



NOTICE OF MEETING

CITY OF PACIFIC GROVE BEAUTIFICATION AND NATURAL RESOURCES COMMISSION MEETING AGENDA

4:00 p.m., August 16, 2016

Council Chambers – City Hall – 300 Forest Avenue, Pacific Grove, CA

1. Call to Order

2. Public Comments

a. Written Communications

b. Oral Communications

Comments must deal with matters subject to the jurisdiction of the Commission that are not on the Agenda. Comments from the public will be limited to three minutes and will not receive Commission action. Whenever possible, letters should be submitted to the Commission in advance of the meeting.

3. Approval of Minutes

a. Approval of July 19, 2016 Meeting Minutes

4. Reports Not Requiring Action

a. Council Liaison Announcements

Reference: Councilman Peake

b. Public Acknowledgement

c. Berwick Park Public Art

Reference: Jean Anton

5. Unfinished/Ongoing Business

6. New Business

a) Monarch Sanctuary Management Plan

Reference: Daniel Gho, Public Works Director

b) Lovers Point Access project

Reference: Daniel Gho, Public Works Director

c) Tree Replant Letters

Reference: Daniel Gho, Public Works Director

7. Commissioner's Reports

8. Staff Reports

a) Follow up to Public Comment from the July Meeting

a. George Washington Park Update

b. Lighthouse and Forest Update

9. Items for Next Agenda

10. Adjournment

This meeting is open to the public and all interested persons are welcome to attend. The City of Pacific Grove does not discriminate against individuals with disabilities and meetings are held in accessible facilities. A limited number of devices are available to assist those who are hearing impaired. If you would like to use one of these devices, please contact the Community Development Department at (831) 648-3183.



MINUTES

CITY OF PACIFIC GROVE
 BEAUTIFICATION AND NATURAL RESOURCES COMMISSION
 REGULAR MEETING MINUTES
 4:00 p.m., Tuesday, July 19, 2016

Council Chambers – City Hall – 300 Forest Avenue, Pacific Grove, CA

Copies of the agenda packet are available for review at the Pacific Grove Library located at 550 Central Avenue; the CDD counter in City Hall at 300 Forest Avenue, Pacific Grove from 8 a.m. – 12 p.m. and 1 p.m. – 5 p.m., Monday through Thursday; and on the internet at www.cityofpacificgrove.org/sites/default/files/beautification-and-natural-resources-commission. Recordings of the meetings are available upon request.

DRAFT MINUTES OF REGULAR MEETING

MEMBERS PRESENT: Jean Anton (C), Frances Grate, Dave Myers, Kelly Terry, Thom Akeman (S) (Absent: Mary Flaig)

STAFF PRESENT:

Daniel Gho, Jessica Kahn, Wendy Lao

1. CALLED TO ORDER at 4 p.m.

2. PUBLIC COMMENT

a. Written Communications:

Frances Grate expressed concerns about the impacts of tree trimming on private property adjacent to the Monarch Grove Sanctuary.

b. Oral Communications:

Don Murphy expressed concerns about George Washington Park, specifically about illegal parking in the park along Short Street; wood chips dumped in the park that aren't dispersed quickly, may have pathogens in them and it doesn't seem to be an appropriate use of a park; and a fallen tree blocking a trail so people create their own trails around it.

Sally Moore said one of the new plants at Lighthouse and Forest has grown tall and could obstruct drivers' views of pedestrians entering the crosswalk.

3. APPROVAL OF THE MINUTES of June 21, 2016

On a motion by Commissioner Grate, seconded by Commissioner Myers, the Commission voted 5-0 to approve the

minutes with one correction.

4. REPORTS NOT REQUIRING ACTION

a. Council liaison announcements

Councilmember Bill Peake reported on local coastal plan progress and letters the City Council endorsed to the State Water Resources Control Board and the Monterey County Board of Supervisors.

b. Public acknowledgement

Chair Anton acknowledged Marge Ann Jameson and her Cedar Street Times for maintaining a good community newspaper that has fair reporting and supports community organizations.

5. UNFINISHED/ONGOING BUSINESS

None

6. NEW BUSINESS

a. Allowing dogs in Elmarie Dyke Open Space

Dr. Kim Wilkins of Cottage Veterinary Care asked for a variance to allow dogs in adjacent Elmarie Dyke Open Space so residents and tourists with dogs could walk through the parklet, sit with their animals and maybe have a picnic. She said her clinic would pay for pet waste stations in the park and even take care of raccoon feces they see there.

Joe Streng, gardener for Cottage Veterinary who picks up litter in the parklet every Monday, supported the request and said he thinks it would be a good place for people to sit with their dogs.

Linda Wilsey, in charge of adoptions for Animal Friends Rescue, said the parklet would be a good place for people to enjoy with their pets.

Jill Gomon, also with Animal Friends Rescue, said she thinks the parklet would be a good place for tourists to visit with their dogs.

Chair Anton asked commissioners for comments, noting the Commission has no authority to grant variances to city ordinances. One commissioner said it was a good plan that should be written carefully. A second said it could be tried for six months or 90 days to see how it works. A third had reservations about opening the parklet to dogs because not all dog owners clean up after their animals. A fourth had reservations because the commissioner has seen a number of people picnicking in the parklet and said people who rent adjacent Chautauqua Hall for events use the parklet for food service. The fifth commissioner suggested that if the park is opened to dogs it might be like Asilomar Beach – dogs restricted right around Chautauqua Hall but allowed elsewhere in the parklet.

7. COMMISSIONER'S REPORTS

Commissioner Terry said she likes seeing all the lanterns out this year for the Feast of Lanterns.

Commissioner Grate said there are a quite a few concerns about Butterfly Grove Inn trimming several trees next to the Monarch Grove Sanctuary. The city issued a permit but there was no public posting and the situation needs to be aired because Monarchs have clustered on trees along the driveway adjacent to the sanctuary for the past 25 years, she said.

Chair Anton said the cypress stumps in Berwick Park haven't yet been transformed into whale carvings because the carvers want a written contract and the person who handles contracts in their office has been out of town. The work, funded by the Rotary Club, is imminent.

She also passed along complaints to her that some of the newspaper racks downtown need cleaning.

8. STAFF REPORTS

a. Update on required tree replants

Daniel Gho, Public Works Director, reported that only 48% of the replacement trees required by city permits during the past four years are believed to be in the ground. He presented a chart that shows since 2013, the city has required 699 trees to replace trees removed by permits, but only 335 are believed to have been planted. Last year, for example, only 62 of the 231 replacement trees required – 27% -- have been planted.

Following up the permits is labor-intensive and time-consuming and the city staff has been struggling just to keep up with 5 to 10 new tree applications that come each day, Gho said. He said he plans to send another round of letters to permit holders but it takes time to stuff the envelopes, apply the postage and record the replies.

Chair Anton offered BNRC help with the labor involved.

9. ITEMS FOR NEXT AGENDA (August 16, 2016)

George Washington Park – parking and maintenance

Monarch Grove Sanctuary plan for 2016

10. ADJOURNED at 4:44 p.m.



CITY OF PACIFIC GROVE

AGENDA REPORT

TO: Beatification and Natural Resource Commission
FROM: Daniel Gho, Public Works Director
MEETING DATE: August 16, 2016
SUBJECT: Proposed Management Activities for Monarch Sanctuary
CEQA: Does not constitute a “Project” under California Environmental Quality Act (CEQA) Guidelines

RECOMMENDATIONS

Receive the report

DISCUSSION

The City of Pacific Grove has worked in partnership with Creekside Center for Earth Observation for the observation and consulting services for the Monarch Grove Sanctuary. On a yearly basis, Dr. Stuart B. Weiss, has worked with City staff to identify management activities that need to occur in the Monarch Grove Sanctuary and also George Washington Park. Dr. Weiss report highlights recent history and current conditions, long term views, and recommendations.

This year’s recommendations in summary for the Monarch Sanctuary are:

- Remove the remaining pines that have significant decline due to Pitch Canker
- Redwood Management
- Replant Understory Pines
- Acacia Management
- Plan Live Oaks
- Thin Cypress to prevent overcrowding
- Replant Pines and Oaks next to snags
- Remove dead pines near hotel driveway
- Review Blue Gums in SE corner, (formally potted) for weak root systems
- Repair irrigation system
- Overall Clean Up

City staff will be hosting a walkthrough of the Monarch Sanctuary on Thursday September 1, 2016 at 10:00 am to discuss the proposed maintenance activities within the sanctuary.

ATTACHEMENTS

1. Monarch Sanctuary recommendations report

RESPECTFULLY SUBMITTED:

A rectangular box containing a handwritten signature in black ink. The signature appears to be "Daniel Gho" written in a cursive style.

Daniel Gho
Public Works Director

Stuart B. Weiss, Ph.D.
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Albert Weisfuss
City Arborist
Pacific Grove, CA

9 August 2016

Re: Proposed management activities Monarch Grove Sanctuary and George Washington Park September 2016

The following recommendations and assessments are based on site visits and a field tour with City Arborist Albert Weisfuss in on July 13, 2015. They are addressed in the context of the 2011 Management Plan and subsequent consultations with City staff and residents. The recommendations are based on previous scientific work, professional judgment, and detailed field assessments. They carefully balance monarch habitat needs, hazard reduction, and forest health, based on both short-term and long-term perspectives.

In last year's and this year's assessment we have included more background data on Monarch Grove Sanctuary (Xerces Society Thanksgiving Counts) to put it in context of the entire California monarch population. Also, we have also incorporated butterfly monitoring data from the Pacific Grove Museum since 2013 to document habitat suitability and monarch use patterns relative to weather and time of season. Moving forward, this reporting on monarch abundance and distribution will be a standard component of this annual document and will constitute a long-term accessible record.

Recent History and Current Conditions

Monarch Grove Sanctuary (MGS) continues to support one of the largest overwintering aggregations in California (Table 1). The ultimate size of the MGS aggregation is dependent on range-wide breeding success the previous summer, and the ability of the site to attract butterflies in the fall and provide suitable temperature, light, and wind conditions through the fall and winter. Since 1998, MGS supported between 1% and 14% of the Thanksgiving Count estimates for the entire state. From 2001 on, MGS supported between 17% and 58% of the Monterey County population (note that during 1997-2000 coverage of other Monterey County sites was poor).

From 1997 to 2008, the Sanctuary supported between 4,700 and 45,000 butterflies (Table 1). The severe drop in 2009 to 800 butterflies reflected a sharp decline rangewide from 220,000 to 55,000 because of a three year drought across the Western United States. The low numbers at MGS in 2009-2010 also followed hazard branch trimming (summer 2009) along the southern boundary where monarchs had clustered in most years. The relative contributions of low overall California numbers and branch trimming to the sharp decline compared to other aggregations are difficult to quantify. MGS had supported as few as 20% of the Monterey County population (in 2004) compared with 17% in 2009.

Numbers and ranking recovered in 2010 and 2011 with the end of the drought. In fall 2010, Robert Pacelli placed potted along the southern edge in fall 2010 to fill in low wind gaps. Adventitious branches filled the mid-level gaps created by the trimming, and wind shelter improved on the southern boundary. Importantly, the blue gum trees planted in 1999 achieved heights (50-60') and crown volume that provided critical NW wind shelter, as envisioned in the 1998 management plan. In 2011-2012, butterflies moved from the southern edge into the grove interior for much of the season.

Ongoing Monitoring

Creekside staff mapped the location of trees that have been tagged by monitoring crews from the Museum (Figure 1) green triangles. Note the two distinct areas for monarch clustering; the southern and far southeast boundary and the Monterey Pine on the adjacent property (*southern boundary*), and the interior stretching from the hotel driveway to 30-40 m west into the grove (*interior*). These maps combined with the monitoring database collected by the Museum paint a dynamic picture of monarch distribution and abundance in the Sanctuary for 2013, 2014, and 2015-16.

Details of the 2013-14 and 2014-15 overwintering season have been obtained from the Pacific Grove Museum of Natural History (Figure 2). The monitoring data have some limitations, but large numerical trends (factor of 1.5 to 2 approximately) are detectable. The overall movements of butterflies between the southern boundary and interior can be tracked as a measure of habitat suitability and response to weather. Wind data from Monterey Airport (Figure 3) provide context for local shifts in distribution.

2015-2016 season summary

In 2015-2016, butterflies arrived as usual in October and hit peak number quite similar to 2013-2014 (11,000, Figure 2). Numbers remained steady into late-January, and dropped in February as butterflies left the grove. A warm dry February led to dispersal to breeding grounds by the end of the month. Butterflies started clustering in October-November in the western and southern part of the grove, and by December had moved to the interior of the grove following several wind events (40 mph gusts), with the strongest gusts of the season (50 mph) were in December (Figure 3). In early January, Dr. Weiss observed monarchs clustering on a tall Monterey cypress, about 25 m off the northern boundary, well north of the typical interior cluster sites (Figure 1). They moved back into the interior and hotel driveway later that month.

2013-2015 season summaries

Thanksgiving counts of 10,790 in 2012, 13,420 in 2013, and 18,128 in 2014 indicate that the Sanctuary continued to attract large numbers of butterflies that remained through the overwintering season.

In 2012-2013, the butterflies largely moved onto pines and cypresses in the interior of the grove following strong storms in November and December 2012. The interior habitat provided suitable light and wind conditions through the remainder of the season. The

1999 blue gum trees grew to 40-60' tall and provide critical NW wind shelter as part of a multi-species windbreak. Viewing opportunities were provided from the hotel driveway.

In 2013-2014, butterfly numbers peaked in late-November at 13,500 and remained at ~10-11,000 through early February, with a sharp drop in mid-February to <5,000 as they dispersed to the breeding grounds. Butterflies remained at the southern boundary through early January 2014. The strongest wind events during this period were in early December (max speeds 21-22 mph, gusts of 28-31 mph). By January 27, 2014, they had moved into the interior of the grove and were clustered on pines and cypress. There was a wind event on January 11 (max speed 16 mph, gusts to 28 mph). By February 14, butterflies had moved back to the southern boundary on Eucalyptus prior to dispersing away to breeding rounds.

In 2014-2015, numbers declined from 24,000 in mid-November to 16,000-18,000 from December through early January and persisted through strong storms in November-December. The decline to 6,000-7,000 by late January through February 10 represents dispersal to breeding grounds during a record warm January. Butterflies started clustering on the southern boundary, but by early December, following strong storms (max winds 25 mph, gusts 40-65 mph) they moved to the interior and remained there through February 10. Apparently the interior conditions were suitable during the warm relatively calm January (one wind event with 30 mph gusts), and butterflies did not move back to the southern boundary. The butterflies that remained in the grove persisted through another high wind event in early February (32-37 mph gusts).

These observations from 2013-2016 indicate that Monarch Grove Sanctuary continues to provide enough wind shelter and varied light conditions to support a large monarch aggregation through the entire season. There is sufficient wind shelter for the interior of the grove for butterflies to remain there following storms, and sufficient light that they can take flight as needed. The major wind directions that produce the highest sustained winds are SE-SW and W-NW (Figure 3) and the grove is much better protected, especially from W-NW in 2015-16 than in previous decades.

A long-term view

Management of Monarch Grove Sanctuary is a long-term process. This section looks ahead to anticipated changes and issues over the next decades, so that current management recommendations can be put into context.

- 1) The 1999 blue gum plantings are working as anticipated, growing to 40-60' tall and providing NW wind shelter and allowing monarchs to stay in the interior of the grove following storms. These trees will continue to function for many decades as part of a multi-species windbreak that includes pines and cypress.
- 2) The authorized blue gum plantings inside the southern boundary have been growing to heights of 15-20' and are beginning to provide additional wind shelter at low heights. These trees will eventually reach heights where monarchs can roost in a more wind sheltered dappled light environment – some roosting has

- been observed on the taller trees. They will provide redundancy for the southern windbreak trees, and will eventually replace them decades from now.
- 3) The overplanted unauthorized trees should be thinned year by year to encourage healthy blue gums that can grow rapidly. The canopies of remaining trees will fill in any gaps left by removal of the overplanted trees. These trees can be boxed (as feasible) and left in place until the canopies of the planted blue gums flourish.
 - 4) The pines continue to succumb to pitch canker and drought. Continuing plantings to maintain a substantial pine component in the grove is important, but pines still cannot be counted upon to provide long-term overstory.
 - 5) Many of the cypress planted over the last decade are in their period of rapid growth and will provide significant wind shelter in coming years and decades. The cypress along with blue gums will provide the backbone of the grove, given the uncertainties on pine survival in the long run. Some densely planted cypress stands could be thinned.
 - 6) Understory live oaks could fill in parts of the grove and provide good native habitat. Understory native shrubs (toyon and ceanothus in particular) and forest floor forbs could be introduced in parts of the Sanctuary, but need to be protected from deer browsing.
 - 7) Maintaining the irrigation system for tree establishment and for watering during droughts, as well as developing a rigorous irrigation management plan implemented by City staff, is critical.
 - 8) Continued provision of tested fall blooming nectar plants will help retain butterflies early in the season in October and November. The yellow *Buddleia* has proven attractive (Photo 1), and the flowering red gum also attracted nectaring butterflies (Photo 2). The beds should be maintained with those plants that prove to be used by butterflies. Away from the nectar beds, use of bottlebrush was noted in fall 2014 and 2015, and early-blooming *Prunus* has provided winter-spring nectar in addition to the blooming blue gums.

