPERIAL													
Brawley	2.8	3.8	5.9	8.0	10.4	11.5	11.7	10.0	8.4	6.2	3.5	2.1	84.2
Calipatria/Mulberry	2.4	3.2	5.1	6.8	8.6	9.2	9.2	8.6	7.0	5.2	3.1	2.3	70.7
El Centro	2.7	3.5	5.6	7.9	10.1	11.1	11.6	9.5	8.3	6.1	3.3	2.0	81.7
Holtville	2.8	3.8	5.9	7.9	10.4	11.6	12.0	10.0	8.6	6.2	3.5	2.1	84.7
Meloland	2.5	3.2	5.5	7.5	8.9	9.2	9.0	8.5	6.8	5.3	3.1	2.2	71.6
Palo Verde II	2.5	3.3	5.7	6.9	8.5	8.9	8.6	7.9	6.2	4.5	2.9	2.3	68.2
Seeley	2.7	3.5	5.9	7.7	9.7	10.1	9.3	8.3	6.9	5.5	3.4	2.2	75.4
Westmoreland	2.4	3.3	5.3	6.9	8.7	9.6	9.6	8.7	6.9	5.0	3.0	2.2	71.4
Yuma	2.5	3.4	5.3	6.9	8.7	9.6	9.6	8.7	6.9	5.0	3.0	2.2	71.6
INYO													
Bishop	1.7	2.7	4.8	6.7	8.2	10.9	7.4	9.6	7.4	4.8	2.5	1.6	68.3
Death Valley Jct	2.2	3.3	5.4	7.7	9.8	11.1	11.4	10.1	8.3	5.4	2.9	1.7	79.1
Independence	1.7	2.7	3.4	6.6	8.5	9.5	9.8	8.5	7.1	3.9	2.0	1.5	65.2
Lower Haiwee Res.	1.8	2.7	4.4	7.1	8.5	9.5	9.8	8.5	7.1	4.2	2.6	1.5	67.6
Oasis	2.7	2.8	5.9	8.0	10.4	11.7	11.6	10.0	8.4	6.2	3.4	2.1	83.1
KERN													
Arvin	1.2	1.8	3.5	4.7	6.6	7.4	8.1	7.3	5.3	3.4	1.7	1.0	51.9
Bakersfield	1.0	1.8	3.5	4.7	6.6	7.7	8.5	7.3	5.3	3.5	1.6	0.9	52.4
Bakersfield/Bonanza	1.2	2.2	3.7	5.7	7.4	8.2	8.7	7.8	5.7	4.0	2.1	1.2	57.9
Bakersfield/Greenlee	1.2	2.2	3.7	5.7	7.4	8.2	8.7	7.8	5.7	4.0	2.1	1.2	57.9
Belridge	1.4	2.2	4.1	5.5	7.7	8.5	8.6	7.8	6.0	3.8	2.0	1.5	59.2
Blackwells Corner	1.4	2.1	3.8	5.4	7.0	7.8	8.5	7.7	5.8	3.9	1.9	1.2	56.6
Buttonwillow	1.0	1.8	3.2	4.7	6.6	7.7	8.5	7.3	5.4	3.4	1.5	0.9	52.0
China Lake	2.1	3.2	5.3	7.7	9.2	10.0	11.0	9.8	7.3	4.9	2.7	1.7	74.8
Delano	0.9	1.8	3.4	4.7	6.6	7.7	8.5	7.3	5.4	3.4	1.4	0.7	52.0
Famoso	1.3	1.9	3.5	4.8	6.7	7.6	8.0	7.3	5.5	3.5	1.7	1.3	53.1
Grapevine	1.3	1.8	3.1	4.4	5.6	6.8	7.6	6.8	5.9	3.4	1.9	1.0	49.5
Inyokern	2.0	3.1	4.9	7.3	8.5	9.7	11.0	9.4	7.1	5.1	2.6	1.7	72.4
Isabella Dam	1.2	1.4	2.8	4.4	5.8	7.3	7.9	7.0	5.0	3.2	1.7	0.9	48.4
Lamont	1.3	2.4	4.4	4.6	6.5	7.0	8.8	7.6	5.7	3.7	1.6	0.8	54.4
Lost Hills	1.6	2.2	3.7	5.1	6.8	7.8	8.7	7.8	5.7	4.0	2.1	1.6	57.1
McFarland/Kern	1.2	2.1	3.7	5.6	7.3	8.0	8.3	7.4	5.6	4.1	2.0	1.2	56.5
Shafter	1.0	1.7	3.4	5.0	6.6	7.7	8.3	7.3	5.4	3.4	1.5	0.9	52.1
Taft	1.3	1.8	3.1	4.3	6.2	7.3	8.5	7.3	5.4	3.4	1.7	1.0	51.2
Tehachapi	1.4	1.8	3.2	5.0	6.1	7.7	7.9	7.3	5.9	3.4	2.1	1.2	52.9
KINGS													
Caruthers	1.6	2.5	4.0	5.7	7.8	8.7	9.3	8.4	6.3	4.4	2.4	1.6	62.7

Appendix A - Reference Evapotranspiration (ETo) Table*													
County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ETo
KINGS													
Corcoran	1.6	2.2	3.7	5.1	6.8	7.8	8.7	7.8	5.7	4.0	2.1	1.6	57.1
Hanford	0.9	1.5	3.4	5.0	6.6	7.7	8.3	7.2	5.4	3.4	1.4	0.7	51.5
Kettleman	1.1	2.0	4.0	6.0	7.5	8.5	9.1	8.2	6.1	4.5	2.2	1.1	60.2
Lemoore	0.9	1.5	3.4	5.0	6.6	7.7	8.3	7.3	5.4	3.4	1.4	0.7	51.7
Stratford	0.9	1.9	3.9	6.1	7.8	8.6	8.8	7.7	5.9	4.1	2.1	1.0	58.7
LAKE													
Lakeport	1.1	1.3	2.6	3.5	5.1	6.0	7.3	6.1	4.7	2.9	1.2	0.9	42.8
Lower Lake	1.2	1.4	2.7	4.5	5.3	6.3	7.4	6.4	5.0	3.1	1.3	0.9	45.4
LASSEN													
Buntingville	1.0	1.7	3.5	4.9	6.2	7.3	8.4	7.5	5.4	3.4	1.5	0.9	51.8
Ravendale	0.6	1.1	2.3	4.1	5.6	6.7	7.9	7.3	4.7	2.8	1.2	0.5	44.9
Susanville	0.7	1.0	2.2	4.1	5.6	6.5	7.8	7.0	4.6	2.8	1.2	0.5	44.0
LOS ANGELES													
Burbank	2.1	2.8	3.7	4.7	5.1	6.0	6.6	6.7	5.4	4.0	2.6	2.0	51.7
Claremont	2.0	2.3	3.4	4.6	5.0	6.0	7.0	7.0	5.3	4.0	2.7	2.1	51.3
El Dorado	1.7	2.2	3.6	4.8	5.1	5.7	5.9	5.9	4.4	3.2	2.2	1.7	46.3
Glendale	2.0	2.2	3.3	3.8	4.7	4.8	5.7	5.6	4.3	3.3	2.2	1.8	43.7
Glendora	2.0	2.5	3.6	4.9	5.4	6.1	7.3	6.8	5.7	4.2	2.6	2.0	53.1
Gorman	1.6	2.2	3.4	4.6	5.5	7.4	7.7	7.1	5.9	3.6	2.4	1.1	52.4
Hollywood Hills	2.1	2.2	3.8	5.4	6.0	6.5	6.7	6.4	5.2	3.7	2.8	2.1	52.8
Lancaster	2.1	3.0	4.6	5.9	8.5	9.7	11.0	9.8	7.3	4.6	2.8	1.7	71.1
Long Beach	1.8	2.1	3.3	3.9	4.5	4.3	5.3	4.7	3.7	2.8	1.8	1.5	39.7
Los Angeles	2.2	2.7	3.7	4.7	5.5	5.8	6.2	5.9	5.0	3.9	2.6	1.9	50.1
Monrovia	2.2	2.3	3.8	4.3	5.5	5.9	6.9	6.4	5.1	3.2	2.5	2.0	50.2
Palmdale	2.0	2.6	4.6	6.2	7.3	8.9	9.8	9.0	6.5	4.7	2.7	2.1	66.2
Pasadena	2.1	2.7	3.7	4.7	5.1	6.0	7.1	6.7	5.6	4.2	2.6	2.0	52.3
Pearblossom	1.7	2.4	3.7	4.7	7.3	7.7	9.9	7.9	6.4	4.0	2.6	1.6	59.9
Pomona	1.7	2.0	3.4	4.5	5.0	5.8	6.5	6.4	4.7	3.5	2.3	1.7	47.5
Redondo Beach	2.2	2.4	3.3	3.8	4.5	4.7	5.4	4.8	4.4	2.8	2.4	2.0	42.6
San Fernando	2.0	2.7	3.5	4.6	5.5	5.9	7.3	6.7	5.3	3.9	2.6	2.0	52.0
Santa Clarita	2.8	2.8	4.1	5.6	6.0	6.8	7.6	7.8	5.8	5.2	3.7	3.2	61.5
Santa Monica	1.8	2.1	3.3	4.5	4.7	5.0	5.4	5.4	3.9	3.4	2.4	2.2	44.2
MADERA													
Chowchilla	1.0	1.4	3.2	4.7	6.6	7.8	8.5	7.3	5.3	3.4	1.4	0.7	51.4
Madera	0.9	1.4	3.2	4.8	6.6	7.8	8.5	7.3	5.3	3.4	1.4	0.7	51.5
Raymond	1.2	1.5	3.0	4.6	6.1	7.6	8.4	7.3	5.2	3.4	1.4	0.7	50.5
MARIN													
Black Point	1.1	1.7	3.0	4.2	5.2	6.2	6.6	5.8	4.3	2.8	1.3	0.9	43.0
Novato	1.3	1.5	2.4	3.5	4.4	6.0	5.9	5.4	4.4	2.8	1.4	0.7	39.8
Point San Pedro	1.1	1.7	3.0	4.2	5.2	6.2	6.6	5.8	4.3	2.8	1.3	0.9	43.0
San Rafael	1.2	1.3	2.4	3.3	4.0	4.8	4.8	4.9	4.3	2.7	1.3	0.7	35.8
MARIPOSA													
Coulterville	1.1	1.5	2.8	4.4	5.9	7.3	8.1	7.0	5.3	3.4	1.4	0.7	48.8
Mariposa	1.1	1.5	2.8	4.4	5.9	7.4	8.2	7.1	5.0	3.4	1.4	0.7	49.0
Yosemite Village	0.7	1.0	2.3	3.7	5.1	6.5	7.1	6.1	4.4	2.9	1.1	0.6	41.4
MENDOCINO													
Fort Bragg	0.9	1.3	2.2	3.0	3.7	3.5	3.7	3.7	3.0	2.3	1.2	0.7	29.0
Hopland	1.1	1.3	2.6	3.4	5.0	5.9	6.5	5.7	4.5	2.8	1.3	0.7	40.9

Appendix A - Reference Evapotranspiration (ET_o) Table*													
County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ET_o
MENDOCINO													
Point Arena	1.0	1.3	2.3	3.0	3.7	3.9	3.7	3.7	3.0	2.3	1.2	0.7	29.6
Sanel Valley	1.0	1.6	3.0	4.6	6.0	7.0	8.0	7.0	5.2	3.4	1.4	0.9	49.1
Ukiah	1.0	1.3	2.6	3.3	5.0	5.8	6.7	5.9	4.5	2.8	1.3	0.7	40.9
MERCED													
Kesterson	0.9	1.7	3.4	5.5	7.3	8.2	8.6	7.4	5.5	3.8	1.8	0.9	55.1
Los Banos	1.0	1.5	3.2	4.7	6.1	7.4	8.2	7.0	5.3	3.4	1.4	0.7	50.0
Merced	1.0	1.5	3.2	4.7	6.6	7.9	8.5	7.2	5.3	3.4	1.4	0.7	51.5
MODOC													
Modoc/Alturas	0.9	1.4	2.8	3.7	5.1	6.2	7.5	6.6	4.6	2.8	1.2	0.7	43.2
MONO													
Bridgeport	0.7	0.9	2.2	3.8	5.5	6.6	7.4	6.7	4.7	2.7	1.2	0.5	43.0
MONTEREY													
Arroyo Seco	1.5	2.0	3.7	5.4	6.3	7.3	7.2	6.7	5.0	3.9	2.0	1.6	52.6
Castroville	1.4	1.7	3.0	4.2	4.6	4.8	4.0	3.8	3.0	2.6	1.6	1.4	36.2
Gonzales	1.3	1.7	3.4	4.7	5.4	6.3	6.3	5.9	4.4	3.4	1.9	1.3	45.7
Greenfield	1.8	2.2	3.4	4.8	5.6	6.3	6.5	6.2	4.8	3.7	2.4	1.8	49.5
King City	1.7	2.0	3.4	4.4	4.4	5.6	6.1	6.7	6.5	5.2	2.2	1.3	49.6
King City-Oasis Rd.	1.4	1.9	3.6	5.3	6.5	7.3	7.4	6.8	5.1	4.0	2.0	1.5	52.7
Long Valley	1.5	1.9	3.2	4.1	5.8	6.5	7.3	6.7	5.3	3.6	2.0	1.2	49.1
Monterey	1.7	1.8	2.7	3.5	4.0	4.1	4.3	4.2	3.5	2.8	1.9	1.5	36.0
Pajaro	1.8	2.2	3.7	4.8	5.3	5.7	5.6	5.3	4.3	3.4	2.4	1.8	46.1
Salinas	1.6	1.9	2.7	3.8	4.8	4.7	5.0	4.5	4.0	2.9	1.9	1.3	39.1
Salinas North	1.2	1.5	2.9	4.1	4.6	5.2	4.5	4.3	3.2	2.8	1.5	1.2	36.9
San Ardo	1.0	1.7	3.1	4.5	5.9	7.2	8.1	7.1	5.1	3.1	1.5	1.0	49.0
San Juan	1.8	2.1	3.4	4.6	5.3	5.7	5.5	4.9	3.8	3.2	2.2	1.9	44.2
Soledad	1.7	2.0	3.4	4.4	5.5	5.4	6.5	6.2	5.2	3.7	2.2	1.5	47.7
NAPA													
Angwin	1.8	1.9	3.2	4.7	5.8	7.3	8.1	7.1	5.5	4.5	2.9	2.1	54.9
Careros	0.8	1.5	3.1	4.6	5.5	6.6	6.9	6.2	4.7	3.5	1.4	1.0	45.8
Oakville	1.0	1.5	2.9	4.7	5.8	6.9	7.2	6.4	4.9	3.5	1.6	1.2	47.7
St Helena	1.2	1.5	2.8	3.9	5.1	6.1	7.0	6.2	4.8	3.1	1.4	0.9	44.1
Yountville	1.3	1.7	2.8	3.9	5.1	6.0	7.1	6.1	4.8	3.1	1.5	0.9	44.3
NEVADA													
Grass Valley	1.1	1.5	2.6	4.0	5.7	7.1	7.9	7.1	5.3	3.2	1.5	0.9	48.0
Nevada City	1.1	1.5	2.6	3.9	5.8	6.9	7.9	7.0	5.3	3.2	1.4	0.9	47.4
ORANGE													
Irvine	2.2	2.5	3.7	4.7	5.2	5.9	6.3	6.2	4.6	3.7	2.6	2.3	49.6
Laguna Beach	2.2	2.7	3.4	3.8	4.6	4.6	4.9	4.9	4.4	3.4	2.4	2.0	43.2
Santa Ana	2.2	2.7	3.7	4.5	4.6	5.4	6.2	6.1	4.7	3.7	2.5	2.0	48.2
PLACER													
Auburn	1.2	1.7	2.8	4.4	6.1	7.4	8.3	7.3	5.4	3.4	1.6	1.0	50.6
Blue Canyon	0.7	1.1	2.1	3.4	4.8	6.0	7.2	6.1	4.6	2.9	0.9	0.6	40.5
Colfax	1.1	1.5	2.6	4.0	5.8	7.1	7.9	7.0	5.3	3.2	1.4	0.9	47.9
Roseville	1.1	1.7	3.1	4.7	6.2	7.7	8.5	7.3	5.6	3.7	1.7	1.0	52.2
Soda Springs	0.7	0.7	1.8	3.0	4.3	5.3	6.2	5.5	4.1	2.5	0.7	0.7	35.4
Tahoe City	0.7	0.7	1.7	3.0	4.3	5.4	6.1	5.6	4.1	2.4	0.8	0.6	35.5
Truckee	0.7	0.7	1.7	3.2	4.4	5.4	6.4	5.7	4.1	2.4	0.8	0.6	36.2

Appendix A - Reference Evapotranspiration (ETo) Table*													
County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ETo
PLUMAS													
Portola	0.7	0.9	1.9	3.5	4.9	5.9	7.3	5.9	4.3	2.7	0.9	0.5	39.4
Quincy	0.7	0.9	2.2	3.5	4.9	5.9	7.3	5.9	4.4	2.8	1.2	0.5	40.2
RIVERSIDE													
Beaumont	2.0	2.3	3.4	4.4	6.1	7.1	7.6	7.9	6.0	3.9	2.6	1.7	55.0
Blythe	2.4	3.3	5.3	6.9	8.7	9.6	9.6	8.7	6.9	5.0	3.0	2.2	71.4
Cathedral City	1.6	2.2	3.7	5.1	6.8	7.8	8.7	7.8	5.7	4.0	2.1	1.6	57.1
Coachella	2.9	4.4	6.2	8.4	10.5	11.9	12.3	10.1	8.9	6.2	3.8	2.4	88.1
Desert Center	2.9	4.1	6.4	8.5	11.0	12.1	12.2	11.1	9.0	6.4	3.9	2.6	90.0
Elsinore	2.1	2.8	3.9	4.4	5.9	7.1	7.6	7.0	5.8	3.9	2.6	1.9	55.0
Indio	3.1	3.6	6.5	8.3	10.5	11.0	10.8	9.7	8.3	5.9	3.7	2.7	83.9
La Quinta	2.4	2.8	5.2	6.5	8.3	8.7	8.5	7.9	6.5	4.5	2.7	2.2	66.2
Mecca	2.6	3.3	5.7	7.2	8.6	9.0	8.8	8.2	6.8	5.0	3.2	2.4	70.8
Oasis	2.9	3.3	5.3	6.1	8.5	8.9	8.7	7.9	6.9	4.8	2.9	2.3	68.4
Palm Desert	2.5	3.4	5.3	6.9	8.7	9.6	9.6	8.7	6.9	5.0	3.0	2.2	71.6
Palm Springs	2.0	2.9	4.9	7.2	8.3	8.5	11.6	8.3	7.2	5.9	2.7	1.7	71.1
Rancho California	1.8	2.2	3.4	4.8	5.6	6.3	6.5	6.2	4.8	3.7	2.4	1.8	49.5
Rancho Mirage	2.4	3.3	5.3	6.9	8.7	9.6	9.6	8.7	6.9	5.0	3.0	2.2	71.4
Ripley	2.7	3.3	5.6	7.2	8.7	8.7	8.4	7.6	6.2	4.6	2.8	2.2	67.8
Salton Sea North	2.5	3.3	5.5	7.2	8.8	9.3	9.2	8.5	6.8	5.2	3.1	2.3	71.7
Temecula East II	2.3	2.4	4.1	4.9	6.4	7.0	7.8	7.4	5.7	4.1	2.6	2.2	56.7
Thermal	2.4	3.3	5.5	7.6	9.1	9.6	9.3	8.6	7.1	5.2	3.1	2.1	72.8
Riverside UC	2.5	2.9	4.2	5.3	5.9	6.6	7.2	6.9	5.4	4.1	2.9	2.6	56.4
Winchester	2.3	2.4	4.1	4.9	6.4	6.9	7.7	7.5	6.0	3.9	2.6	2.1	56.8
SACRAMENTO													
Fair Oaks	1.0	1.6	3.4	4.1	6.5	7.5	8.1	7.1	5.2	3.4	1.5	1.0	50.5
Sacramento	1.0	1.8	3.2	4.7	6.4	7.7	8.4	7.2	5.4	3.7	1.7	0.9	51.9
Twitchell Island	1.2	1.8	3.9	5.3	7.4	8.8	9.1	7.8	5.9	3.8	1.7	1.2	57.9
SAN BENITO													
Hollister	1.5	1.8	3.1	4.3	5.5	5.7	6.4	5.9	5.0	3.5	1.7	1.1	45.1
San Benito	1.2	1.6	3.1	4.6	5.6	6.4	6.9	6.5	4.8	3.7	1.7	1.2	47.2
San Juan Valley	1.4	1.8	3.4	4.5	6.0	6.7	7.1	6.4	5.0	3.5	1.8	1.4	49.1
SAN BERNARDINO													
Baker	2.7	3.9	6.1	8.3	10.4	11.8	12.2	11.0	8.9	6.1	3.3	2.1	86.6
Barstow NE	2.2	2.9	5.3	6.9	9.0	10.1	9.9	8.9	6.8	4.8	2.7	2.1	71.7
Big Bear Lake	1.8	2.6	4.6	6.0	7.0	7.6	8.1	7.4	5.4	4.1	2.4	1.8	58.6
Chino	2.1	2.9	3.9	4.5	5.7	6.5	7.3	7.1	5.9	4.2	2.6	2.0	54.6
Crestline	1.5	1.9	3.3	4.4	5.5	6.6	7.8	7.1	5.4	3.5	2.2	1.6	50.8
Lake Arrowhead	1.8	2.6	4.6	6.0	7.0	7.6	8.1	7.4	5.4	4.1	2.4	1.8	58.6
Lucerne Valley	2.2	2.9	5.1	6.5	9.1	11.0	11.4	9.9	7.4	5.0	3.0	1.8	75.3
Needles	3.2	4.2	6.6	8.9	11.0	12.4	12.8	11.0	8.9	6.6	4.0	2.7	92.1
Newberry Springs	2.1	2.9	5.3	8.4	9.8	10.9	11.1	9.9	7.6	5.2	3.1	2.0	78.2
San Bernardino	2.0	2.7	3.8	4.6	5.7	6.9	7.9	7.4	5.9	4.2	2.6	2.0	55.6
Twentynine Palms	2.6	3.6	5.9	7.9	10.1	11.2	11.2	10.3	8.6	5.9	3.4	2.2	82.9
Victorville	2.0	2.6	4.6	6.2	7.3	8.9	9.8	9.0	6.5	4.7	2.7	2.1	66.2
SAN DIEGO													
Chula Vista	2.2	2.7	3.4	3.8	4.9	4.7	5.5	4.9	4.5	3.4	2.4	2.0	44.2
Escondido SPV	2.4	2.6	3.9	4.7	5.9	6.5	7.1	6.7	5.3	3.9	2.8	2.3	54.2
Miramar	2.3	2.5	3.7	4.1	5.1	5.4	6.1	5.8	4.5	3.3	2.4	2.1	47.1

Appendix A - Reference Evapotranspiration (ET_o) Table*													
County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ET_o
SAN DIEGO													
Oceanside	2.2	2.7	3.4	3.7	4.9	4.6	4.6	5.1	4.1	3.3	2.4	2.0	42.9
Otay Lake	2.3	2.7	3.9	4.6	5.6	5.9	6.2	6.1	4.8	3.7	2.6	2.2	50.4
Pine Valley	1.5	2.4	3.8	5.1	6.0	7.0	7.8	7.3	6.0	4.0	2.2	1.7	54.8
Ramona	2.1	2.1	3.4	4.6	5.2	6.3	6.7	6.8	5.3	4.1	2.8	2.1	51.6
San Diego	2.1	2.4	3.4	4.6	5.1	5.3	5.7	5.6	4.3	3.6	2.4	2.0	46.5
Santee	2.1	2.7	3.7	4.5	5.5	6.1	6.6	6.2	5.4	3.8	2.6	2.0	51.1
Torrey Pines	2.2	2.3	3.4	3.9	4.0	4.1	4.6	4.7	3.8	2.8	2.0	2.0	39.8
Warner Springs	1.6	2.7	3.7	4.7	5.7	7.6	8.3	7.7	6.3	4.0	2.5	1.3	56.0
SAN FRANCISCO													
San Francisco	1.5	1.3	2.4	3.0	3.7	4.6	4.9	4.8	4.1	2.8	1.3	0.7	35.1
SAN JOAQUIN													
Farmington	1.5	1.5	2.9	4.7	6.2	7.6	8.1	6.8	5.3	3.3	1.4	0.7	50.0
Lodi West	1.0	1.6	3.3	4.3	6.3	6.9	7.3	6.4	4.5	3.0	1.4	0.8	46.7
Manteca	0.9	1.7	3.4	5.0	6.5	7.5	8.0	7.1	5.2	3.3	1.6	0.9	51.2
Stockton	0.8	1.5	2.9	4.7	6.2	7.4	8.1	6.8	5.3	3.2	1.4	0.6	49.1
Tracy	1.0	1.5	2.9	4.5	6.1	7.3	7.9	6.7	5.3	3.2	1.3	0.7	48.5
SAN LUIS OBISPO													
Arroyo Grande	2.0	2.2	3.2	3.8	4.3	4.7	4.3	4.6	3.8	3.2	2.4	1.7	40.0
Atascadero	1.2	1.5	2.8	3.9	4.5	6.0	6.7	6.2	5.0	3.2	1.7	1.0	43.7
Morro Bay	2.0	2.2	3.1	3.5	4.3	4.5	4.6	4.6	3.8	3.5	2.1	1.7	39.9
Nipomo	2.2	2.5	3.8	5.1	5.7	6.2	6.4	6.1	4.9	4.1	2.9	2.3	52.1
Paso Robles	1.6	2.0	3.2	4.3	5.5	6.3	7.3	6.7	5.1	3.7	2.1	1.4	49.0
San Luis Obispo	2.0	2.2	3.2	4.1	4.9	5.3	4.6	5.5	4.4	3.5	2.4	1.7	43.8
San Miguel	1.6	2.0	3.2	4.3	5.0	6.4	7.4	6.8	5.1	3.7	2.1	1.4	49.0
San Simeon	2.0	2.0	2.9	3.5	4.2	4.4	4.6	4.3	3.5	3.1	2.0	1.7	38.1
SAN MATEO													
Hal Moon Bay	1.5	1.7	2.4	3.0	3.9	4.3	4.3	4.2	3.5	2.8	1.3	1.0	33.7
Redwood City	1.5	1.8	2.9	3.8	5.2	5.3	6.2	5.6	4.8	3.1	1.7	1.0	42.8
Woodside	1.8	2.2	3.4	4.8	5.6	6.3	6.5	6.2	4.8	3.7	2.4	1.8	49.5
SANTA BARBARA													
Bettcravia	2.1	2.6	4.0	5.2	6.0	5.9	5.8	5.4	4.1	3.3	2.7	2.1	49.1
Carpenteria	2.0	2.4	3.2	3.9	4.8	5.2	5.5	5.7	4.5	3.4	2.4	2.0	44.9
Cuyama	2.1	2.4	3.8	5.4	6.9	7.9	8.5	7.7	5.9	4.5	2.6	2.0	59.7
Goleta	2.1	2.5	3.9	5.1	5.7	5.7	5.4	5.4	4.2	3.2	2.8	2.2	48.1
Goleta Foothills	2.3	2.6	3.7	5.4	5.3	5.6	5.5	5.7	4.5	3.9	2.8	2.3	49.6
Guadalupe	2.0	2.2	3.2	3.7	4.9	4.6	4.5	4.6	4.1	3.3	2.4	1.7	41.1
Lompoc	2.0	2.2	3.2	3.7	4.8	4.6	4.9	4.8	3.9	3.2	2.4	1.7	41.1
Los Alamos	1.8	2.0	3.2	4.1	4.9	5.3	5.7	5.5	4.4	3.7	2.4	1.6	44.6
Santa Barbara	2.0	2.5	3.2	3.8	4.6	5.1	5.5	4.5	3.4	2.4	1.8	1.8	40.6
Santa Maria	1.8	2.3	3.7	5.1	5.7	5.8	5.6	5.3	4.2	3.5	2.4	1.9	47.4
Santa Ynez	1.7	2.2	3.5	5.0	5.8	6.2	6.4	6.0	4.5	3.6	2.2	1.7	48.7
Sisquoc	2.1	2.5	3.8	4.1	6.1	6.3	6.4	5.8	4.7	3.4	2.3	1.8	49.2
Solvang	2.0	2.0	3.3	4.3	5.0	5.6	6.1	5.6	4.4	3.7	2.2	1.6	45.6
SANTA CLARA													
Gilroy	1.3	1.8	3.1	4.1	5.3	5.6	6.1	5.5	4.7	3.4	1.7	1.1	43.6
Los Gatos	1.5	1.8	2.8	3.9	5.0	5.6	6.2	5.5	4.7	3.2	1.7	1.1	42.9
Morgan Hill	1.5	1.8	3.4	4.2	6.3	7.0	7.1	6.0	5.1	3.7	1.9	1.4	49.5
Palo Alto	1.5	1.8	2.8	3.8	5.2	5.3	6.2	5.6	5.0	3.2	1.7	1.0	43.0

Appendix A - Reference Evapotranspiration (ETo) Table*													
County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ETo
SANTA CLARA													
San Jose	1.5	1.8	3.1	4.1	5.5	5.8	6.5	5.9	5.2	3.3	1.8	1.0	45.3
SANTA CRUZ													
De Laveaga	1.4	1.9	3.3	4.7	4.9	5.3	5.0	4.8	3.6	3.0	1.6	1.3	40.8
Green Valley Rd	1.2	1.8	3.2	4.5	4.6	5.4	5.2	5.0	3.7	3.1	1.6	1.3	40.6
Santa Cruz	1.5	1.8	2.6	3.5	4.3	4.4	4.8	4.4	3.8	2.8	1.7	1.2	36.6
Watsonville	1.5	1.8	2.7	3.7	4.6	4.5	4.9	4.2	4.0	2.9	1.8	1.2	37.7
Webb	1.8	2.2	3.7	4.8	5.3	5.7	5.6	5.3	4.3	3.4	2.4	1.8	46.2
SHASTA													
Burney	0.7	1.0	2.1	3.5	4.9	5.9	7.4	6.4	4.4	2.9	0.9	0.6	40.9
Fall River Mills	0.6	1.0	2.1	3.7	5.0	6.1	7.8	6.7	4.6	2.8	0.9	0.5	41.8
Glenburn	0.6	1.0	2.1	3.7	5.0	6.3	7.8	6.7	4.7	2.8	0.9	0.6	42.1
McArthur	0.7	1.4	2.9	4.2	5.6	6.9	8.2	7.2	5.0	3.0	1.1	0.6	46.8
Redding	1.2	1.4	2.6	4.1	5.6	7.1	8.5	7.3	5.3	3.2	1.4	0.9	48.8
SIERRA													
Downieville	0.7	1.0	2.3	3.5	5.0	6.0	7.4	6.2	4.7	2.8	0.9	0.6	41.3
Sierraville	0.7	1.1	2.2	3.2	4.5	5.9	7.3	6.4	4.3	2.6	0.9	0.5	39.6
SISKIYOU													
Happy Camp	0.5	0.9	2.0	3.0	4.3	5.2	6.1	5.3	4.1	2.4	0.9	0.5	35.1
MacDoel	1.0	1.7	3.1	4.5	5.9	7.2	8.1	7.1	5.1	3.1	1.5	1.0	49.0
Mt Shasta	0.5	0.9	2.0	3.0	4.5	5.3	6.7	5.7	4.0	2.2	0.7	0.5	36.0
Tule lake FS	0.7	1.3	2.7	4.0	5.4	6.3	7.1	6.4	4.7	2.8	1.0	0.6	42.9
Weed	0.5	0.9	2.0	2.5	4.5	5.3	6.7	5.5	3.7	2.0	0.9	0.5	34.9
Yreka	0.6	0.9	2.1	3.0	4.9	5.8	7.3	6.5	4.3	2.5	0.9	0.5	39.2
SOLANO													
Benicia	1.3	1.4	2.7	3.8	4.9	5.0	6.4	5.5	4.4	2.9	1.2	0.7	40.3
Dixon	0.7	1.4	3.2	5.2	6.3	7.6	8.2	7.2	5.5	4.3	1.6	1.1	52.1
Fairfield	1.1	1.7	2.8	4.0	5.5	6.1	7.8	6.0	4.8	3.1	1.4	0.9	45.2
Hastings Tract	1.6	2.2	3.7	5.1	6.8	7.8	8.7	7.8	5.7	4.0	2.1	1.6	57.1
Putah Creek	1.0	1.6	3.2	4.9	6.1	7.3	7.9	7.0	5.3	3.8	1.8	1.2	51.0
Rio Vista	0.9	1.7	2.8	4.4	5.9	6.7	7.9	6.5	5.1	3.2	1.3	0.7	47.0
Suisun Valley	0.6	1.3	3.0	4.7	5.8	7.0	7.7	6.8	5.3	3.8	1.4	0.9	48.3
Winters	0.9	1.7	3.3	5.0	6.4	7.5	7.9	7.0	5.2	3.5	1.6	1.0	51.0
SONOMA													
Bennett Valley	1.1	1.7	3.2	4.1	5.5	6.5	6.6	5.7	4.5	3.1	1.5	0.9	44.4
Cloverdale	1.1	1.4	2.6	3.4	5.0	5.9	6.2	5.6	4.5	2.8	1.4	0.7	40.7
Fort Ross	1.2	1.4	2.2	3.0	3.7	4.5	4.2	4.3	3.4	2.4	1.2	0.5	31.9
Healdsburg	1.2	1.5	2.4	3.5	5.0	5.9	6.1	5.6	4.5	2.8	1.4	0.7	40.8
Lincoln	1.2	1.7	2.8	4.7	6.1	7.4	8.4	7.3	5.4	3.7	1.9	1.2	51.9
Petaluma	1.2	1.5	2.8	3.7	4.6	5.6	4.6	5.7	4.5	2.9	1.4	0.9	39.6
Santa Rosa	1.2	1.7	2.8	3.7	5.0	6.0	6.1	5.9	4.5	2.9	1.5	0.7	42.0
Valley of the Moon	1.0	1.6	3.0	4.5	5.6	6.6	7.1	6.3	4.7	3.3	1.5	1.0	46.1
Windsor	0.9	1.6	3.0	4.5	5.5	6.5	6.5	5.9	4.4	3.2	1.4	1.0	44.2
STANISLAUS													
Denair	1.0	1.9	3.6	4.7	7.0	7.9	8.0	6.1	5.3	3.4	1.5	1.0	51.4
La Grange	1.2	1.5	3.1	4.7	6.2	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.2
Modesto	0.9	1.4	3.2	4.7	6.4	7.7	8.1	6.8	5.0	3.4	1.4	0.7	49.7
Newman	1.0	1.5	3.2	4.6	6.2	7.4	8.1	6.7	5.0	3.4	1.4	0.7	49.3
Oakdale	1.2	1.5	3.2	4.7	6.2	7.7	8.1	7.1	5.1	3.4	1.4	0.7	50.3

Appendix A - Reference Evapotranspiration (ET_o) Table*													
County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual ET_o
STANISLAUS													
Patterson	1.3	2.1	4.2	5.4	7.9	8.6	8.2	6.6	5.8	4.0	1.9	1.3	57.3
Turlock	0.9	1.5	3.2	4.7	6.5	7.7	8.2	7.0	5.1	3.4	1.4	0.7	50.2
SUTTER													
Nicolaus	0.9	1.6	3.2	4.9	6.3	7.5	8.0	6.9	5.2	3.4	1.5	0.9	50.2
Yuba City	1.3	2.1	2.8	4.4	5.7	7.2	7.1	6.1	4.7	3.2	1.2	0.9	46.7
TEHAMA													
Corning	1.2	1.8	2.9	4.5	6.1	7.3	8.1	7.2	5.3	3.7	1.7	1.1	50.7
Gerber	1.0	1.8	3.5	5.0	6.6	7.9	8.7	7.4	5.8	4.1	1.8	1.1	54.7
Gerber Dryland	0.9	1.6	3.2	4.7	6.7	8.4	9.0	7.9	6.0	4.2	2.0	1.0	55.5
Red Bluff	1.2	1.8	2.9	4.4	5.9	7.4	8.5	7.3	5.4	3.5	1.7	1.0	51.1
TRINITY													
Hay Fork	0.5	1.1	2.3	3.5	4.9	5.9	7.0	6.0	4.5	2.8	0.9	0.7	40.1
Weaverville	0.6	1.1	2.2	3.3	4.9	5.9	7.3	6.0	4.4	2.7	0.9	0.7	40.0
TULARE													
Alpaugh	0.9	1.7	3.4	4.8	6.6	7.7	8.2	7.3	5.4	3.4	1.4	0.7	51.6
Badger	1.0	1.3	2.7	4.1	6.0	7.3	7.7	7.0	4.8	3.3	1.4	0.7	47.3
Delano	1.1	1.9	4.0	4.9	7.2	7.9	8.1	7.3	5.4	3.2	1.5	1.2	53.6
Dinuba	1.1	1.5	3.2	4.7	6.2	7.7	8.5	7.3	5.3	3.4	1.4	0.7	51.2
Lindcove	0.9	1.6	3.0	4.8	6.5	7.6	8.1	7.2	5.2	3.4	1.6	0.9	50.6
Porterville	1.2	1.8	3.4	4.7	6.6	7.7	8.5	7.3	5.3	3.4	1.4	0.7	52.1
Visalia	0.9	1.7	3.3	5.1	6.8	7.7	7.9	6.9	4.9	3.2	1.5	0.8	50.7
TUOLUMNE													
Groveland	1.1	1.5	2.8	4.1	5.7	7.2	7.9	6.6	5.1	3.3	1.4	0.7	47.5
Sonora	1.1	1.5	2.8	4.1	5.8	7.2	7.9	6.7	5.1	3.2	1.4	0.7	47.6
VENTURA													
Camarillo	2.2	2.5	3.7	4.3	5.0	5.2	5.9	5.4	4.2	3.0	2.5	2.1	46.1
Oxnard	2.2	2.5	3.2	3.7	4.4	4.6	5.4	4.8	4.0	3.3	2.4	2.0	42.3
Piru	2.8	2.8	4.1	5.6	6.0	6.8	7.6	7.8	5.8	5.2	3.7	3.2	61.5
Port Hueneme	2.0	2.3	3.3	4.6	4.9	4.9	4.9	5.0	3.7	3.2	2.5	2.2	43.5
Thousand Oaks	2.2	2.6	3.4	4.5	5.4	5.9	6.7	6.4	5.4	3.9	2.6	2.0	51.0
Ventura	2.2	2.6	3.2	3.8	4.6	4.7	5.5	4.9	4.1	3.4	2.5	2.0	43.5
YOLO													
Bryte	0.9	1.7	3.3	5.0	6.4	7.5	7.9	7.0	5.2	3.5	1.6	1.0	51.0
Davis	1.0	1.9	3.3	5.0	6.4	7.6	8.2	7.1	5.4	4.0	1.8	1.0	52.5
Esparto	1.0	1.7	3.4	5.5	6.9	8.1	8.5	7.5	5.8	4.2	2.0	1.2	55.8
Winters	1.7	1.7	2.9	4.4	5.8	7.1	7.9	6.7	5.3	3.3	1.6	1.0	49.4
Woodland	1.0	1.8	3.2	4.7	6.1	7.7	8.2	7.2	5.4	3.7	1.7	1.0	51.6
Zamora	1.1	1.9	3.5	5.2	6.4	7.4	7.8	7.0	5.5	4.0	1.9	1.2	52.8
YUBA													
Browns Valley	1.0	1.7	3.1	4.7	6.1	7.5	8.5	7.6	5.7	4.1	2.0	1.1	52.9
Brownsville	1.1	1.4	2.6	4.0	5.7	6.8	7.9	6.8	5.3	3.4	1.5	0.9	47.4

* The values in this table were derived from:

- 1) California Irrigation Management Information System (CIMIS);
- 2) Reference EvapoTranspiration Zones Map, UC Dept. of Land, Air & Water Resources and California Dept of Water Resources 1999; and
- 3) Reference Evapotranspiration for California, University of California, Department of Agriculture and Natural Resources (1987) Bulletin 1922;
- 4) Determining Daily Reference Evapotranspiration, Cooperative Extension UC Division of Agriculture and Natural Resources (1987), Publication Leaflet 21426

1. New Appendix A filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

2. Repealer and new Appendix A filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

Appendix B — Sample Water Efficient Landscape Worksheet.

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Reference Evapotranspiration (ETo) _____

Hydrozone # /Planting Description ^a	Plant Factor (PF)	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU) ^d
Regular Landscape Areas							
				Totals	(A)	(B)	
Special Landscape Areas							
				1			
				1			
				1			
				Totals	(C)	(D)	
						ETWU Total	
						Maximum Allowed Water Allowance (MAWA)^e	

^aHydrozone #/Planting Description
E.g
1.) front lawn
2.) low water use plantings
3.) medium water use planting

^bIrrigation Method
overhead spray
or drip

^cIrrigation Efficiency
0.75 for spray head
0.81 for drip

^dETWU (Annual Gallons Required) =
Eto x 0.62 x ETAF x Area
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

^eMAWA (Annual Gallons Allowed) = (Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

ETAF Calculations

Regular Landscape Areas

Total ETAF x Area	(B)
Total Area	(A)
Average ETAF	B ÷ A

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

All Landscape Areas

Total ETAF x Area	(B+D)
Total Area	(A+C)
Sitewide ETAF	(B+D) ÷ (A+C)

HISTORY

1. New Appendix B filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

2. Repealer and new Appendix B filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

Appendix C — Sample Certificate of Completion.

CERTIFICATE OF COMPLETION

This certificate is filled out by the project applicant upon completion of the landscape project.

PART 1. PROJECT INFORMATION SHEET

Date		
Project Name		
Name of Project Applicant	Telephone No.	
	Fax No.	
Title	Email Address	
Company	Street Address	
City	State	Zip Code

Project Address and Location:

Street Address	Parcel, tract or lot number, if available.	
City	Latitude/Longitude (optional)	
State	Zip Code	

Property Owner or his/her designee:

Name	Telephone No.	
	Fax No.	
Title	Email Address	
Company	Street Address	
City	State	Zip Code

Property Owner

"I/we certify that I/we have received copies of all the documents within the Landscape Documentation Package and the Certificate of Completion and that it is our responsibility to see that the project is maintained in accordance with the Landscape and Irrigation Maintenance Schedule."

Property Owner Signature

Date

Please answer the questions below:

1. Date the Landscape Documentation Package was submitted to the local agency _____
2. Date the Landscape Documentation Package was approved by the local agency _____
3. Date that a copy of the Water Efficient Landscape Worksheet (including the Water Budget Calculation) was submitted to the local water purveyor _____

PART 2. CERTIFICATION OF INSTALLATION ACCORDING TO THE LANDSCAPE DOCUMENTATION PACKAGE

"I/we certify that based upon periodic site observations, the work has been completed in accordance with the ordinance and that the landscape planting and irrigation installation conform with the criteria and specifications of the approved Landscape Documentation Package."

Signature*	Date	
Name (print)	Telephone No.	
	Fax No.	
Title	Email Address	
License No. or Certification No.		
Company	Street Address	
City	State	Zip Code

*Signer of the landscape design plan, signer of the irrigation plan, or a licensed landscape contractor.

PART 3. IRRIGATION SCHEDULING

Attach parameters for setting the Irrigation schedule on controller per ordinance Section 492.10.

PART 4. SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE

Attach schedule of Landscape and Irrigation Maintenance per ordinance Section 492.11.

PART 5. LANDSCAPE IRRIGATION AUDIT REPORT

Attach Landscape Irrigation Audit Report per ordinance Section 492.12.

PART 6. SOIL MANAGEMENT REPORT

Attach soil analysis report, if not previously submitted with the Landscape Documentation Package per ordinance Section 492.6.

Attach documentation verifying implementation of recommendations from soil analysis report per ordinance Section 492.6.

HISTORY

1. New Appendix C filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

2. Repealer and new Appendix C filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

Appendix D — Prescriptive Compliance Option.

(a) This appendix contains prescriptive requirements which may be used as a compliance option to the Model Water Efficient Landscape Ordinance.

(b) Compliance with the following items is mandatory and must be documented on a landscape plan in order to use the prescriptive compliance option:

(1) Submit a Landscape Documentation Package which includes the following elements:

- (A) date
- (B) project applicant
- (C) project address (if available, parcel and/or lot number(s))
- (D) total landscape area (square feet), including a breakdown of turf and plant material
- (E) project type (e.g., new, rehabilitated, public, private, cemetery, homeowner-installed)
- (F) water supply type (e.g., potable, recycled, well) and identify the local retail water purveyor if the applicant is not served by a private well
- (G) contact information for the project applicant and property owner
- (H) applicant signature and date with statement, "I agree to comply with the requirements of the prescriptive compliance option to the MWELO".

(2) Incorporate compost at a rate of at least four cubic yards per 1,000 square feet to a depth of six inches into landscape area (unless contradicted by a soil test);

(3) Plant material shall comply with all of the following:

(A) For residential areas, install climate adapted plants that require occasional, little or no summer water (average WUCOLS plant factor 0.3) for 75% of the plant area excluding edibles and areas using recycled water; For non-residential areas, install climate adapted plants that require occasional, little or no summer water (average WUCOLS plant factor 0.3) for 100% of the plant area excluding edibles and areas using recycled water;

(B) A minimum three inch (3") layer of mulch shall be applied on all exposed soil surfaces of planting areas except in turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicated.

(4) Turf shall comply with all of the following:

(A) Turf shall not exceed 25% of the landscape area in residential areas, and there shall be no turf in non-residential areas;

(B) Turf shall not be planted on sloped areas which exceed a slope of 1 foot vertical elevation change for every 4 feet of horizontal length;

(C) Turf is prohibited in parkways less than 10 feet wide, unless the parkway is adjacent to a parking strip and used to enter and exit vehicles. Any turf in parkways must be irrigated by sub-surface irrigation or by other technology that creates no overspray or runoff.

(5) Irrigation systems shall comply with the following:

(A) Automatic irrigation controllers are required and must use evapotranspiration or soil moisture sensor data and utilize a rain sensor.

(B) Irrigation controllers shall be of a type which does not lose programming data in the event the primary power source is interrupted.

(C) Pressure regulators shall be installed on the irrigation system to ensure the dynamic pressure of the system is within the manufacturers recommended pressure range.

(D) Manual shut-off valves (such as a gate valve, ball valve, or butterfly valve) shall be installed as close as possible to the point of connection of the water supply.

(E) All irrigation emission devices must meet the requirements set in the ANSI standard, ASABE/ICC 802-2014. "Landscape Irrigation Sprinkler and Emitter Standard," All sprinkler heads installed in the landscape must document a distribution uniformity low quarter of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014.

(F) Areas less than ten (10) feet in width in any direction shall be irrigated with subsurface irrigation or other means that produces no runoff or overspray.

(6) For non-residential projects with landscape areas of 1,000 sq. ft. or more, a private submeter(s) to measure landscape water use shall be installed.

(c) At the time of final inspection, the permit applicant must provide the owner of the property with a certificate of completion, certificate of installation, irrigation schedule and a schedule of landscape and irrigation maintenance.

HISTORY

1. New Appendix D filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

Chapter 2.7.1. Flood Protection Corridor Program of the Costa-Machado Water Act of 2000

§ 497.1. Scope.

(a) These regulations implement Sections 79035 through 79044, and 79044.9 in Article 2.5 of Chapter 5 of Division 26 of the Water Code, which Division is the Costa-Machado Water Act of 2000. They establish a process for funding acquisition of property rights and related activities for flood protection corridor projects undertaken by the Department of Water Resources directly or through grants to local public agencies or nonprofit organizations.

(b) The Flood Protection Corridor Program is statewide in scope. Within the geographic scope of the CALFED Bay-Delta Program, funds in the subaccount for this program shall be used for projects that, to the greatest extent possible, are consistent with the CALFED long-term plan identified in the Programmatic Record of Decision of August 28, 2000.

NOTE: Authority cited: Sections 8300, 12580 and 79044.9, Water Code; 2000 Cal. Stat. Ch. 52, Item No. 3860-101-6005; 2001 Cal. Stat. Ch. 106, Item No. 3860-001-0001, Provision 3; and 2002 Cal. Stat. Ch. 379, Item No. 3860-101-6005. Reference: Sections 79037, 79043, 79044 and 79044.9, Water Code

HISTORY

1. New chapter 2.7.1 (sections 497.1-497.12) and section filed 8-19-2003; operative 8-19-2003 pursuant to Government Code section 11343.4 (Register 2003, No. 34).

§ 497.2. Definitions.

The words used in this chapter have meanings set forth as follows:

(a) "A List" means the preferred priority list of projects described in Section 497.6.

(b) "Applicant" means an entity that is acting as the principal party making an application for funding under the provisions of the Costa-Machado Water Act of 2000.

(c) "B List" means the reserve priority list of projects described in Section 497.6.

(d) "CEQA" means the California Environmental Quality Act, Public Resources Code Sections 21000 *et seq.*

(e) "Department" means the California Department of Water Resources.

(f) "Director" means the Director of the Department of Water Resources.

(g) "FEMA" means the Federal Emergency Management Agency.

(h) "Fully funded" with respect to a grant project means funded to the full amount of the requested funds or to the funding limit, whichever is less.

(i) "Grant application form" means the Department's form entitled "Flood Protection Corridor Program Project Evaluation Criteria and Competitive Grant Application Form" dated April 9, 2003 and incorporated herein by this reference.

(j) "Local public agency" means any political subdivision of the State of California, including but not limited to any county, city, city and county, district, joint powers agency, or council of governments.

(k) "Milestone" means a time when a significant portion of a project is completed, as defined in the contract as a time for disbursement of grant funds.

(l) "Nonprofit organization" means an organization that does not operate for profit and has no official governmental status, including but not limited to clubs, societies, neighborhood organizations, advisory councils, conservation organizations and privately run local community conservation corps.

(m) "Program" means the Flood Protection Corridor Program established by Water Code Division 26, Chapter 5, Article 2.5.

(n) "Property interest" means any right in real property, including easement, fee title, and any other kind of right acquired by legally binding means.

(o) "Project" means all planning, engineering, acquisition of real property interests, construction and related activities undertaken to implement a discrete action undertaken under the program pursuant to Water Code Section 79037.

(p) "Sponsor" means an applicant who has received grant funding through the application process described in these regulations.

(q) "Subaccount" means the Flood Protection Corridor Subaccount created by Water Code Section 79035(a).

NOTE: Authority cited: Sections 8300, 12580 and 79044.9, Water Code. Reference: Sections 79035, 70937, 79038(a) and 79043, Water Code; and Sections 21000 *et seq.*, Public Resources Code.

HISTORY

1. New section filed 8-19-2003; operative 8-19-2003 pursuant to Government Code section 11343.4 (Register 2003, No. 34).

§ 497.3. Program Management Process.

The Department selects, approves, funds, and monitors projects funded by grants under the program. The process of managing the program includes these steps:

(a) The Department shall appoint and maintain a Project Evaluation Team composed of Department staff and other consulting governmental agencies. The Department may request consultation with any appropriate government agency, including but not limited to the Department of Conservation, the Department of Fish and Game, the Department of Food and Agriculture, the Office of Emergency Services, and the CALFED Bay-Delta Program.

(b) Local public agencies or nonprofit organizations qualified under Section 497.4 may apply for program grants for projects at such times as

the Department may designate. Applications for proposed projects shall be submitted in response to a solicitation issued by the Department. As long as uncommitted funds remain available to fund new projects, the Department shall solicit proposals at least once per calendar year. The time period for submitting applications shall be 90 days from the date notice is given by the Department that project proposals are being solicited. Notices shall be provided to cities, counties, flood control districts, reclamation districts, and other local government entities that manage flood plains and flood control projects. The Department will also provide notice to nonprofit organizations with interest in flood management issues, and shall send notice to all individuals and organizations that have requested notice of the opportunity to submit applications. Notices may be given by mail, electronic mail, website posting, or any other method that provides easy access and prompt availability. Projects shall meet the requirements of Section 497.5. Applications shall meet the requirements of Section 497.7.

(c) The Project Evaluation Team shall review each application and evaluate the subject project within 60 days of the close of the specified submittal period, or within 60 days of receipt of requested additional information, whichever is later.

(d) The Project Evaluation Team shall notify the Department to request the applicant to provide additional information within 30 days of the Department's request if:

(1) The project appears potentially eligible but is missing information needed to evaluate the merits of the project, or

(2) Additional information is needed to evaluate the merits of the project in comparison to others received.

(e) If the requested additional information cannot be provided in 30 days, the applicant may refile its application with the additional information at the Department's next solicitation of proposals.

(f) When a proposal that meets minimum qualifications is complete and all requested additional information has been supplied, the Project Evaluation Team shall complete the evaluation of the project including recommending its place on a priority list as described in Section 497.6.

(g) After each solicitation of proposals, Department staff, using the evaluations and recommended priorities of the Project Evaluation Team, shall recommend projects, priority, and amounts per project to be funded and submit the recommendations to the Director for approval of the priority lists. Department staff may recommend:

[The next page is 38.15.]

Chapter 17.80

LANDSCAPE WATER CONSERVATION STANDARDS

Sections:

- 17.80.010 Title and Purpose
- 17.80.020 Definitions
- 17.80.030 Applicability
- 17.80.040 Landscape Project Application (LPA) Requirements
- 17.80.050 Water Efficient Landscape Standards
- 17.80.060 Landscape Plan Requirements
- 17.80.070 Landscape Water Audit Requirements
- 17.80.080 Certifications
- 17.80.090 Landscape and Irrigation Maintenance Schedule
- 17.80.100 Stormwater Management
- 17.80.110 Provisions for Existing Landscapes
- 17.80.120 Public Education
- 17.80.130 Reporting

17.80.010 Title and Purpose. This Chapter shall be known and may be cited as the Landscape Water Conservation Standards Ordinance of the City of Clayton for the purpose of implementing within Clayton the Water Conservation in Landscaping Act of 2006 and the implementation of Executive Order B-29-15.

17.80.020 Definitions. Certain words and phrases are defined within this Chapter and the definitions herein apply to this Chapter only. Where it appears from the context of such words, phrases, or provisions that a different meaning is intended, the definition shall be determined by the Community Development Director.

- A. "Applicant" means the individual or entity submitting a Landscape Project Application (LPA) required under Section 17.80.040 of this Chapter to request a permit, plan check, or design review from the City of Clayton, or

- requesting new or expanded water service from the local water district. A project applicant may be the property owner or his or her designee.
- B. “Applied water” means the portion of water supplied by the irrigation system to the landscape.
 - C. “Backflow prevention device” means a safety device used to prevent pollution or contamination of the water supply due to the reverse flow of water from an irrigation system.
 - D. “Certified irrigation system auditor” means a person certified by the U.S. Environmental Protection Agency’s WaterSense Irrigation Partners Program.
 - E. “Control valve manifold” a series of control valves plumbed together in one central spot for distribution to sprinkler heads.
 - F. “Conversion factor (0.62)” means the number that converts acre-inches per acre per year to gallons per square foot per year.
 - G. “Emission Device” means any device that is contained within an irrigation system that is used to apply water. Common emission devices in an irrigation system include, but are not limited to, spray and rotary sprinkler heads, bubblers, and drip irrigation emitters.
 - H. “Estimated Total Water Use (ETWU)” means the estimated total water used for the landscape, as described in the City of Clayton Water Allowance Work Sheet.
 - I. “ET adjustment factor (ETAF)” means a factor of 0.7, 0.55 for residential areas and 0.45 for non-residential areas, that, when applied to reference evapotranspiration, adjusts for plant factors and irrigation efficiency which are two major influences upon the amount of water that needs to be applied to the landscape. ETAF for a Special Landscape Area shall be 1.0.
 - J. “ETo” stands for Reference Evapotranspiration, and means the water loss from a large field of 4-7 inch-tall, cool-season grass that is not water stressed. Local ETo numbers can be found through the California Irrigation Management Information System (CIMIS).
 - K. “Evapotranspiration” means the combination of water transpired from plants and evaporated from the soil and plant surfaces.
 - L. “Flow rate” means the rate at which water flows through pipes, valves, and emission devices, measured in gallons per minute, gallons per hour, or cubic feet per second.
 - M. “Flow sensors” means an inline device installed at the supply point of the irrigation system that produces a repeatable signal proportional to flow rate. Flow sensors must be connected to an automatic irrigation controller, or

flow monitor capable of receiving flow signals and operating master valves. This combination flow sensor/controller may also function as a landscape water meter or submeter.

M.N. "Graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes.

N.O. "Geometry" means the size, shape, and angles of an area.

O.P. "Hardscape" means any durable material (pervious and non-pervious).

P.Q. "Hydrozone" means a portion of the landscaped area having plants with similar water needs. This ordinance uses the publication *Water Use Classification of Landscape Species* (WUCOLS) to determine a plant's water needs. A hydrozone may be irrigated or non-irrigated.

~~"Landscape water audit" means an in-depth evaluation of the installed landscape to verify the landscape complies with the Water Efficient Landscape Standards of the City of Clayton Landscape Water Conservation Standards Ordinance, and completes the Certificate of Compliance for a Landscape Water Audit.~~

R. "Irrigation audit" means an in-depth evaluation of the performance of an irrigation system conducted by a Certified Landscape Irrigation Auditor. An irrigation audit includes, but is not limited to: inspection, system tune-up, system test with distribution uniformity or emission uniformity, reporting overspray or runoff that causes overland flow, and preparation of an irrigation schedule. The audit must be conducted in such a manner with the Irrigation Association's Landscape Auditor Certification program or other U.S. Environmental Protection Agency "Watersense" labeled auditing program.

Q.S. "Irrigation efficiency (IE)" means the measurement of the amount of water beneficially used divided by the amount of water applied. Irrigation efficiency is derived from measurements and estimates of irrigation system characteristics and management practices. The irrigation efficiency for purposes of this Chapter is ~~71% or greater.~~ 75% for overhead spray devices and 81% for drip or bubbler systems. Greater irrigation efficiency can be expected from well-designed and well-maintained systems.

R.T. "Irrigation survey" means an evaluation of an irrigation system that is less detailed than an irrigation audit. An irrigation survey includes, but is not limited to, inspection, system test, and recommendations to improve performance of the irrigation system.

S.U. "Irrigation water use analysis" means an analysis of water use data based on meter readings and billing data.

- ~~U.V.~~ “Landscape area” means all the planting areas, turf areas, and water features in a landscape design plan subject to the Maximum Applied Water Allowance calculation. The landscape area does not include footprints of buildings or structures, sidewalks, driveways, parking lots, decks, patios, gravel, or stone walks, or other pervious or non-pervious hardscapes, and other non-irrigated areas designated for non-development (e.g., open spaces and existing native vegetation).
- ~~W.~~ “Landscape contractor” means a person licensed by the State of California to construct, maintain, repair, install, or subcontract the development of landscape systems.
- ~~U.X.~~ “Landscape water audit” means an in-depth evaluation of the installed landscape to verify the landscape complies with the Water-Efficient Landscape Standards of the City of Clayton Landscape Water Conservation Standards Ordinance, and completes the Certificate of Compliance for a landscape water audit.
- ~~V.Y.~~ “Lateral line” means the water delivery pipeline that supplies water to the emitters or sprinklers from the valve.
- ~~Z.~~ “Master Shut-Off Valve” means an automatic valve installed at the irrigation supply point which controls water flow into the irrigation system. When this valve is closed water will not be supplied to the irrigation system.
- ~~W-AA.~~ “Maximum Applied Water Allowance (MAWA)” means the upper limit of annual applied water for the established landscaped area, as specified in the City of Clayton “Water Allowance Work Sheets”.
- ~~X-BB.~~ “Medians” mean any planting area that separates traffic lanes on streets and parking areas in parking lots.
- ~~Y-CC.~~ “Mulch” means any organic material, such as leaves, bark, straw, or compost; or inorganic mineral materials, such as rocks, gravel, and decomposed granite left loose and applied to the soil surface for the beneficial purposes of reducing evaporation, suppressing weeds, moderating soil temperature, and preventing soil erosion.
- ~~Z-DD.~~ “Non-Permeable” means any surface or material that will not allow the passage of water through that surface or material and into the underlying soil at a rate that ensures run-off will not occur.
- ~~AA-EE.~~ “Operating pressure” means the pressure at which the parts of an irrigation system are designed by the manufacturer to operate.
- ~~BB-FF.~~ “Overhead irrigation” means systems that deliver water through the air (e.g., sprayheads and rotors).
- ~~CC-GG.~~ “Overspray” means the irrigation water that is delivered beyond the target area.

~~DD~~HH. “Permit” means an authorizing document issued by local agencies for new construction or rehabilitated landscapes.

~~EE~~II. “Plant factor” or “plant water use factor” is a factor that, when multiplied by ETo, estimates the amount of water needed by plants. The plant factors for this Chapter are from the WUCOLS publication.

~~FF~~JJ. “Precipitation rate” for this Chapter means the rate of application of water measured in inches per hour.

~~GG~~KK. “Project” means the total area comprising the landscape area, as defined in this Chapter.