Management Recommendations for 2016

Monarch Grove Sanctuary

Several issues in forest and habitat management at Monarch Grove Sanctuary were identified in the field, and are keyed to zones identified in Figure 4. Note the differences in the zone designations from previous reports in 2014 and 2015.

- 1) **Zone 1 Removal of pines with pitch canker (Photo3):** Along Grove Acre Avenue, dying Monterey pines heavily infested with pitch canker were removed in 2015 (Photo 1). One more relatively tall pine is succumbing to pitch canker and should be removed by 2017. Additional pines should be planted in this zone and receive irrigation, along with continued monitoring of the remaining trees.
- 2) **Zone 1 and 6 redwood management (Photo 4):** The redwood trees need consistent watering, especially during this record drought (Photo 2). In summer 2016, removal of dead branches and foliage from the redwoods should be considered. Given the irrigation practices in recent years, it is not clear if these

trees are viable in the long term. Redwoods are not well suited for Pacific Grove close to the ocean. The drip system to un-watered redwoods was re-established in 2014 and trees are showing some signs of recovery. All irrigation scheduling should be done by the City Arborist. In the longer-term (10+ years) they could eventually provide 40-60' of dense windbreak along the western border, in conjunction with other pines (if they survive) and cypresses. But it is likely that the redwoods will require irrigation in many, if not most years and the track record in the last three years is not encouraging.

- 3) **Zone 1 Cypress growth:** The rapidly growing cypress in this area will provide greater wind shelter in several years and replace the pines that have died, as well as providing an alternative to the redwoods.
- 4) **Zone 2 Understory Pines:** Many recently planted understory pines died and were removed in 2015 (Photo 8). We recommend that these sites be replanted where appropriate with 5 gallon Monterey pines, using pitch canker resistant stock if available. Provision of drip irrigation until the trees are established is critical for high survival of these trees. All irrigation scheduling should be done by the City Arborist.
- 5) **Zone 2 Pine removals done in 2015:** At the western edge of Zone 2, several pines infested with pitch canker, were removed in 2014 to slow the progression of the disease deeper into the grove. Small pitch canker infestations were noted in several trees much farther in the interior and should be monitored. Replanting pines, oaks, and cypress will fill any gaps created by removal of dying pines.
- 6) **Zone 2 Acacia management:** An acacia with much dead foliage is noted along the western edge of Zone 2, and some removal of dead branches is appropriate. But, the dense fine branches are filling an important gap for SW wind shelter for the interior cluster sites, and removal of all of these dead branches at once should be delayed until established trees and new plantings can fill the gap.
- 7) **Zone 2 Oak plantings:** In Zone 2, live oaks should be planted just east of the trail to create low windbreak. Provision of irrigation for the first few years should be a priority.
- 8) **Zone 7 Cypress thinning:** In the interior of Zone 2, several young cypresses have failed to establish straight trunks and should be removed. Three cypresses were identified for removal to thin the stand. The remaining cypress plantings are dense enough to fill in for these removed trees. Final selection of trees to be removed will be made in the field by the City Arborist.
- 9) **Zone 7 Replanting pines and oaks next to snags:** In Zone 7, there are opportunities to replant pines alongside the many wildlife snags in the open area, to re-establish forest cover. These snags were dead or hazardous Monterey pines that were removed and left to act as a habitat / granary snags. Natural re-forestation is non-existent in Zone 2. Oaks would be a suitable understory in this area. While the canopy is open overhead, this site does not receive much direct light during the overwintering season because of tall canopy to the south. Again, provision of drip irrigation for the initial plantings increases chances for success.

- 10) **Zone 7 Removal of dead pines near driveway:** Trees OO and QQ in Zone 7 towards the eastern edge are dead and pose a hazards to the hotel driveway and other trees, and should be removed this year.
- 11) **Zone 2 Dead pines removed in 2015:** The medium sized pine toward the southern edge of Zone 2 died, were removed in 2015.
- 12) **Zone 3 Authorized blue gum plantings (2011) status:** City-authorized plantings of blue gums were carefully planned to fill in gaps in wind protection, be appropriately spaced, and their rapid growth and health is essential to the long-term habitat suitability of the Sanctuary. A minimum of 10-15 feet (3-4.5 m) between trees is necessary for tree health and rapid growth in the long-term. These trees are now ~15-20' tall (Photo 5), and occasionally support clustering monarchs in the fall.
- 13) **Zone 3 Unauthorized blue gum plantings (2013) status:** The unauthorized blue gums (formerly potted) are planted much too densely in 2013 (Figure 5 and Photos 3-6). Crowding the authorized trees with the additional unauthorized plantings serves to slow growth and create unhealthy individual trees. We recommended in 2014 and 2015 that the unauthorized blue gums in this area be thinned back to the originally planned configuration. A number of these trees were removed, but many are still too closely planted. No trees appear to have been removed in 2015. A close-up of the SE corner shows the numerous trees planted in this area (Figure 3). Some trees were planted too shallow and may be structurally deficient (Photos 5 and 6).
- 14) **Zone 3 Removal of unauthorized blue gums:** We recommend that additional unauthorized trees be removed, preferably 10'+ spacing, but to a minimum spacing of 6'. Several trees have died and should be removed. Selection of individual trees for retention and removal will be conducted in the field by the City Arborist and others prior to any actions.
- 15) **Zone 3 Potted Trees:** The potted trees can be moved around to fill gaps, but should not be planted in the ground without City authorization.
- 16) **Zone 3 Mulch Management:** Surface blue gum duff was raked from around the small trees in 2015 (Photo 6). This duff is important mulch to retain limited water, and such raking should be discouraged in the future. The duff also provides structure for monarchs to climb away from the ground if they are dislodged.
- 17) **Zone 3 Drip system:** At this point, the broken drip system for the authorized blue gums is not needed as the trees are well established, so no repairs are suggested at this point. Hose watering provides an alternative, but the established trees should not need irrigation.
- 18) **Zone 3 South fence line trees:** The trees planted next to the fence will eventually damage the fence as they grow in girth (Photo 5). No immediate actions are suggested other than removing the dead trees, but monitoring the situation is important. At some point in the future a realignment of the fence, or removal of what will then be much larger trees will be necessary.
- 19) **Zone 4 Hazard branches/trees over trail:** In Zone 4, several hazard branches over trails were removed in 2014. No further hazard reduction actions appear necessary here.

- 20) **Zone 4 Closing south edge gap:** On the south edge of Zone 4, there is a substantial low canopy gap that should be filled in by planting one of the potted trees or a nursery raised blue gum.
- 21) **Zone 5 no action:** No actions are suggested for Zone 5 in 2016 at this time.
- 22) **Zone 6 clean-up:** There some dead trees and branches in Zone 6 that should be removed, and the Ecchium needs some removal of overgrown branches..
- 23) **Nectar beds:** It is clear that the yellow Buddleya is a favored fall nectar source. The bushes are getting quite large, and accumulating dead foliage and branches in their interiors. We suggest that half of these bushes be trimmed in spring 2017, to allow for refreshed growth, and the other half be trimmed back in 2018. There are species that have been tested that are not favored, so replacement of some of the other species with Buddleya should be considered. The bottle brush and red gums do provide alternatives to Buddleya . Continued experimentation with fall blooming species should be continued in at least one of the beds. Appropriate irrigation management – not overwatering – is essential for the nectar beds.
- 24) **Understory plantings:** Toyon (Photo 8) and blueblosson ceanothus are two species that can thrive in the grove and provide native understory. Plantings of these two species need to be caged for several years to protect against deep browsing, but once established can live for decades.
- 25) **Irrigation system:** As noted through the document, maintaining and operating the irrigation system for establishing trees, and avoiding over-watering and under-watering is a critical management action. The reliable early survival of new plantings is dependent on appropriate irrigation.
- 26) **Governance:** We note a long history of governance issues regarding City control over activities in Monarch Grove Sanctuary, and ongoing controversies. In order to create a deliberate and open decision-making process, in 2014 we proposed a progression of meetings to discuss the rationale and implementation of these recommendations, adjust them if appropriate. This sequence is outlined in the Adaptive Management section of the 2011 report. Public input is sought at appropriate times and through official channels. In 2014, the process included a presentation to the BNRC and Monarch Committee in July 2014, followed by a City staff sponsored field tour, and implementation of recommendations in September 2014. We executed a similar process for 2015, with a BNRC presentation in mid-August, a field tour in late-August and implementation in September, and recommend the same for 2016 for the third time.
- 27) **Management of trees at the Butterfly Grove Inn:** The City and the Hotel need to coordinate actions in this sensitive area. In summer 2016, the new owners of the hotel did major tree maintenance on their property to alleviate potential hazards. The trimming was brought to the attention of the City Arborist, who intervened and reduced the intensity of branch trimming and thinning. Fortunately, the hotel structure itself provides much of the wind shelter from that direction and the branch thinning will only affect the upper canopy where monarchs rarely cluster. The cypress above the hotel driveway, which has been a major cluster tree in recent years, had a broken branch that poses a hazard to people watching the butterflies from below, and that branch was removed.

Removal of the dead branch should not affect use of the other branches on the tree because the wind shelter in this area is provided by surrounding trees and the hotel itself. Removing this branch may avoid death and injury to monarchs should the branch fall while butterflies are clustered.

- 28) **Southern Neighbors:** South of the Sanctuary, trees in the neighbors' yards provide cluster sites (the pine near the shed), and additional wind shelter. While beyond the direct control of the City, maintenance of these trees by the neighbors is important. Outreach by the City is important to find out plans and anticipate changes. Management of hazards over these yards should be done on a case by case basis. But, management actions within the Sanctuary itself are designed to eventually make it more self-contained and less reliant on neighboring property owners.

George Washington Park

There are several issues in forest and habitat management at George Washington Park

- 1) This is a unique site for California monarchs; it is one of the few remaining Monterey pine/live oak habitats.
- 2) The site has been used intermittently by monarchs, a few individuals can be found there every year at some point, but major clusters were found in only a few years (Table 1). In 2006, for example, there were more than 10,000 monarchs at GWP and very few at Monarch Grove Sanctuary. Since then, there has been only one year (2011) with more than 1 or 2 monarchs at Thanksgiving. Individual monarchs have been observed here during other times of the overwintering season.
- 3) The historic cluster sites in GWP have had sufficient wind shelter for monarchs, but changes in the forest as mature trees senesce are threatening this important component of habitat suitability. In particular, the largest pine at the historical overwintering site has died, but there are several mid-story pines that are in positions to replace this tree over coming decades. Losses of forest cover to the south and west through overstory tree mortality is reducing wind shelter.
- 4) Removal of dead standing trees is recommended where they have stationary targets, especially around the edge of GWP. Dead trees that may fall across trails in the interior should be evaluated on a case-by-case basis. Trees can be left as safe wildlife snags where appropriate, but a more naturalistic topping should be considered.
- 5) Reduction of accumulated deadfall by CALFIRE in 2014 and 2015 removed large piles of downed tree debris. This is important preparation for eventual site restoration. Some branch and log piles have been retained and downed logs are used to redirect foot traffic to fewer trails.
- 6) Plantings of pine seedlings to the SW of the historical cluster site, similar to the plantings at the southern end of GWP, should commence assuming that sufficient rain falls in fall-early winter 2016-17.

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- 7) Operations on the perimeter of the park are the priority, to maintain safety from falling dead trees on adjacent roads, and to create a fire buffer.
- 8) The ongoing drought is likely to drive increased loss of leaves, needles, and branches, and mortality of entire trees. The consequences of drought will eventually have to be managed.
- 9) Establishment of a designated trail system and decommissioning of meandering paths impacting root systems of the trees is occurring. Ingrowth of poison oak is effectively shutting some social trails.
- 10) Now that there have been reductions in downed trees and debris, the long-term suitability of George Washington Park for monarchs should be assessed, with methods similar to those employed at Monarch Grove Sanctuary.
- 11) Once the assessment is done, a long-term planting scheme (pines, oaks, and native understory shrubs) should be developed and implemented. The key elements of such a planting scheme should be to provide eventual replacements for canopy trees, create and maintain a mid-story of oaks and pines, and maintain wind shelter from all directions around defined canopy gaps.

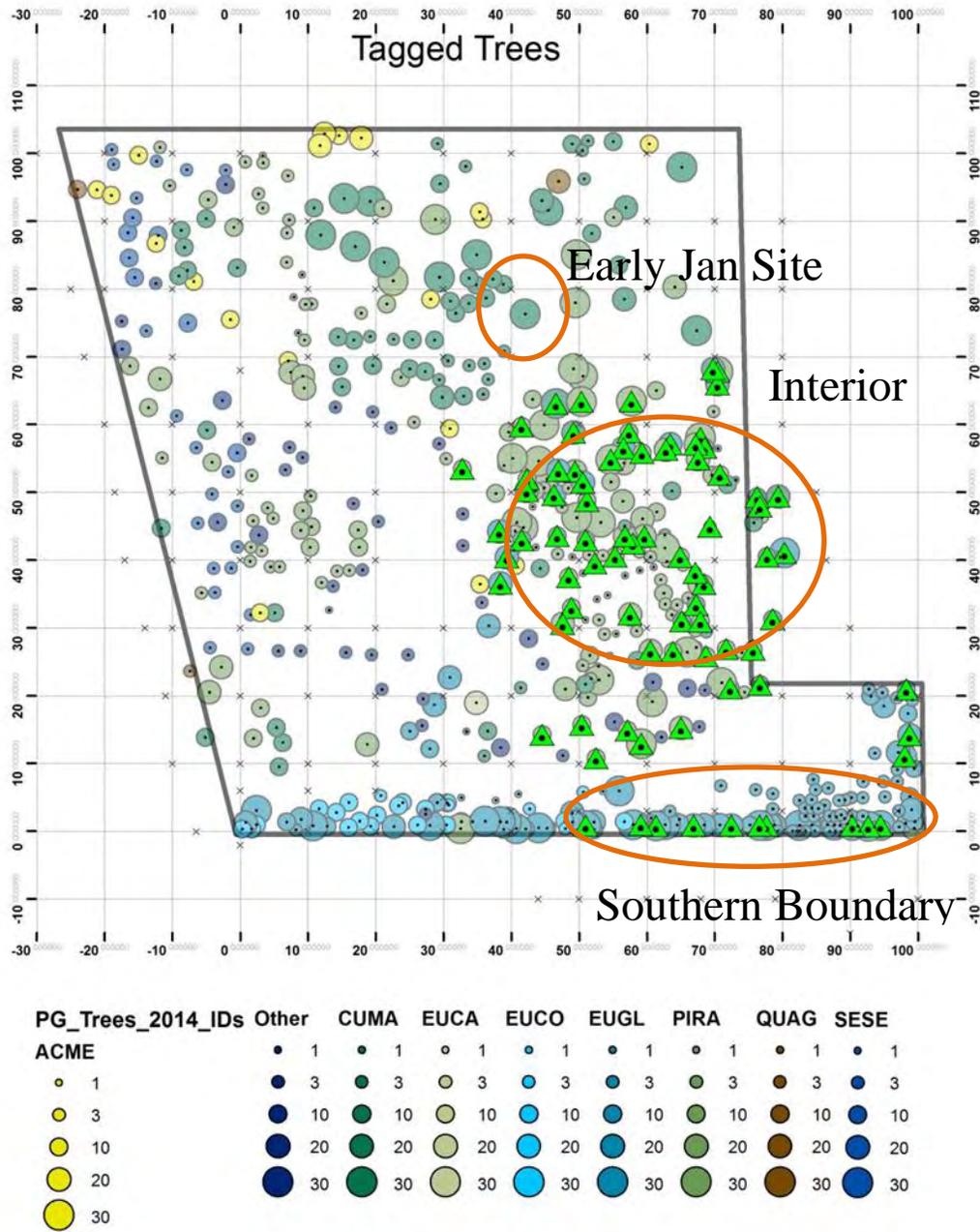
In summary, forest management at George Washington Park is needed, and the first steps of removal of some dead standing trees, clean-up of some forest floor debris, and re-routing some informal trails have been implemented. This will set the stage for plantings and restoration of the forest in GWP.