~~HH~~LL. “Rain switch” or “rain sensing shutoff device” means a component that automatically suspends an irrigation event when it rains.

~~II~~MM. “Reference evapotranspiration” or “ETo” means a standard measurement of environmental parameters that affect the water use of plants.

~~JJ~~NN. “Rehabilitated landscape” means any re-landscaping project that requires a permit, plan check, or design review, or requires a new or expanded water service application.

~~KK~~OO. “Retail water supplier” means any entity, including a public agency, city, county, district or private water company that provides retail water service.

~~LL~~PP. “Runoff” means water that is not absorbed by the soil or landscape to which it is applied and that flows from the landscape area.

~~MM~~QQ. “Smart irrigation controllers” means controllers using weather information or soil moisture readings along with site information to automatically adjust the irrigation schedule on a daily basis.

~~NN~~RR. “Soil moisture sensor” or “soil moisture sensing device” means a device that measures the amount of water in the soil. The device may also suspend or initiate an irrigation event.

~~OO~~SS. “Special Landscape Area (SLA)” means an area of the landscape dedicated solely to edible plants, such as vegetable gardens or orchards, areas irrigated with recycled water, water features using recycled water, cemeteries, and areas dedicated to active play, such as parks, sports fields, and golf courses where turf provides a playing surface.

~~PP~~TT. “Sprinkler head” means a device that delivers water through a nozzle.

~~QQ~~UU. “Station” means an area served by one valve or by a set of valves that operate simultaneously.

~~RR~~VV. “Turf” means a ground cover surface of mowed grass. Kentucky bluegrass, Perennial ryegrass, Red fescue, and Tall fescue are examples of

cool-season grasses. Bermuda grass, Kikuyu grass, Seashore Paspalum, St. Augustine grass, Zoysia grass, and Buffalo grass are examples of warm-season grasses.

~~SS.WW.~~ “Valve” means a device used to control the flow of water in the irrigation system.

~~TT.XX.~~ “Water feature” means a design element where open water performs an aesthetic or recreational function. Water features include ponds, lakes, waterfalls, fountains, artificial streams, spas, and swimming pools (where water is artificially supplied).

~~VVYY.~~ “WUCOLS” means the Water Use Classification of Landscape Species, published by the University of California Cooperative Extension, the Department of Water Resources, and the Bureau of Reclamation, 2000. (WUCOLS) report is available at <http://www.water.ca.gov/wateruseefficiency/publications/>. Search for WUCOLS, and then go to Part 2 WUCOLS III* 1999 Edition.

17.80.030 Applicability. After January 5, 2017, the indicated provisions of this Chapter shall apply to landscape projects as follows:

- A. Developer Projects: New ~~and rehabilitated~~ landscape development for commercial, multi-family, and single family projects with irrigated landscape areas cumulatively equal to or greater than ~~2,500~~ 500 square feet and ~~rehabilitated landscape development for commercial, multi-family, and single family projects with irrigated landscape areas cumulatively equal to or greater than 2,500 square feet~~, requiring a building permit, grading permit, plan check, or design review shall complete the Landscape Project Application (LPA) described in Section 17.80.040, and comply with all other Sections of this Chapter.
- B. Municipality and Public Agency Projects: New ~~and rehabilitated~~ projects designed and installed by the City of Clayton with irrigated landscape areas cumulatively equal to or greater than ~~2,500~~ 500 square feet ~~and rehabilitated projects designed and installed by the City of Clayton with irrigated landscape areas cumulatively equal to or greater than and 2,500 square feet~~ shall comply with Sections 17.80.050, 17.80.060, 17.80.070, 17.80.080, 17.80.090, and 17.80.100.
- C. Owner-Directed Single Family Projects: New ~~and rehabilitated~~ owner-directed single family projects with irrigated landscape areas cumulatively equal to or greater than ~~5,000~~ 500 square feet ~~and rehabilitated owner-directed single family projects with irrigated landscape areas cumulatively equal to or greater than 2,500~~ and requiring a building permit, grading permit, plan check, or design review shall complete the Landscape Project Application (LPA) described in Section 17.80.040, and comply with all other Sections, except Section 17.80.090, of this Chapter.

- D. Existing Landscapes: Existing landscapes are only subject to the provisions in Section 17.80.110, “Provisions for Existing Landscapes” and Section 17.80.120, “Public Education”.
- E. The provisions of this Chapter shall not apply to:
 - 1. Landscapes that are only temporarily irrigated for establishment purposes and landscapes that are not irrigated with a permanent irrigation system.
 - 2. Registered local, state or federal historical sites, or as may otherwise be determined by the City Council;
 - 3. Community gardens, botanical gardens and arboretums open to the public.

17.80.040 Landscape Project Application (LPA) Requirements. Applicant shall choose one of the two options below to comply with this Chapter:

- A. Option A: Proposed landscape project does not include any:
 - 1. Water features with more than 100 square feet of total surface area; or
 - 2. Turf or other high water use plants, unless they qualify as a “Special Landscape Area”. High water use plants are those designated as ‘high water use’ in the Water Use Classification of Landscape Species (WUCOLS) report¹.

For this option, the applicant shall complete the following:

- 1. Project Application Sheet.
- 2. Certification Sheets.
- 3. Landscape Plans (See Section 17.80.060);
- 4. Maintenance Schedule (See Section 17.80.090).

- B. Option B: Proposed landscape project does include:
 - 1. Water features with more than 100 square feet of total surface area; or
 - 2. Turf or other high water use plants not qualifying as a “Special Landscape Area”. The Estimated Total Water Use (ETWU) for the proposed landscape shall not exceed the Maximum Applied Water Allowance (MAWA) for the site. The MAWA formula will use an ET Adjustment Factor of 0.7 .50 for residential projects and an ET Adjustment Factor of .45 for non- residential projects.

¹ Water Use Classification of Landscape Species (WUCOLS) report which is available at <http://www.water.ca.gov/wateruseefficiency/publications/> A Guide to Estimating, Part 2.

For this option, the applicant shall complete the following:

1. Project Application Sheet.
2. Certification Sheets.
3. Water Allowance Work Sheets.
4. Landscape Plans (See Section 17.80.060).
5. Maintenance Schedule (See Section 17.80.090).

An applicant requesting design review approval shall submit, at a minimum, a preliminary landscaping plan with the design review application; however, the applicant must submit all components of the Landscape Project Application (LPA) concurrently with the application for building permit or grading permit for the project.

The Community Development Director or his/her designee shall review each LPA for compliance with the provisions of this Chapter and may withhold issuance of ~~zoning approval~~ for a building permit or grading permit for which its corresponding LPA does not comply with this Chapter.

17.80.050 Water Efficient Landscape Standards. The proposed landscape design shall incorporate the most recent acceptable best management practices as determined by the City of Clayton for water-efficient landscape design and shall comply with the following standards:

A. Plant Design:

1. Plants selected shall be well suited to the area's climate and the site's soil conditions.
2. For residential areas, install climate adapted plants with an average WUCOLS plant factor of 0.3 for 75% of the plant area excluding edibles.
3. For non-residential areas, install climate adapted plants with an average WUCOLS plant factor of 0.3 for 100% of the plant area excluding edibles.
4. The proposed landscape shall be designed so that distinct hydrozones are irrigated separately by one or more irrigation valves. A hydrozone is an area with similar sun exposure, irrigation precipitation rate, soil conditions, slope, and plant material with similar water needs. Refer to the WUCOLS report for plant water needs.
5. Plants shall be spaced appropriately based on their expected mature spread.
6. If the geometry of the planting area does not conform to the spray pattern of the sprinkler, resulting in overspray onto the adjacent pavement, then overhead irrigation shall not be used.

7. Plants shall be spaced so that at mature size they do not block sprinklers.
8. Turf shall not be planted on slopes steeper than 15%.
9. Turf shall not exceed 25% of the landscape area for residential areas and there shall be no turf in non-residential areas.
10. Turf shall not be planted in any medians or in areas narrower than ~~8'0"~~ 10'0".
11. High water use plants with a WUCOLS plant factor of 0.7 to 1.0 are prohibited in street medians.

B. Irrigation System:

The irrigation system design shall comply with the following requirements:

1. Smart irrigation controller(s) utilizing all the features listed below shall be required on all irrigation systems:
 - a. ~~Daily evapotranspiration data; and~~ daily soil moisture sensor utilizing a rain sensor.
 - ~~b. Daily soil moisture sensor data.~~
 - b. Ability to maintain all data in the event of a power shortage.
2. Specify a dedicated landscape water meter for residential landscapes with an irrigated area greater than 5,000 square feet, and a dedicated water meter for non-residential landscapes with an irrigated area greater than 1,000 square feet, or per retail water supplier regulations.
3. Pressure regulators shall be install on the irrigation system to assure dynamic pressure is within the manufacturers recommended range.
4. Manual shut-off valve shall be installed as close as possible to water supply connection.
5. Manual shut-off valves shall be installed before each control valve manifold for residential irrigation systems.
6. Manual shut-off valves shall be installed before each control valve manifold or individual control valve on non-residential irrigation systems.
7. Recycled water shall be used for landscape irrigation if it is available at the project site.
8. Landscapes using recycled water are considered Special Landscape Areas. The ET Adjustment Factor for new and existing (non-rehabilitated) -Special- Landscape Areas shall not exceed 1.0.

9. All graywater systems shall conform to the California Plumbing Code (Title 24, Part 5, Chapter 16) and any applicable local ordinance standards.
10. Specify technology and practices to prevent runoff, low head drainage, overspray, or other water waste.
11. Overhead irrigation shall not be permitted within 12" of any non-permeable surface.
12. Specify sprinkler heads and other emission devices that have matched precipitation rates within each irrigation zone. No irrigation zone shall specify a precipitation rate greater than 1.2 inches per hour. On slopes steeper than 25%, the specified precipitation rate shall not exceed 0.75 inches per hour.
13. Specify irrigation controls so the dynamic water pressure at sprinkler head or other emission device is within manufacturer's recommended optimal operating range.
14. No overhead irrigation shall be specified in planting areas less than ~~8'0"~~ 10'0" wide in any dimension, unless demonstrated that water waste will not occur.
15. Specify a manual shut-off valve for each point of connection and specify that each shut-off valve be identified on the controller map.
16. Prepare a controller map and programming table and specify that this be stored in the controller cabinet. The controller map shall visually differentiate each controller zone. For each irrigation valve, the controller programming table shall list the plant water requirement (high, medium, low, or very low), the sun exposure, irrigation emission device type, precipitation rate, station flow rate, optimal pressure, soil type, infiltration rate, square foot area, and degree of slope.
17. Each irrigation valve shall control irrigation to only one distinct hydrozone. A hydrozone is an area with similar sun exposure, irrigation precipitation rate, soil conditions, slope, and plant material with similar water needs. Refer to the WUCOLS report for plant water needs.
18. Specify a separate irrigation valve and hydrozone for the top of a slope and the bottom of a slope.
19. Master shut-off valves are required on all projects except landscapes that make use of technologies that allow for the individual control of sprinklers that are individually pressurized in a system equipped with low pressure shut down features.

20. Flow sensors that detect high flow conditions created by system damage or malfunction are required for all non-residential landscapes and residential landscapes over 5,000 square feet or larger.

C. Water Features:

1. All water features shall have re-circulating water systems.
2. Fountain(s) shall be designed so that no wind drift or overspray occurs.

D. Grading and Soil Preparation:

The landscape design shall:

1. Include a soils management report for large landscape projects and multiple landscape installations (for production home developments a soil sampling of 1 in 7 lots or approximately 15% will satisfy this requirement).
2. Comply with Storm Water Control Plan requirements (C.3), if applicable.
3. Be designed to improve or maintain the infiltration rate of landscape soils typical of their soil texture and minimize soil erosion.
4. Be designed to avoid drainage onto non-permeable hardscapes within the property lines and prevent runoff of all irrigation and natural rainfall outside property lines.
5. ~~Only specify soil amendments if appropriate for the selected plants. Soil amendments shall be incorporated according to recommendations of the soils report and what is appropriate for the plants selected.~~
6. For landscape installations that require rototilling, compost at a rate of a minimum of 4 cubic yards per 1,000 square feet of permeable area, to a depth of 6 inches into the soil.
7. Specify a minimum ~~two-inch~~ three inch layer of mulch shall be applied on all exposed soil surfaces of planting areas unless there is a horticultural reason not to use mulch in a portion of the planting area. Mulch, such as shredded bark, shall be specified in bio-retention areas and slopes, so that they material will stay in place during rain events.

17.80.060 Landscape Plan Requirements. The Landscape plans shall demonstrate that all the water-efficient landscape standards have been met:

A. The planting plan shall:

1. Identify Special Landscape Areas. Special Landscape Areas include: landscape dedicated solely to edible plants, such as vegetable gardens or orchards, areas irrigated with recycled water, water features using recycled

water, cemeteries, and areas dedicated to active play, such as parks, sports fields, and golf courses where turf provides a playing surface.

2. Identify plants by their common and botanical names.
3. Identify type and surface area of water features.

B. The irrigation plan shall:

1. Show the location and size of the landscape irrigation water meter.
2. Show the location, type and size of all components of the irrigation system, including, but not limited to, controllers, main and lateral lines, valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, pressure regulators, and backflow prevention devices.
3. Identify the static water pressure at the point of connection to the public water supply.
4. Identify the flow rate (gallons per minute), application rate (inches per hour), and design operating pressure (pressure per square inch) for each station.
5. Identify any applicable graywater discharge piping, system components, and areas of distribution.

C. Landscape plans shall include details and specifications reflecting the most recent acceptable best management practices as determined by the City of Clayton for water-efficient landscape design.

17.80.070 Landscape Water Audit Requirements. A landscape water audit shall be performed to ensure that the installed landscape meets the requirements of this Chapter.

- A. A landscape water audit shall be conducted within thirty (30) days of the start of the landscape maintenance period or, if no maintenance period, then, immediately, upon completion of the landscape installation. An EPA WaterSense certified Irrigation System Auditor shall conduct the landscape water audit and submit a Certificate of Compliance, Landscape Water Audit sheet.
- B. The Landscape Auditor shall inform the applicant of all non-compliance issues with the Ordinance. This shall include, but not be limited to, all items listed on the Certificate of Compliance, Landscape Water Audit sheet.
- C. All non-compliance issues shall be repaired and the site shall be re-audited for compliance with the criteria of this Chapter prior to final inspection/permit and final sign off.

17.80.080 Certifications. Water Efficiency Landscape Checklist/Certification sheets will be part of the Landscape Project Application (LPA) requirements.

- A. The person(s) creating the landscape design shall complete the Certificate of Compliance, Landscape Design sheet certifying the landscape has been designed to comply with the criteria of this Chapter.
- B. The Landscape Contractor/Installer shall complete the Certificate of Compliance, Landscape Installation sheet certifying the landscape has been installed, as specified in the Landscape Plans, and complies with the criteria of this Chapter.
- C. The Landscape Auditor shall complete the Landscape Certificate of Compliance, Water Audit sheet certifying the landscape and irrigation system have been installed, as specified in the Landscape Plans, and comply with the criteria of this Chapter.
- D. The Maintenance Contractor/Person shall complete the Certificate of Compliance, Landscape Maintenance sheet certifying the landscape maintenance contractor agrees to manage the property using less water than the Maximum Applied Water Allowance.
- E. While standards applications are not required for Municipality and Public Agency Projects involving "City" projects conducted by City staff or City hired consultants, where certifications (i.e., Design, Installation, Maintenance, and Auditing) are needed, ~~and~~ the City's Maintenance Supervisors may sign-off on them.

17.80.090 Landscape and Irrigation Maintenance Schedule. The landscape designer or installer shall develop a landscape maintenance specification and schedule for the landscape project that is consistent with the most recent acceptable best management practices as determined by the City of Clayton for landscape maintenance. Schedules shall be submitted with the Certification of Completion.

- A. An annual landscape maintenance schedule shall include at least the following: routine inspection; adjustment and repair of the irrigation system and its components; aerating turf areas; replenishing mulch; seasonal pruning; weeding in all landscape areas; and removing obstructions to emission devices;
- B. Repair of all irrigation equipment shall be done with the originally installed components or their equivalents;
- C. Project shall be irrigated so that total annual water applied is less than or equal to the Maximum Applied Water Allowance (MAWA) (if applicable).

17.80.100 Stormwater Management. All applicable projects shall comply with the requirements of the National Pollutant Discharge Elimination System intended to implement storm water best management practices into the planting, irrigation, and grading plans to minimize runoff and to increase on-site retention and infiltration.

17.80.110 Provisions for Existing Landscapes. This section applies to existing landscapes that were installed before January 5, 2017.

A. Irrigation Survey and Irrigation Water Use Analysis

To ensure the efficient use of landscape water, each owner of property in the City of Clayton is encouraged to utilize resources and services, such as irrigation surveys and landscape water use analyses that are offered by the local retail or wholesale water utility.

B. Water Waste Prevention

Each owner of property in the City of Clayton shall prevent water waste resulting from inefficient landscape irrigation by prohibiting runoff from the target landscape areas due to excessive irrigation or inappropriate run times related to time of day, seasonal and/or variable weather conditions, low head drainage, overspray, or other similar conditions where water flows onto an adjacent property, walks, roadways, parking lots, or structures.

17.80.120 Public Education.

- A. All new model homes that are landscaped shall use signs, brochures and other written information to demonstrate the principles of water-efficient landscapes that are described in this Chapter. Signage shall include information about the site water use as designed per the local ordinance; specify who designed and installed the water efficient landscape; and demonstrate low water use approaches to landscaping such as using native plants, graywater systems, and rainwater catchment systems.
- B. The architectural guidelines of a common interest development, which include homeowner associations, community apartment projects, condominiums, planned developments, and stock cooperatives, shall not prohibit activities or conditions that have the effect of allowing the use of low water use plants as a group.
- C. For new homes/commercial developments, applicant/owner is required to provide the irrigation controller map and programming table and annual maintenance schedules to new tenants or owners at transfer of ownership/maintenance responsibility.
- D. The City of Clayton shall provide on its website links to resources that offer information about the principals of designing, installing, and maintaining water-efficient landscapes. An example of a link is to the local water utility, the Contra Costa Water District, and the landscape water conservation information that Agency offers.

17.80.130 Reporting

- A. The City of Clayton shall submit annual reports to the Department of Water Resources using the Water Efficient Landscape Ordinance Reporting Form, which

can be accessed through the Department of Water Resources website. All reports are due by January 31st of each year.

**PLANNING COMMISSION
STAFF REPORT**

Meeting Date: October 25, 2016

Item Number: 5.c.

From: Mindy Gentry *MG*
Community Development Director

Subject: Ordinance Amending the Landscape Water Conservation Standards (ZOA-07-16)

Applicant: City of Clayton

REQUEST

The City of Clayton is requesting a public hearing to consider a City-initiated Ordinance amending Title 17 "Zoning", Chapter 17.80 of City of Clayton Municipal Code in order to revise the landscape water conservation standards to comply with changes in State law (ZOA-07-16).

PROJECT INFORMATION

Location: Citywide

Environmental: This ordinance is exempt from review under the California Environmental Quality Act ("CEQA") (California Public Resources Code Section 21000 et seq.). Pursuant to State CEQA Guidelines section 15307 (14 Cal. Code Regs., § 15307), this Ordinance is covered by the CEQA Categorical Exemption for actions taken to assure the maintenance, restoration, enhancement, or protection of a natural resource where the regulatory process involves procedures for protection of the environment. The adoption of this Ordinance will result in the enhancement and protection of water resources, and will not result in cumulative adverse environment impacts or any other potentially significant impact described in State CEQA Guidelines section 15300.2. It is therefore exempt from the provisions of CEQA.

Public Notice: On October 14, 2016, a public hearing notice was published in the Contra Costa Times and a public hearing notice was posted at designated locations in the City.

BACKGROUND

In 1990, the California State Legislature passed the Water Conservation in Landscaping Act, AB 325, requiring all local agencies to adopt a Water Efficient Landscape Ordinance (WELO).

In September of 2010, the City of Clayton adopted an updated water conservation ordinance in response to the State Water Conservation in Landscaping Act of 2006 (AB 1881). AB 1881 directed the Department of Water Resources to develop a new State Landscape Water Conservation Ordinance,

which became effective January 1, 2010. The State Ordinance required all new and rehabilitated landscapes be designed and installed to meet the latest best practices for water use efficiency. All cities and counties in California were required to adopt the State Ordinance as written or develop their own ordinance that is at least as effective in conserving water. Generally, the thresholds established in the State Ordinance applied to irrigated landscaped areas of 2,500 square feet or greater for developer-initiated projects and public projects, and 5,000 square feet or greater for owner-initiated single-family residential projects. The Planning Commission found the State Ordinance to be too cumbersome and directed staff to participate in drafting an alternative ordinance that was equally as effective as the State Ordinance, but less complicated. The City of Clayton, along with other jurisdictions in the area, worked to draft a Regional Ordinance in order to improve the administration and implementation of the required standards by simplifying the process for design and review. Minor changes were made to the Regional Ordinance which was adopted by the City in 2010.

DISCUSSION

On January 14, 2014, Governor Jerry Brown proclaimed a State of Emergency throughout the State of California due to severe drought conditions. Subsequently on April 1, 2015, the Governor issued Executive Order B-29-15 (EO-29-15) directing the State Water Resources Board to update the State Model Water Efficient Landscape Ordinance (**Attachment B**). The Executive Order called for revising the Model Ordinance to increase water efficiency standards for new retrofitted landscapes through more efficient irrigation systems, greywater usage, onsite stormwater capture, and by limiting the portion of landscapes that can be covered in turf. The Model Ordinance also requires jurisdictions to report on the implementation and enforcement of local ordinances (**Attachment C**).

All jurisdictions throughout the state are required to adopt the State model ordinance or alternatively jurisdictions can adopt their own ordinance as long as it is equally as effective in conserving water as the State's Model Ordinance. The City's existing ordinance does not comply with the with the State's Model Ordinance as it is not equally as effective in conserving water. Therefore, the City is now under the State's updated Ordinance which is in compliance with Executive Order 29-15; however similarly to the update in 2010, the State's Ordinance is cumbersome and the City's subject proposed ordinance will simplify the process.

SIGNIFICANT PROPOSED CHANGES TO CITY'S ORDINANCE

The major changes to the City's model ordinance, in conformance with the State Ordinance, are as follows:

Projects Subject to the Ordinance

The size of new landscape areas associated with commercial, multifamily, and single family projects subject to the Ordinance has been lowered from 2,500 square feet to 500 square feet. The threshold for new owner-directed single family projects has been lowered from 5,000 square feet to 500 square feet and rehabilitated owner-directed single family projects has been lowered from 5,000 square feet to 2,500 square feet.

Water Efficient Worksheet and Water Budget

- The maximum applied water allowance (MAWA) has been lowered from 70% of the reference evapotranspiration (ET_o) to 55% for residential landscape projects, and to 45% of ET_o for non-residential projects. This water allowance reduces the landscape area that can be planted with high water use plants such as cool season turf. The water budget approach allows for areas of high water use plants if the water use is reduced in other areas, provided the overall landscape area stays within budget.

Landscape Design

- Turf cannot exceed 25 percent of the landscape area for residential uses and no turf is allowed in non-residential uses.
- Turf cannot be planted in medians or in areas narrower than ten feet.
- Compost must be incorporated into the soil prior to planting at a rate of four yards per 1,000 square feet.
- Mulch depth has been increased to three inches from two.

Irrigation

- Dedicated landscape water meters or submeters are required for residential landscapes over 5,000 square feet and non-residential landscapes over 1,000 square feet.
- Irrigation systems are required to have pressure regulation to ensure correct and efficient operation.
- Flow sensors that detect and report high flow conditions due to broken pipes and/or popped sprinkler heads are required for landscape areas greater than 5,000 square feet.
- Master shut-off valves are now required in case of large irrigation system failures.
- Minimum width of area that can be overhead irrigated was increased to ten feet.

Graywater

- Graywater systems are allowed.

Reporting

- The City is required to report annually to the Department of Water Resources on the implementation and enforcement of the Water Efficient Landscape Ordinance.

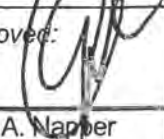
RECOMMENDATION

Staff recommends that the Planning Commission consider all information provided and submitted, and take and consider all public testimony and, if determined to be appropriate, adopt Resolution 13-16, recommending City Council approval of an Ordinance modifying the landscape water conservation standards (**Attachment A**).

ATTACHMENTS

- A. Planning Commission Resolution 13-16, with attachment:
Exhibit A – Draft Ordinance Modifying the Landscape Water Conservation Standards
- B. Executive Order B-29-15
- C. Department of Water Resources Model Water Efficient Landscape Ordinance



Approved: 
Gary A. Napper
City Manager

STAFF REPORT

TO: HONORABLE MAYOR AND COUNCIL MEMBERS

FROM: MILAN J. SIKELA, JR., ASSISTANT PLANNER

DATE: NOVEMBER 15, 2016

SUBJECT: PUBLIC HEARING TO REVIEW AND CONSIDER THE THREE-LOT ST. JOHN'S CHURCH/SOUTHBROOK DRIVE MIXED USE PLANNED DEVELOPMENT PROJECT INITIAL STUDY/MITIGATED NEGATIVE DECLARATION (ENV-01-15), GENERAL PLAN AMENDMENT (GPA-01-15), REZONE (ZOA-03-15), DEVELOPMENT PLAN (DP-01-15), TENTATIVE PARCEL MAP (MAP-01-15), SITE PLAN REVIEW PERMIT (SPR-07-16), AND TREE REMOVAL PERMIT (TRP-37-15)

RECOMMENDATIONS

It is recommended the City Council consider all information provided and submitted, take and consider all public testimony and, if determined to be appropriate, take the following actions:

- 1) Motion to approve City Council Resolution No. XX-2016 (**Attachment 1**) adopting the St. John's Church/Southbrook Drive Mixed Use Planned Development Project Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program (ENV-01-15); and
- 2) Motion to approve City Council Resolution No. XX-2016 (**Attachment 2**) adopting a General Plan Amendment for 0.41 acres of the project site from Institutional Density (ID) to Single Family Medium Density (MD) for the St. John's Episcopal Church/Southbrook Drive Mixed Use Planned Development Project (GPA-01-15); and
- 3a) Motion to have the City Clerk read the Ordinance No. 471 by title and number only and waive further reading; and

- 3b) Following the Clerk's reading; motion to approve City Council Ordinance No. 471 (**Attachment 3**) rezoning the project site from Agricultural District (A) to Planned Development District (PD) for the St. John's Episcopal Church/Southbrook Drive Mixed Use Planned Development Project (ZOA-03-15); and
- 4) Motion to approve City Council Resolution No. XX-2016 (**Attachment 4**) approving the St. John's Episcopal Church/Southbrook Drive Mixed Use Planned Development Project Development Plan (DP-01-15), Tentative Subdivision Map (MAP-01-15), Site Plan Review Permit (SPR-07-16), and Tree Removal Permit (TRP-37-15) for a three-lot subdivision for two single-family homes, to be effective on the same date as adoption of Ordinance No. 471

BACKGROUND/DISCUSSION

On October 25, 2016 the Planning Commission reviewed and approved four Planning Commission Resolutions which recommended City Council approval of the St. John's Episcopal Church/Southbrook Drive Mixed Use Planned Development project. The St. John's Episcopal Church/Southbrook Drive Mixed Use Planned Development project is located on a 2.77-acre parcel between Clayton Road (located on the project site's southern frontage) and Southbrook Drive (located on the project's site's northern frontage) and is surrounded by existing single-family residential neighborhoods to the east and west (see **Attachment 5** for Vicinity Map). The subject property is addressed as 5555 Clayton Road (APN: 118-101-022) and is the site of the existing St. John's Episcopal Church comprising the church itself, ancillary church buildings, and a parking lot with 82 parking spaces.

The applicant proposes to subdivide the existing property into three lots. The largest parcel would consist of the existing structures and the parking lot related to the church; all existing structures and the parking lot associated with the church would remain unchanged by the project. The other two proposed parcels would be located in the northernmost undeveloped portion of the subject property adjacent to Southbrook Drive and would be utilized for the construction of two single-family residences, one two-story residence on each lot that would front onto and be accessed from Southbrook Drive.

The project entails review and consideration of an Initial Study/Mitigation Negative Declaration and Mitigation Monitoring and Reporting Program (ENV-01-15), General Plan Amendment (GPA-01-15), Rezone (ZOA-03-15), Development Plan (DP-01-15), Tentative Parcel Map (MAP-01-15), Site Plan Review Permit (SPR-07-16), and Tree Removal Permit (TRP-37-15).

ENVIRONMENTAL REVIEW

In compliance with the California Environmental Quality Act (CEQA), the City has prepared an Initial Study/Mitigated Negative Declaration (IS/MND) and Mitigation Monitoring and Reporting Program (MMRP) for the proposed project. The IS/MND was circulated for a 20-day public review period from September 19, 2016 to October 10, 2016. Due to the length of the IS/MND, the document was distributed to the City Council on November 9, 2016. The IS/MND and MMRP are available for review at the Community Development Department on the third floor of City Hall and can also be found on the City's website at:

<http://www.ci.clayton.ca.us/documents/ENV-01-15.FINAL.Public.Review.Draft%20Southbrook%20ISMND%20091316.pdf>

The IS/MND evaluated the potential project-related environmental impacts: aesthetics, agriculture resources, air quality, greenhouse gas emissions, biological resources, cultural resources, geology and soils, hazards and hazardous materials, hydrology, land use, mineral resources, noise, population and housing, public services, recreation, transportation/circulation, and utilities and service systems, and mandatory findings of significance. Of the eighteen potential impacts evaluated, the IS/MND identified five environmental factors that are "potentially significant": biological resources, cultural resources, geology and soils, hydrology and water quality, and noise. Mitigation measures have been provided for the five potentially significant impacts, thereby reducing the project impacts on the environment to a "less-than-significant" level. The evaluations, impacts, and mitigation measures are described in detail in the IS/MND.

GENERAL PLAN AMENDMENT

The project site currently has a General Plan land use designation of Institutional Density (ID) (**Attachment 6**) which is intended for the development of various forms of senior housing projects under the sponsorship of public or quasi-public agencies with densities ranging from 7.6 to 20 units per acre. Since the two proposed single-family residences would not be compliant with the ID designation, the applicant is requesting to change the land use designation of the northernmost 0.41 acres to Single Family Medium Density (MD) (**Attachment 7**). The MD designation allows for planned unit development and single-family subdivisions including zero lot line projects and single-family residences at densities ranging from 3.1 to 5 units per acre as well as ancillary uses and structures typically associated with single-family residential development, including second dwelling units. Given that the 0.41-acre area is being split into two lots, the average lot size of the 0.41-acre area being proposed for a General Plan land use designation change is 8,929.8 square feet in area, amounting to 4.878 units per acre, which complies with the density range of 3.1 to 5 units per acre. As a result, the General Plan Amendment would allow compatibility for the proposed project with uses and densities allowed within the MD designation.

In looking at the surrounding General Plan land use designations, directly adjacent to the project site are Single Family Low Density (1.1 to 3 units per acre), Public and Semi-Public (City of Concord), and Single Family Residential (City of Concord) land

use designations. Within the immediate vicinity are also Single Family High Density (5.1 to 7.5 units per acre) and Rural Estate (0 to 1.0 units per acre). Given the mixture of surrounding residential land use designations, the proposed MD designation for the two residential lots would adequately integrate with the spectrum of nearby residential designations which range from Rural Estate to Single Family High Density.

Housing Element

State law requires that the State Department of Housing and Community Development (HCD) forecast statewide housing needs and allocate the anticipated need to regions throughout the state. For the Bay Area, HCD provides the regional need to the Association of Bay Area Governments (ABAG), which then distributes the Regional Housing Needs Assessment (RHNA) to the cities and counties within the ABAG region. ABAG allocates housing production goals for cities and counties based on their projected share of the region's household growth, the state of the local housing market and vacancies, and the jurisdiction's housing replacement needs.

For the 2014-2022 projection period, ABAG has allocated the City of Clayton a total of 141 housing units, which must be accommodated for and demonstrated within the City's Housing Element. The City's 2015-2023 Housing Element identifies a citywide capacity of 275 housing units, which provides for a housing surplus of 134 units above the City's assigned RHNA of 141 units.

The Housing Element identifies the entire project site as an Underdeveloped Site and assigned it a realistic "unit capacity" (80% of the maximum density) of 42 units. While the northern 0.41-acre portion of the subject property includes a General Plan Amendment to a less dense residential designation, there is still adequate capacity citywide to accommodate the City's RHNA. The remaining 2.36-acre portion of the subject property could be utilized for future housing development as identified by the General Plan land use designation. The realistic "unit capacity", as assumed in the City's Housing Element, for the remaining 2.36-acre property is 37 units and the inclusion of the two proposed homes would bring the total units for the project site to 39 units, assuming approval of the General Plan Amendment. This is a decrease of a total of three units, from the assumed realistic capacity of 42 units, which still leaves an overall City capacity of 272 units, which is a surplus of 131 units above the required Regional Housing Needs Allocation. Therefore, the proposed project, including the General Plan Amendment, would not conflict with the City's General Plan including the 2015-2023 Housing Element due to there still being adequate capacity to accommodate the RHNA.

REZONE

The current zoning for the subject property is Agricultural District (A) (**Attachment 8**). The surrounding zoning classifications directly adjacent to the project site are Single Family Residential R-12 District, Planned District (City of Concord), and Community Office (City of Concord). Within the immediate vicinity are also Single Family Residential R-40-H and Planned Development (PD) zoning districts. Existing uses on the project site include the church, ancillary church structures, and the church parking

lot, which are uses that are not characterized as agriculture, but are allowable per the Clayton Municipal Code with the approval a use permit. As the current zoning classification would suggest permitted uses would encompass such agriculture-related activities as farming, forestry, and the keeping of aviaries and apiaries. Also, the minimum lot size for properties in the Agricultural District is 5 acres, whereas the project site is 2.77 acres in area, showing a lack of conformance between the subject property and its existing zoning. Furthermore, the project site is not well-suited for agricultural activities, as it is surrounded in its entirety by residential development and church/office uses. Agricultural uses may be considered incompatible with residential, church, and office uses as agricultural activities could create noise, odors, and dust, which could be disruptive to nearby non-agriculture uses.

Furthermore, the Institutional Density General Plan land use designation for the subject property is intended for senior housing under sponsorship of public or quasi-public agencies and does not allow for agricultural uses. Since agricultural uses would conflict with the senior housing uses intended for the site by the General Plan, the proposed rezone to Planned Development would establish greater conformity between the existing General Plan land use designation for the site and the current and proposed uses (**Attachment 9**). In addition to providing conformity, the rezone would not conflict with any applicable land use plans, policies, or regulations.

Approval of the rezone would provide land use integration between the proposed residential portion of the project site and surrounding residential properties, allow development flexibility for potential future projects that may be proposed on the church portion of the subject property, and improve compatibility between zoning classifications and General Plan land use designations, resulting in a more harmonious development pattern that is consistent with the City's current vision.

DEVELOPMENT PLAN

Open Space

The proposed project is requesting a rezone of the entire project site to Planned Development; therefore, the provisions of CMC Chapter 17.28 would also be applicable, including the open space requirements of CMC Section 17.28.100. This section requires provisions for active and passive open space comprising of at least 20 percent of the project site. As a result, the proposed project would be required to acquire and dedicate off-site land for open space or make an in-lieu contribution for the dedication and/or maintenance of open space.

The total area of the two single family home sites is 17,859 square feet and 20 percent of that square footage the developer is required to provide as open space, with 10 percent active open space and 10 percent passive open space. Since on-site open space is not being provided, the developer has three options and shall memorialize the selected option or a combination of options by entering into an agreement with the City, prior to the recordation of the final map: 1) acquire the equivalent amount of land for public open space and/or the construction of open space at an off-site location, 2)

payment of an in-lieu financial contribution to the City for acquisition and/or maintenance of public open space, or 3) if the financial contributions are based upon maintenance costs, such contributions shall be based upon reasonable maintenance costs for a 10-year period and shall be proportional to the land area that would be required if open space area was provided on-site. Staff has provided a condition that the developer shall comply with the open space requirements of the CMC and shall enter into an agreement with the City regarding the open space requirements of the project.

Development Standards

The Planned Development District allows for flexibility in regulations, limitations, and restrictions different than those specified elsewhere in the City such as setbacks and height limitations, location of pedestrian and vehicular access, construction fences and walls, amongst others. The development standards for the two lots for the two single-family homes are proposed in the table below. Staff analyzed the development standards in the adjacent Single Family Residential Districts and found the proposed development standards were identical, with the exception of lot area, to those within the Single Family Residential R-12 District, which is the zoning district immediately adjacent to the proposed project; therefore the proposed development standards conform to surrounding existing development standards, development patterns, and house orientations.

Front Setback	Interior Side Setback	Exterior Side Setback	Rear Setback	Accessory Buildings and Structures	Principal Building Height	Accessory Building Height
20'	10' minimum 25' aggregate	Not Applicable	15'	Subject to CMC Section 17.36.055	Subject to CMC Section 17.16.070	Subject to CMC Section 17.36.055

TENTATIVE PARCEL MAP

The applicant proposes to subdivide the subject 2.77-acre property into three parcels with approximate proposed lot areas measuring as follows:

PARCEL	AREA (IN SQUARE FEET)	AREA (IN ACRES)
A	8,168	0.19
B	9,624	0.22
REMAINDER PARCEL WHERE EXISTING CHURCH IS LOCATED	102,933	2.36

The Tentative Parcel Map proposes to create two new single-family residential lots (Lot A and Lot B) on the undeveloped northern portion of the property along Southbrook Drive. The remaining third parcel will contain the existing church buildings and parking lot. The two proposed single-family residential lots are proposed to have a single-family residence placed on each lot that will be accessed by a shared driveway running along and being bisected by the shared side property line of the two proposed lots. The shared driveway is proposed to be 16 feet in width. Staff has provided a condition that the shared driveway width is subject to review and approval by the City Engineer.

Two existing easements are located on the east side property line of Lot B: a 5-foot wide private drainage easement and a 5-foot wide private stormdrain easement.

Regarding the required parking for the project, staff has provided a condition that four off-street parking spaces shall be provided on each lot; two covered spaces in the garage of each residence and two uncovered spaces which can be provided tandem or side by side in front of the garages of each residence.

Section 16.12 of the CMC requires all new subdivisions to dedicate land, pay a fee in-lieu thereof, or both for park or recreational purposes. For projects involving 50 parcels or less, the proposed subdivision is required to pay a fee equal to the land value of the portion of the local park required to serve the needs of the residents of the proposed subdivision. A condition has been provided requiring payment of parkland dedication fees at the time of filing the final map.

GRADING

There are two topographical components of the subject property—the more level portion of the property, although with a slight downslope, where the church structures and parking lot are located; and then the steeper undeveloped portion of the lot at its northernmost reaches adjacent to Southbrook Drive. The more level portion of the property starts at a maximum elevation of approximately 349 feet above sea level and gradually descends from the southeastern corner of the church parcel along Clayton Road trending in a northwesterly downslope where, in the northern area, the downslope steepens to a minimum elevation of approximately 325 feet above sea level at the northwestern corner of proposed Lot A along Southbrook Drive. The majority of the elevation decline is in the northern portion of the property where the two single-family residential lots will be located. The maximum elevation of the residential portion of the property is approximately 337 feet above sea level with a minimum elevation of approximately 325 feet above sea level. The church portion of the property drops 11 feet in a 620-foot distance, then the terrain in the proposed residential area of the lot steepens considerably, dropping another 12 feet in an approximate 108-foot distance.

In order to address the downslope in the northern portion of the property, the applicant proposes to level off the residential portion of the property in order to provide graded pads for construction of the two proposed residences. As a result, a condition has been provided that the applicant shall obtain a grading permit from the City Engineer. With the pad elevation of the residences located at approximately 8 feet above the sidewalk, the applicant is proposing to install two staircases—one on each residential lot—leading from the sidewalk along Southbrook Drive up to the front porch of each home. Also, a cut in the slope is proposed for the shared driveway which will rise from Southbrook Drive to access the garages for each residence. Retaining walls approximately 2 feet 6 inches in height will run along either side of the driveway where the walls will terminate into the ground as the driveway reaches its apex in front of the garages. At the rear of the graded level residential pad areas backing up to the church parcel will be a retaining wall with a proposed maximum height of approximately 5 feet 6 inches, wrapping around to the side property lines of each residential lot where the wall will shorten to several inches in height. The church parcel would not be altered in any way by grading or the installation of retaining walls or fencing.

UTILITIES

Water, sewer, and stormwater infrastructure for the church parcel would remain unchanged with the implementation of the proposed project. The proposed project would only alter the undeveloped northern portion of the project site as part of the construction of two new single-family residences.

Water

Contra Costa Water District (CCWD) will provide water to the residential portion of the project site. Currently, an existing CCWD water main is located along Southbrook Drive which the applicant proposes to utilize in order to serve the two residential parcels via two water laterals extending from the existing water main, one water lateral to each lot.

Sewer

Sewer service is currently provided in proximity to the residential project site by the City of Concord from an existing sewer line located along Southbrook Drive. The project would include the connection of the proposed residential units to sewer service by way of a new 8-inch sewer line extending from the existing sewer main. Two sewer laterals are proposed to service the two residential parcels, one sewer lateral to each lot. Conditions have been provided that the applicant shall provide a sewer cleanout on each sewer lateral at the front property line and shall submit sewer plans for review and approval by the City of Concord and the Clayton City Engineer.

Stormwater

In order to comply with State's C.3 Standards, the portion of the project site proposed for development has been separated into drainage management areas corresponding with the two residential units. Stormwater runoff from the drainage management areas would be directed to separate bioretention areas, with one bioretention area on each residential lot. Per C.3 Guidebook instructions, the proposed bioretention areas would be sized with adequate capacity to receive and treat all runoff from the impervious areas of the project. Runoff entering the bioretention areas would move through permeable soil layers, which would slow the stormwater while also removing pollutants that may be contained in the runoff. Stormwater that exceeds the bioretention facilities' infiltration capacity, such as in the case of heavy storm events, would be directed to existing stormwater infrastructure located on the eastern portion of the project site and on Southbrook Drive.

Staff has concerns that the applicant proposes the use of sump pumps as a component of the on-site storm drain system, which would not be reliable. Furthermore, the use of sump pumps would require backup generators. Given the constraints of this design, a condition has been provided that an alternative design to the use of sump pumps shall be provided by the applicant, to be reviewed and approved by the City Engineer.

Funding for the operation and maintenance of the stormwater detention basins as well as all drainage facilities located on or adjacent to (including those facilities located in the public right-of-way) each residential lot will be the ongoing responsibility of the property owner of each residential lot. In order to ensure that the stormwater detention basins are not modified in any way and are adequately maintained, staff has provided a condition that the property owner for each lot shall be responsible for (including but not limited to) inspection, reporting, and maintenance of stormwater conveyance and treatment facilities, for which a covenant and agreement (including

stormwater operations and maintenance plan) will be recorded against each property. As conditioned, inspections would occur prior to September 15th of each year and report inspection findings to the City along with the payment of required fees. Conditions have also been provided addressing project-related stormwater, stormdrain, and drainage issues, including, but not limited to, the applicant submitting to the City Engineer for review and approval a stormwater operations and maintenance plan along with a final stormwater control plan.

SITE PLAN REVIEW PERMIT

Architecture and Design

As part of the project, two single-family residences are proposed for construction on the two proposed single-family lots on the Southbrook Drive frontage of the project site, one residence on each lot. Both residences are proposed as two-story homes with four bedrooms, three bathrooms, and a two-car garage. Floor plans and architectural elevations are provided as **Attachment 11**, roof plans are provided as **Attachment 12**, and exterior colors and materials are provided as **Attachment 13**.

While the two-story residences have been designed with slight variations in their exterior colors and materials, the residences share some architectural similarities as well. Each residence is proposed at 26 feet 9 inches in height, which complies with the 35-foot maximum building height allowed in single-family residential districts, as stipulated in CMC Section 17.16.070. Both residences are proposed to be designed with belly bands, “brown gray range” concrete roofing tile, and a 6:12 roof pitch. Plan A will utilize tan vertical board-and-batt siding, horizontal siding on the second-story gabled roof ends, and “El Dorado – La Plata Bluffstone” stone veneer highlights. Plan B will utilize grayish-brown “Hardie” horizontal siding, shingle siding on the second-story gabled roof ends, and “El Dorado – Bluffstone Mineret” stone veneer highlights.

Each residence features sufficient articulation with various projections, recesses, and undulations on all four facades. Visual interest is provided with the varying window sizes and locations which use a multitude of mullions and muntins to break up the various panes of window glass. The earth tones of the proposed exterior colors and materials provide dynamic yet subtle color schemes that foster a unique curb appeal augmenting the neighborhood streetscape while, at the same time, blending architectural integration and continuity with surrounding existing structures. Staff notes that the applicant was sensitive to minimizing impacts to the privacy of surrounding residences by placing only one second-story window on each side elevation of the proposed residences that faces toward the adjacent existing residential properties. Also, the appearance of the residences from off-site areas is enhanced by the garages being located toward the rear of the residences and oriented toward the other proposed residence rather than toward the street or adjacent existing homes. Furthermore, given that the garage is recessed in a stepped-in fashion behind the plane of the side elevations of the staircase and main floor bedroom sections of each residence, the garage is further screened from adjacent private properties, public streets, and public sidewalks.

Setback Analysis

As discussed earlier, the Planned Development zoning proposed for the site allows the project to establish project-specific setbacks, at the discretion of the City Council. Staff has provided a setback analysis below comparing the proposed setbacks for the two new lots and setbacks for comparable existing interior lots in the surrounding R-12 District. As is evident, the proposed setbacks for both lots (which are interior lots) are consistent with surrounding existing interior lot setbacks and actually provide a greater amount of setback area than interior lots in the R-12 District.

Existing Setbacks Surrounding R-12 District	Proposed Setbacks Plan A	Proposed Setbacks Plan B
Front Setback 20'	Front Setback (North) 20'	Front Setback (North) 20'
Side Setback 10' minimum 25' aggregate	Side Setback West 15' East 17' Aggregate 32'	Side Setback West 17' East 15' Aggregate 32'
Rear Setback 15'	Rear Setback (South) 17'	Rear Setback (South) 20'

Residential Floor Area Analysis

Building Footprint

The project meets the applicable building footprint requirements as show below.

Proposed Lot Area Lot A	Proposed Building Footprint	Maximum Building Footprint Allowed	Compliance With Building Footprint Requirements
8,168 sq ft	1,912 sq ft	2,400 sq ft	Yes

Proposed Lot Area Lot B	Proposed Building Footprint	Maximum Building Footprint Allowed	Compliance With Building Footprint Requirements
9,624 sq ft	1,912 sq ft	2,880 sq ft	Yes

Floor Area

The project meets the applicable building footprint requirements as show below.

Proposed Lot Area Lot A	Proposed Floor Area	Maximum Floor Area Allowed	Compliance With Floor Area Requirements
8,168 sq ft	3,168 sq ft	4,133 sq ft	Yes

Proposed Lot Area Lot B	Proposed Floor Area	Maximum Floor Area Allowed	Compliance With Floor Area Requirements
9,624 sq ft	3,168 sq ft	4,640 sq ft	Yes

Landscaping

The applicant has submitted a Landscape Plan for the project (see **Attachment 14**). The applicant is providing a mixture of Japanese maple, eastern redbud, and crape myrtle trees as well as various shrubs, ornamental grasses, and groundcovers. Staff has provided a condition that, prior to a grading permit being issued for the project, a revised Landscape, Irrigation, Fencing, and Retaining Wall Plan shall be submitted along with construction plans for building permit issuance to the Community Development Director for review and approval. Furthermore, landscaping (ornamental grasses and groundcovers) is proposed in front of both residential lots in the public right-of-way along Southbrook Drive. A condition has been provided addressing installation and maintenance of landscaping in the public right-of-way.

Overall, as conditioned, staff is satisfied with the proposed landscape plan as the applicant shows a good use of accent trees and a variety of shrubs and groundcover to provide a mix of heights, vegetative textures, and colors. Furthermore, the applicant has made good use of drought-tolerant landscaping and avoided utilizing turf as part of their landscape proposal. Staff has provided a condition that the landscaping for the project comply with the City's landscape water conservation standards, as listed in Chapter 17.80 of the CMC at the time of plan submittal.

Fencing

Fencing is being proposed from the front porch of the residence on Lot A and the front corner of the residence on Lot B to both respective side property lines as well as in the rear yards of each residential lot. Staff conducted a site inspection of the property and observed that the existing side yard fences of each adjacent residential lot are older good-neighbor fences. As a result, staff has provided a condition that either the applicant work with the neighboring property owners to replace the existing side yard fencing or shall install a new fence along the side property lines of each residential lot abutting the existing adjacent residential properties.

Retaining Walls

The proposed project includes construction of multiple retaining walls. The retaining walls are proposed with brownish-tan coloring using a high-strength pin-connection Basalite Geowall system (see **Attachment 15**). As a point of clarification, **Attachment 15** depicts a three-tiered retaining wall; however, the retaining walls proposed for the project will only be a single tier. The attachment was provided to show the color and style of the proposed retaining wall rather than the number of tiers. As mentioned previously, staff has provided a condition that complete retaining wall plans shall be submitted to the City for review and approval by the Community Development Director to ensure design compliance with the City's approval.

The largest retaining wall would be approximately 6 feet or less in height and would separate the church parking lot from the proposed backyards of each residential lot. The grade would be retained along the property line separating the parcel containing the church from the parcels containing proposed residential units. Additional retaining walls will also be placed on either side of the proposed shared driveway, as well as on either side of the entry stairways leading from each residence to the sidewalk along Southbrook Drive. Currently, a dilapidated wooden retaining wall exists adjacent to the sidewalk along Southbrook Drive that will be removed and replaced with a fill slope as part of the proposed project. Soil displacement between the removal of existing retaining walls and the construction of new retaining walls is expected to be essentially balanced and, as a result, the proposed project is not expected to require soil import or export.

Overall, as conditioned, staff is satisfied with the design of the proposed retaining walls with the natural earth tone colors as it will blend well with surrounding topography, neighborhood, and landscaping.

TREE REMOVAL PERMIT

Currently existing on the project site are ten trees. As part of the project, the applicant is requesting approval of a Tree Removal Permit to remove seven of the ten trees, for which an Arborist Report has been submitted (see **Attachment 16**). Contained within the Arborist Report is a narrative that, in summary, addresses the poor branch structure and stress of the existing trees caused by the lack of maintenance and irrigation.

The applicant has submitted a Landscape Plan showing that six replacement trees will be provided. In analyzing the replacement trees vis-à-vis the removed trees, staff calculated the trunk diameter of the subject trees, which is the method of measurement used by the City to assess the size of a tree related to tree removal and/or tree replanting in accordance with the City's Tree Protection Ordinance. Section 15.70.015.E of the CMC defines the trunk diameter as the diameter of a tree trunk as measured 4 feet 6 inches above natural grade. Of the six replacement trees, three of them are proposed at 24-inch box size and three of them are proposed at 15-gallon size. Depending on the species of tree, a 24-inch box tree generally measures 1 to 2 inches in trunk diameter. For purposes of this analysis, staff averaged the trunk diameter of a 24-inch box tree as 1.5 inches (halfway between the 1- to 2-inch trunk diameter of 24-inch box trees). As for 15-gallon trees, a 15-gallon tree generally measures 0.5 to 1 inch in trunk diameter. Staff averaged the trunk diameter of a 15-gallon tree as 0.75 inches (halfway between the 0.5- to 1-inch trunk diameter). Based on these trunk diameter averages, three replacement 24-inch box trees would amount to a total of 4.5 inches of replacement trunk diameter and three replacement 15-gallon trees would amount to a total of 2.25 inches of replacement trunk diameter. As a result, the applicant is proposing to provide a combined total of 6.75 inches of replacement tree.

Section 15.70.040.A of the CMC provides the following options for tree replacement:

- For every inch of removed tree trunk diameter, a half inch (or 50%) of replacement tree may be provided if the replacement tree *is not* on the City's Protected Tree list; or
- For every inch of removed tree trunk diameter, a third of an inch (or 33%) of replacement tree may be provided if the replacement tree *is* on the City's Protected Tree list.

When evaluating the amount of removed tree diameter against replacement tree diameter, staff notes that four of the seven trees slated for removal have trunk diameters that are below the 6-inch minimum trunk diameter threshold that would trigger the requirement for a Tree Removal Permit. In other words, only three of the seven trees proposed for removal have trunk diameters exceeding the 6-inch trunk diameter threshold requirement. Based on this observation, staff notes that the three trees triggering the Tree Removal Permit requirement amount to a cumulative total of 20 inches of trunk diameter (6, 6, and 8 inches). Since the applicant is proposing to use replacement trees that are not on the City's Protected Tree list, 50% of the 20-inch removed tree trunk diameter would have to be mitigated by 10 inches of replacement tree(s). Given the applicant's proposed 6.75 inches of replacement tree trunk diameter, there is a shortfall of 3.25 inches of replacement tree trunk diameter.

As a result, staff has provided a condition that, prior to issuance of a grading permit for the project, a Tree Replacement Plan be submitted showing either two additional 24-inch box replacement trees or four additional 15-gallon trees to compensate for the 3.25-inch replacement tree trunk diameter shortfall or shall pay the appropriate tree replacement in-lieu fee if the applicant demonstrates there is not adequate space on-site to accommodate the required replacement trees with review and approval by the Community Development Director. Furthermore, a condition is provided that all project-related trees shall be planted a minimum of 10 feet away from water, sewer, and stormdrain lines. In addition, in order to minimize damage to public improvements (i.e. sidewalks), staff has provided a condition that trees planted less than 10 feet away from public improvements shall have root guards installed.

ENGINEERING COMMENTS

As part of the project, the applicant will be providing off-site curb, gutter, and sidewalk modifications and improvements in the public right-of-way along Southbrook Drive as part of the installation of the shared driveway as well as for the removal of an existing unused driveway on the street frontage of Lot A. In order to ensure that improvements done in the public right-of-way are compliant with City regulations, including addressing safety issues relating to line-of-sight for vehicles entering and exiting the shared driveway, conditions have been provided regarding public right-of-way improvements and line-of-sight issues related to the retaining walls adjacent to the shared driveway as well as the shared driveway itself.

COMMENTS RECEIVED

Contra Costa County Fire Protection District

The Contra Costa County Fire Protection district reviewed the proposal and made a determination that the project complies with Fire District standards as related to fire safety access. Staff has provided advisory notes addressing project compliance with Fire District requirements.

East Contra Costa County Habitat Conservancy

The requirements of the East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan (HCP/NCCP), as promulgated by the East Contra Costa County Habitat Conservancy, would not be applicable to this project. According to CMC Section 16.55.030, any development that permanently disturbs less than one acre of land would not be subject to the HCP/NCCP. Since the project to permanently disturb only 0.41 acres of land, the project would not be subject to HCP/NCCP requirements.

Public Comment

Staff received an email expressing opposition to the project. A copy of the email has been provided as **Attachment 17**.

FISCAL IMPACT

It is anticipated the approval of this project will not result in a direct fiscal impact to the City. The developer is required to pay the impacts fees pertaining to community facilities development, offsite arterial improvements, childcare, parkland dedication, possible open space in-lieu, and fire development protection. These impact fees are to offset costs associated with this infrastructure. Further, the City will collect property taxes on the two new homes, which will assist by offsetting a portion of ongoing City operating costs.

ATTACHMENTS

1. City Council Resolution No. XX-2016 adopting the St. John's Church/Southbrook Drive Mixed Use Planned Development Project Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program (ENV-01-15) [8 pp.]
2. City Council Resolution No. XX-2016 adopting a General Plan Amendment to modify 0.41 acres of the project site from Institutional Density (ID) to Single Family Medium Density (MD) for the St. John's Church/Southbrook Drive Mixed Use Planned Development Project (GPA-01-15) [3 pp.]
3. City Council Ordinance No. 471 approving a rezone of the project site from Agricultural District (A) to Planned Development District (PD) for the St. John's Church/Southbrook Drive Mixed Use Planned Development Project (ZOA-03-15) [3 pp.]
4. City Council Resolution No. XX-2016 approving the St. John's Church/Southbrook Drive Mixed Use Planned Development Project Development Plan (DP-01-15), Tentative Subdivision Map (MAP-01-15), Site Plan Review Permit (SPR-07-16), and Tree Removal Permit (TRP-37-15) for a three-lot subdivision for two single-family homes [16 pp.]
5. Vicinity Map [1 p.]
6. Existing General Plan Land Use Designation [1 p.]
7. Proposed General Plan Land Use Designation [1 p.]
8. Existing Zoning Classification [1 p.]
9. Proposed Zoning Classification [1 p.]
10. Development Plan and Tentative Parcel Map Plan (including Preliminary Grading Plan, Preliminary Stormwater Control Plan, Boundary and Topography Plan, Site Plan, and Site Sections) [7 pp.]
11. Floor Plans and Architectural Elevations [4 pp.]
12. Roof Plans [2 pp.]
13. Exterior Colors and Materials Diagram [2 pp.]
14. Landscape Plan [1 p.]
15. Retaining Wall Example [1 p.]
16. Arborist Report [2 pp.]
17. Email from Michael Mayer-Oakes [1 p.]

ATTACHMENT 1

RESOLUTION NO. XX-2016

A RESOLUTION OF THE CLAYTON CITY COUNCIL ADOPTING THE FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION AND MITIGATION MONITORING AND REPORTING PROGRAM FOR THE ST. JOHN'S CHURCH/SOUTHBROOK DRIVE MIXED USE PLANNED DEVELOPMENT PROJECT

THE CITY COUNCIL City of Clayton, California

WHEREAS, the City received an application from Armand Butticci requesting review and consideration of an Initial Study/Mitigated Negative Declaration (ENV-01-15), General Plan Amendment (GPA-01-15), Rezone (ZOA-03-15), Tentative Parcel Map (MAP-01-15), Development Plan (DP-01-15), Site Plan Review Permit (SPR-07-16), and Tree Removal Permit (TRP-37-15) for the subdivision of the existing 2.77-acre St. John's Episcopal Church property into three parcels for the existing church and two single-family residences ("Project"). The Project site is located at 5555 Clayton Road (APN: 118-101-022); and

WHEREAS, the City prepared the St. John's Church/Southbrook Drive Mixed Use Planned Development Project Initial Study/Mitigated Negative Declaration ("IS/MND") and Mitigation Monitoring and Reporting Program ("MMRP") to evaluate the potential environmental impacts of the Project, in accordance with Section 15063 of Title 14 of the California Code of Regulations, the California Environmental Quality Act ("CEQA") Guidelines; and

WHEREAS, a draft IS/MND was duly noticed and circulated for a 20-day review period, with the public review comment period commencing on September 19, 2016 and ending on October 10, 2016; and

WHEREAS, no comments were received by the City on the IS/MND during the 20-day public review period;

WHEREAS, the Clayton Planning Commission has reviewed the IS/MND for the Project; and

WHEREAS, on October 25, 2016, the Clayton Planning Commission held a duly-noticed public hearing on the IS/MND and MMRP, received and considered testimony and evidence, both oral and documentary, and recommended Clayton City Council adopt the IS/MND and MMRP; and

WHEREAS, the Clayton Planning Commission approved Planning Commission Resolution No. 09-16, which recommended City Council adoption of the IS/MND and MMRP; and

WHEREAS, proper notice of this public hearing was given in all respects as required by law; and

WHEREAS, on November 15, 2016, the Clayton City Council held a duly-noticed public hearing on the IS/MND and MMRP, received and considered testimony and evidence, both oral and documentary; and

WHEREAS, the custodian of the Final IS/MND is the Clayton Community Development Department and the Final IS/MND is available for public review at City Hall in the Community Development Department and the MMRP is attached as Exhibit A to this Resolution.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CLAYTON, THAT:

SECTION 1. The City Council does hereby find and affirm the above noted Recitals are true and correct are hereby incorporated in the body of this Resolution as if restated in full.

SECTION 2. The Clayton City Council hereby finds, on the basis of the whole record before it (including the IS/MND, MMRP, and all comments received) that:

- a. The City of Clayton exercised overall control and direction over the CEQA review for the Project, including preparation of the Final IS/MND and MMRP, and independently reviewed the Final IS/MND and MMRP; and
- b. There is no substantial evidence that the Project will have a significant effect on the environment once mitigation measures have been followed; and
- c. The Final IS/MND and MMRP reflect the City's independent judgement and analysis.

SECTION 3. The Clayton City Council hereby adopts the St. John's Church/Southbrook Drive Mixed Use Planned Development Project Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program.

PASSED, APPROVED, AND ADOPTED by the City Council of the City of Clayton, California, at a regular meeting thereof held on the 15th day of November, 2016 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

THE CITY COUNCIL OF CLAYTON, CA

Howard Geller, Mayor

ATTEST:

Janet Brown, City Clerk

I certify that the foregoing resolution was duly and regularly passed by the City Council of the City of Clayton, California at a regular meeting held on the 15th day of November, 2016.