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 stu@creeksidescience.com

**Table 1. Monarch Butterfly Thanksgiving Counts Xerces Society
 Monarch Grove Sanctuary (MGS) George Washington Park (GWP), Pacific Grove
 and California Totals**

Year	MGS	GWP	CA Total	Monterey Co.	MGS % CA	MGS % Monterey	MGS CA Rank
1997	45,000		1,235,490	45,000	4%	100%*	10 (tie)
1998	35,000		564,349	41,000	6%	85%	5
1999	25,000		267,574	25,000	9%	100%*	3 (tie)
2000	20,000	0	390,057	20,000	5%	100%*	6 (tie)
2001	14,960		209,570	31,203	7%	48%	4
2002	4,700		99,353	11,593	5%	41%	5 (tie)
2003	22,802	2,750	254,378	68,979	9%	33%	2
2004	10,867	4,325	205,085	54,481	5%	20%	4 (tie)
2005	12,199	2	218,679	37,540	6%	32%	4
2006	28,746	11,795	221,058	59,957	13%	48%	1
2007	8,181	2	86,437	15,426	9%	53%	3
2008	17,866	0	131,889	31,063	14%	58%	2
2009	793	0	58,468	4,735	1%	17%	17
2010	4,968	0	143,204	8,634	3%	58%	4
2011	12,265	61	222,525	27,788	6%	44%	4
2012	10,790	0	144,812	29,048	7%	37%	4 (tie)
2013	13,420	1	211,275	35,772	6%	38%	3 (tie)
2014	18,128	0	234,731	55,879	8%	32%	3
2015	11,472	0	263,728	27,787	4%	41%	3 (tie)

Figure 1. Monarch Occupied Trees (Green Triangles) 2012-2014, Grid in meters



Stuart B. Weiss, Ph.D.
Creekside Center for Earth Observation
27 Bishop Lane
Menlo Park, CA 94025
(650) 269-2876
stu@creeksidescience.com

Figure 2 Monarch numbers through season. Data from Pacific Grove Museum

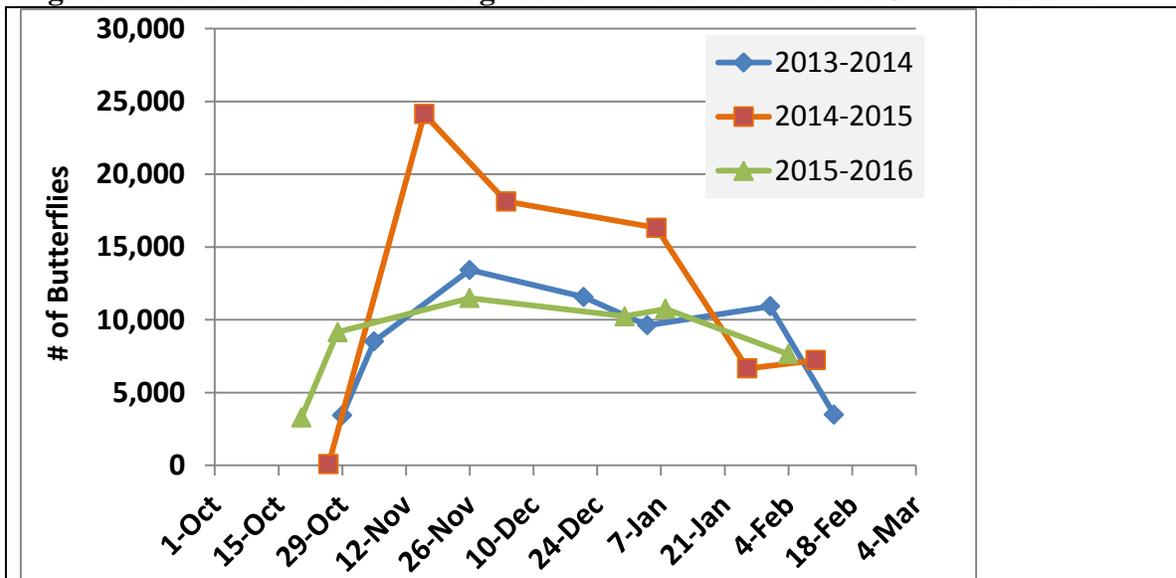


Figure 3 Daily Wind Data from Monterey Airport

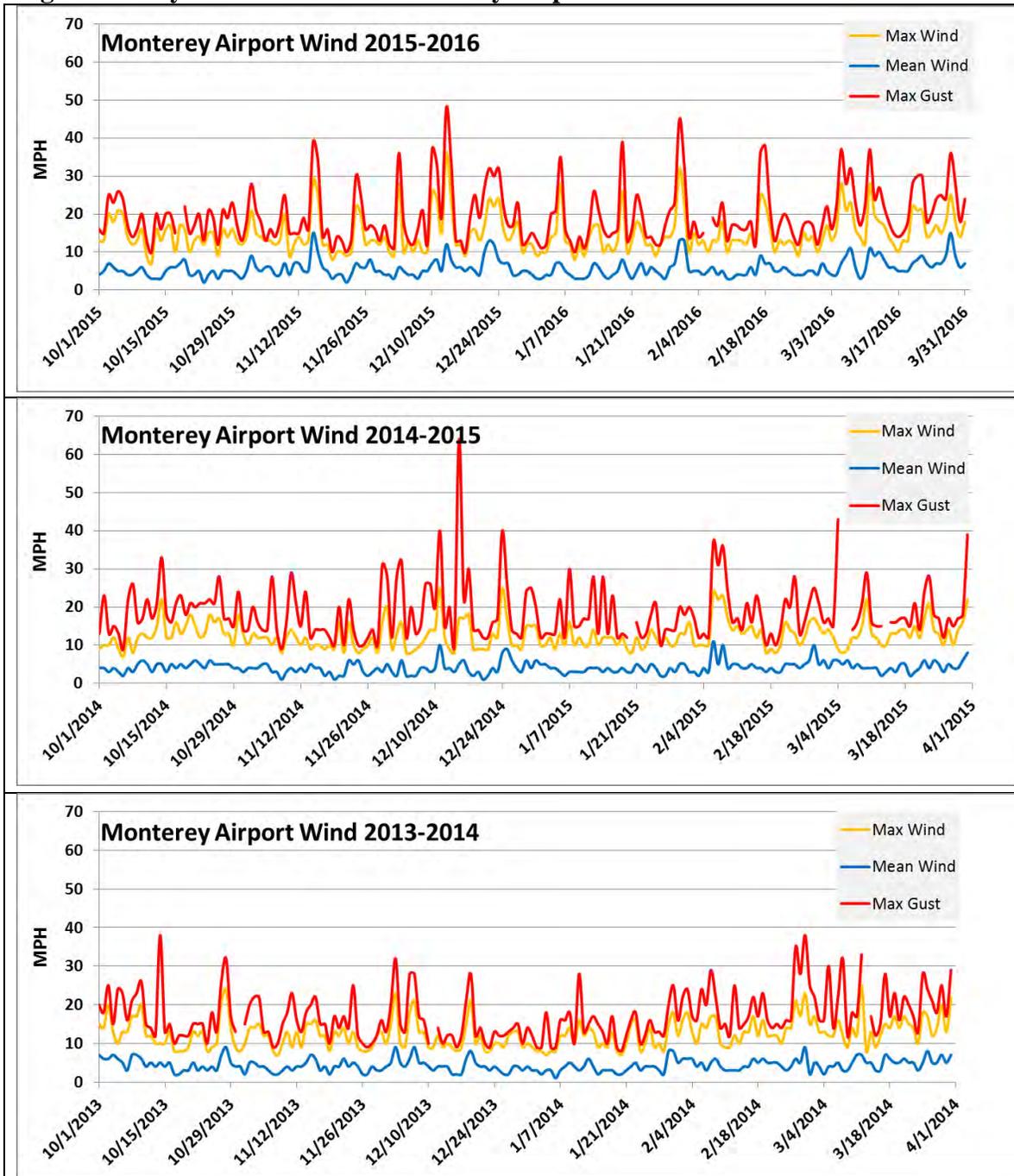


Figure 3 (Continued) Maximum wind and wind direction Monterey Airport

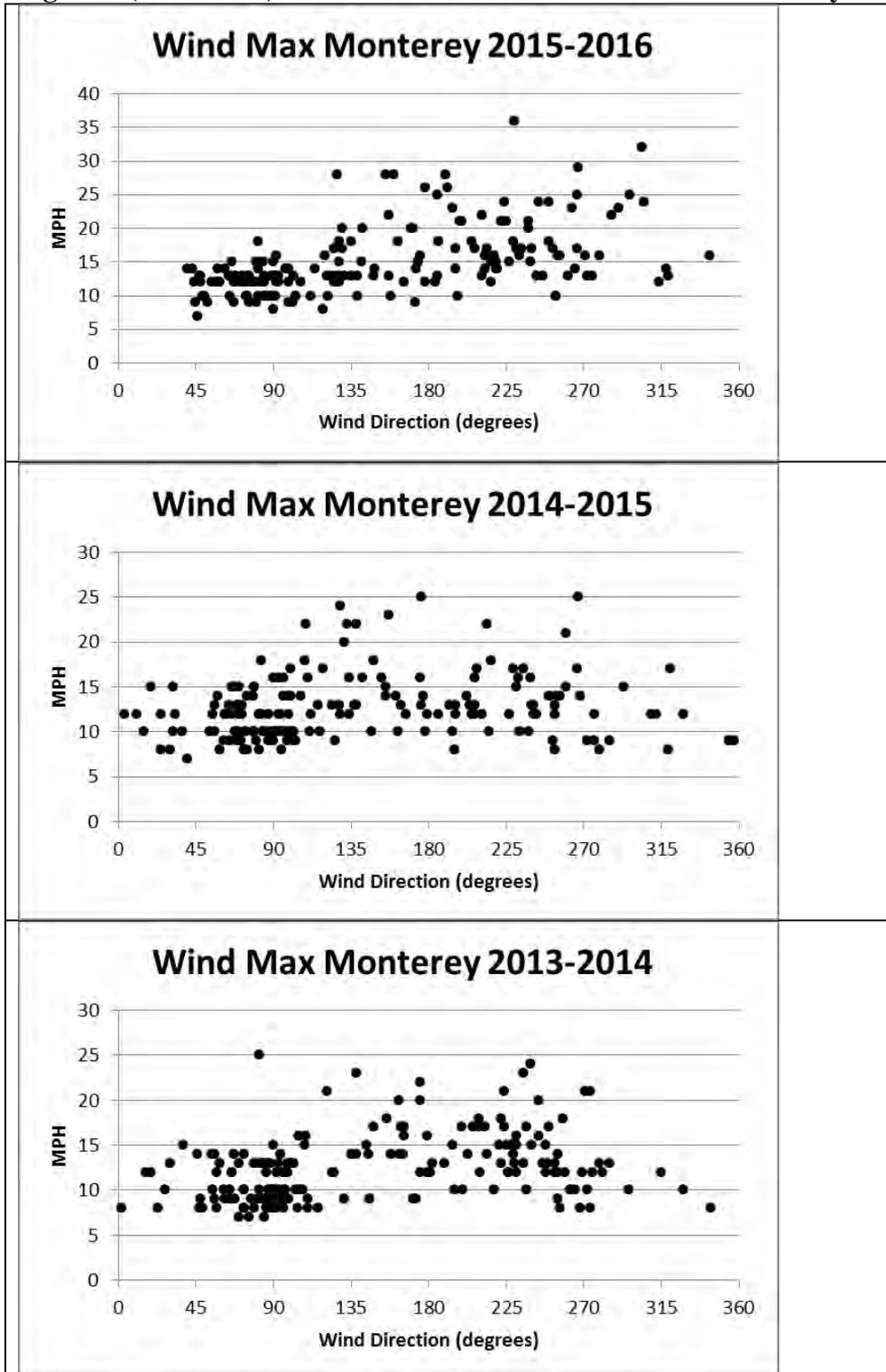


Figure 4. Management Zones. Grid in Meters

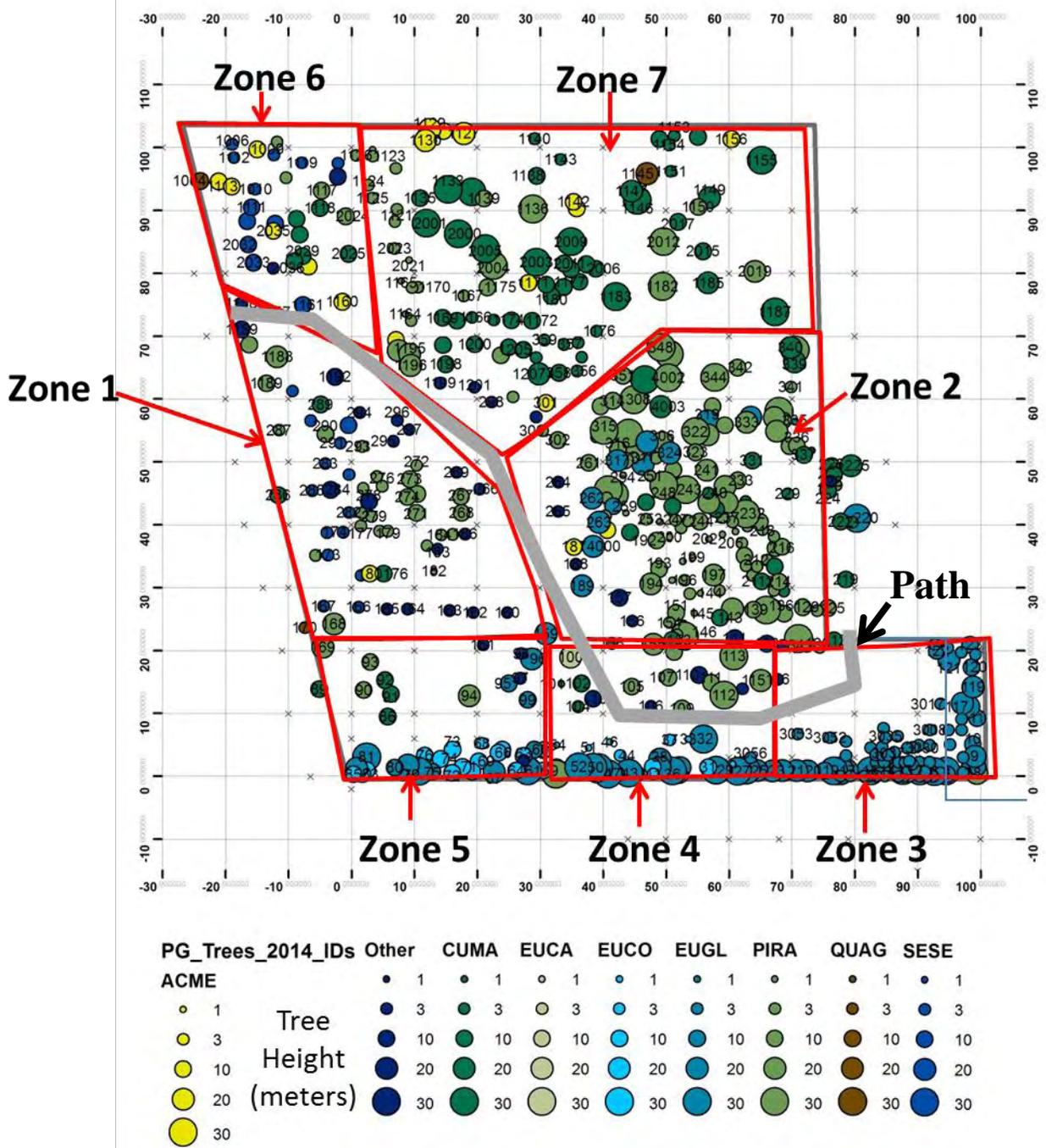


Figure 5. SE corner of Sanctuary, highlighting the closely spaced small trees. The grid is 10 m (33'), some of the trees are less than 1m apart.