Janet Brown, City Clerk

EXHIBIT A

St. John's Church/Southbrook Drive Mixed Use Planned Development Project Mitigation Monitoring and Reporting Program

October 2016

The California Environmental Quality Act (CEQA) and CEQA Guidelines require Lead Agencies to adopt a program for monitoring the mitigation measures required to avoid the significant environmental impacts of a project. The Mitigation Monitoring and Reporting Program (MMRP) ensures that mitigation measures imposed by the City are completed at the appropriate time in the development process.

The mitigation measures identified in the Initial Study/Mitigated Negative Declaration for the St. John's Church/Southbrook Drive Mixed Use Planned Development Project are listed in the MMRP along with the party responsible for monitoring implementation of the mitigation measure, the milestones for implementation and monitoring, and a sign-off that the mitigation measure has been implemented.

Mitigation Measure	Monitoring Agency	Implementation Schedule	Compliance Verification (Date / Initials)
<p>Mitigation Measure 1. Removal of trees shall occur between September 1st and January 31st, outside the bird nesting season, to the extent feasible. If tree removal must occur during the avian breeding season (February 1st to August 31st), a qualified biologist shall conduct a survey for nesting birds of all trees and shrubs within 75 feet of the entire project site 14 days prior to the commencement of construction, and submit the findings of the survey to the Community Development Department. If nesting passerines are identified during the survey within 75 feet of the project site, a 75-foot buffer around the nest tree shall be fenced with orange construction fencing. If the nest tree is located off the project site, then the buffer shall be demarcated as per above. The size of the buffer may be altered if a qualified biologist conducts behavioral observations and determines the nesting passerines are well acclimated to disturbance. If acclimation has occurred, the biologist shall prescribe a modified buffer that allows sufficient room to prevent undue disturbance/harassment to the nesting passerines. Construction or earth-moving activity shall not occur within the established buffer until a qualified biologist has determined that the young have fledged (that is, left the nest) and have attained sufficient flight skills to avoid project construction zones, which typically occurs by July 15th. However, the date may be earlier or later, and would have to be determined by a qualified biologist. If a qualified biologist is not hired to watch the nesting passerines, then the buffers shall be maintained in place through the month of August and work within the buffer may commence September 1st.</p>	<p>City of Clayton Community Development Department</p> <p>Qualified Biologist</p>	<p>If tree removal must occur during the avian breeding season (February 1st to August 31st), then nesting bird survey shall be conducted 14 days prior to the commencement of construction</p>	
<p>Mitigation Measure 2. Prior to issuance of a grading permit, in accordance with the City's Tree Protection Ordinance, the applicant shall submit to the Community Development Department a Tree Replacement Plan identifying the protected tree that would be removed during project construction. Based upon the current tentative parcel map, the arborist report indicates that one protected tree is proposed for removal, and is rated by the Arborist Report as being of moderate health (Tree #6). Protected trees rated as being in fair or good health shall be replaced at the ratios specified in City of Clayton Municipal Code Section 15.70.040. The Tree Replacement Plan shall be submitted for review and approval by the Community Development Director prior to issuance of a grading permit.</p>	<p>City of Clayton Community Development Department</p>	<p>Prior to the issuance of a grading permit</p>	
<p>Mitigation Measure 3. The following construction policies and guidelines for tree preservation and protection for the existing trees put forth by the City of Clayton shall be followed during project implementation:</p>	<p>City of Clayton Community Development Department</p>	<p>Prior to the commencement of any construction activity and during</p>	

Mitigation Measure	Monitoring Agency	Implementation Schedule	Compliance Verification (Date / Initials)
<ul style="list-style-type: none"> The applicant shall submit for the review and approval of the Community Development Director a tree protection plan to identify the location of the tree trunk and dripline of all protected oaks subject to City of Clayton Municipal Code Section 15.70.020. A protective fence shall be installed around all oaks subject to the tree protection plan. The protective fence shall be installed prior to commencement of any construction activity and shall remain in place for the duration of construction. Grading, excavation, deposition of fill, erosion, compaction, and other construction-related activities shall not be permitted within the dripline or at locations which may damage the root system of trees subject to the tree protection plan, unless such activities are specifically allowed by the tree protection plan. Tree wells may be used if specifically allowed by the tree protection plan. Oil, gas, chemicals, vehicles, construction equipment, machinery, and other construction materials shall not be allowed within the dripline of trees subject to the tree protection plan. 		construction	
<p>Mitigation Measure 4. Prior to the issuance of a grading permit, the grading plan shall include a requirement (via notation) indicating that if cultural resources, or human remains are encountered during site grading or other site work, all such work shall be halted immediately within 100 feet of the area of discovery and the contractor shall immediately notify the City of the discovery. In such case, the City, at the expense of the project applicant, shall retain the services of a qualified archaeologist for the purpose of recording, protecting, or curating the discovery as appropriate. The archaeologist shall be required to submit to the City for review and approval a report of the findings and method of curation or protection of the resources. Further grading or site work within the vicinity of the discovery, as identified by the qualified archaeologist, shall not be allowed until the preceding steps have been taken.</p>	City of Clayton Community Development Department	Prior to the issuance of a grading permit, mitigation requirements shall be noted on grading plan	
<p>Mitigation Measure 5. Pursuant to State Health and Safety Code §7050.5(c) State Public Resources Code §5097.98, if human bone or bone of unknown origin is found during construction, all work shall stop in the vicinity of the find and the Contra Costa County Coroner shall be contacted immediately. If the remains are determined to be Native American, the coroner shall notify the Native American Heritage Commission who shall notify the person believed to be the most likely descendant. The most likely descendant shall work with the</p>	City of Clayton Community Development Department Contra Costa County Coroner (If	During construction	

Mitigation Measure	Monitoring Agency	Implementation Schedule	Compliance Verification (Date / Initials)
<p>contractor to develop a program for re-interment of the human remains and any associated artifacts. Additional work is not to take place in the immediate vicinity of the find, which shall be identified by the qualified archaeologist at the applicant's expense, until the preceding actions have been implemented.</p>	<p>human bone or bone of unknown origin is found during construction)</p> <p>Native American Heritage Commission (if remains determined to be Native American)</p>		
<p>Mitigation Measure 6. Prior to the issuance of a grading permit, the project applicant shall prepare to the satisfaction of the City Engineer, an erosion control plan that utilizes standard construction practices to limit the erosion effects during construction of the proposed project. Actions should include, but are not limited to:</p> <ul style="list-style-type: none"> • Hydro-seeding; • Placement of erosion control measures within drainage ways and ahead of drop inlets; • The temporary lining (during construction activities) of drop inlets with "filter fabric"; • The placement of straw wattles along slope contours; • Use of a designated equipment and vehicle "wash-out" location; • Use of siltation fences; • Use of on-site rock/gravel road at construction access points; and • Use of sediment basins and dust palliatives. 	<p>City Engineer</p>	<p>Prior to the issuance of a grading permit</p>	
<p>Mitigation Measure 7. During construction, the project contractor, at the expense of the project applicant, shall completely remove and re-compact the existing non-engineered fill on-site under the supervision of a registered geotechnical engineer, according to the recommendations presented in the Geotechnical Investigation. The contractor shall remove the upper undocumented fill soil from the area extending at least five feet beyond the edge of the planned building envelopes and also below the planned rear retaining wall. Once removed, subsequent engineered fill may be used as approved by a licensed geotechnical engineer. A written summary of the operations shall be</p>	<p>City Engineer</p>	<p>During construction</p>	

Mitigation Measure	Monitoring Agency	Implementation Schedule	Compliance Verification (Date / Initials)
<i>submitted to the City Engineer.</i>			
Mitigation Measure 8. <i>The applicant shall submit a Final Stormwater Control Plan (including an Operations and Maintenance Manual) fully addressing the requirements of the City's recently amended Municipal Regional Stormwater NPDES Permit (Permit No. CAS612008, as amended November 19, 2015), and including an alternative to the use of sump pumps, such as dry wells, to the satisfaction of the City Engineer.</i>	City Engineer	Prior to approval of improvement plans	
<p>Mitigation Measure 9. <i>During grading and construction, the project contractor shall ensure that the following measures are implemented, consistent with the recommendations in the Environmental Noise and Vibration Analysis:</i></p> <ul style="list-style-type: none"> • <i>Grading and construction activities shall be limited to the daytime hours between 7:00 AM to 5:00 PM Monday through Friday, as specified in Section 15.01.101 of the Clayton Municipal Code. Any such work beyond said hours and days is strictly prohibited unless previously specifically authorized in writing by the City Engineer or designee or by project conditions of approval;</i> • <i>The distances between on-site construction and demolition staging areas and the nearest surrounding residences shall be maximized to the extent possible; and</i> • <i>All construction and demolition equipment that utilizes internal combustion engines shall be fitted with manufacturer's mufflers or equivalent.</i> 	<p>City of Clayton Community Development Department</p> <p>City Engineer</p>	During grading and construction	

ATTACHMENT 2

RESOLUTION NO. XX-2016

**A RESOLUTION OF THE CLAYTON CITY COUNCIL
MODIFYING THE EXISTING LAND USE DESIGNATION
FROM INSTITUTIONAL DENSITY (ID) TO SINGLE FAMILY MEDIUM DENSITY
(MD) FOR THE NORTHERN 0.41 ACRES OF THE
ST. JOHN'S CHURCH/SOUTHBROOK DRIVE MIXED USE PLANNED
DEVELOPMENT PROJECT**

THE CITY COUNCIL OF THE CITY OF CLAYTON FINDS AS FOLLOWS:

WHEREAS, the City received an application from Armand Butticci requesting review and consideration of an Initial Study/Mitigated Negative Declaration (ENV-01-15), General Plan Amendment (GPA-01-15), Rezone (ZOA-03-15), Development Plan (DP-01-15), Tentative Parcel Map (MAP-01-15), Site Plan Review Permit (SPR-07-16), and Tree Removal Permit (TRP-37-15) for the subdivision of the existing 2.77-acre St. John's Episcopal Church property into three parcels for the existing church and two single-family residences ("Project"). The Project site is located at 5555 Clayton Road (APN: 118-101-022); and

WHEREAS, the applicant is proposing to modify the existing General Plan land use designation for a 0.41-acre portion of the 2.77-acre site located on the northern area of the property adjacent to Southbrook Drive from Institutional Density (ID) to Single Family Medium Density (MD) in order to create two single-family residential lots (0.19 acres and 0.22 acres in area) for the construction of a single-family residence on each lot; and

WHEREAS, the General Plan Amendment request is to modify the existing General Plan land use designation for the two single-family residential lots proposed as part of the St. John's Church/Southbrook Drive Mixed Use Planned Development Project and is not considered to be a "substantial amendment"; and

WHEREAS, the remaining 2.36-acre portion of the property containing the St. John's Episcopal Church will maintain its existing General Plan land use designation of Institutional Density (ID); and

WHEREAS, Section 65358 of the California Government Code provides for the amendment of all or part of an adopted General Plan; and

WHEREAS, the proposed modification of the General Plan land use designation for the 0.41-acre portion of the property adjacent to Southbrook Drive from Institutional Density (ID) to Single Family Medium Density (MD) would be in the public interest, has been assessed for potential impacts, and has been determined to not be detrimental to the public health, safety, or welfare; and

WHEREAS, the surrounding neighborhood, including properties adjacent to the Project consist of the single-family residential uses; and

WHEREAS, the proposed modification of the General Plan land use designation for the 0.41-acre portion of the property adjacent to Southbrook Drive from Institutional Density (ID) to Single Family Medium Density (MD) is internally consistent with the balance of the General Plan; and

WHEREAS, on October 25, 2016, the Clayton Planning Commission held a duly-noticed public hearing on the matter, received and considered testimony and evidence, both oral and documentary, and recommended approval to the Clayton City Council for the proposed amendment to the General Plan land use designation for 0.41 acres of the project site from Institutional Density (ID) to Single Family Medium Density (MD) for the St. John's Church/Southbrook Drive Mixed Use Planned Development Project; and

WHEREAS, the Clayton Planning Commission approved Planning Commission Resolution No. 10-16, which recommended City Council approval of the General Plan amendment; and

WHEREAS, proper notice of this public hearing was given in all respects as required by law; and

WHEREAS, on November 15, 2016, the Clayton City Council held a duly-noticed public hearing on the matter, received and considered testimony and evidence, both oral and documentary, regarding the General Plan amendment; and

WHEREAS, the St. John's Church/Southbrook Drive Mixed Use Planned Development Project Initial Study/Mitigated Negative Declaration (IS/MND) was prepared pursuant to the California Environmental Quality Act, which included an analysis of the amendment to the General Plan land use designation of 0.41 acres of the property from Institutional Density (ID) to Single Family Medium Density (MD) and concluded that the Project would result in a less-than-significant impact on the environment; and

WHEREAS, the Clayton City Council adopted the St. John's Church/Southbrook Drive Mixed Use Planned Development Project Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program.

NOW, THEREFORE, BE IT RESOLVED, the City Council of the City of Clayton, based on the entire record before it and pursuant to its independent review and consideration hereby **APPROVES** a General Plan amendment for 0.41 acres from Institutional Density (ID) to Single Family Medium Density (MD) for property located at 5555 Clayton Road located within the City of Clayton and further described by Assessor Parcel Number APN: 118-101-022 and depicted in the map set forth in Exhibit A attached hereto and incorporated herein by reference ("property").

PASSED, APPROVED, AND ADOPTED at a regular meeting of the City Council of the City of Clayton on the 15th day of November 2016 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

THE CITY COUNCIL OF CLAYTON, CA

Howard Geller, Mayor

ATTEST:

Janet Brown, City Clerk

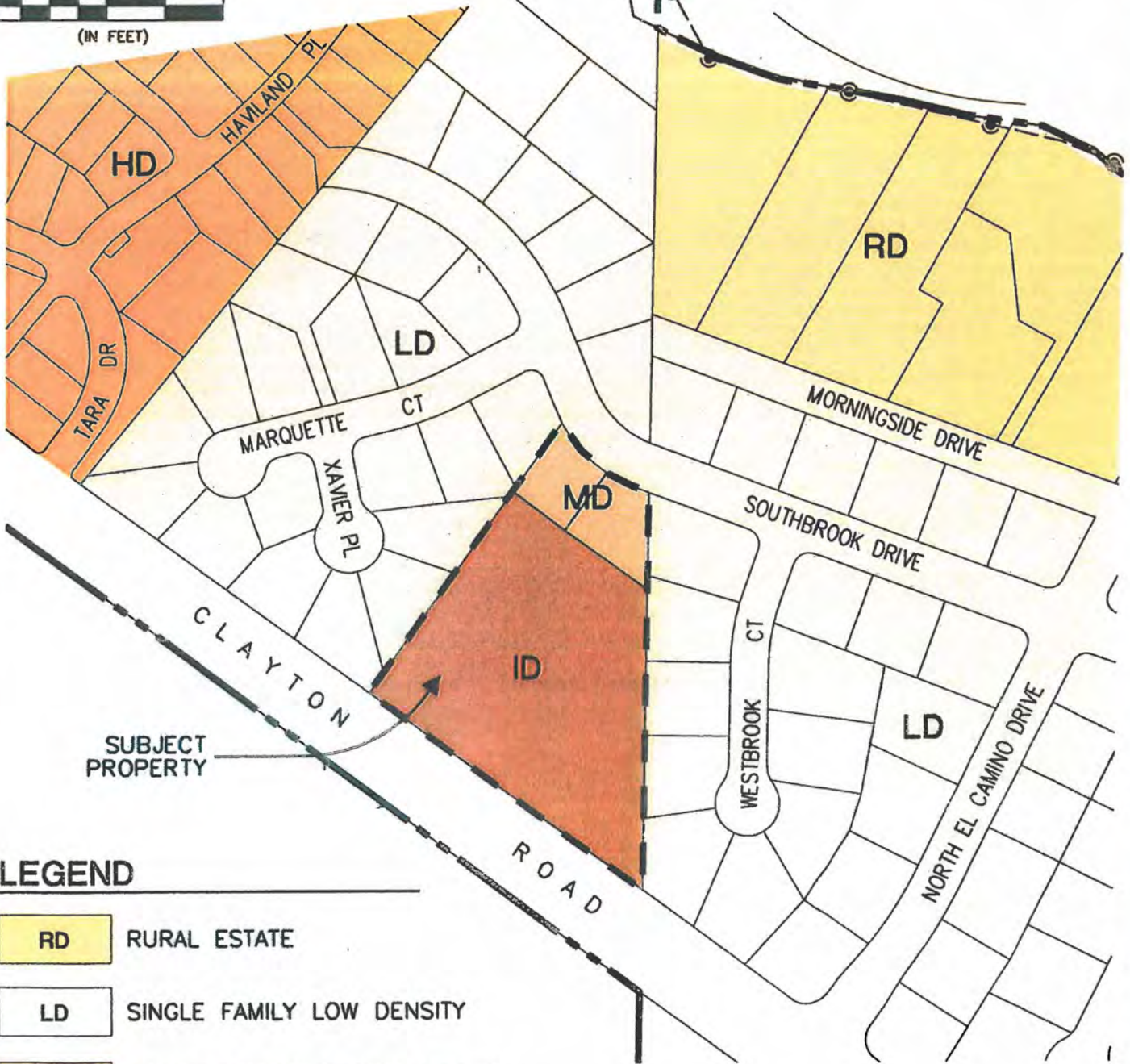
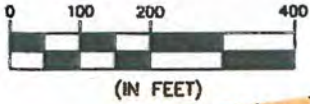
I hereby certify that the foregoing Resolution was passed, approved, and adopted at a regular meeting of the City Council of the City of Clayton held on the 15th day of November, 2016.

Janet Brown, City Clerk

PROPOSED GENERAL PLAN ST. JOHN'S EPISCOPAL CHURCH MS 01-15



GRAPHIC SCALE



SUBJECT PROPERTY

LEGEND

- RD RURAL ESTATE
- LD SINGLE FAMILY LOW DENSITY
- MD SINGLE FAMILY MEDIUM DENSITY
- HD SINGLE FAMILY HIGH DENSITY
- ID INSTITUTIONAL DENSITY

CITY OF CLAYTON

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OCTOBER 2016

THU, OCT 20, 2016 10:20 A WARREN GP MS 01-15 Z:\C0010502\GENERAL PLAN - MS 01-15.DWG

ATTACHMENT 3

ORDINANCE NO. 471

**AN ORDINANCE OF THE CLAYTON CITY COUNCIL
AMENDING THE CLAYTON ZONING MAP FROM AGRICULTURAL DISTRICT (A)
TO PLANNED DEVELOPMENT DISTRICT (PD)
FOR 2.77 ACRES THAT COMPRISE THE
ST. JOHN'S CHURCH/SOUTHBROOK DRIVE MIXED USE
PLANNED DEVELOPMENT PROJECT**

THE CITY COUNCIL OF THE CITY OF CLAYTON FINDS AS FOLLOWS:

WHEREAS, Chapter 17.56 of the Clayton Municipal Code authorizes the City Council to amend the Official Zoning Map of the City of Clayton; and

WHEREAS, the City received an application from Armand Butticci requesting review and consideration of an Initial Study/Mitigated Negative Declaration (ENV-01-15), General Plan Amendment (GPA-01-15), Rezone (ZOA-03-15), Development Plan (DP-01-15), Tentative Parcel Map (MAP-01-15), Site Plan Review Permit (SPR-07-16), and Tree Removal Permit (TRP-37-15) for the subdivision of the existing 2.77-acre St. John's Episcopal Church property into three parcels for the existing church and two single-family residences ("Project"). The Project site is located at 5555 Clayton Road (APN: 118-101-022); and

WHEREAS, on October 25, 2016, the Clayton Planning Commission held a duly-noticed public hearing on the matter, received and considered testimony and evidence, both oral and documentary, and recommended approval to the Clayton City Council for the proposed modification of the zoning designation from Agricultural District (A) to Planned Development District (PD) for the 2.77-acre site comprised of St. John's Church/Southbrook Drive Mixed Use Planned Development Project; and

WHEREAS, the Clayton Planning Commission approved Planning Commission Resolution No. 11-16, which recommended City Council approval of the rezone; and

WHEREAS, on November 15, 2016, the Clayton City Council held a duly-noticed public hearing on the matter, received and considered testimony and evidence, both oral and documentary, regarding the rezone; and

WHEREAS, the St. John's Church/Southbrook Drive Mixed Use Planned Development Project Initial Study/Mitigated Negative Declaration was prepared pursuant to the California Environmental Quality Act, which included an analysis of the rezone of the property from Agricultural District (A) to Planned Development District (PD), and concluded that there is no substantial evidence to suggest that the Project would have a significant effect on the environment; and

WHEREAS, the Clayton City Council adopted the St. John's Church/Southbrook Drive Mixed Use Planned Development Project Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program; and

WHEREAS, the City Council approved a General Plan Amendment of 0.41 acres of the subject site from Institutional Density (ID) to Single Family Medium Density (MD); and

WHEREAS, the proposed zoning classification modification is in general conformance with the General Plan and that the public necessity, conveniences, and general welfare require the adoption of the proposed zoning classification modification; and

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF CLAYTON DOES HEREBY ORDAIN AS FOLLOWS:

SECTION 1. The above-stated citations are true and accurate.

SECTION 2. Based on the entire record before the City Council, all written and oral evidence presented to the City Council, and the findings made in this Ordinance, the real property at located at 5555 Clayton Road located within the City of Clayton and further described by Assessor Parcel Number APN: 118-101-022 and depicted in the map set forth in Exhibit A attached hereto and incorporated herein by reference (“property”) is hereby modified from Agricultural District (A) to Planned Development District (PD).

SECTION 3. CEQA. The City Council hereby determines that the project’s environmental impacts, which included the rezoning of the property from Agricultural District (A) to Planned Development District (PD), could be mitigated to a less-than-significant impact as determined by the St. John’s Church/Southbrook Drive Mixed Use Planned Development Project Initial Study/Mitigated Negative Declaration (IS/MND) and Mitigation Monitoring and Reporting Program (MMRP).

SECTION 4. Severability. If any provisions of this Ordinance, or the application thereof to any person or circumstances, if held to be unconstitutional or to be otherwise invalid by any court of competent jurisdiction, such invalidity shall not affect other provisions or clauses of the Ordinance or application thereof which can be implemented without the invalid provisions, clause, or application, and, to this end, such provisions and clauses of the Ordinance are declared to be severable.

SECTION 5. Conflicting Ordinances Repealed. Any ordinance or part thereof, or regulations in conflict with the provisions of this Ordinance, are hereby repealed. The provisions of this Ordinance shall control with regard to any provision of the Clayton Municipal Code that may be inconsistent with the provisions of this Ordinance.

SECTION 6. Effective Date and Publication. This Ordinance shall become effective thirty (30) days from and after its passage. Within fifteen (15) days after the passage of this Ordinance, the City Clerk shall cause it to be posted in three (3) public places heretofore designated by resolution of the City Council for the posting of ordinances and public notices.

The foregoing Ordinance was introduced at a regular noticed public meeting of the City Council of the City of Clayton held on the 15th day of November, 2016.

PASSED, ADOPTED, AND ORDERED POSTED at a regular meeting of the City Council of the City of Clayton on December 6, 2016 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

THE CITY COUNCIL OF CLAYTON, CA

Howard Geller, Mayor

ATTEST:

Janet Brown, City Clerk

I hereby certify that the foregoing Ordinance was duly introduced at a noticed regular meeting of the City Council of the City of Clayton held on November 15, 2016, and was duly adopted, passed, and ordered posted at a regular meeting of the City Council of the City of Clayton held on December 6, 2016.

Janet Brown, City Clerk

PROPOSED ZONING MAP

ST. JOHN'S EPISCOPAL CHURCH

MS 01-15



GRAPHIC SCALE



LEGEND

- R-12 12,000 S.F. MINIMUM LOT SIZE
- R-40-H 40,000 S.F. MINIMUM LOT SIZE
(HORSES ALLOWED)
- PD PLANNED DEVELOPMENT

THU, OCT 20, 2016 10:20 A WARREN ZONING MS 01-15 Z:\C0010502\ZONE MAP - MS 01-15.DWG

CITY OF CLAYTON

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OCTOBER 2016

ATTACHMENT 4

RESOLUTION NO. XX-2016

A RESOLUTION OF THE CLAYTON CITY COUNCIL APPROVING THE DEVELOPMENT PLAN (DP-01-15), TENTATIVE PARCEL MAP (MAP-01-15), SITE PLAN REVIEW PERMIT (SPR-07-16), AND TREE REMOVAL PERMIT (TRP-37-15) FOR THE ST. JOHN'S EPISCOPAL CHURCH/SOUTHBROOK DRIVE MIXED USE PLANNED DEVELOPMENT PROJECT

THE CITY COUNCIL OF THE CITY OF CLAYTON FINDS AS FOLLOWS:

WHEREAS, the City received an application from Armand Butticci requesting review and consideration of an Initial Study/Mitigated Negative Declaration (ENV-01-15), General Plan Amendment (GPA-01-15), Rezone (ZOA-03-15), Development Plan (DP-01-15), Tentative Parcel Map (MAP-01-15), Site Plan Review Permit (SPR-07-16), and Tree Removal Permit (TRP-37-15) for the subdivision of the existing 2.77-acre St. John's Episcopal Church property into three parcels for the existing church and two single-family residences ("Project"). The Project site is located at 5555 Clayton Road (APN: 118-101-022); and

WHEREAS, the applicant is proposing a Development Plan to develop two single-family residential lots; a Tentative Parcel Map to subdivide a 2.77-acre property into three parcels; a Site Plan Review Permit for review of architecture and landscaping; and a Tree Removal Permit to remove seven of the ten existing on-site trees as part of the St. John's Episcopal Church/Southbrook Drive Mixed Use Planned Development Project; and

WHEREAS, on October 25, 2016, the Clayton Planning Commission held a duly-noticed public hearing on the matter, received and considered testimony and evidence, both oral and documentary, and recommended approval to the Clayton City Council for the proposed a Development Plan to develop two single-family residential lots; a Tentative Parcel Map to subdivide a 2.77-acre property into three parcels; a Site Plan Review Permit for review of architecture and design; and a Tree Removal Permit to remove seven of the ten existing on-site trees as part of the project; and

WHEREAS, the Clayton Planning Commission approved Planning Commission Resolution No. 12-16, which recommended City Council approval of the Development Plan, Tentative Parcel Map, Site Plan Review Permit, and Tree Removal Permit; and

WHEREAS, proper notice of this public hearing was given in all respects as required by law; and

WHEREAS, on November 15, 2016, the Clayton City Council held a duly-noticed public hearing on the matter, received and considered testimony and evidence, both oral and documentary, regarding the Development Plan, Tentative Parcel Map, Site Plan Review Permit, and Tree Removal Permit amendment; and

WHEREAS, Section 17.24.140.A.3 of the Clayton Municipal Code authorizes the City Council to approve development plans; and

WHEREAS, the St. John's Church/Southbrook Drive Mixed Use Planned Development Project Initial Study/Mitigated Negative Declaration (IS/MND) was prepared pursuant to the California Environmental Quality Act, which included an analysis of the Development Plan, Tentative Parcel Map, Site Plan Review Permit, and Tree Removal Permit amendment and concluded that there is no substantial evidence to suggest that, as applicably mitigated, the Project would result in a less-than-significant impact on the environment; and

WHEREAS, the Clayton City Council adopted the St. John's Church/Southbrook Drive Mixed Use Planned Development Project Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program.

WHEREAS, this Resolution cannot be implemented until Ordinance No. 471 - *An Ordinance of the Clayton City Council Amending the Clayton Zoning Map from Agricultural District (A) to Planned Development District (PD) for 2.77 Acres that Comprise the St. John's Episcopal Church/Southbrook Drive Mixed Use Planned Development Project*, becomes effective.

NOW, THEREFORE, BE IT RESOLVED, the City Council does determine the foregoing recitals are true and correct and makes the following findings for approval of the Development Plan as follows:

1. The City Council hereby finds, on the basis of the whole record before it, including all comments received, that the St. John's Episcopal Church/Southbrook Drive Mixed Use Planned Development Project Development Plan (DP-01-15):
 - a. Results in a significantly better quality development that could occur in a non-flexible zone based the evaluation of the project-related natural open space, open space, vehicular access, landscape design, site design, and design features, because the current zoning of Agricultural District (A) District would not allow new single-family residences and associated improvements to be constructed on lots that are 8,168 and 9,624 square feet in area which are uses and lot sizes that would be integrated and complementary with surround existing uses and lot sizes; and
 - b. Complies with the Open Spaces Requirements of Section 17.28.100 since the applicant is conditioned to enter into an agreement with the City to satisfy the applicable Open Space requirements; and
 - c. The General Plan land use designation for the 0.41-acre area has been amended to Single Family Medium Residential (MD) of which the two single-family homes are consistent with the General Plan land use designation, policies, and objectives for the site by complying with the intended land uses and density for the site; and

- d. Is compatible with and in harmony and character with the City as a whole and with adjoining areas and uses by incorporating two single-family residences which blend with the surrounding existing single-family neighborhoods and uses adjacent to the property; and
- e. Will incorporate mitigation measures identified by the project's Initial Study/Mitigated Negative Declaration and thereby reduce potentially significant impacts to less-than-significant levels. As a result, the project, as conditioned and mitigated, will not result in any significant effects on the environment, and there is no evidence that the project will have the potential for any adverse effect on fish and wildlife resources, or their habitat as defined in Section 711.2 of the Fish and Game Code; and
- f. Is sponsored by an applicant that intends to commence construction within 18 months after approval by the City Council of the Project's Development Plan.

BE IT FURTHER RESOLVED, the City Council does determine the foregoing recitals are true and correct and makes the following findings for approval of the tentative map as follows:

- 1. The City Council hereby finds, on the basis of the whole record before it, including all comments received, that the St. John's Episcopal Church/Southbrook Drive Mixed Use Planned Development Tentative Parcel Map (MAP-01-15):
 - a. The subdivision map, design, and improvements are consistent with the Clayton General Plan Single Family Medium Density land use designation, policies, and objectives for the site by complying with the intended land uses and density (3.1 – 5.0 units per acre) for the site, in accordance with Section 66473.5 of the State Government Code (Subdivision Map Act) and the City's regulation as related to tentative subdivision maps; and
 - b. The subdivision complies with State Government Code Section 66412.3 (Subdivision Map Act) by providing more residential units for the housing needs of the region while simultaneously not burdening public services needs of existing and future residents nor impacting fiscal and environmental resources; and
 - c. The subdivision has, to the maximum extent feasible, considered and provided availability for future passive or natural heating and cooling opportunities since the residences have been oriented on an east-to-west axis allowing for heating opportunities from sunshine throughout the day and the residences have incorporated large amounts of window openings to allow for adequate cooling opportunities through ventilation; and

- d. Will incorporate mitigation measures identified by the project's Initial Study/Mitigate Negative Declaration and thereby reduce potentially significant impacts to less-than-significant levels. As a result, the project, as conditioned and mitigated, will not result in any significant effects on the environment, and there is no evidence that the proposed project will have the potential for any adverse effect on fish and wildlife resources, or their habitat, as defined in Section 711.2 of the Fish and Game Code.