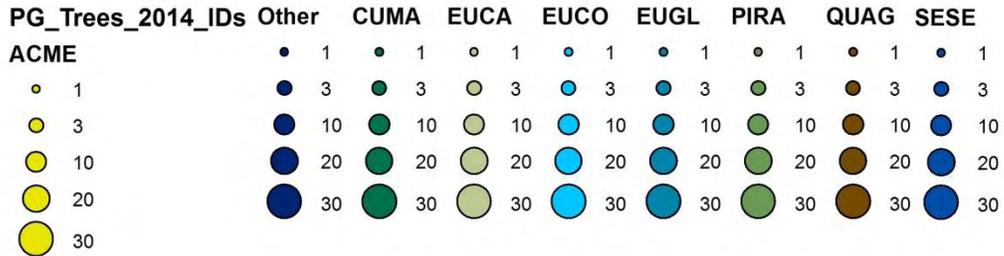
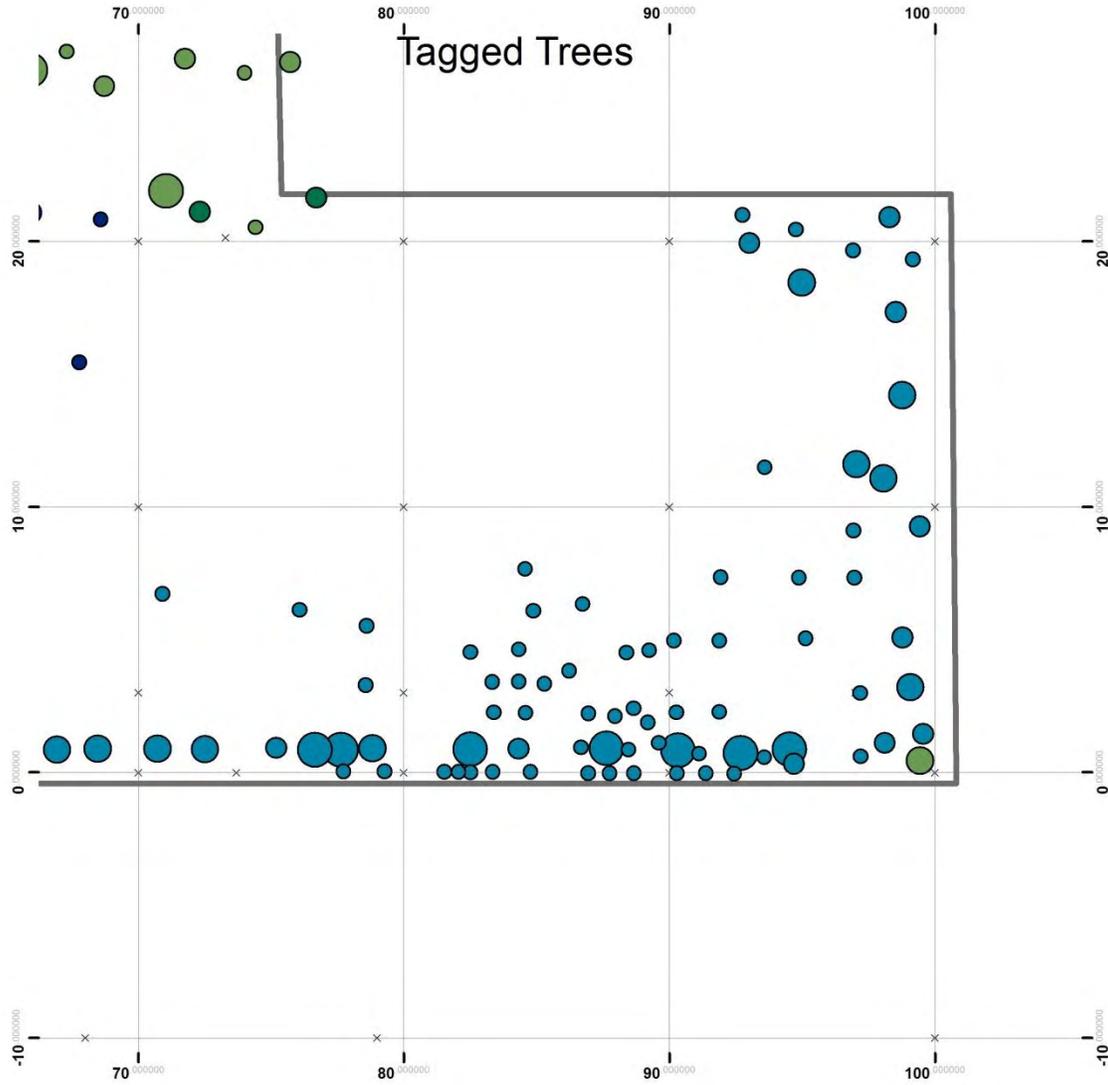


Photo 1. Nectaring on red gum October 21, 2015.



Photo 2. Nectaring on yellow Buddleya October 21, 2015.



Photo 3 Pitch Canker infested Pines



Photo 4 Redwoods in Zone 1

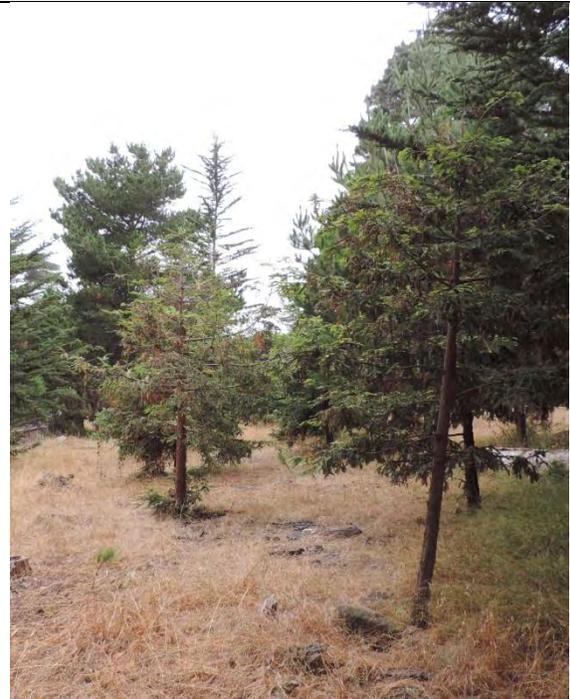


Photo 5 2011 planted blue gums inside
Note height (>20') of circled tree crown



Photo 6 Overplanted blue gums and boxed trees 2016



Photo 6 Blue gums by fence 2016



Photo 7 Duff removal 2015



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Photo 8 Understory clean-up in Zone 2



Photo 9 Toyon (white flowers) in Zone 2





CITY OF PACIFIC GROVE

AGENDA REPORT

TO: Beatification and Natural Resource Commission
FROM: Daniel Gho, Public Works Director
MEETING DATE: August 16, 2016
SUBJECT: Proposed Lovers Point Access Project
CEQA: Does not constitute a "Project" under California Environmental Quality Act (CEQA) Guidelines

RECOMMENDATIONS

Receive the report

DISCUSSION

The City of Pacific Grove has been working to build an access project at the foot of Forest Avenue along Ocean View Blvd. The Project will consist of the removal of the 6 off street parking spots at the end of Forest Avenue and build a scenic over look that will have accessible ramps to and from the recreation trail, seating, native plantings, wayfinding signs, informational signs, storm water aspects, and new driveway entrance and crossing treatments.

The City has developed these plans to submit to the Coastal Commission as part of a coastal development permit.

ATTACHEMENTS

1. Plan Set

RESPECTFULLY SUBMITTED:

A rectangular box containing a handwritten signature in cursive that reads "Daniel Gho".

Daniel Gho
Public Works Director

RECREATION TRAIL ACCESSIBILITY IMPROVEMENTS

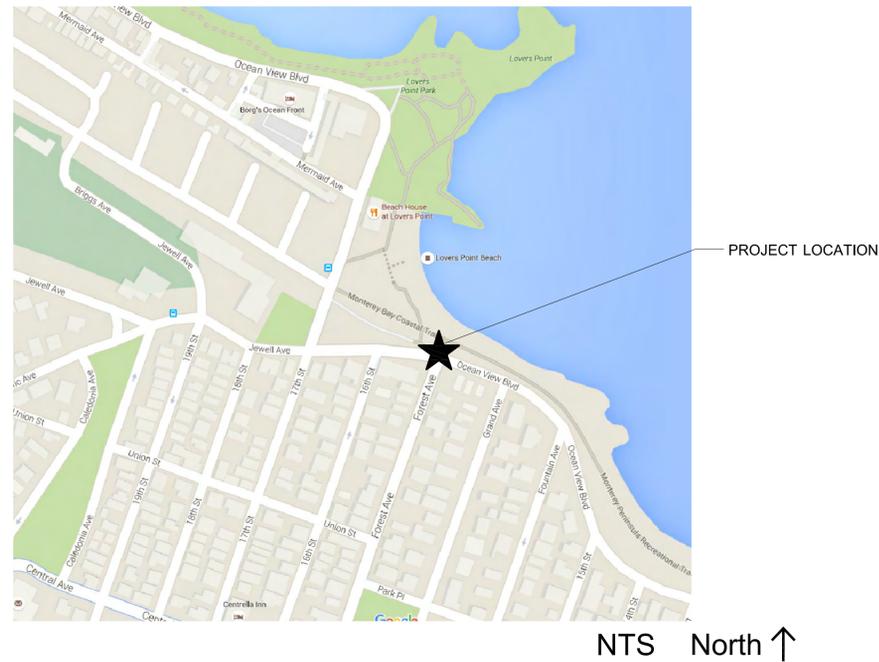


OONA JOHNSEN
LANDSCAPE ARCHITECTURE
227 Forest Avenue, Suite 8
Pacific Grove, CA 93950
PH 831 915 6838
oona@OJ-LA.com

PROJECT INFORMATION

Owner: City of Pacific Grove
Project Address: Oceanview Blvd, between 17th and Forest Ave
APN #: 00615-5099-000
Lot Size: approximately 4.4 acres

Context Map:



ABBREVIATIONS

AB	Aggregate Base	DWG	Drawing	HP	High Point	POC	Point Of Connection
AC	Asphalt Concrete	(E) / EX	Existing	ID	Inside Diameter	PREFAB	Prefabricated
AD	Area Drain	EA	Each	INCL	Include	PSI	Pounds Per Square Inch
ALT	Alternate	EG	Existing Grade	INT	Interior	PT	Pressure Treated
APPROX	Approximate	EJ	Expansion Joint	INV	Invert	PVC	Polyvinyl Chloride
ARCH	Architectural	EP	Edge of Paving	LA	Landscape Architect	R/RAD	Radius
BLDG	Building	ELEV	Elevation	LB	Pound	REBAR	Reinforcement Bar
BOC	Bottom of Curb	ELEC	Electrical	LF	Linear Foot	REF	Reference
BW	Bottom of Wall (equal to FG or FS)	EQ	Equal	LOW	Limit of Work	RIM	Rim Elevation
BS	Bottom of Step	EQUIP	Equipment	LP	Low Point	SCH	Schedule
BOT	Bottom	EXP	Exposed	MAX	Maximum	SD	Storm Drain
CB	Catch Basin	EXT	Exterior	MECH	Mechanical	SF	Square Foot
CI	Cast Iron	FFE	Finished Floor Elevation	MFR	Manufacturer	SIM	Similar
CL or C	Centerline	FG	Finished Grade	MH	Manhole	SPECS	Specifications
CLR	Clear	FL	Flow Line	MIN	Minimum	SQ	Square
CMU	Concrete Masonry Unit	FOB	Face of Building	MM	Millimeter	SS	Sanitary Sewer
CONC	Concrete	FOC	Face of Curb	MTL	Metal	STL	Steel
CONST	Construction	FPS	Feet Per Second	(N)	New	SY	Square Yard
CONT	Continuous	FS	Finished Surface	NIC	Not In Contract	TC	Top Of Curb
CO	Cleanout	FT	Foot	NO	Number	TS	Top of Step
CY	Cubic Yard	FTG	Footing	NOM	Nominal	TYP	Typical
DEMO	Demolition	GA	Gague	NTS	Not To Scale	TW	Top of Wall
DET	Detail	GALV	Galvanized	OC	On Center	U/G	Underground
DG	Decomposed Granite	GB	Grade Break	OD	Outside Diameter	UON	Unless Otherwise Noted
DIA / \emptyset	Diameter	H	Height	OPP	Opposite	VERT	Vertical
DN	Down	HDR	Header	PA	Plant Area	VIF	Verify In Field
		HORIZ	Horizontal	PE	Polyethylene	WP	Weakened Plane Joint
				PERF	Perforated	WWM	Welded Wire Mesh

SHEET LIST

L-0.0 Project Cover Sheet
Sheet 1 of 1 Site Map of Existing Conditions

CIVIL DRAWINGS:

Sheet 1 of 4 Ocean View Blvd. and Forest Ave. Improvements
Sheet 2 of 4 17th Street Improvements
Sheet 3 of 4 Improvements Details
Sheet 4 of 4 17th Street Improvement Details

ELECTRICAL AND LIGHTING DRAWINGS:

E-1.0 Electrical & Lighting Cover Sheet
E-1.3 California Energy Compliance T-24 (Exterior)
E-2.0 Electrical Site Plan
E-2.1 Partial Electrical Site Plan
E-3.0 Electrical Details

LANDSCAPE & IRRIGATION DRAWINGS:

L-1.0 Construction & Layout Plan
L-1.1 & 1.2 Landscape Construction Details
L-2.0 Planting Plan & Irrigation Strategy
L-2.1 Planting Details

GENERAL NOTES

DESIGN INTENT: These Drawings represent the general design intent to be implemented on the site. Contractor shall be responsible for contacting the Architect for any additional clarification or details necessary to accommodate site conditions.

CONTRACTOR COORDINATION: Contractor shall coordinate and otherwise integrate his work with that of others in an efficient, craftsmanlike and timely manner so as to provide the Owner with a well-constructed, easily maintainable project. Each contractor shall notify others at least two working days in advance of covering, completing or exposing work to be installed by others.

CONTRACTOR'S JOB SITE CONDITIONS: Contractor agrees that he shall assume sole and complete responsibility for site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Architect harmless from any and all liability, real or alleged in connection with the performance of work on this project, excepting liability arising from the sole negligence of the Owner or the Architect.

COMPOSITE BASE SHEET: The proposed improvements shown on these Drawings are superimposed on a base sheet. This base sheet is compiled from a topographic survey as made available by the Surveyor / Owner (Neill Engineering Corp. March 2016). The Landscape Architect shall not be held liable for changes, inaccuracies, omissions or other errors on these documents. The composite base sheet is provided only as an aid, and the Contractor shall be responsible for reviewing these documents and incorporating/integrating all construction as required to accommodate same.

UTILITIES: A reasonable effort has been made to locate and delineate all known underground utilities. The Contractor is cautioned that only excavation will reveal the types, extent, sizes, location and depths of such underground utilities. However, the Owner or the Landscape Architect can assume no responsibility for the completeness or accuracy of delineation of such underground utilities, nor for the existence of other buried objects or utilities which are not shown on these Drawings. The Contractor is hereby notified that prior to commencing construction, he is responsible for contacting the utility companies involved and requesting a visual verification of the locations of their underground facilities. The utility companies are members of the underground service alert (U.S.A) one-call program. Notification shall be 48 hours in advance of performing excavation work by calling the toll-free number 800-642-2444

CODES AND STANDARDS: Bring conflicts between Codes, Referenced Standards, Drawings, and Specifications to the attention of the Construction Manager in writing, for resolution before taking any action. Where differences exist between codes and standards, the one affording the greatest protection shall apply. If the year of adoption is omitted from the Code or Standard designation, it shall mean the latest revision in effect on the Bid date.

PROJECT SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

- ADA standards for accessible design: ADA Accessibility Guidelines for Buildings and Facilities (ADAAG), (28 CFR part 36, appendix A)
- Accessibility provisions of the 2007 California Building Codes (CBC): Part 2 of California Code of Regulations, Title 24
- California Model Water Efficient Landscape Ordinance AB 1881 or local ordinance if applicable.

STAMP:



CONSULTANTS:

Civil Engineer:



Neill Engineers Corp.
P.O. Box LL - Mission & 5th
Carmel-by-the-Sea, CA 93921
phone: (831) 624-2100
info@neillcorp.com

Electrical Engineer:



Aurum Consulting Engineers
60 Garden Court, Ste 210
Monterey, CA 93940
Phone: (831) 646-3330
info@acem.com

REVISION: DATE:

PROJECT NAME:

**REC TRAIL
ACCESSIBILITY
IMPROVEMENTS**

Pacific Grove, CA

OWNER:

City of Pacific Grove
Ocean View Blvd. between
17th St. & Forest Ave.

ISSUANCE:

PERMIT SET

DATE: May 20, 2016

DRAWN BY: OJ

CHECKED BY: OJ

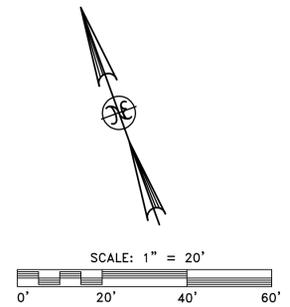
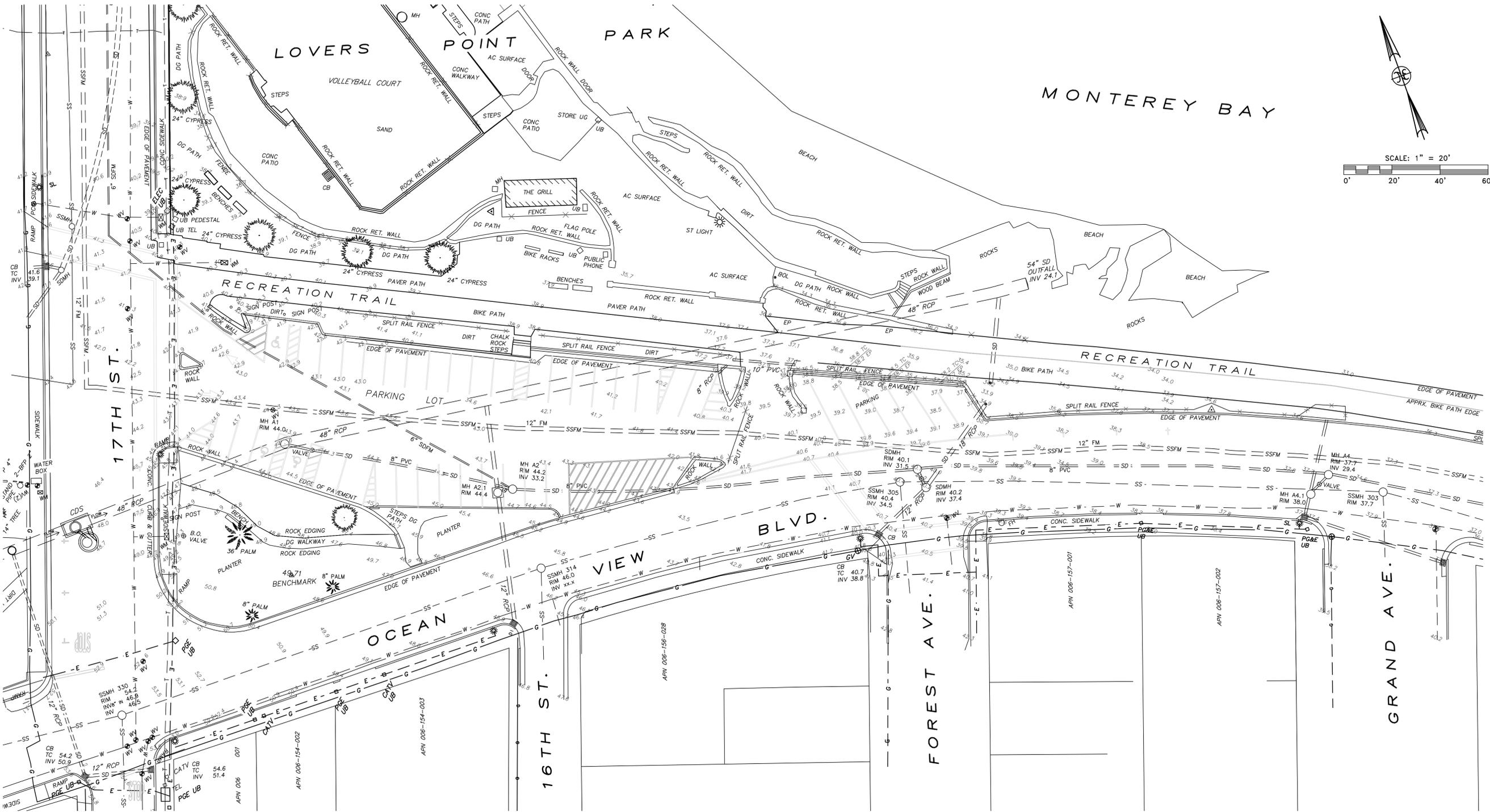
PROJECT #: 74.15

SHEET NAME & NUMBER:

Cover Sheet

L-0.0

Copyright © 2016 by Oona Johnsen Landscape Architecture. If drawing is not 24x36, it is reduced.



TOPOGRAPHIC NOTES

- (1) BENCHMARK IS A 1/2" IRON PIPE, ELEVATION 49.71 FEET IN THE PLANTER AREA LOCATED AT NORTHEAST CORNER OF THE INTERSECTION OF 17TH STREET AND OCEAN VIEW BOULEVARD.
- (2) UNDERGROUND UTILITIES SHOWN ARE BASED ON USA MARKINGS AND RECORD MAPS.
- (3) THIS MAP PORTRAYS THE SITE AT THE TIME OF THE SURVEY AND DOES NOT SHOW SOILS OR GEOLOGY INFORMATION, UNDERGROUND CONDITIONS, EASEMENTS, ZONING OR REGULATORY INFORMATION.
- (4) TREE SYMBOLS ARE NOT DRAWN TO SCALE.
- (5) THE DECIMAL PLACE INDICATES THE HORIZONTAL POSITION OF THE SPOT ELEVATION SHOWN.

LEGEND

- SURVEY CONTROL POINT (TOPO PT)
- UTILITY POLE
- SEWER OR STORM MANHOLE
- SANITARY SEWER MAIN
- UNDERGROUND STORM DRAIN
- WATER MAIN
- FIRE HYDRANT
- WATER VALVE
- GAS VALVE
- SPOT ELEVATION
- TREE

NEILL ENGINEERS CORP.



CARMEL, CALIFORNIA

**SITE MAP
OF
EXISTING CONDITIONS**

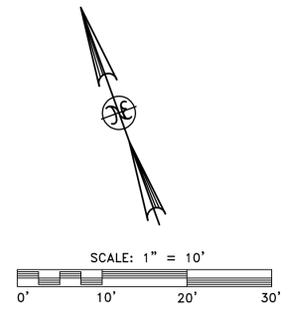
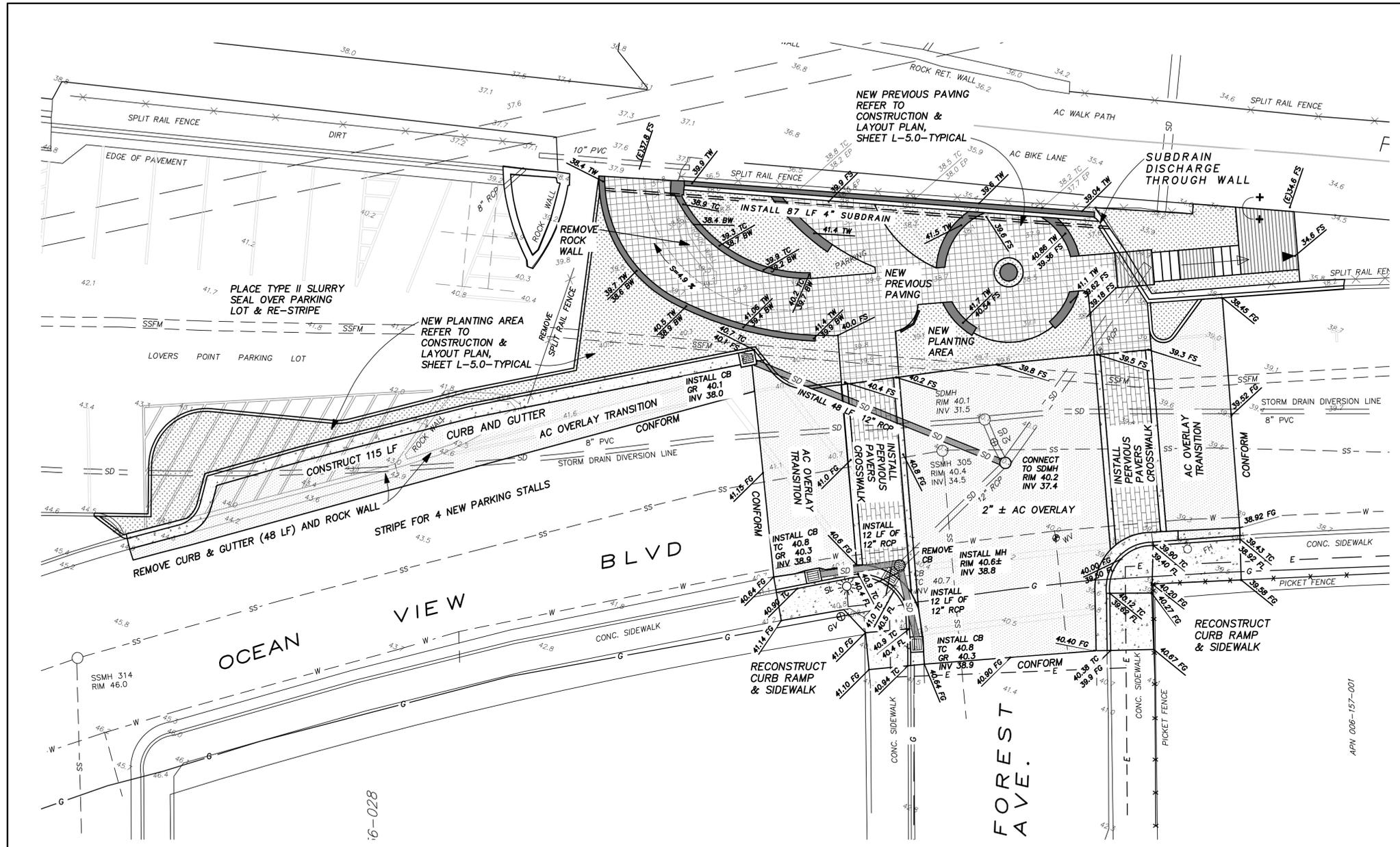
NEAR LOVERS POINT PARK
CITY OF PACIFIC GROVE, CALIFORNIA



W.O. 8398
MARCH 2016
SCALE: 1"=20'

Registered Civil Engineer No. 29411 Date

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LEGEND

- UP SURVEY CONTROL POINT (TOPO PT)
- UTILITY POLE
- MH SEWER OR STORM MANHOLE
- SD — SANITARY SEWER MAIN
- SS — UNDERGROUND STORM DRAIN
- W — WATER MAIN
- FH FIRE HYDRANT
- WV WATER VALVE
- GV GAS VALVE
- XX.X SPOT ELEVATION
- TREE

TOPOGRAPHIC NOTES

- (1) BENCHMARK IS A MAG NAIL, ELEVATION 54.75 FEET AT NORTHWEST CORNER OF THE INTERSECTION OF JEWELL AVE. AND BRIGGS AVE.
- (2) UNDERGROUND UTILITIES, SHOWN ARE BASED ON USA MARKINGS.
- (3) THIS MAP PORTRAYS THE SITE AT THE TIME OF THE SURVEY AND DOES NOT SHOW SOILS OR GEOLOGY INFORMATION, UNDERGROUND CONDITIONS, EASEMENTS, ZONING OR REGULATORY INFORMATION.
- (4) TREE SYMBOLS ARE NOT DRAWN TO SCALE.
- (5) THE DECIMAL PLACE INDICATES THE HORIZONTAL POSITION OF THE SPOT ELEVATION SHOWN.

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NEILL ENGINEERS CORP.



CARMEL, CALIFORNIA

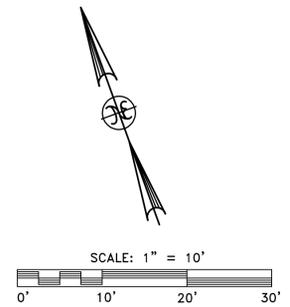
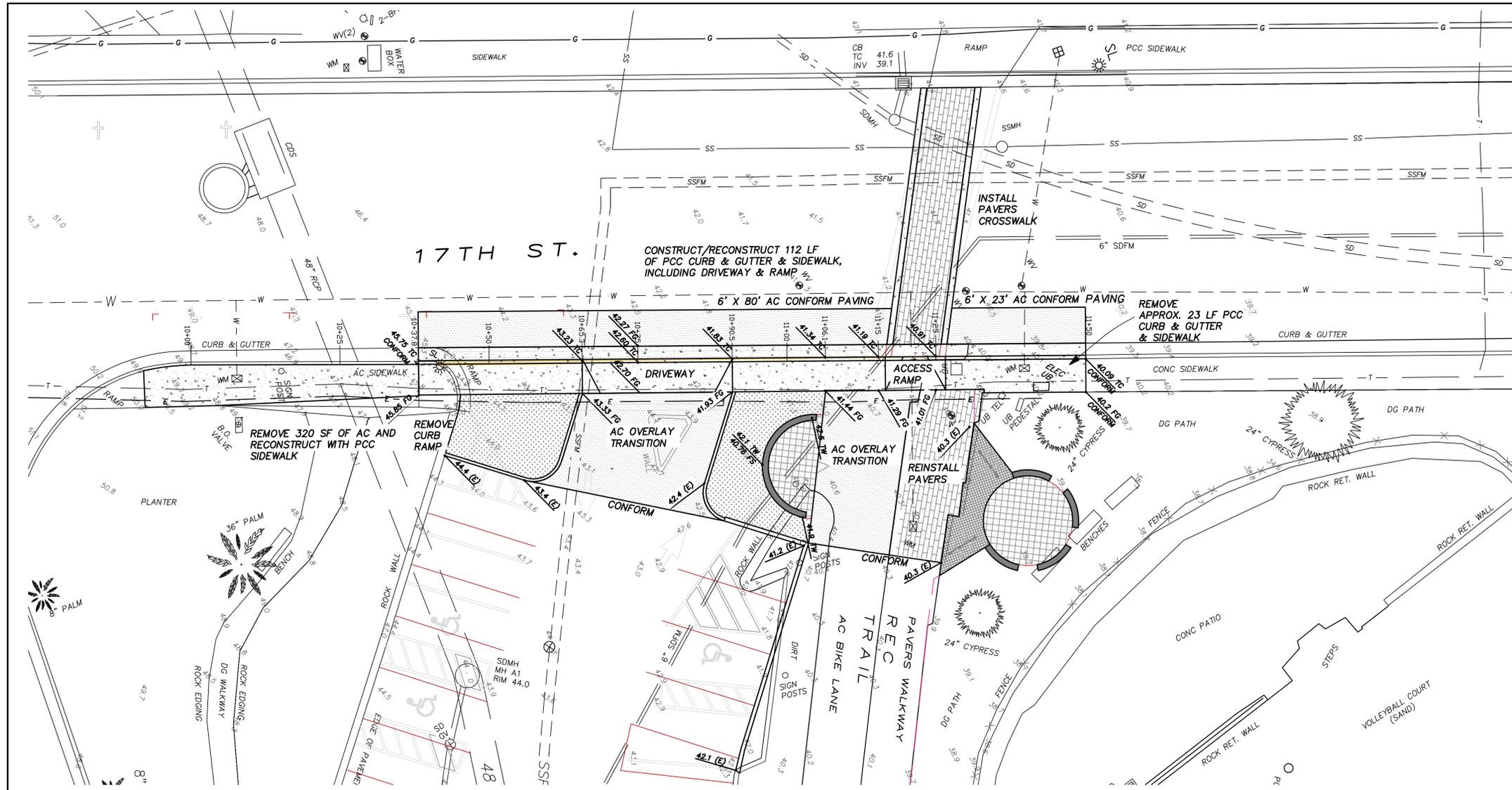
**OCEAN VIEW BLVD.
AND FOREST AVE. IMPROVEMENTS**
REC TRAIL ACCESSIBILITY IMPROVEMENTS
NEAR LOVER'S POINT



CITY OF PACIFIC GROVE, CALIFORNIA

W.O. 8398-16
MARCH 2016
SCALE: 1"=10'

Registered Civil Engineer No. 29411 Date



TOPOGRAPHIC NOTES

- (1) BENCHMARK IS A MAG NAIL, ELEVATION 54.75 FEET AT NORTHWEST CORNER OF THE INTERSECTION OF JEWELL AVE. AND BRIGGS AVE.
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LEGEND

- UP SURVEY CONTROL POINT (TOPO PT)
- UP UTILITY POLE
- MH SEWER OR STORM MANHOLE
- SD — SANITARY SEWER MAIN
- SS — UNDERGROUND STORM DRAIN
- W — WATER MAIN
- FH FIRE HYDRANT
- WM WATER VALVE
- GV GAS VALVE
- xx.x SPOT ELEVATION
- TREE