BE IT FURTHER RESOLVED, the City Council of the City of Clayton, based on the entire record before it and pursuant to its independent review and consideration hereby **APPROVES** a Development Plan to develop two single-family residential lots; a Tentative Parcel Map to subdivide a 2.77-acre property into three parcels; a Site Plan Review Permit for architecture and landscaping; and a Tree Removal Permit to remove seven of the ten existing on-site trees as part of the St. John's Episcopal Church/Southbrook Drive Mixed Use Planned Development Project on property located at 5555 Clayton Road located within the City of Clayton and further described by Assessor Parcel Number APN: 118-101-022 and depicted in the Southbrook Drive Planned Development Standards set forth in Exhibit A attached hereto and incorporated herein by reference ("property") subject to the conditions listed below:

PLANNING CONDITIONS

1. Each property owner is responsible for the repair and maintenance of the required fences along their respective property lines. The fences shall be maintained in a style consistent with the design approved by the City.
2. All project-related fencing shall comply with the City's fencing standards including, but not limited to, the City's fencing height regulations.
3. Property owners shall comply with the Tree Protection Conditions.
4. Routine inspection of the stormwater conveyance and treatment facilities, and the corresponding landscaping and irrigation improvements, shall be conducted by the property owner of each residential lot. The property owner of each residential lot shall be responsible for any needed maintenance work or repairs in their entirety.
5. The property owner of each residential lot shall perform and prepare annual inspections and reports for the stormwater conveyance and treatment facilities, which shall be submitted to the City along with payment of the City's required fees. In addition, the property owner of each residential lot shall be responsible to comply with the reports in relation to needed maintenance work or repairs.
6. The property owner of each residential lot shall be responsible to maintain the landscaping and irrigation in the public right-of-way and the stormwater conveyance and treatment facilities.
7. The deeds for all lots shall contain language which prohibits any future land division(s) to create additional home sites.

8. The project is subject to development impact fees. The applicant shall be responsible for all fees and environmental review costs, including those charged by the California Department of Fish and Wildlife.
9. At the time of filing of the final subdivision map, the subdivider shall pay the parkland dedication fees as determined by the City (pursuant to Chapter 16.12 of the Clayton Municipal Code).
10. The developer shall enter into an agreement with the City to satisfy the Open Space requirement as outlined in Section 17.28.100 of the Clayton Municipal Code. This agreement shall be completed prior to the filing of the final subdivision map.
11. No permits or approvals, whether discretionary or mandatory, shall be considered if the applicant is not current on fees, reimbursement payments, and other fees that are due.
12. Prior to the commencement of grading or construction activities, the applicant shall submit a recycling plan for construction materials to the City for review and approval. The plan shall include that all materials that would not be acceptable for disposal in the sanitary landfill be recycled/reused. Documentation of the material type, amount, where taken, and receipts for verification and certification statements shall be included in the plan. The applicant shall submit deposits to the City to ensure good faith efforts of construction and demolition recycling. A deposit of \$2,000 per residence shall be submitted prior to issuance of the building permit for each residence, or demolition permit. Appropriate documentation regarding recycling shall be provided to the City. All staff costs related to the review, monitoring, and enforcement of this condition shall be charged to the deposit account.
13. All conditions of approval, which are applicable to the construction of the subdivision improvements, shall appear on the improvement drawings.
14. Pursuant to Government Code Section 66474.9, the applicant (including the subdivider or any agent thereof) shall defend, indemnify, and hold harmless the City of Clayton and its agents, officers, and employees from any claim, action, or proceeding against the City or its agents, officers, or employees to attack, set aside, void, or annul the City's approval concerning this subdivision map application, which action is brought within the time period provided for in Section 66499.37. The City will promptly notify the subdivider of any such claim, action, or proceeding and cooperate fully in the defense.
15. The applicant agrees to indemnify, protect, defend, and hold harmless the City and its elected and appointed officials, officers, employees, and agents from and against any and all liabilities, claims, actions, causes, proceedings, suits, damages, judgments, liens, levies, costs, and expenses

of whatever nature, including attorney's fees and disbursements arising out of or in any way relating to the issuance of this entitlement, any actions taken by the City relating to this entitlement, or the environmental review conducted under the California Environmental Quality Act for this entitlement and related actions. In addition, if there is any referendum or other election action to contest or overturn these approvals, the applicant shall either withdraw the application or pay all City costs for such an election.

16. All mitigation measures set forth in the St. John's Church/Southbrook Drive Mixed Use Planned Development Project Initial Study/Mitigated Negative Declaration are hereby incorporated into these Conditions of Approval, as if fully contained herein, except those mitigation measures found infeasible pursuant to Section 15091 of the California Environmental Quality Act Guidelines. The applicant shall implement all mitigation measures set forth in the St. John's Church/Southbrook Drive Mixed Use Planned Development Project Initial Environmental Study/Mitigated Negative Declaration.
17. The applicant shall work with the neighboring property owners to replace the existing side yard fencing or install a new fence along, and just inside of, side property lines of each residential lot abutting existing adjacent residential properties.

TREE PROTECTION CONDITIONS

18. The recommendations listed in the Arborist Report, prepared for the project by Bob Peralta, ISA Certified Arborist, representing Valley Crest Tree Care Services (dated May 28, 2015), shall be implemented to protect trees to be retained on the project site. Specific tree preservation and preservation actions shall be listed on all grading and constructions plans and specifications for the project.
19. Prior to issuance of a grading permit, in accordance with the City's Tree Protection Ordinance, the applicant shall submit to the Community Development Department a Tree Replacement Plan identifying the protected tree that would be removed during project construction. Protected trees rated as being in fair or good health shall be replaced at the ratios specified in Section 15.70.040 of the Clayton Municipal Code. The Tree Replacement Plan shall be submitted for review and approval by the Community Development Director. [Mitigation Measure (MM) 2]
20. The following construction policies and guidelines for tree preservation and protection put forth by the City of Clayton shall be followed during project implementation [MM 3]:
 - a. The applicant shall submit for the review and approval of the Community Development Director a tree protection plan to identify the location of the tree trunk and dripline of all protected oaks subject to Section 15.70.020 of the Clayton Municipal Code.

- b. A protective fence shall be installed around all oaks subject to the tree protection plan. The protective fence shall be installed prior to commencement of any construction activity and shall remain in place for the duration of construction.
 - c. Grading, excavation, deposition of fill, erosion, compaction, and other construction-related activities shall not be permitted within the dripline or at locations which may damage the root system of trees subject to the tree protection plan, unless such activities are specifically allowed by the tree protection plan. Tree wells may be used if specifically allowed by the tree protection plan.
 - d. Oil, gas, chemicals, vehicles, construction equipment, machinery, and other construction materials shall not be allowed within the dripline of trees subject to the tree protection plan.
21. Trees which are identified for preservation, and are subsequently removed during construction, shall be replaced by new trees or shall be required to pay an lieu fee equal to 200% of the value (as established by the International Society of Arboriculture) of the original tree(s) to be preserved.
22. The Community Development Department shall review and approve grading and improvement plans to ensure adequate measures are taken to protect trees.

LANDSCAPING CONDITIONS

23. All plant material to be located in the public right-of-way shall be maintained by the property owner of each residential lot and is subject to inspection by the Maintenance Department and must be guaranteed for one year from the date of final inspection.
24. The applicant shall maintain all landscaped areas in the public right-of-way for a period of ninety (90) days after final acceptance of the subdivision improvements by the City Council. Following acceptance by the City the property owner of each residential lot shall maintain all landscaped areas in the public right-of-way.
25. Installation of all irrigation and landscaping shall be performed by a licensed contractor.
26. All trees shall be planted at least ten (10) feet away from any public water, sewer, or storm drain lines, unless a closer location is approved by the City. All trees shall be installed with support staking. All nursery stakes must be removed from trees. All trees planted within eight (8) feet of a sidewalk or driveway shall be installed with root guards.

27. Prior to a grading permit being issued for the project, a revised Landscape, Irrigation, Fencing, and Retaining Wall Plan shall be submitted, along with construction plans for building permit issuance, to the Community Development Department for review and approval.
28. All project-related landscaping shall comply with the landscape water conservation standards listed in Chapter 17.80 of the Clayton Municipal Code.

GRADING CONDITIONS

29. Removal of trees shall occur between September 1st and January 31st, outside the bird nesting season, to the extent feasible. If tree removal must occur during the avian breeding season (February 1st to August 31st), a qualified biologist shall conduct a survey for nesting birds of all trees and shrubs within 75 feet of the entire project site 14 days prior to the commencement of construction, and submit the findings of the survey to the Community Development Director. If nesting passerines are identified during the survey within 75 feet of the project site, a 75-foot buffer around the nest tree shall be fenced with orange construction fencing. If the nest tree is located off the project site, then the buffer shall be demarcated as per above. The size of the buffer may be altered if a qualified biologist conducts behavioral observations and determines the nesting passerines are well acclimated to disturbance. If acclimation has occurred, the biologist shall prescribe a modified buffer that allows sufficient room to prevent undue disturbance/harassment to the nesting passerines. Construction or earth-moving activity shall not occur within the established buffer until a qualified biologist has determined that the young have fledged (that is, left the nest) and have attained sufficient flight skills to avoid project construction zones, which typically occurs by July 15th. However, the date may be earlier or later, and would have to be determined by a qualified biologist. If a qualified biologist is not hired to watch the nesting passerines, then the buffers shall be maintained in place through the month of August and work within the buffer may commence September 1st. [MM 1]
30. Prior to the issuance of a grading permit, the grading plan shall include a requirement (via notation) indicating that if cultural resources, or human remains, are encountered during site grading or other site work, all such work shall be halted immediately within 100 feet of the area of discovery and the contractor shall immediately notify the City of the discovery. In such case, the City, at the expense of the project applicant, shall retain the services of a qualified archaeologist for the purpose of recording, protecting, or curating the discovery as appropriate. The archaeologist shall be required to submit to the City for review and approval a report of the findings and method of curation or protection of the resources. Further grading or site work within the vicinity of the discovery, as identified by the qualified archaeologist, shall not be allowed until the preceding steps have been taken. to the issuance of a grading permit, the grading plan shall

include a requirement (via notation) indicating that if cultural resources, or human remains, are encountered during site grading or other site work, all such work shall be halted immediately within 100 feet of the area of discovery and the contractor shall immediately notify the City of the discovery. In such case, the City, at the expense of the project applicant, shall retain the services of a qualified archaeologist for the purpose of recording, protecting, or curating the discovery as appropriate. The archaeologist shall be required to submit to the City for review and approval a report of the findings and method of curation or protection of the resources. Further grading or site work within the vicinity of the discovery, as identified by the qualified archaeologist, shall not be allowed until the preceding steps have been taken. [MM 4]

31. Pursuant to State Health and Safety Code §7050.5(c) State Public Resources Code §5097.98, if human bone or bone of unknown origin is found during construction, all work shall stop in the vicinity of the find and the Contra Costa County Coroner shall be contacted immediately. If the remains are determined to be Native American, the coroner shall notify the Native American Heritage Commission who shall notify the person believed to be the most likely descendant. The most likely descendant shall work with the contractor to develop a program for re-interment of the human remains and any associated artifacts. Additional work is not to take place in the immediate vicinity of the find, which shall be identified by the qualified archaeologist at the applicant's expense, until the preceding actions have been implemented. [MM 5]
32. Prior to the issuance of a grading permit, the applicant shall prepare to the satisfaction of the City Engineer, an erosion control plan that utilizes standard construction practices to limit the erosion effects during construction of the proposed project. Actions include, but are not limited to, the following:
 - a. Hydro-seeding;
 - b. Placement of erosion control measures within drainage ways and ahead of drop inlets;
 - c. The temporary lining (during construction activities) of drop inlets with "filter fabric";
 - d. The placement of straw wattles along slope contours;
 - e. Use of designated equipment and vehicle "wash-out" location;
 - f. Use of siltation fences;
 - g. Use of on-site rock/gravel road at construction access points; and
 - h. Use of sediment basins and dust palliatives.
33. During grading and construction, the project contractor shall ensure that the following measures are implemented, consistent with the recommendations in the Environmental Noise and Vibration Analysis:
 - a. Grading and construction activities shall be limited to the daytime hours between 7:00 a.m. to 5:00 p.m. Monday through Friday, as specified in Section 15.01.101 of the Clayton Municipal Code.

Any such work beyond said hours and days is strictly prohibited unless previously specifically authorized in writing by the City Engineer or designee or by project conditions of approval;

- b. The distances between on-site construction and demolition staging areas and the nearest surrounding residences shall be maximized to the greatest extent possible; and
 - c. All construction and demolition equipment that utilizes internal combustion engines shall be fitted with manufacturer's mufflers or equivalent. [MM 9]
34. A licensed surveyor or engineer shall survey the locations, elevations, and limits of the trunk and dripline of all trees to be retained and protected as shown on the tentative map tree retention plan. The locations and limits are to be shown on the grading plans and the construction plans. A licensed arborist shall review the proposed construction operations that may impact the preserved trees and shall provide mitigations that shall be incorporated into the grading and construction plans. The arborist shall review and approve (by signature on the plans) the grading and improvement plans prior to submittal to the City for plan check.
 35. Signature blocks shall be provided for the Community Development Director and City Engineer on the grading and construction plans.
 36. All required setbacks shall contain at least five feet of flat, unoccupied area. "Flat" means a cross-slope between 2% and 10%. "Unoccupied" means no encroachments by fireplaces, building pop-outs (with or without a foundation), air conditioner pads and the like.
 37. Two feet of flat area shall be provided between a property or right-of-way line and the top of slope.
 38. The recommendations of the geotechnical report shall be incorporated into the grading and construction plans.
 39. All grading shall be performed under the direction and inspection of a registered soils or geotechnical engineer and shall be in conformance with the recommendations of the geotechnical report and the requirements of the City Engineer. Prior to the construction of any improvements, the engineer shall submit a testing and observation report to the City Engineer for review and approval.
 40. Grading and stormwater permits shall be obtained from the City Engineer.
 41. The applicant shall implement all of the Bay Area Air Quality Management District's Basic Construction Mitigation Measures, which include the following:

- a. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
- b. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
- c. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
- d. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
- e. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified visible emissions evaluator.
- f. Post a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.
- g. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified visible emissions evaluator.
- h. Post a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

STREET CONDITIONS

- 42. The existing driveway at Parcel A is to be removed and replaced with standard curb, gutter and sidewalk.
- 43. The proposed driveway shall be constructed in accordance with the City's Standard Plan for driveways with monolithic sidewalks.
- 44. Applicant shall remove and replace any damaged existing curb, gutter and sidewalk as directed by the City Engineer.
- 45. Driveway and retaining walls at Southbrook Drive shall be designed to provide adequate sight distance per the City's Standard Plan.
- 46. The configuration and width of the shared driveway for the two residential lots shall be reviewed and approved by the City Engineer.

47. All mailbox locations shall be constructed and grouped in accordance with United States Postal Service standards and the grouping of mailboxes shall be architecturally treated to reduce massing and visual impact. All mailbox locations and design are subject to review and approval of the Community Development Department and the United States Postal Service.

DRAINAGE CONDITIONS

48. Total storm runoff peak flows from the site shall not exceed pre-development levels. All stormwater runoff from impervious areas shall be treated and contaminants removed prior to discharge from the site. The design of the detention and treatment facilities shall be subject to the approval of the City Engineer.
49. The applicant shall submit a Final Stormwater Control Plan (including an Operations and Maintenance Manual) fully addressing the requirements of the City's recently amended Municipal Regional Stormwater National Pollutant Discharge Elimination System (NPDES) Permit (Permit No. CAS612008, as amended November 10, 2015), including the new "Green Streets/Green Infrastructure" requirements, and including an alternative to the use of sump pumps, such as dry wells, to the satisfaction of the City Engineer. [MM 8]
50. Maintenance of all drainage facilities shall be the responsibility of the homeowner on whose lot the facilities are located or adjacent to (including those facilities within the public right-of-way).
51. The improvement plans shall reflect that all on-site storm drain inlets shall be labeled "No Dumping – Drains to Creek" using thermoplastic stenciling or equivalent permanent method, subject to City approval.
52. All roofs shall have rain gutters with rain water leaders that drain into depressed biofiltration treatment beds located within landscaped areas before discharging into the storm drain system or the street.
53. The Mosquito and Vector Control District and its contractors shall have the right of access to conduct inspections and maintenance of all on-site drainage devices.
54. Developer shall, prior to commencement of construction, enter into a recorded covenant and agreement for each lot with the following requirements at a minimum:
 - a. Bioretention planter to be maintained as originally constructed and in accordance with the approved Operations and Maintenance Plan. Planters may not be modified without the approval of the City Engineer.

- b. By September 15th of each year, lot owner is to perform (or have performed by a firm approved by the City) a pre-rainy season inspection and submit a report to the City along with payment of the required fees. Any deficiencies noted shall be remedied within 20 calendar days of completion of the inspection.
- c. City shall have the right of access to inspect the bioretention planter at any time.
- d. Should said City inspection reveal any problems or inadequacies with the bioretention planter or drainage system, Owner shall be notified and must remedy the problems or inadequacies within 30 days of said notice.

UTILITY CONDITIONS

- 55. Sanitary sewer plans shall be submitted to the City of Concord and the City Engineer for review and approval.
- 56. A sewer cleanout shall be provided on each sewer lateral at the front property line of each residential lot.
- 57. The applicant shall connect all residences to the sanitary sewer system, obtain applicable permits and pay applicable fees as required by the City of Concord.
- 58. The applicant shall install two four-inch conduits and pull-boxes with pull lines for City use for future tele-communication purposes. Conduits shall be installed in the public utility easement with termination on residential property lines behind the curbs.
- 59. The width of new access and maintenance easements for underground facilities shall be twice the depth of the facility with a minimum width of ten (10) feet, as determined appropriate and applicable by the City Engineer.
- 60. Underground facilities crossing lots shall be located in flat portions of the lots, not within slope areas.
- 61. Any existing underground facilities, either on-site or adjacent to the site, no longer required shall be either removed or filled, as directed by the City Engineer.
- 62. The applicant shall furnish and install the conduit required by AT&T California for the service connection wires or cables.

ENGINEERING CONDITIONS

- 63. The applicant shall obtain an encroachment permit for all work in the public right-of-way.

64. All required easements or rights-of-way for off-site improvements shall be obtained by the applicant at no cost to the City of Clayton. Advance permission shall be obtained from any property or easement holders for any work to be done within such property or easements.
65. Upon recording of the final map, the City shall be given a full size, reproducible, Mylar copy of the recorded map and an electronic file of the map in AutoCAD. Upon completion of the improvements and prior to City Council acceptance, the City shall be given a full size, reproducible Mylar copy of the grading, construction, irrigation and landscape plans (plus an electronic copy in PDF), annotated to reflect changes that occur during construction and signed by the Project Engineer and Landscape Architect.
66. All work shall be designed and constructed in accordance with the Municipal Code requirements and City Standard Plans and Specifications.
67. During construction, the project contractor, at the expense of the project applicant, shall completely remove and re-compact the existing non-engineered fill on-site under the supervision of a registered geotechnical engineer, according to the recommendations presented in the Geotechnical Investigation. The contractor shall remove the upper undocumented fill soil from the area extending at least five feet beyond the edge of the planned building envelopes and also below the planned rear retaining wall. Once removed, subsequent engineered fill may be used as approved by a licensed geotechnical engineer. A written summary of the operations shall be submitted to the City Engineer. [MM 7]

PARKING CONDITION

68. Four off-street parking spaces shall be provided on each lot; two covered spaces in the garage of each residence and two uncovered spaces which can be provided tandem or side by side in the driveways of each lot.

EXPIRATION CONDITION

69. The St. John's Episcopal Church/Southbrook Drive Mixed Use Planned Development Project Development Plan (DP-04-15), Site Plan Review Permit (SPR-07-16), and Tree Removal Permit (TRP-37-15) shall expire simultaneously with the expiration of the St. John's Episcopal Church/Southbrook Drive Mixed Use Planned Development Project Tentative Subdivision Map (MAP-01-15), pursuant to the tentative map expiration provisions listed in the State of California Government Code Subdivision Map Act.

ADVISORY NOTES

1. The applicant shall obtain the necessary approvals from the Contra Costa County Fire Protection District.
2. The applicant shall provide an adequate and reliable water supply for fire protection as set forth in the Uniform Fire Code.

3. NO PARKING — FIRE LANE signs or red curbs shall be provided throughout both sides of the twenty (20) foot wide access driveway/roadway and turnaround. The applicant shall submit a minimum of two (2) copies of site improvement plans indicating existing hydrant locations and proposed fire apparatus access for your review and approval prior to obtaining building permits.
4. The twenty (20) foot wide access driveway/roadway and turnaround improvements must be completed and inspected by the Contra Costa County Fire Protection District (CCCFPD) prior to construction on the two residential lots.
5. Development on any parcel in this subdivision shall be subject to review and approval by the CCCFPD to ensure compliance with minimum CCCFPD requirements.
6. Any future proposed residences are required to be protected with an approved automatic fire sprinkler system complying with the 2013 edition of NFPA 13D or Section R313.3 of the 2013 California Residential Code. A minimum of two (2) sets of sprinkler plans shall be submitted to the CCCFPD for both residences for review and approval prior to installation.
7. Additional requirements may be imposed by the Contra Costa County Fire Protection District. Before proceeding with the project, it is advisable to check with the Fire District located at 2010 Geary Road, Pleasant Hill, 925-930-5500.

PASSED, APPROVED, AND ADOPTED at a regular meeting of the City Council of the City of Clayton on the 15th day of November 2016 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

THE CITY COUNCIL OF CLAYTON, CA

Howard Geller, Mayor

ATTEST:

Janet Brown, City Clerk

I hereby certify that the foregoing Resolution was passed, approved, and adopted at a regular meeting of the City Council of the City of Clayton held on the 15th day of November 2016.

Janet Brown, City Clerk

EXHIBIT A



SOUTHBROOK DRIVE PLANNED DEVELOPMENT

DEVELOPMENT STANDARDS

Front Setback	Interior Side Setback	Exterior Side Setback	Rear Setback	Accessory Buildings and Structures	Principal Building Height	Accessory Building Height
20'	10' minimum 25' aggregate	Not Applicable	15'	Subject to CMC Section 17.36.055	Subject to CMC Section 17.16.070	Subject to CMC Section 17.36.055



VICINITY MAP

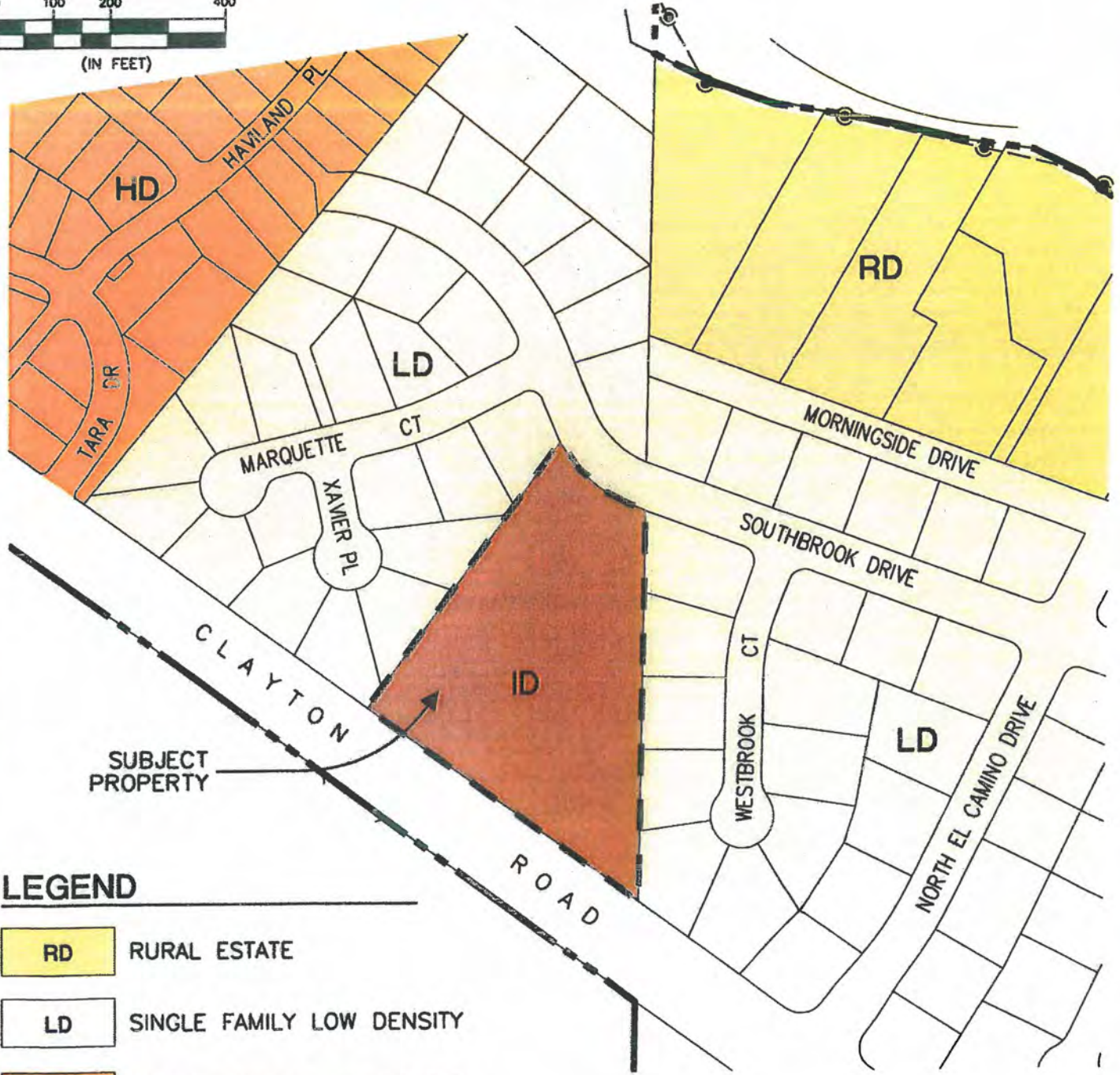
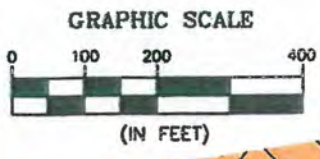
	<p>St. John's Church/Southbrook Drive Mixed Use Planned Development ENV-01-15, GPA-01-15, ZOA-03-15, DP-01-15, MAP-01-15, SPR-07-16, TRP-37-15 5555 Clayton Road APN: 118-101-022</p>	 <p>(Not to Scale)</p>
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ATTACHMENT 6

EXISTING GENERAL PLAN

ST. JOHN'S EPISCOPAL CHURCH

MS 01-15



SUBJECT PROPERTY

LEGEND

- RD RURAL ESTATE
- LD SINGLE FAMILY LOW DENSITY
- HD SINGLE FAMILY HIGH DENSITY
- ID INSTITUTIONAL DENSITY

CITY OF CLAYTON
Founded 1857 ...Incorporated 1964
OCTOBER 2016

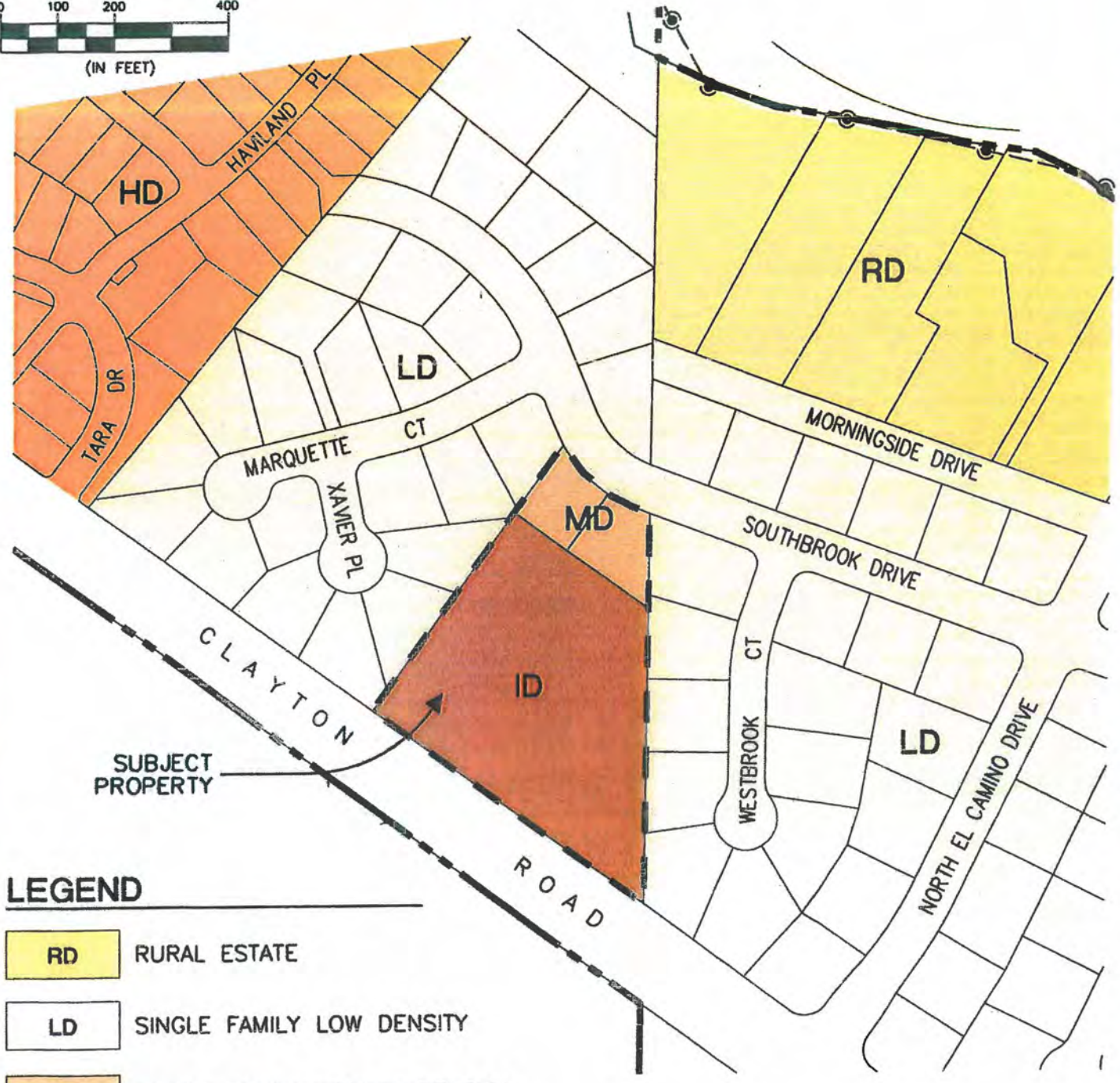
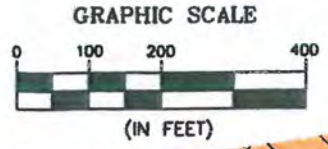
THU, OCT 2016 10:25 A WARREN GP MS 01-15 Z:\C0010502\EXISTING OF GEN PLAN - MS 01-15.DWG