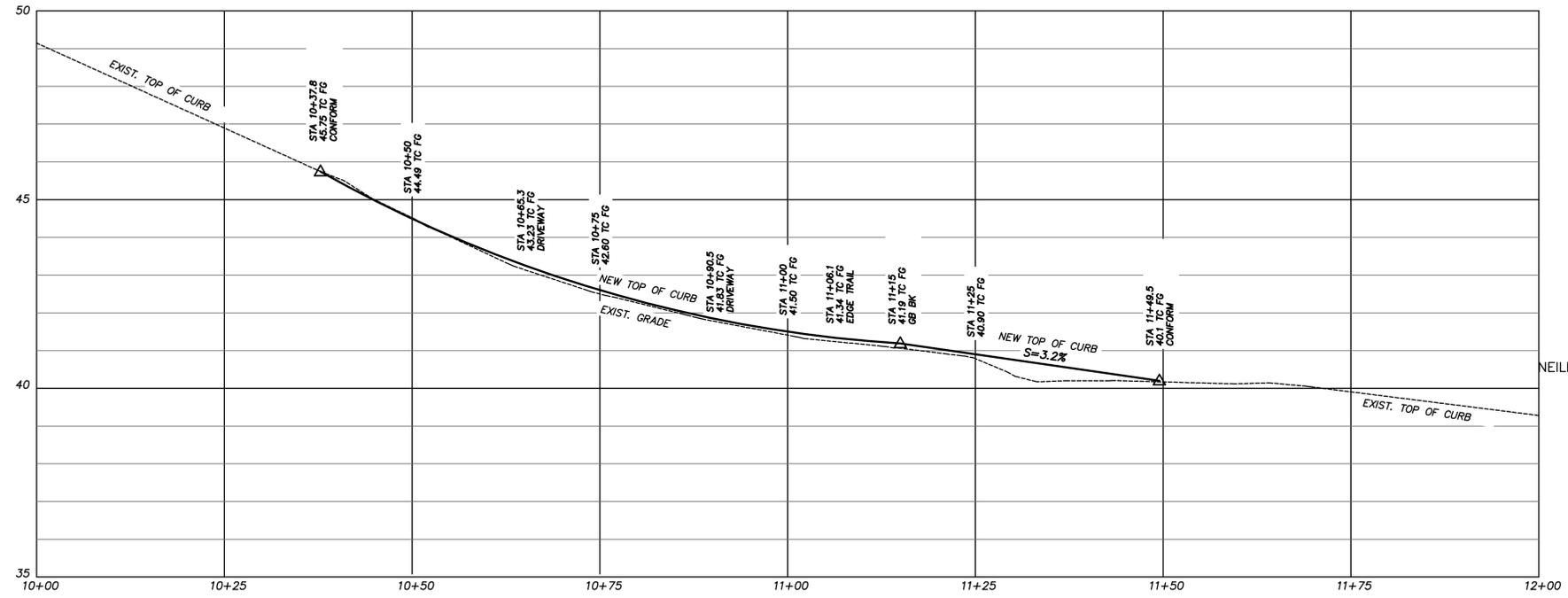


NEILL ENGINEERS CORP.

CARMEL, CALIFORNIA

17th STREET IMPROVEMENTS
REC TRAIL ACCESSIBILITY IMPROVEMENTS
 NEAR LOVER'S POINT

CITY OF PACIFIC GROVE, CALIFORNIA



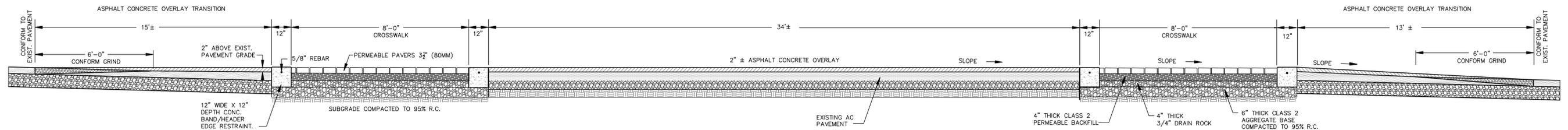
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 1"=2' V

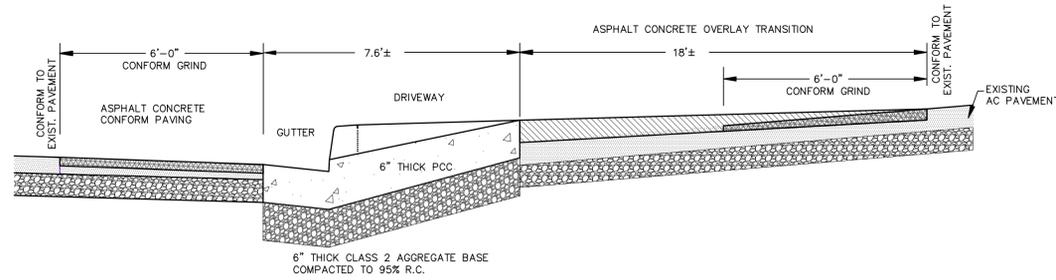
W.O. 8398-16
 MARCH 2016
 SCALE: 1"=10'

Registered Civil Engineer No. 29411 Date

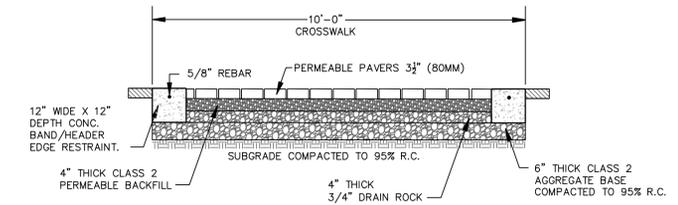
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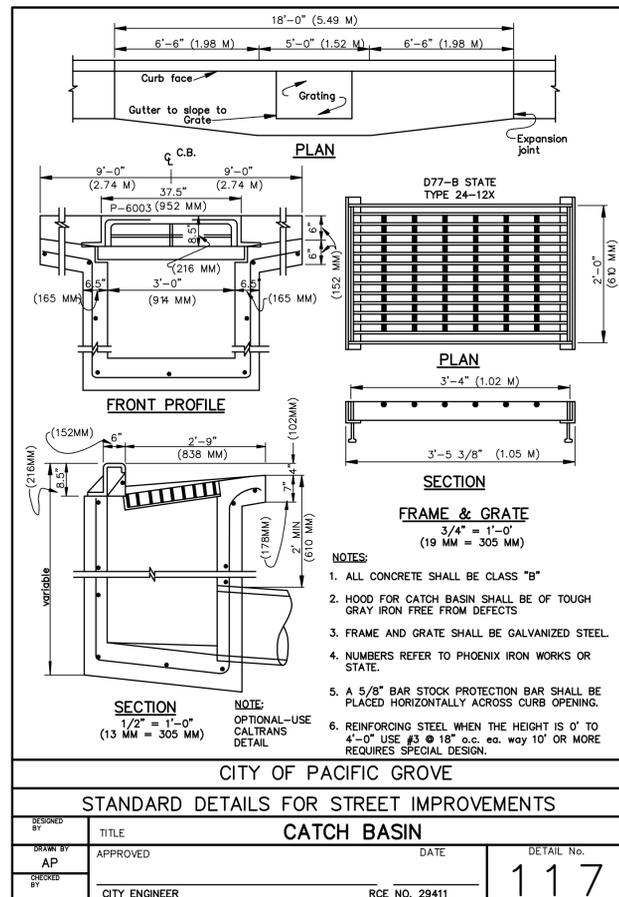
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 FOREST AVE. AND OCEAN VIEW BOULEVARD
 NOT TO SCALE



PARKING ENTRANCE SECTION
 NOT TO SCALE

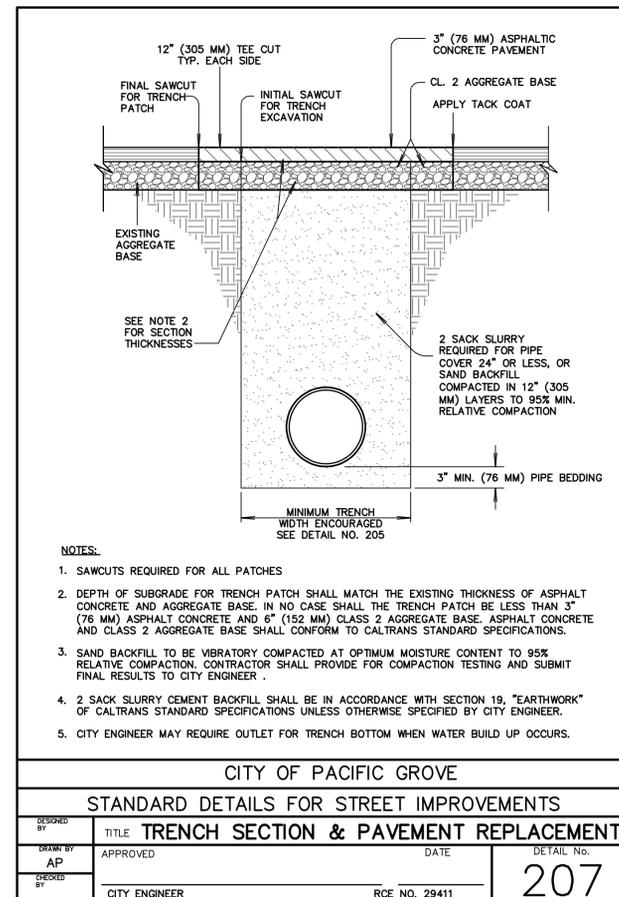


CROSSWALK WITH PAVERS
 NOT TO SCALE



- NOTES:**
1. ALL CONCRETE SHALL BE CLASS "B"
 2. HOOD FOR CATCH BASIN SHALL BE OF TOUGH GRAY IRON FREE FROM DEFECTS
 3. FRAME AND GRATE SHALL BE GALVANIZED STEEL
 4. NUMBERS REFER TO PHOENIX IRON WORKS OR STATE.
 5. A 5/8" BAR STOCK PROTECTION BAR SHALL BE PLACED HORIZONTALLY ACROSS CURB OPENING.
 6. REINFORCING STEEL WHEN THE HEIGHT IS 0' TO 4'-0" USE #3 @ 18" O.C. EQ. EQ. WAY 10' OR MORE REQUIRES SPECIAL DESIGN.

CITY OF PACIFIC GROVE			
STANDARD DETAILS FOR STREET IMPROVEMENTS			
DESIGNED BY	TITLE	DATE	DETAIL No.
AP	CATCH BASIN		117
CHECKED BY	APPROVED	RCE No. 29411	
	CITY ENGINEER		



- NOTES:**
1. SAWCUTS REQUIRED FOR ALL PATCHES
 2. DEPTH OF SUBGRADE FOR TRENCH PATCH SHALL MATCH THE EXISTING THICKNESS OF ASPHALT CONCRETE AND AGGREGATE BASE. IN NO CASE SHALL THE TRENCH PATCH BE LESS THAN 3" (76 MM) ASPHALT CONCRETE AND 6" (152 MM) CLASS 2 AGGREGATE BASE. ASPHALT CONCRETE AND CLASS 2 AGGREGATE BASE SHALL CONFORM TO CALTRANS STANDARD SPECIFICATIONS.
 3. SAND BACKFILL TO BE VIBRATORY COMPACTED AT OPTIMUM MOISTURE CONTENT TO 95% RELATIVE COMPACTION. CONTRACTOR SHALL PROVIDE FOR COMPACTION TESTING AND SUBMIT FINAL RESULTS TO CITY ENGINEER.
 4. 2 SACK SLURRY CEMENT BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 19, "EARTHWORK" OF CALTRANS STANDARD SPECIFICATIONS UNLESS OTHERWISE SPECIFIED BY CITY ENGINEER.
 5. CITY ENGINEER MAY REQUIRE OUTLET FOR TRENCH BOTTOM WHEN WATER BUILD UP OCCURS.

CITY OF PACIFIC GROVE			
STANDARD DETAILS FOR STREET IMPROVEMENTS			
DESIGNED BY	TITLE	DATE	DETAIL No.
AP	TRENCH SECTION & PAVEMENT REPLACEMENT		207
CHECKED BY	APPROVED	RCE No. 29411	
	CITY ENGINEER		

NEILL ENGINEERS CORP.



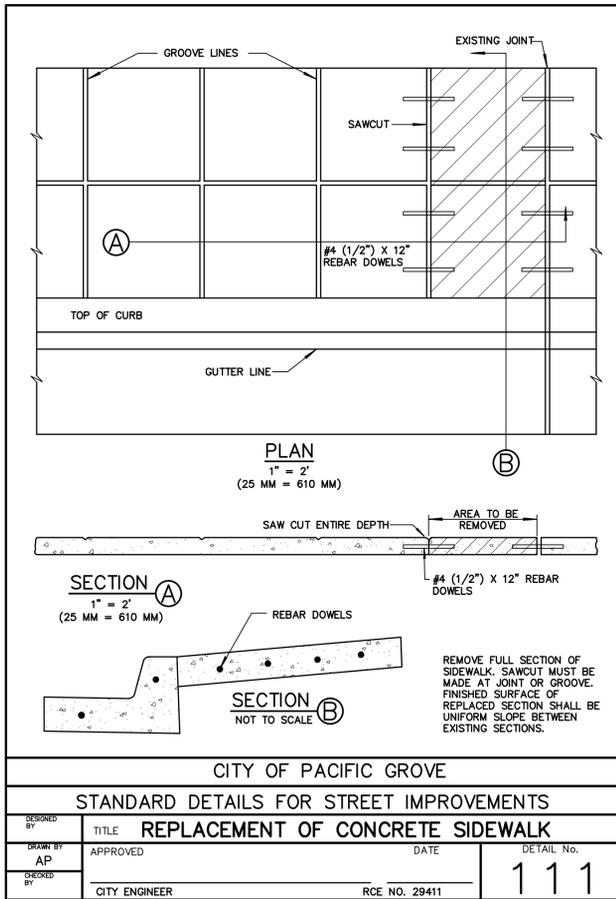
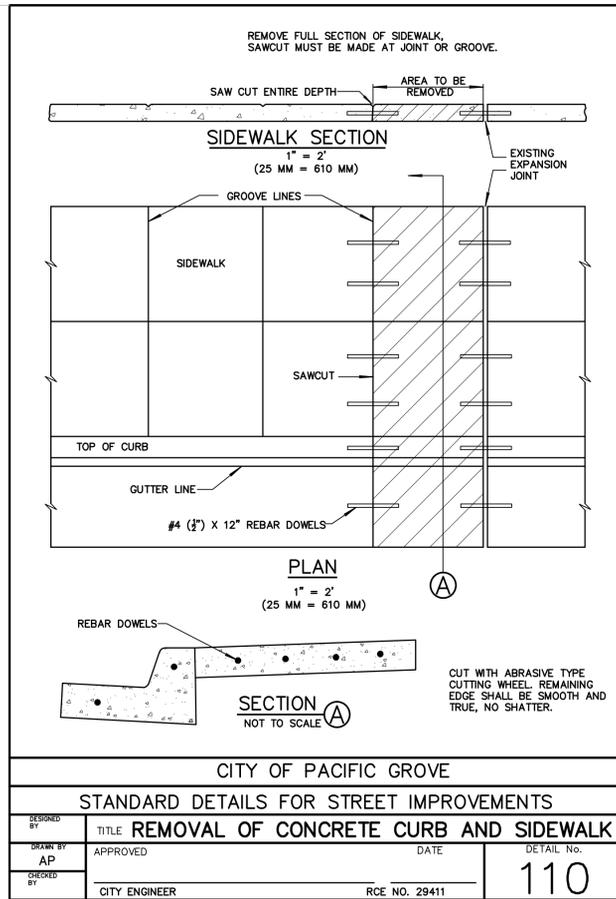
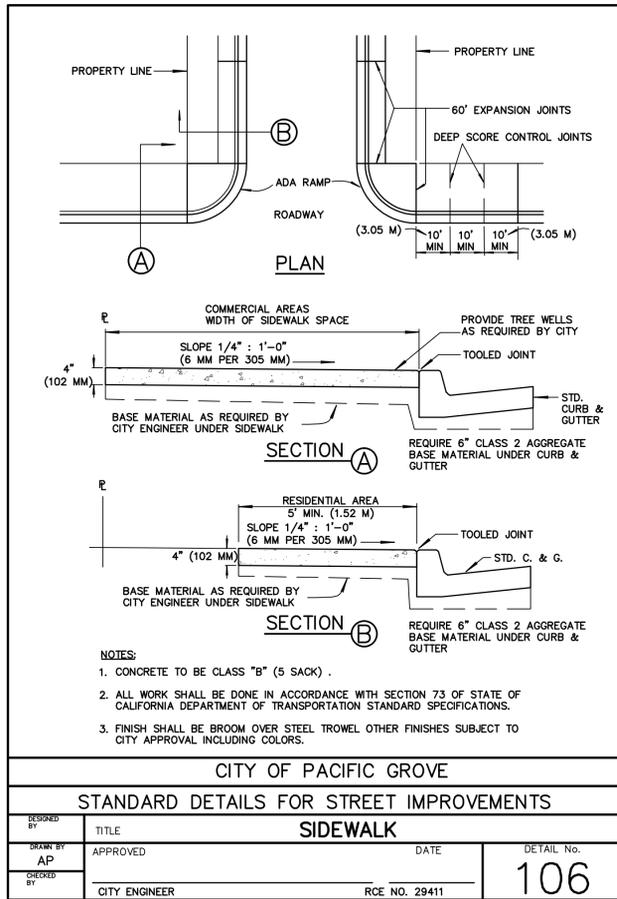
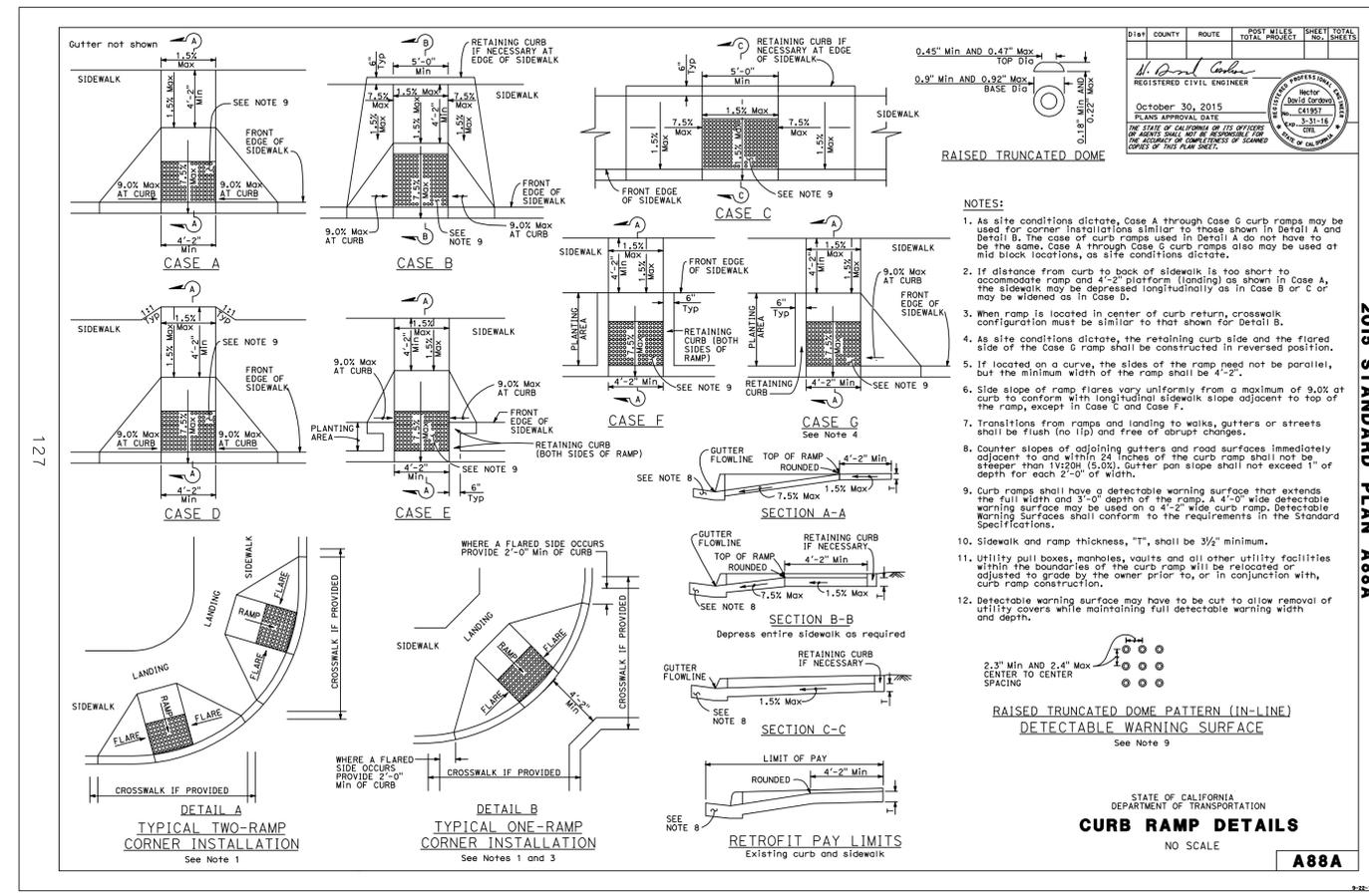
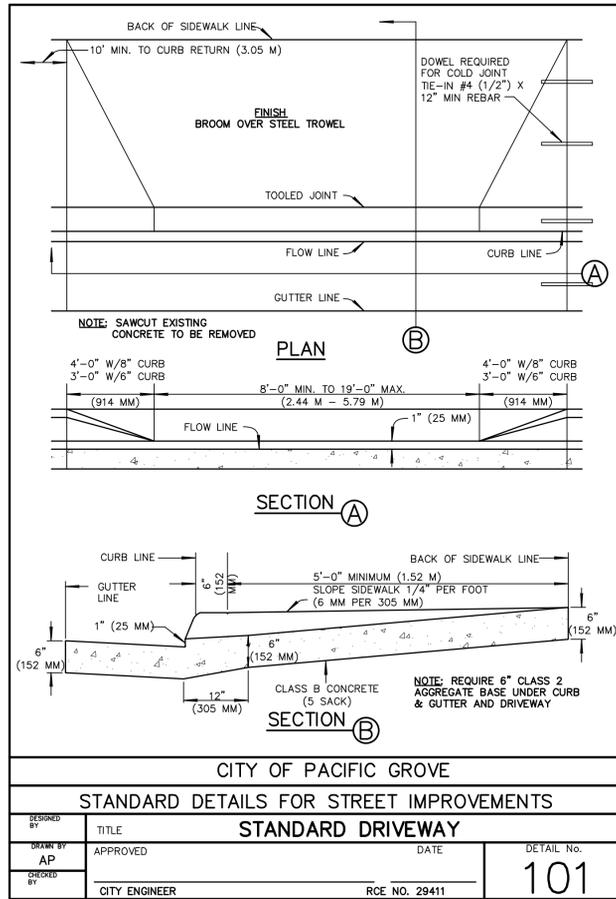
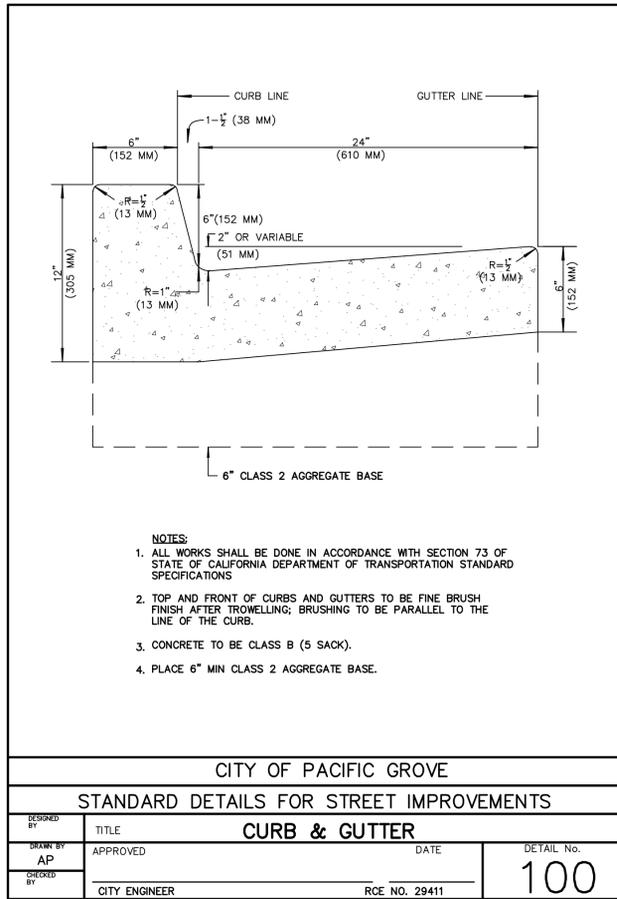
CARMEL, CALIFORNIA

IMPROVEMENTS DETAILS
 REC TRAIL ACCESSIBILITY IMPROVEMENTS
 NEAR LOVER'S POINT
 CITY OF PACIFIC GROVE, CALIFORNIA



W.O. 8398-16
 MARCH 2016
 SCALE: 1"=10'

Registered Civil Engineer No. 29411 Date



NEILL ENGINEERS CORP. CARMEL, CALIFORNIA

17th STREET IMPROVEMENTS
 REC TRAIL ACCESSIBILITY IMPROVEMENTS
 NEAR LOVER'S POINT
 CITY OF PACIFIC GROVE, CALIFORNIA

W.O. 8398-16
 MARCH 2016
 SCALE: 1"=10'

Registered Civil Engineer No. 29411 Date

GENERAL CONSTRUCTION NOTES

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
- CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY AND PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
- CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
- ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS.
- ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM TWO (2) #12s WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
- ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTI-WIRE CIRCUITS IS NOT ALLOWED.
- ALL 120/277V LIGHT SWITCHES AND WALL OCCUPANT SENSORS SHALL HAVE A NEUTRAL INSTALLED TO THE DEVICE BOX EXCEPT WHERE A CONDUIT OR SURFACE RACEWAY SYSTEM IS INSTALLED.
- COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
- CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO (E) UNDERGROUND SYSTEMS (GAS, WATER, TELEPHONE, ELECTRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR DAMAGE TO (E) UNDERGROUND SYSTEMS AS A RESULT OF (N) WORK. REPAIR TO DAMAGED UNDERGROUND SYSTEMS SHALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA EXPENSE TO THE OWNER.
- EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
- WHERE NON-METALLIC SHEATHED CONDUCTORS ARE FOUND, THE CONTRACTOR SHALL REMOVE TO FULLEST EXTENT PER THE GENERAL DEMOLITION NOTES AND REPLACE WITH CONDUIT. METAL CLAD CABLE WILL BE PERMITTED ON A CASE-BY-CASE BASIS ONLY BY WRITTEN APPROVAL FROM THE ARCHITECT.

ELECTRICAL SYMBOLS & ABBREVIATIONS

SYMBOLS & ABBREVIATIONS SHOWN ARE FOR GENERAL USE. DISREGARD THOSE WHICH DO NOT APPEAR ON THE PLANS.

	FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE		SECURITY DOOR CONTACTS		JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES		DETAIL NOTE REFERENCE SYMBOL. SEE ASSOCIATED NOTE ON SAME DETAIL
	EMERGENCY OR NIGHT LIGHT		SECURITY MOTION DETECTOR		MOTOR CONNECTION		F301 FEEDER DESIGNATION. SEE ASSOCIATED NOTE ON SAME DETAIL
	STRIP FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE		CCTV CAMERA		NON-FUSED DISCONNECT SWITCH		1 E3.0 DETAIL NUMBER DETAIL OR SECTION REFERENCE SHEET NUMBER
	LUMINAIRE - RECESSED - SEE SCHEDULE		SECURITY SYSTEM KEYPAD		FUSED DISCONNECT SWITCH; FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT MFG'S NAMEPLATE DATA		1 2 INDICATES QUANTITY OF TELEPHONE OUTLETS
	RECESSED WALL WASHER		DOOR BELL PUSHBUTTON		COMBINATION STARTER/FUSED DISCONNECT SWITCH; FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MFG'S NAMEPLATE DATA		1 2 INDICATES QUANTITY OF DATA OUTLETS
	LUMINAIRE - SURFACE MOUNTED - SEE SCHEDULE		DOOR CHIME WITH LED		MAGNETIC STARTER - NEMA SIZE INDICATED NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED	ABBREVIATIONS	
	LUMINAIRE - POLE OR POST MOUNTED - SEE SCHEDULE		CONVENIENCE RECEPTACLE - DUPLEX *		CIRCUIT BREAKER	A	AMPERE
	LUMINAIRE - WALL MOUNTED SEE SCHEDULE		DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		GROUND ROD WITH GROUNDWELL BOX	AFF	ABOVE FINISHED FLOOR
	BOLLARD OR PATH LIGHT - SEE SCHEDULE		GFCI CONVENIENCE RECEPTACLE - DUPLEX *		GROUND ELECTRODE	ARCH	ARCHITECT
	EXIT LIGHT - DIRECTIONAL ARROWS AS INDICATED - SEE SCHEDULE		GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		NORMALLY OPEN CONTACT	AWG	AMERICAN WIRE GAUGE
	TRACK LIGHTING - SEE SCHEDULE		RECEPTACLE DOUBLE DUPLEX *		NORMALLY CLOSED CONTACT	CB	CABLE TV CIRCUIT BREAKER
	EMERGENCY LIGHT		HALF SWITCHED RECEPTACLE - DUPLEX *		TRANSFORMER - SEE SINGLE LINE FOR SIZE	CB	CIRCUIT BREAKER
	DIGITAL DUAL TECHNOLOGY OCC. SENSOR		SINGLE RECEPTACLE *		PULLBOX	CB	CIRCUIT BREAKER
	LIGHTING CONTROL OCCUPANCY SENSOR CORNER MOUNTED		CONVENIENCE RECEPTACLE - DUPLEX CEILING MOUNTED		FLEX CONDUIT WITH CONNECTION	CB	CIRCUIT BREAKER
	DIMMER ROOM CONTROLLER		LETTER INDICATES DUPLEX HALF CONTROLLED RECEPTACLE *		CONDUIT - UP	CB	CIRCUIT BREAKER
	PLUG LOAD CONTROLLER		LETTER INDICATES DUPLEX FULLY CONTROLLED RECEPTACLE *		CONDUIT - DOWN	CB	CIRCUIT BREAKER
	ROOM LIGHTING CONTROLLER		FLOOR MOUNTED DUPLEX RECEPTACLE		CONDUIT EMERGENCY SYSTEM	CB	CIRCUIT BREAKER
	LIGHTING CONTROL PANEL		FLOOR MOUNTED BOX		CONDUIT - TELEPHONE	CB	CIRCUIT BREAKER
	DIGITAL DAYLIGHT SENSOR		POWER OUTLET - SEE PLANS FOR NEMA TYPE *		CONDUIT - TELEVISION	CB	CIRCUIT BREAKER
	SINGLE POLE SWITCH **		VOICE/DATA WALL OUTLET - INSTALL ABOVE COUNTER - FIELD VERIFY HEIGHT		LOW VOLTAGE WIRING	CB	CIRCUIT BREAKER
	SINGLE POLE SWITCH **, a = CIRCUIT CONTROLLED		DATA WALL OUTLET NEAR CEILING - 12" BELOW FINISHED CEILING		SURFACE METAL OR NON-METALLIC RACEWAY	CB	CIRCUIT BREAKER
	THREE WAY SWITCH **		FLOOR MOUNTED VOICE/DATA OUTLET		CONDUIT - CONCEALED IN WALLS OR CEILING	CB	CIRCUIT BREAKER
	FOUR WAY SWITCH **		TV OUTLET *		CONDUIT - EXISTING	CB	CIRCUIT BREAKER
	MANUAL MOTOR STARTER		INTERIOR SPEAKERS CEILING MOUNTED		CONDUIT - BELOW SLAB OR UNDERGROUND; 3/4" MIN.	CB	CIRCUIT BREAKER
	KEY OPERATED SWITCH **		INTERIOR SPEAKERS WALL MOUNTED		CAPPED OR STUB-OUT CONDUIT	CB	CIRCUIT BREAKER
	LIGHTING DIMMER **		CLOCK +8-0- AFF U.O.N. VERIFY BEFORE INSTALLATION		CONDUIT CONTINUATION	CB	CIRCUIT BREAKER
	DIGITAL ON/OFF SWITCH **		THERMOSTAT - SEE MECHANICAL DRAWINGS		CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE SIZE OTHER THAN #12AWG.	CB	CIRCUIT BREAKER
	DIGITAL DIMMER SWITCH **		PANELBOARD - FLUSH MOUNTED		SHEET NOTE REFERENCE SYMBOL. SEE ASSOCIATED NOTE ON SAME SHEET	CB	CIRCUIT BREAKER
	DIGITAL MULTI SCENE LIGHTING SWITCH **		EQUIPMENT PANEL - FLUSH MOUNTED		SCHEDULE SYMBOL. SEE ASSOCIATED NOTE ON SAME SHEET	CB	CIRCUIT BREAKER
	DIGITAL DUAL TECHNOLOGY WALL OCC. SENSOR **		EQUIPMENT PANEL - SURFACE MOUNTED			CB	CIRCUIT BREAKER
	WALL OCCUPANCY SENSOR **		METER W/ CURRENT TRANSFORMER			CB	CIRCUIT BREAKER
	DOUBLE SWITCHED WALL OCCUPANCY SENSOR **					CB	CIRCUIT BREAKER
	DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR **					CB	CIRCUIT BREAKER
	2-BUTTON DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR **					CB	CIRCUIT BREAKER