ATTACHMENT 7

PROPOSED GENERAL PLAN

ST. JOHN'S EPISCOPAL CHURCH

MS 01-15



SUBJECT PROPERTY

LEGEND

- RD** RURAL ESTATE
- LD** SINGLE FAMILY LOW DENSITY
- MD** SINGLE FAMILY MEDIUM DENSITY
- HD** SINGLE FAMILY HIGH DENSITY
- ID** INSTITUTIONAL DENSITY

CITY OF CLAYTON

Founded 1857 ...Incorporated 1964

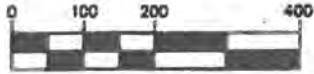
OCTOBER 2016

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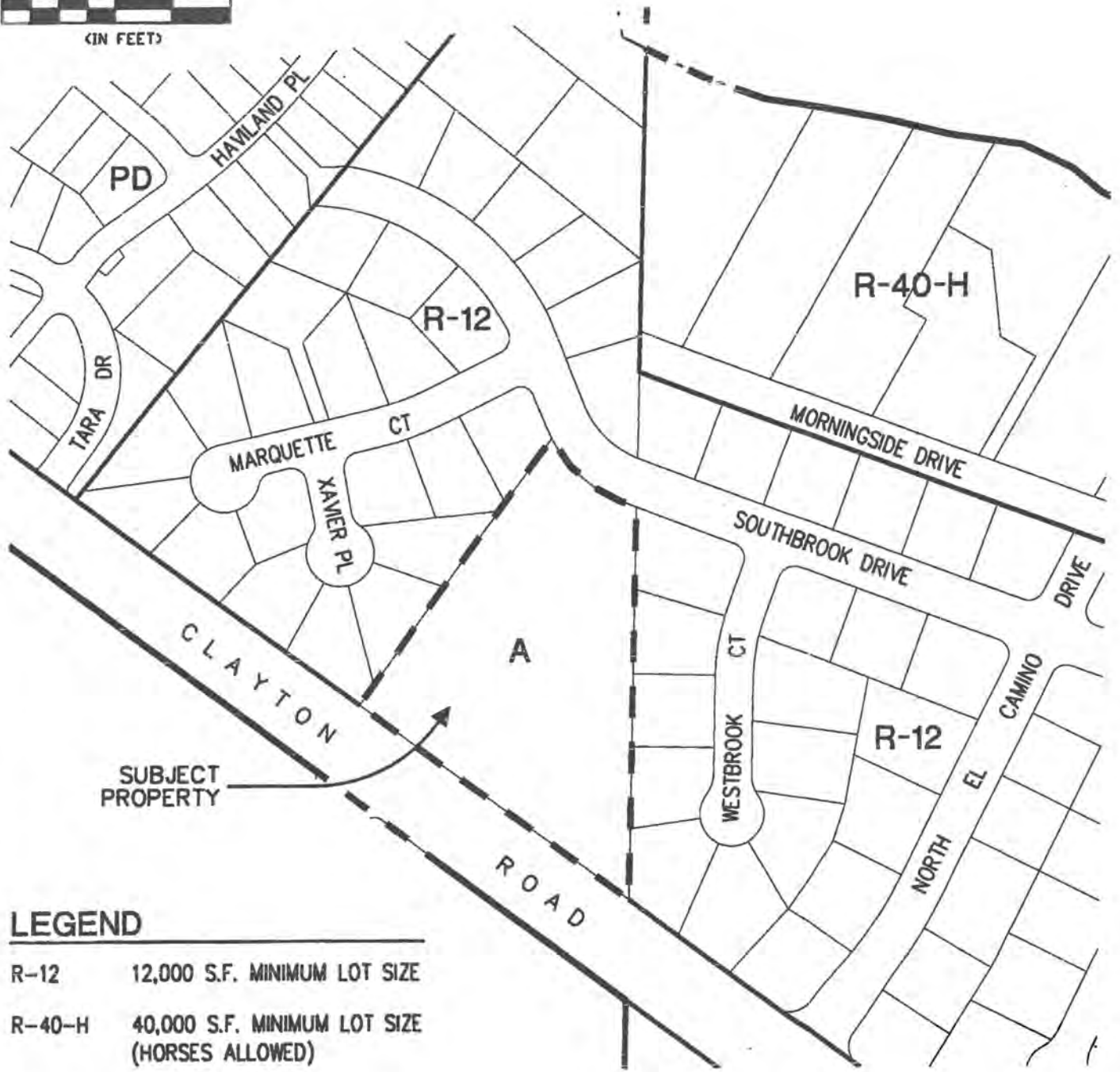
ATTACHMENT 8 EXISTING ZONING MAP ST. JOHN'S EPISCOPAL CHURCH MS 01-15



GRAPHIC SCALE



(IN FEET)



SUBJECT
PROPERTY

LEGEND

- R-12 12,000 S.F. MINIMUM LOT SIZE
- R-40-H 40,000 S.F. MINIMUM LOT SIZE
(HORSES ALLOWED)
- A AGRICULTURAL

CITY OF CLAYTON

Founded 1857 ...Incorporated 1964

OCTOBER 2016

THU, OCT 2016 10:25 A WARREN ZONING MS 01-15 Z:\C0010502\EXISTING ZO P - MS 01-15.DWG

ATTACHMENT 9 PROPOSED ZONING MAP ST. JOHN'S EPISCOPAL CHURCH MS 01-15



SUBJECT PROPERTY

LEGEND

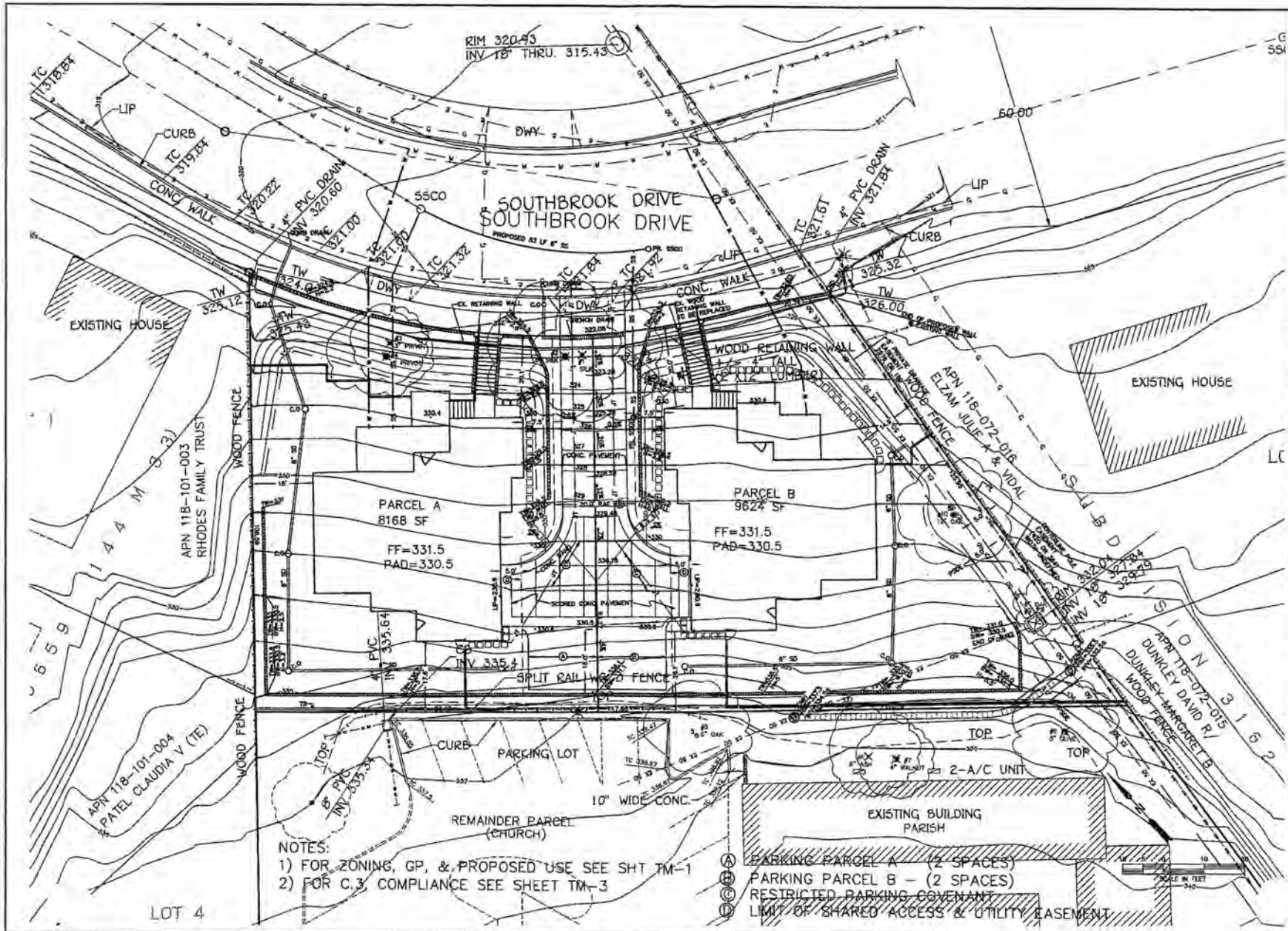
- R-12 12,000 S.F. MINIMUM LOT SIZE
- R-40-H 40,000 S.F. MINIMUM LOT SIZE
(HORSES ALLOWED)
- PD PLANNED DEVELOPMENT

CITY OF CLAYTON

Founded 1857 ... Incorporated 1964

OCTOBER 2016

THU, OCT 2016 10:20 A WARREN ZONING MS 01-15 Z: \C0010502\ZONE MAP - 71-15.DWG



NOTES:
 1) FOR ZONING, GP, & PROPOSED USE SEE SHT TM-1
 2) FOR C.3 COMPLIANCE SEE SHEET TM-3

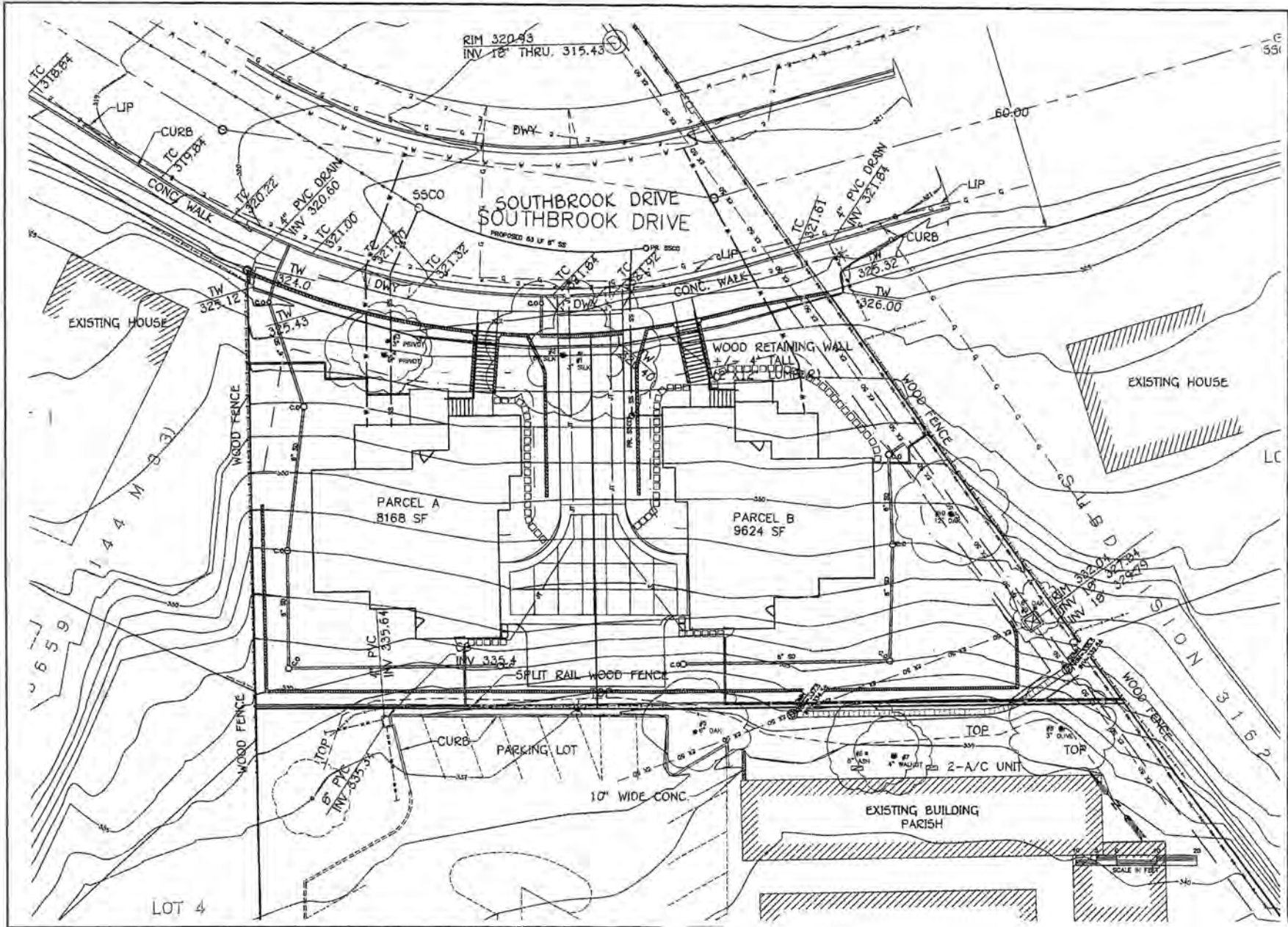
- (A) PARKING PARCEL A - (2 SPACES)
- (B) PARKING PARCEL B - (2 SPACES)
- (C) RESTRICTED PARKING COVENANT
- (D) LIMIT OF SHARED ACCESS & UTILITY EASEMENT

ALIQUOT
 PLANNERS
 CIVIL ENGINEERS
 SURVEYORS
 210 SOUTH MAIN STREET
 SUITE 310
 WALNUT CREEK, CA 94597
 (925) 938-2388
 FAX (925) 479-2310



VESTING TENTATIVE MAP - MS 01-15 (PD XXXXX)
 PRELIMINARY GRADING AND DRAINAGE PLAN
 SOUTHBROOK DRIVE
 CONTRA COSTA COUNTY CALIFORNIA

DATE	3/20/21
DRAWN	TM
CHECKED	TM
DATE	3/20/21
SCALE	1"=10'
PROJECT	MS 01-15 (PD XXXXX)
DRAWING NUMBER	TM
APPROVED	TM
DATE	3/20/21



ALIQUOT
 PLANNERS
 CIVIL ENGINEERS
 SURVEYORS
 1000 SOUTH MAIN STREET
 SUITE 300
 WALNUT CREEK, CALIF. 94597
 (925) 474-2300
 FAX: (925) 474-2301

NO.	DATE	DESCRIPTION



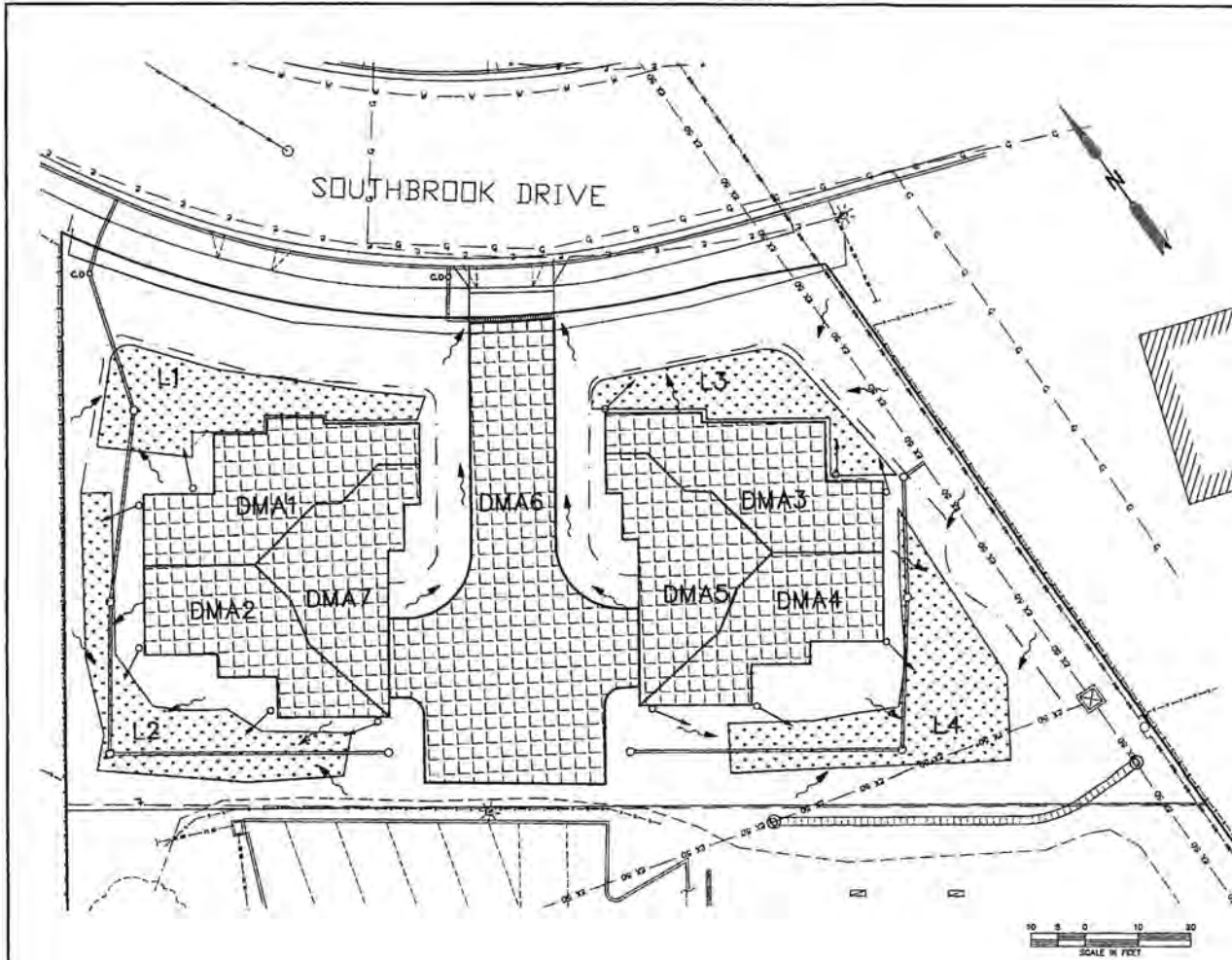
CALIFORNIA

VESTING TENTATIVE MAP - MS 01-15
 PRELIMINARY UTILITIES PLAN
 SOUTHBROOK DRIVE
 CONTRA COSTA COUNTY




CLAYTON

PROJECT NO.	MS 01-15
DATE	07/20/15
DRAWN BY	MD
CHECKED BY	MD
APPROVED BY	MD
DATE	07/20/15

TM
 1 1



LEGEND

-  LANDSCAPE
-  ROOF/DRIVEWAY
-  ROOFLEADER

AREA ID	IMPERVIOUS AREA (SF)	RECORDING LANDSCAPE AREA* (SF)	TREATED/NOT TREATED
DMA 1	815	711 (L1)	TREATED (<2:1)
DMA 2	688	785 (L2)	TREATED (<2:1)
DMA 3	504	482 (L3)	TREATED (<2:1)
DMA 4	688	955 (L4)	TREATED (<2:1)
DMA 5	718		NOT TREATED
DMA 6	2,227		NOT TREATED
DMA 7	718		NOT TREATED

TOTAL IMPERVIOUS = 6,656 SF

*ROOF LEADERS DIRECTED TO LANDSCAPING

ALIQUOT
 PLANNERS
 CIVIL ENGINEERS
 SURVEYORS
 0390 SOUTH MAIN STREET
 SUITE 30
 WALNUT CREEK, CA. 94598
 (925) 734-2500
 FAX (925) 414-2500



VEBTING TENTATIVE MAP - MS 01-15
 PRELIMINARY STORM WATER CONTROL PLAN
 SOUTH-BROOK DRIVE
 CONTRA COSTA COUNTY
 CALIFORNIA

DATE: 2/20/04
 SCALE: 1"=10'
 DRAWN: S. FAY/S
 CHECKED: M. J.
 APPROVED: J. R.
 PROJECT NO.:

- LEGEND:**
- CONC. CONCRETE
 - HW. HARDWARE
 - WV. WATER VALVE
 - DWV. DRAIN WASTE VENT
 - EX. EXISTING
 - LINE. LINE
 - CB. CATCH BASIN
 - FL. FLOW LINE
 - TV. TOP OF WALL
 - PVC. POLYETHYLENE CHLORIDE PIPE
 - SOOD. SODIUM OXIDE DRAIN
 - EXISTING FIRE HYDRANT
 - EXISTING GAS VALVE
 - EXISTING WATER VALVE
 - EXISTING JOINT POLE
 - EXISTING LAMP POST
 - EXISTING SEWER MANHOLE

- LINE LEGEND:**
- TREE CANOPY LINE
 - FLOW LINE
 - FENCE LINE
 - ADJACENT PROPERTY LINE
 - TOP/TOE
 - PROPERTY LINE
 - OVER HEAD ELECTRICAL LINE
 - STORM DRAIN
 - UNDERGROUND SERVICE

CENTERLINE POLE EASEMENT
(420 OR 364)
WIDTH UNDEFINED

PROTESTANT
EPISCOPAL BISHOP
AREA=102,933 SF
(3619 OR 440)
REMAINDER

PROPOSED
PARCEL A
AREA=8168 SF

PROPOSED
PARCEL B
AREA=9624 SF

BASE OF BEARING:
BEARING CHECK POSITION ARE BASED ON TYPICAL MEASUREMENTS
LOCATED ON SOUTHWICK DRIVE AS SHOWN ON SUBDIVISION 9859, BOOK 134 PAGE 20

BOUNDARY:
CONTRA COSTA COUNTY SH 43599
A SET USAGE SIDE LOCATED IN THE CURB BETWEEN TWO DEEP BULETS AT
THE SOUTHWEST CORNER OF EL CAMINO DRIVE AND CLAYTON BLVD.

STAMPED: 11/17/1999
CLAYTON = 397.02 (COUNTY H&L DATING)

TREE NOTE:
TREE DWP LINES SHOWN ARE FOR GRAPHICAL REPRESENTATION ONLY AND
HAVE NOT BEEN MEASURED BY ALIQUOT.
TREES SHOULD BE MEASURED AND IDENTIFIED BY AN ARBORIST.

UTILITY NOTE:
THE UTILITY LINES SHOWN ON THIS DRAWING ARE DERIVED FROM SURFACE
OBSERVATION AND ARE APPROXIMATE ONLY. ACTUAL LOCATION AND SIZE,
TOGETHER WITH PRESENCE OF ANY ADDITIONAL UTILITY LINES NOT SHOWN ON
THIS DRAWING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO
ANY EXCAVATION.



THE CONTRACTOR SHALL NOTIFY UNDERGROUND
SERVICES ALERT AND THE CITY PUBLIC WORKS
DEPARTMENT AT LEAST 48 HOURS (2 WORKING
DAYS) PRIOR TO BEGINNING ANY EXCAVATION IN
THE VICINITY OF THE UNDERGROUND FACILITIES.

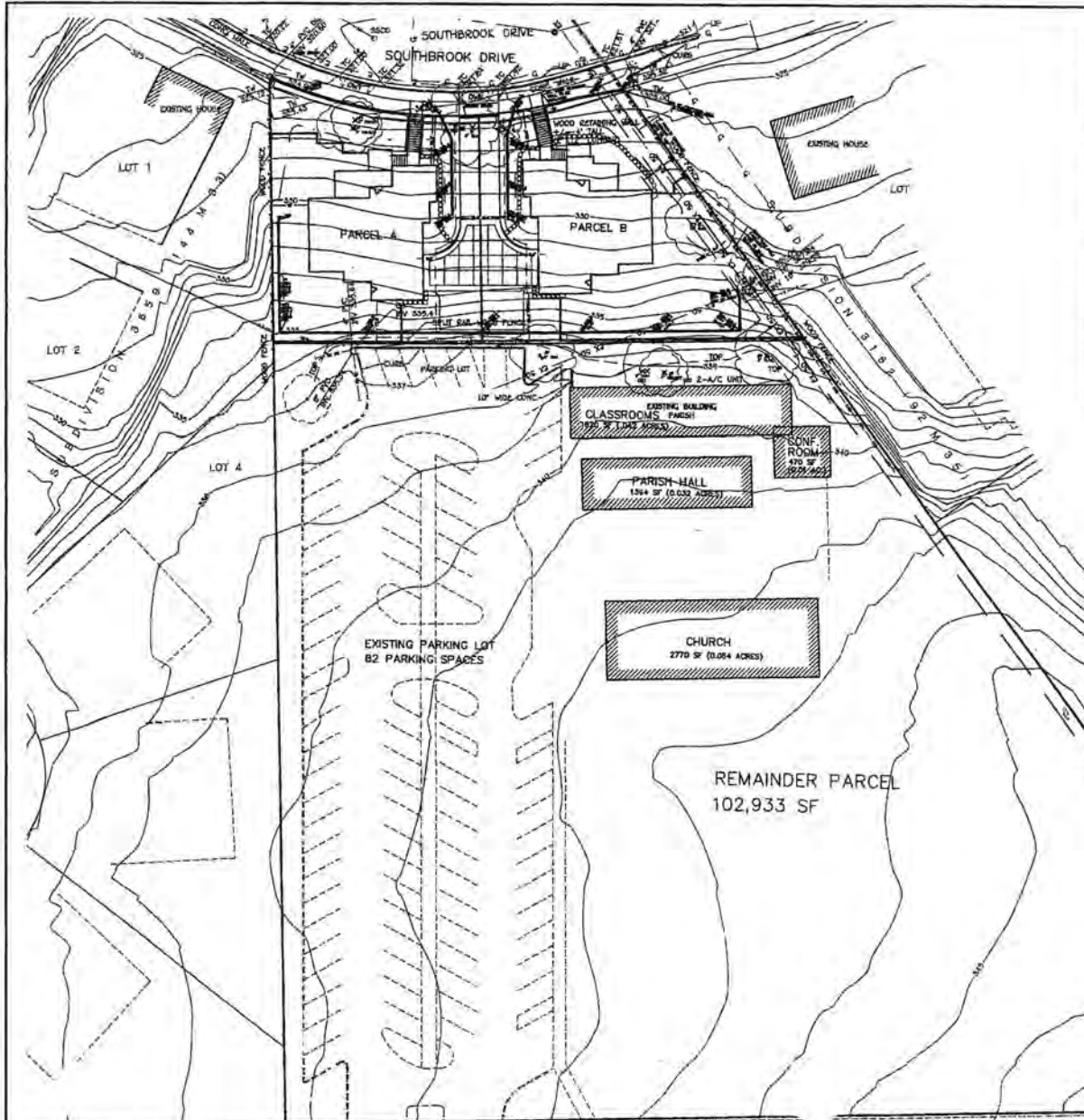
ALIQUOT
PLANNERS
CIVIL ENGINEERS
SURVEYORS
1300 SOUTH MAIN STREET
SUITE 301
WALNUT CREEK, CA. 94598
(925) 476-7300
FAX (925) 476-2302



VESTING TENTATIVE MAP - MS 01-15
BOUNDARY + TOPOGRAPHY
SOUTHWICK DRIVE

DATE: 11/17/1999	DRAWING NUMBER:
SCALE: 1" = 20'	DATE: 9/27/15
DRAWN BY: GSB	CHECKED BY: GSB
APPROVED: GSB	DATE: 11/17/1999

TM



GENERAL PLAN DESIGNATION		
PARCEL	STATUS	
A & B	EXISTING - ID	PROPOSED MD-5
REMAINDER	EXISTING - ID	PROPOSED ID

ZONING DESIGNATION	
EXISTING ZONING	A (AGRICULTURAL)
PROPOSED ZONING	PD

SITE SIZE	
PARCEL A&B	17,792 SF (0.41 ACRES)
PARCEL A	8168 SF (0.19 ACRES)
PARCEL B	9624 SF (0.22 ACRES)
REMAINDER PARCEL	102,933 SF (2.36 ACRES)
PARCEL A&B + REMAINDER PARCEL	120,725 SF (2.77 ACRES)

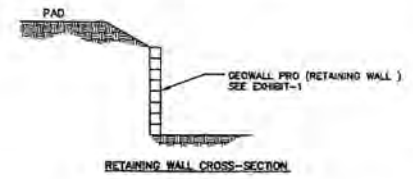
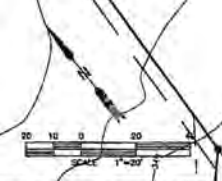


EXHIBIT-1
SEE ARCHITECT PALETTE
MANUFACTURER : BASALITE CONCRETE PRODUCTS
COLOR : TAN 333



ALIQUOT
PLANNERS
CIVIL ENGINEERS
SURVEYORS
1796 SOUTH MAIN STREET
SUITE 800
WALNUT CREEK, CA 94596
(925) 476-2200
FAX (925) 476-2203



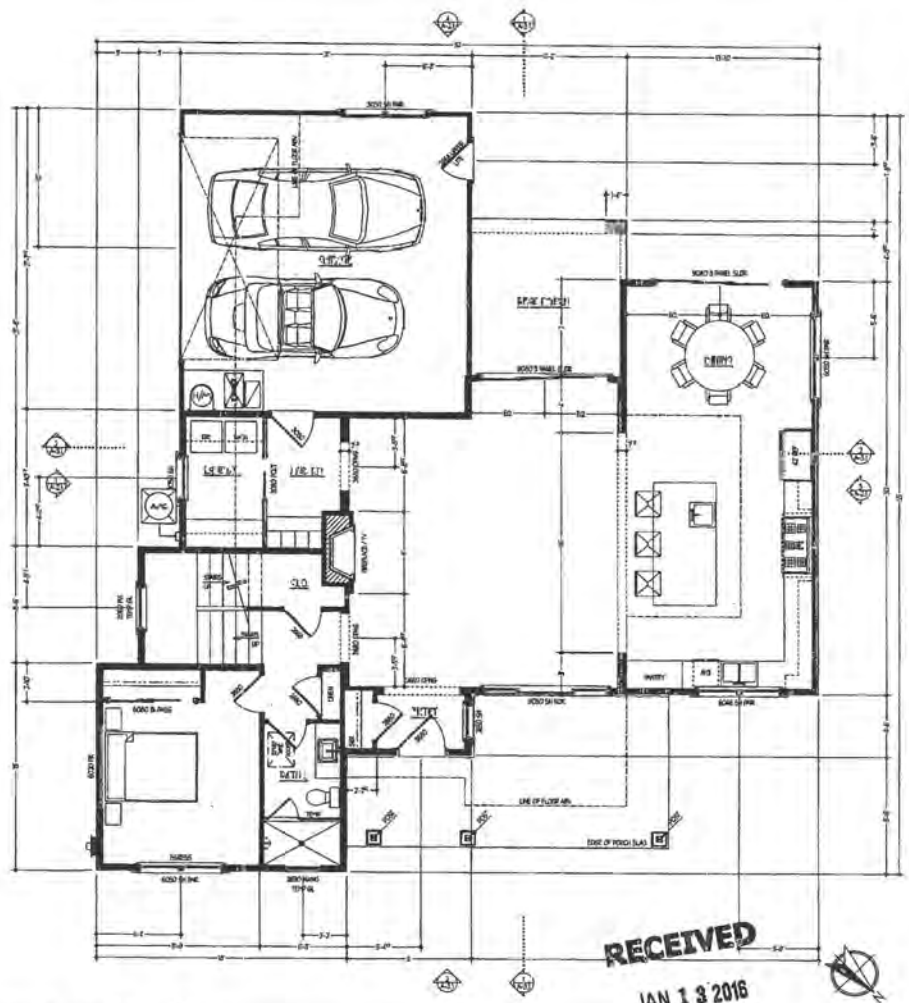
VESTING TENTATIVE MAP - MS 01-15
SITE / DEVELOPMENT PLAN
SOUTHBROOK DRIVE
CONTRA COSTA COUNTY
CALIFORNIA

DATE: 2/20/05	SCALE: 1"=20'	DATE: 2/20/05	DATE: 1/10	DATE: 1/10	DATE: 1/10
DRAWING NUMBER					



Upper Floor Plan
Scale: 1/4" = 1'-0"

PLAN "A"
1,256 SF



Main Floor Plan
Scale: 1/4" = 1'-0"

RECEIVED
JAN 13 2016

CITY OF CLAYTON PLAN "A"
DEVELOPMENT DEPT 1,458 SF



Paul D. Phelan
Architect

4171 Seven Valley Rd
Folsom, CA 95632
TEL: 916.452.7400 FAX: 916.452.7401
www.PDI-Solutions.com

Revisions

Southbrook Drive
@ St. Johns
Custom Residences
Portion of APN 118-101-022



Plan "A" Floor Plans
Scale: 1/4" = 1'-0"
September 2015

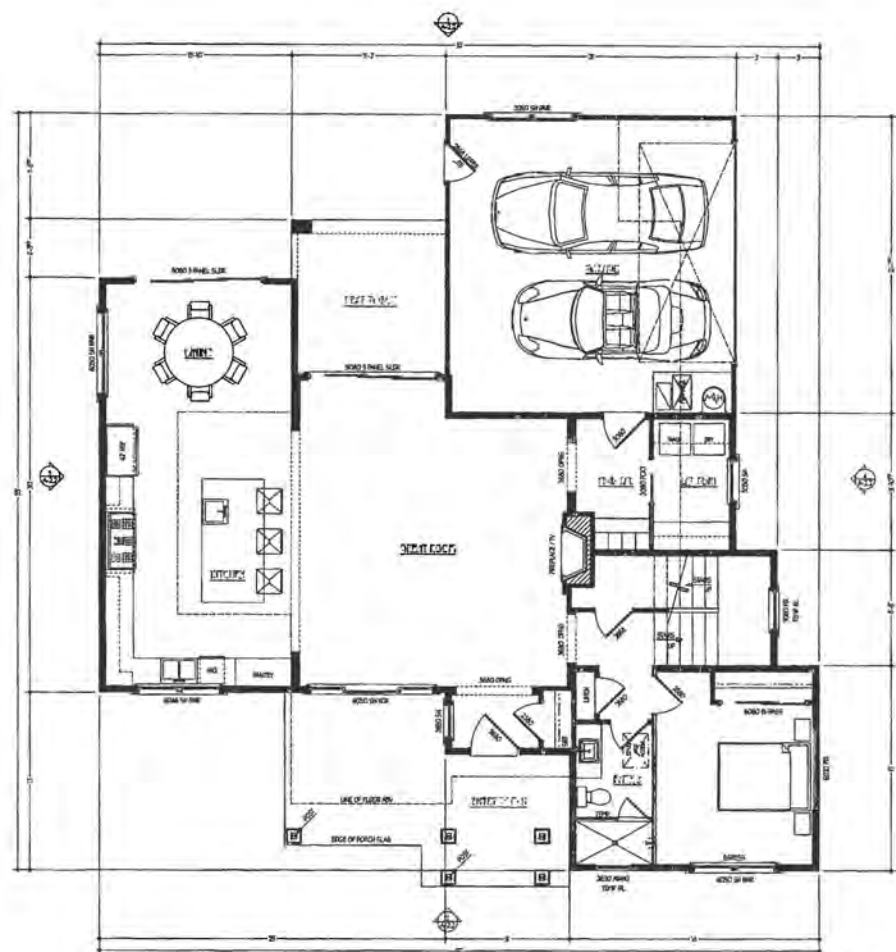
Sheet Number
A-1.1

ATTACHMENT 11



PLAN "B"
1,256 SF

Floor Plan
Scale: 1/4" = 1'-0"



PLAN
1A

Floor Plan
Scale: 1/4" = 1'-0"



Plan D. Francis
Architect

4171 Susan Valley Road
Folsom, CA 95630
916.454.2888 Fax 916.454.2883
www.PDFArchitecture.com

Revisions

Southbrook Drive
@ St. Johns
Custom Residences Portion of APN 118-101-022

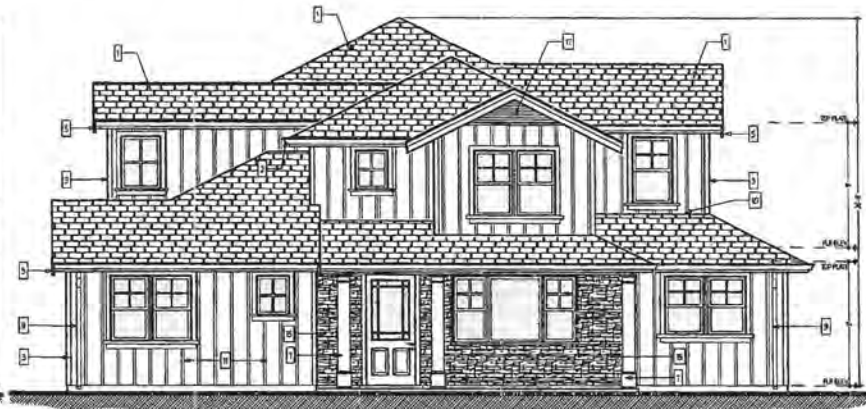


Plan "B" Floor Plans
Scale: As Noted
September 2015

Sheet Number
A-1.2



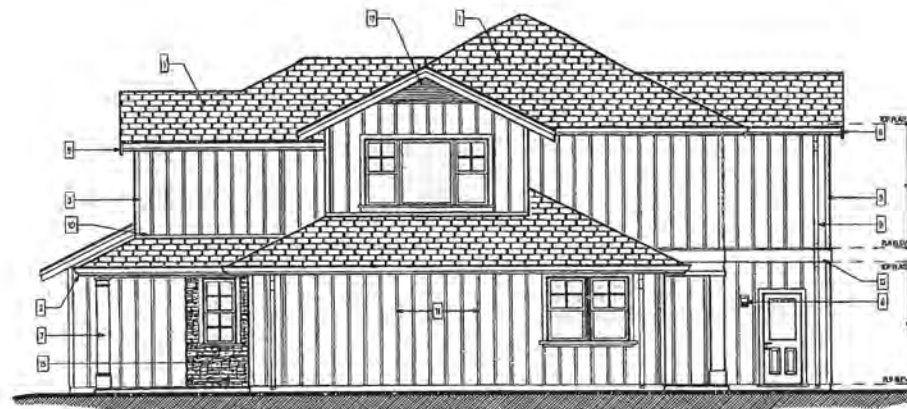
1 Left Exterior Elevation [East]
Scale: 1/4" = 1'-0"



2 Front Exterior Elevation [North]
Scale: 1/4" = 1'-0"

EXTERIOR ELEVATION NOTES:

- 1. LOW SET LIGHTING TO BE INSTALLED AND SHALL BE RETIRED FOR FINAL PERMITS REVIEW. UPON INSTALLATION, FLASHING ACCESSORIES SHALL COVER UP TOH CONTACT TO CONTACT DETAIL AND GENERAL NOTES. FLASHING MATERIALS TO CONFORM TO THE LATEST SPOON AND GENERAL SHEET FROM MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2. 2" x 4" BRICKS SHOWN FOR DETAILS AS TO COLOR AND FINISH. SEE ARCHITECT'S SPECIFICATIONS AND GENERAL NOTES FOR MATERIALS. SEE ALSO FINISHING DETAIL - BRICK FINISH.
- 3. CUT FINISH TO CORNER & FINISH TO CORNER AND FINISH TO CORNER TO CORNER FOR CORNER AND FINISH TO CORNER TO CORNER FOR CORNER AND FINISH TO CORNER TO CORNER.
- 4. LOW PROFILE EXTERIOR VENTS - REFER TO MECH PLAN FOR SIZE AND LOCATION - NOT ALL VENTS SHOWN IN ELEVATION.
- 5. INDICATES 2" x 4" VENTS WITH 1/4" FINISH.
- 6. ROCKED SIDING BROOKLINE FINISH - COORD. W/ FINISH AND TOH TO SUBMITTER.
- 7. BRICK SURROUND FOR ENTRY WITH FINISHING DETAIL OF CORNER TO CORNER AND CORNER TO CORNER.
- 8. HORIZONTAL SIDING VERTICAL FINISH TOH VENTS SHALL - REFER TO CORNER DETAIL FOR THE SELECTION.
- 9. ROCKED SIDING OTHER FINISHING - REFER TO CORNER DETAIL FOR THE SELECTION.
- 10. 1" x 1/2" x 1" AND 1" x 1" x 1" FINISH TO CORNER.
- 11. VERTICAL SIDING & BAY SIDING - REFER TO MECH PLAN FOR FINISHING.
- 12. 3" x 12" BILD AND FINISHING WITH FLASHING - REFER TO MECH PLAN FOR FINISHING AND HORIZONTAL SIDING OVER HORIZONTAL SIDING - REFER TO MECH PLAN FOR FINISHING.
- 13. ROCKED SIDING - REFER TO CORNER DETAIL FOR THE SELECTION.
- 14. MAKE FINISHING TOH VENTS SHALL - REFER TO CORNER DETAIL FOR THE SELECTION.
- 15. 2" x 4" BRICKS SHOWN FOR DETAILS AS TO COLOR AND FINISH.



3 Right Exterior Elevation [West]
Scale: 1/4" = 1'-0"



4 Rear Exterior Elevation [South]
Scale: 1/4" = 1'-0"



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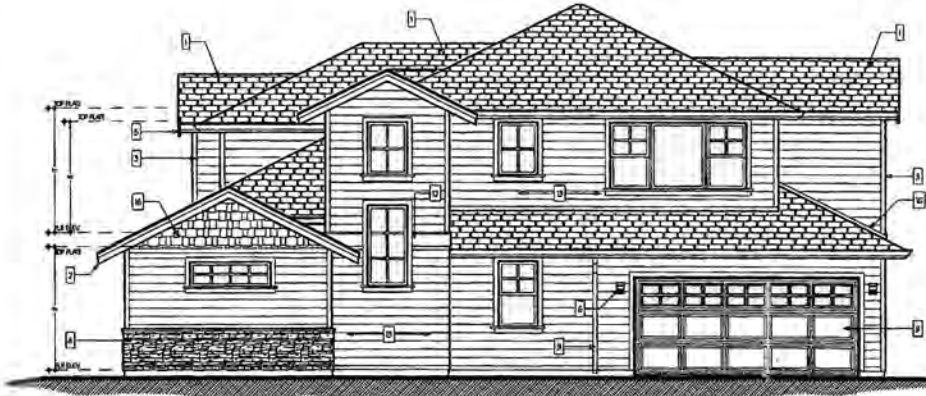
Revisions

Southbrook Drive
@ St. Johns
Custom Residences - Portion of APN 16-101-022



Plan 'A'
Exterior Elevations
September 2015

Sheet Number
A-2.1



1 Right Exterior Elevation [West]
Scale: 1/4" = 1'-0"



2 Front Exterior Elevation [North]
Scale: 1/4" = 1'-0"



3 Left Exterior Elevation [East]
Scale: 1/4" = 1'-0"



4 Rear Exterior Elevation [South]
Scale: 1/4" = 1'-0"

- EXTERIOR ELEVATION NOTES:**
- 1 CONCRETE FOUNDATION SHALL BE FINISHED TO BE ACCORDING TO INTERNATIONAL FINISH REQUIREMENTS. INSTALLATION OF INTERIOR FINISHING ACCORDING TO SAME CODES WITH FINISHES TO BE DETERMINED BY ARCHITECTURAL NOTES. FINISHING REQUIREMENTS TO CONFORM TO THE LATEST SPANISH ARCHITECTURAL CODES FOR FINISHES. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 2 7/8" SHIM-HANDING STONE & 1/2" X 1/2" GROUTING AND FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 3 1/2" X 1/2" SHIM-HANDING STONE & 1/2" X 1/2" GROUTING AND FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 4 LOW-POROSITY SURFACE FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 5 ACCESSORY 2" X 1/2" SHIM-HANDING STONE & 1/2" X 1/2" GROUTING AND FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 6 FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 7 2" X 1/2" SHIM-HANDING STONE & 1/2" X 1/2" GROUTING AND FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 8 FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 9 FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 10 FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 11 FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 12 FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 13 FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 14 FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 15 FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 16 FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 17 FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 18 FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 19 FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.
 - 20 FINISHES TO BE DETERMINED BY ARCHITECT. FINISHES TO BE DETERMINED BY ARCHITECT.



Paul D. Jones
Architect

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Plan 'B'
Exterior Elevations
Scale: As Noted
September 2015

Sheet Number
A-2.2



55
Paul D. Hand
Architect

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Plan "A" Roof
Plan

Scale: As Noted
September 2015

Sheet Number
A-1.4

DATE PLOTTED: 11/11/15

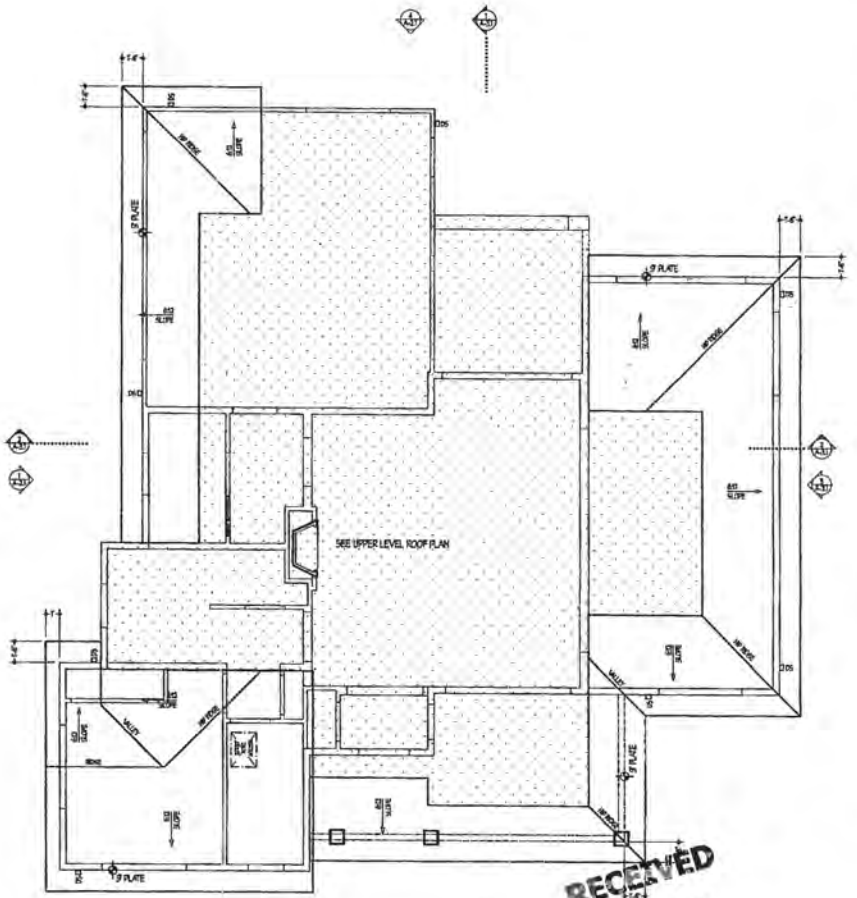
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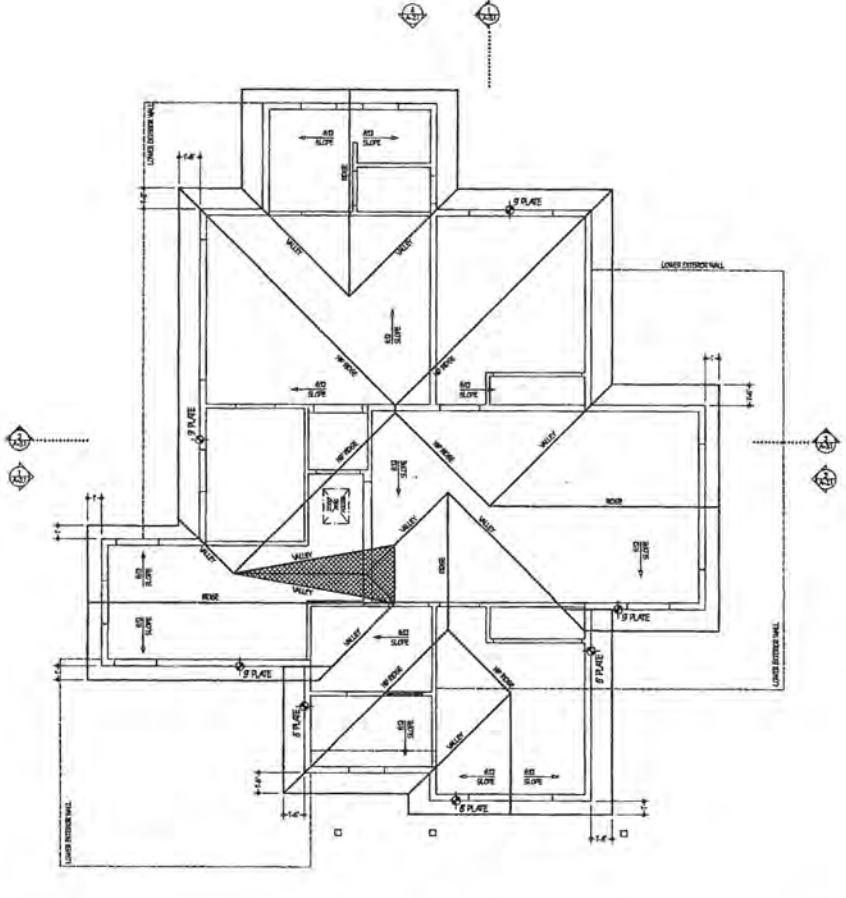
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PLAN "A"



Main Level Roof Plan
Scale: 1/4" = 1'-0"



Upper Level Roof Plan
Scale: 1/4" = 1'-0"

PLAN "A"



PHILIP D. STONE ARCHITECT

4121 Solon Valley Road
 #14711414, SA #4334
 702.396.2338 Fax 702.396.2332
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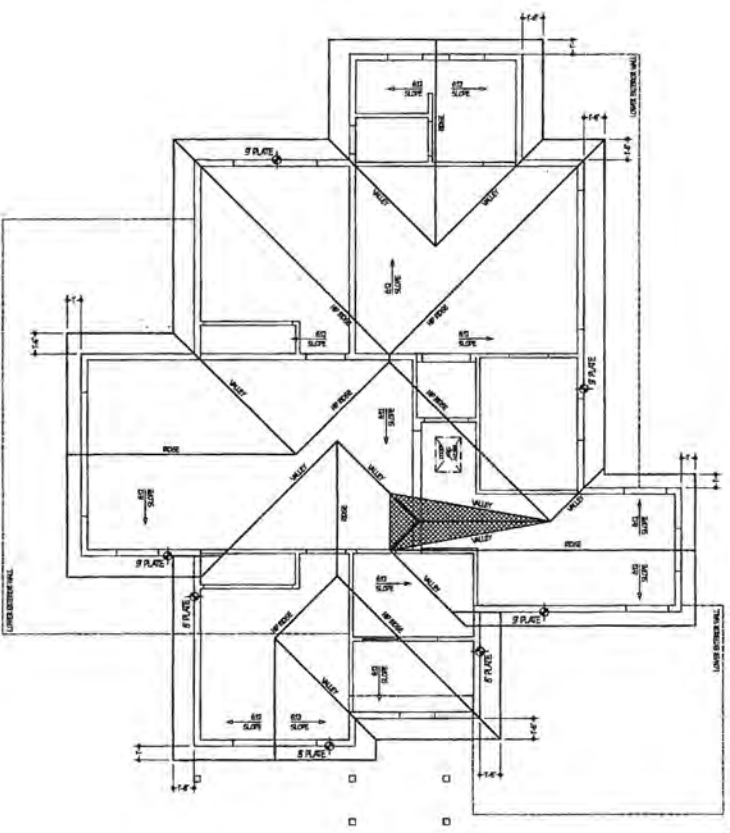
Revisions

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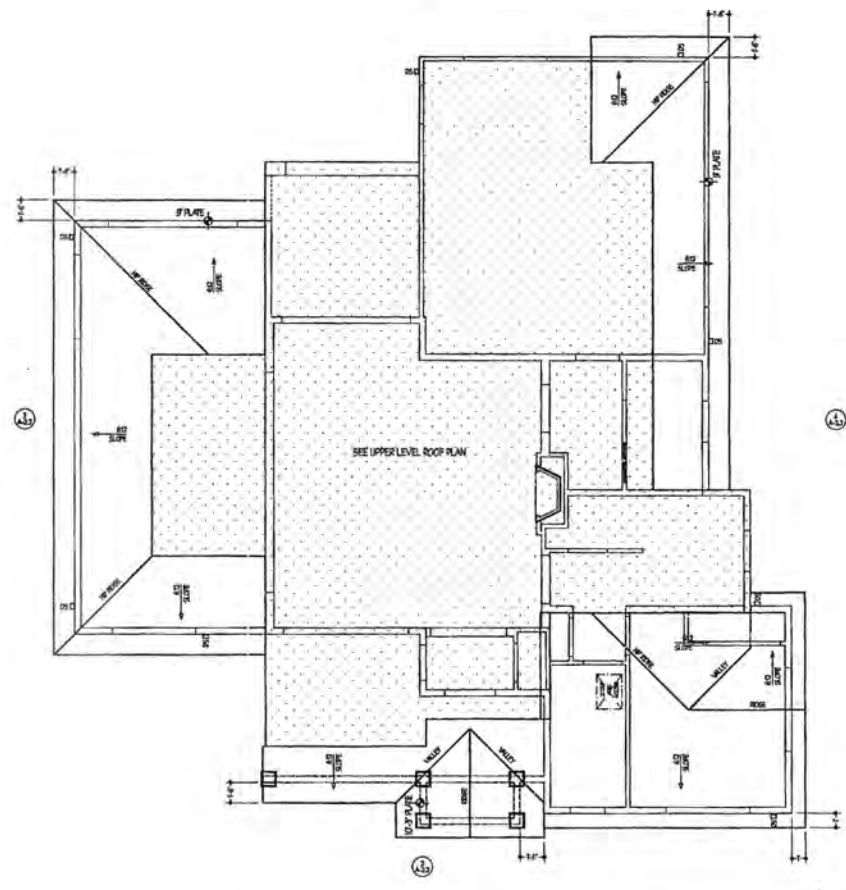
Plan "B" Roof Plan
 Scale: 1/4" = 1'-0"
 September 2015

Sheet Number
 A-1.5



Upper Level Roof Plan
 Scale: 1/4" = 1'-0"

PLAN "B"



Main Level Roof Plan
 Scale: 1/4" = 1'-0"

PLAN "B"

ATTACHMENT 13

SouthBrook Residence Plan "B"

5555 Clayton Road
Clayton, California 94517

House Colors & Materials



Roofing:

Eagle Roofing "Brown Gray Range"
Flat Concrete Roofing Tiles
Color: Bel Air 287



Trim Paint:

Window Trim
Kelly Moore "NOT MY FAULT" KM 5825-3



Trim Paint:

Fascia Boards & Gutters, Columns, Garage Door
Kelly Moore "BONE" KM 27



Siding:

Body
Kelly Moore "ABBEY ROAD" KM 4586-2



Stone Veneer:

El Dorado Stone
Bluffstone Mineret

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SouthBrook Residence Plan "B"

5555 Clayton Road
Clayton, California 94517

House Colors & Materials



Roofing:

Eagle Roofing "Brown Gray Range"
Flat Concrete Roofing Tiles
Color: Bel Air 287



Trim Paint:

Window Trim
Kelly Moore "NOT MY FAULT" KM 5825-3



Trim Paint:

Fascia Boards & Gutters, Columns, Garage Door
Kelly Moore "BONE" KM 27



Siding:

Body
Kelly Moore "ABBEY ROAD" KM 4586-2



Stone Veneer:

El Dorado Stone
Bluffstone Mineret

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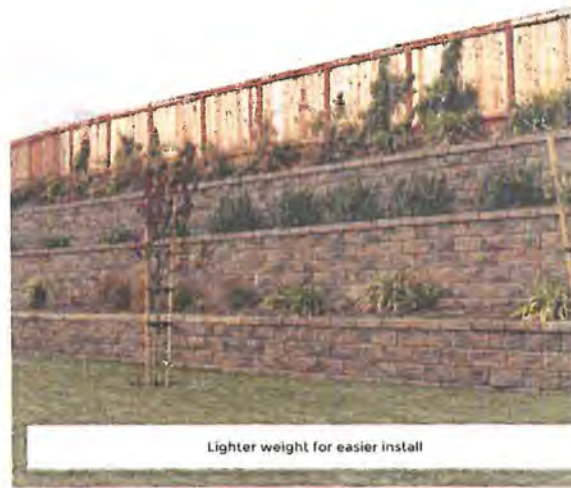


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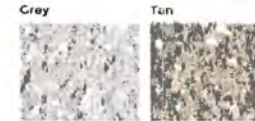
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Classic

Straight Bevel

Ashlar Face

Corner Unit

Beveled Corner

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ATTACHMENT 16

4677 Pacheco Blvd
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925-924-8900 tel
925-734-0769fax



ValleyCrest Tree Care Services

April 5, 2015

Armand Buttici III
2804 Velvet Way
Walnut Creek, CA 94596

RE: 5555 Clayton Road Tree Report

Dear Armand,

Thank you for asking me to provide a Consulting Arborist Report for your proposed housing project located at 5555 Clayton Road in Clayton, California. The site is behind St. John's Episcopal Church on a vacant lot with 10 very small mostly volunteer trees. This report will identify the trees, their size, health and recommendations. I have numbered the trees 1-10 and will be plotted by Aliquot Associates, Inc., by number and size.

Tree Number	Species	Size	canopy	Health	Recommendation
1	Silk tree	6" dbh.	5'	Moderate	Poor condition-recommend removal
2	Silk tree	8" dbh.	5'	Moderate	Poor condition-recommend removal
3	Privot	3" dbh.	3'	Poor	Volunteer-recommend removal
4	Privot	3" dbh.	3'	Poor	Volunteer-recommend removal
5	Valley oak	6" dbh.	4'	Good	Poor branch structure-in good helath
6	Ash tree	6" dbh.	7'	Moderate	Signs of blight/dead branches-removal
7	Walnut	4" dbh.	2'	Poor	Next to building/leaning - removal
8	Olive tree	3" dbh.	2'	Poor	Next to building/poor health-removal
9	Valley Oak	6" dbh.	4'	Good	Small oak with poor branch structure
10	Valley Oak	12" dbh.	8'	Good	Small oak with good branch structure

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The trees that I evaluated are all very small and have never been properly maintained or irrigated. As a result most of the trees have poor branch structure and will need to be removed. The Valley oaks have adapted much better without water but still show signs of stress. I believe replacing these trees with nursery grown trees properly installed and irrigated will have longer term impact on the property.

If any trees do remain during construction I recommend placing orange protective fencing to protect the root zone. Due to the size of the trees most of the protection will be less than 7' from the root flare.

Please give me a call if you need additional information or have any questions, 925-525-3795.

Sincerely,

Bob Peralta
Registered Consulting Arborist #505
American Society of Consulting Arborist
ISA Certified Arborist WE-7150A

From: Michael <mikejbwhoo@yahoo.com>
Sent: Tuesday, November 08, 2016 5:51 PM
To: Milan Sikela
Subject: St. John's Church/Southbrook Drive Mixed Use Project

Dear Milan-

I would like to voice my concerns about this project.

I have been unable to attend these meetings but as I reside in the immediate area I wish to express my concern about the impact on our neighborhood. I have to say that this all seems like a very poorly considered idea when the area in question is viewed. It is a very small parcel of land and has only limited access to the street which will be shared by both homes. This means parking problems for the hypothetical dwellers as well as for those who already live here. As well as over all traffic which can be very bad at times for our small street. We get kids, I assume, racing up and down the road way on the blind turn right where this new driveway will be. It will be a prime spot for an accident. As well as over all noise in the area, coming from the church. There are many evening when the church has functions which seem to get loud, so I cannot imagine anyone wanting to live in homes that are so close to it.

I have only been here for five year but I have to say this is a bad idea, please do not go forward with this project.

Sincerely,
Michael Mayer-Oakes
(number withheld) Southbrook Drive

Agenda Date: 11-15-2016

Agenda Item: 11a

**NO WRITTEN
MATERIALS
FOR
THIS AGENDA ITEM**