LIGHT FIXTURE SCHEDULE

- FIXTURE NOTES:**
- ALL FLUORESCENT/LED LIGHT FIXTURE BALLASTS/DRIVERS SHALL BE ELECTRONIC TYPE, 10% TOTAL HARMONIC DISTORTION MAXIMUM.
 - ALL FLUORESCENT LIGHT FIXTURE LAMPS AND LED LIGHT MODULES SHALL BE ENERGY SAVING 3500° K, 80 CRI MINIMUM, U.O.N. (SEE SPECIFICATIONS FOR MORE INFORMATION).
 - ALL FLUORESCENT BALLASTS AND LED DRIVERS (AND ASSOC. FIXTS.) SHALL HAVE MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH CALIFORNIA ENERGY COMMISSION STANDARDS AND REQUIREMENTS, WHERE SUCH ARE USED IN CONDITIONED SPACES.
 - ALL RECESSED INCANDESCENT LIGHT FIXTURES SHALL BE U.L. APPROVED FOR ZERO CLEARANCE INSULATION COVER WHEN INSTALLED IN INSULATED CEILING.
 - ALL LINEAR FLUORESCENT FIXTURES SHALL BE FURNISHED WITH A DISCONNECTING MEANS COMPLYING WITH C.E.C. 410.130 (G).
 - EXIT SIGNS, EMERGENCY LIGHTS AND LIGHT FIXTURES WITH EMERGENCY BATTERY BACK-UP SHALL SUPPLY A MINIMUM DURATION OF 90 MINUTES OF POWER IN THE EVENT OF A POWER OUTAGE/FAILURE.

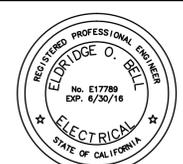
TYPE	DESCRIPTION	LAMPS	MANUFACTURER
A	13"W x 5"H x 4"D RECESSED WALL MOUNTED LED FIXTURE. ONE-PIECE CAST ALUMINUM FACE PLATE WITH BRONZE FINISH, CLEAR TEMPERED GLASS LENS, DIE-CAST MARINE GRADE ALUMINUM JUNCTION BOX, INTEGRAL 120V LED DRIVER.	10.2W 3000°K LED	BEGA-US 33065 SERIES
B	7" DIA. IN-GROUND ADJUSTABLE LED UP-LIGHT. PVC HOUSING WITH CAST BRASS POUR COLLAR, CAST BRASS, NATURAL FINISH, FACE PLATE WITH TEMPERED GLASS LENS, MACHINED ANODIZED ALUMINUM FIXTURE WITH STAINLESS STEEL AIMING BRACKET, BK LIGHTING TRANSFORMER TR60.	7W 3000°K LED	BK LIGHTING ADJUSTABLE WELL STAR
C	3"W x 5"H RECESSED LED STRIP LIGHT. HAIRLINE GRADE STAINLESS STEEL FACE PLATE, INTEGRAL 120V LED DRIVER.	3.9W 3000°K LED	WAC LIGHTING LEDme STEP LIGHT WL-LED 200 SERIES

APPLICABLE CODES & STANDARDS

- CODES:**
- 2013 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1.
 - 2013 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2012 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
 - 2013 CALIFORNIA RESIDENTIAL CODE C.C.R., TITLE 24, PART 2.5 BASED ON THE 2012 INTERNATIONAL RESIDENTIAL CODE WITH CALIFORNIA AMENDMENTS.
 - 2013 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2011 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
 - 2013 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE 2012 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.
 - 2013 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2012 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
 - 2013 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
 - 2013 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2012 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
 - 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
 - 2013 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
 - TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
 - NATIONAL FIRE ALARM CODE (NFPA 72) 2013.
 - CITY OF PACIFIC GROVE ORDINANCES, CODES, AND REGULATIONS.
- STANDARDS:**
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
 - ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
 - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
 - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
 - NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
 - UNDERWRITER LABORATORIES (UL)
 - CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

SHEET INDEX

- | | |
|-------|---|
| E-1.0 | SYMBOLS, ABBREVIATIONS, LIGHT FIXTURE SCHEDULE, CODES, STANDARDS & SHEET INDEX. |
| E-1.3 | CALIFORNIA ENERGY COMPLIANCE TITLE 24 (BUILDING EXTERIOR). |
| E-2.0 | ELECTRICAL SITE PLAN. |
| E-2.1 | PARTIAL ELECTRICAL SITE PLAN. |
| E-3.0 | ELECTRICAL DETAILS. |



AURUM CONSULTING ENGINEERS
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Monterey, CA 93940
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REVISION: DATE:

PROJECT NAME:

REC TRAIL ACCESSIBILITY IMPROVEMENTS

Pacific Grove, CA

OWNER:
City of Pacific Grove
Ocean View Blvd. between
17th St. & Forest Ave.

ISSUANCE:
PERMIT SET

DATE: May 20, 2016
DRAWN BY: CADD
CHECKED BY: M.P.
PROJECT #: 74.15
SHEET NAME & NUMBER:

Cover Sheet

E-1.0

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 (REG. NRCC-LTO-01-E (Revised 09/15))
 CERTIFICATE OF COMPLIANCE
 NRCC-LTO-01-E
 Outdoor Lighting
 Project Name: Rec. Trail Accessibility Improvements Date Prepared: 5/20/2016 (Page 2 of 4)

Project Address: Ocean View Blvd, Pacific Grove, CA Total Illuminated Hardscape Area: 2,398

General Information
 Phase of Construction: New Construction Addition Alteration
 Outdoor Lighting Zone (OLZ) OLZ-1 OLZ-2 OLZ-3 OLZ-4
 I have confirmed with the AHJ which OLZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

STATE OF CALIFORNIA
OUTDOOR LIGHTING
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 NRCC-LTO-01-E
 Outdoor Lighting
 Project Name: Rec. Trail Accessibility Improvements Date Prepared: 5/20/2016 (Page 2 of 4)

Schedule of luminaires exempt from the outdoor lighting power requirements in §140.7
 Name or Symbol Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 (REG. NRCC-LTO-01-E (Revised 09/15))
 CERTIFICATE OF COMPLIANCE
 NRCC-LTO-01-E
 Outdoor Lighting
 Project Name: Rec. Trail Accessibility Improvements Date Prepared: 5/20/2016 (Page 3 of 4)

A. OUTDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule		Installed Watts					Location	Cutoff	Field Inspector	
A	B	C	D	E	F	G	H	I	J	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire	How wattage was determined	Number of luminaires	Total Watts	Primary function area in which these luminaires are installed	Height (ft)	Initial	Final	
A	10.2w LED	11.0	0	7	77	Pedestrian Hardscape		<input type="checkbox"/>	<input type="checkbox"/>	
B	7x4 LED	7.0	0	14	98	Pedestrian Hardscape		<input type="checkbox"/>	<input type="checkbox"/>	
C	3.9w LED	4.0	0	2	8	Pedestrian Hardscape		<input type="checkbox"/>	<input type="checkbox"/>	

INSTALLED WATTS PAGE TOTAL: 99 Enter sum total of all pages (Sum Total INSTALLED Outdoor lighting wattage) into NRCC-LTO-01-E, Page 1

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 (REG. NRCC-LTO-01-E (Revised 09/15))
 CERTIFICATE OF COMPLIANCE
 NRCC-LTO-01-E
 Outdoor Lighting
 Project Name: Rec. Trail Accessibility Improvements Date Prepared: 5/20/2016 (Page 4 of 4)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I, certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: J. Elias Cosio
 Signature Date: 5/20/2016
 Company: Aurum Consulting Engineers
 License: E17789
 Address: 60 Garden Ct Suite 210
 City/State/Zip: Monterey, CA 93940
 Phone: 831-646-3330

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
 Responsible Designer Name: Eldridge O. Bell
 Signature Date: 5/20/2016
 Company: Aurum Consulting Engineers
 License: E17789
 Address: 60 Garden Ct Suite 210
 City/State/Zip: Monterey, CA 93940
 Phone: 831-646-3330

LIGHTING COMPLIANCE DOCUMENTS (check box for each document included)
 For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.
 NRCC-LTO-01-E Certificate of Compliance
 NRCC-LTO-02-E Outdoor Lighting Controls Certificate of Compliance
 NRCC-LTO-03-E Outdoor Lighting Power Allowance Certificate of Compliance

Summary of Allowed Outdoor Lighting Power

	Watts
1. Sum Total ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 =	1,183
2. Sum Total INSTALLED Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3 =	99

Declaration of Required Installation Certificates – Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)
 NRCC-LTO-01-E - Must be submitted for all buildings Field Inspector
 NRCC-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. Field Inspector

Declaration of Required Certificates of Acceptance – Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)
 NRCC-LTO-02-A - Must be submitted for outdoor lighting controls. Field Inspector

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

Schedule of luminaires exempt from the cutoff requirements in §130.2(b)
 Name or Symbol Description of exempt luminaire in accordance with the exemptions

Schedule of luminaires exempt from the outdoor lighting control requirements in §130.2(c)
 Name or Symbol Description of exempt luminaire in accordance with the exemptions

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2015

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2015

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 (REG. NRCC-LTO-01-E (Revised 09/15))
 CERTIFICATE OF COMPLIANCE
 NRCC-LTO-01-E
 Outdoor Lighting Controls
 Project Name: Rec. Trail Accessibility Improvements Date Prepared: 5/20/2016 (Page 1 of 3)

The NRCC-LTO-02-E shall be used to document all mandatory outdoor lighting controls that are applicable to the project.

Mandatory Outdoor Lighting Control Declaration Statements
 Check all that apply:
 Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 24 Appliance Efficiency Regulations in accordance with §110.9(a).
 Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An installation Certificate of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)
 All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.1.
 Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)(5)
 All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
 All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Backlight, Uplight, and Glare (collectively referred to as "BUG") in accordance with Section 130.2(b)
 All installed outdoor lighting shall be controlled by a photocell or outdoor astronomical time-switch control in accordance with Section 130.2(c)(1)
 All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)(2)
 All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)(3)
 For Outdoor Sales Frontage, Outdoor Sales Lots, and Outdoor Sales Canopies lighting, an automatic lighting control in accordance with Section 130.2(c)(4)
 For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control in accordance with Section 130.2(c)(5)
 Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NAT.8

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 (REG. NRCC-LTO-01-E (Revised 09/15))
 CERTIFICATE OF COMPLIANCE
 NRCC-LTO-01-E
 Outdoor Lighting Controls
 Project Name: Rec. Trail Accessibility Improvements Date Prepared: 5/20/2016 (Page 2 of 3)

MANDATORY OUTDOOR LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Outdoor Lighting Control Schedule		Standards Complying With (✓ if all that apply, or enter "E" if Exempted)										Field Inspector	
A	B	C	D	E	F	G	H	I	N	O	Initial	Final	
Location and Application of Luminaires being controlled	Type/Description of Lighting Control (i.e. motion sensor, photocell, outdoor astronomical time-switch control, centralized time-based zone lighting control)	# of Units	§110.9(a)	§110.9(b)	§110.9(c)	§110.9(d)	§110.9(e)	§110.9(f)	§110.9(g)	§110.9(h)	§110.9(i)	§110.9(j)	
See sheet E-2.1 for location	Lighting Time Clock	1	x	x	x						<input type="checkbox"/>	<input type="checkbox"/>	

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 (REG. NRCC-LTO-01-E (Revised 09/15))
 CERTIFICATE OF COMPLIANCE
 NRCC-LTO-01-E
 Outdoor Lighting Controls
 Project Name: Rec. Trail Accessibility Improvements Date Prepared: 5/20/2016 (Page 3 of 3)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I, certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: J. Elias Cosio
 Signature Date: 5/20/2016
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 License: E17789
 Address: 60 Garden Ct Suite 210
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 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
 Responsible Designer Name: Eldridge O. Bell
 Signature Date: 5/20/2016
 Company: Aurum Consulting Engineers
 License: E17789
 Address: 60 Garden Ct Suite 210
 City/State/Zip: Monterey, CA 93940
 Phone: 831-646-3330

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
 (REG. NRCC-LTO-01-E (Revised 09/15))
 CERTIFICATE OF COMPLIANCE
 NRCC-LTO-01-E
 Outdoor Lighting Power Allowances
 Project Name: Rec. Trail Accessibility Improvements Date Prepared: 5/20/2016 (Page 1 of 4)

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY
 1. General Nonresidential Lighting Power Allowance (Sum Total from Section B of NRCC-LTO-03-E) 1. 1,183
 2. Additional Specific "Use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E.

PER APPLICATION from Section C-1	PER UNIT LENGTH (SALES FRONTAGE) from Section C-2	PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3	PER SPECIFIC AREA from Section C-4	Sum Total ALLOWED Outdoor Lighting Wattage (add rows 1 and 2)
0	0	0	0	0
				1,183

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area	Area Wattage Allowance (AWA)		Linear Wattage Allowance (LWA)				Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
	A	B	E	F	G	H		
Name of area	Estimated Hardscape Area	AWA Per Square Foot	AWA (A x B)	Perimeter Length of General Hardscape	LWA per Linear Foot	LWA (E x F)	AWA (Watts)	D + G + H
Pedestrian Hardscape	2,398	0.090	216	328	0.600	197	770	1,183

TOTAL 1,183

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
 (REG. NRCC-LTO-01-E (Revised 09/15))
 CERTIFICATE OF COMPLIANCE
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 Outdoor Lighting Power Allowances
 Project Name: Rec. Trail Accessibility Improvements Date Prepared: 5/20/2016 (Page 2 of 4)

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
 (REG. NRCC-LTO-01-E (Revised 09/15))
 CERTIFICATE OF COMPLIANCE
 NRCC-LTO-03-E
 Outdoor Lighting Power Allowances
 Project Name: Rec. Trail Accessibility Improvements Date Prepared: 5/20/2016 (Page 3 of 4)

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
 (REG. NRCC-LTO-01-E (Revised 09/15))
 CERTIFICATE OF COMPLIANCE
 NRCC-LTO-03-E
 Outdoor Lighting Power Allowances
 Project Name: Rec. Trail Accessibility Improvements Date Prepared: 5/20/2016 (Page 4 of 4)

C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS
 The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used.
 Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances.

C-1. WATTAGE ALLOWANCE PER APPLICATION - Table 140.7-B
 Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations, and Emergency Vehicle Facilities; Drive Up Windows; Vehicle Service Station Uncovered Fuel Dispenser
 If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
Name of Location for which allowance is claimed	Number of qualifying locations	Wattage Allowance per qualifying location	Allowed Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)

Sum total allowance per application on this site: 0

C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B
 If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
Name of Location for which allowance is claimed	Linear Feet of Sales Frontage	Wattage Allowance per linear foot	Allowed Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)

Sum total allowance for sales frontage on the site: 0

C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) - Table 140.7-B
 Allowance for the total site illuminated hardscape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.
 If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
Name of area for which ornamental allowance is claimed	Square Feet of Hardscape	Wattage Allowance per square foot	Allowed Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)

Sum total allowance for ornamental lighting on the site: 0

C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B
 Allowances for Building Facades, Outdoor Sales Lots, Vehicle Service Station Hardscape, Vehicle Service Station Canopies, Sales Canopies, Non-sales Canopies, Guard Stations, Student Pick-up/Drop-off zone, Outdoor Dining, Special Security Lighting for Retail Parking and Pedestrian Hardscape.
 If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
Name of Location for which allowance is claimed	Illuminated Area of Application	Wattage Allowance per square foot	Allowed Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)

Sum total allowance for specific area on the site: 0

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I, certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: J. Elias Cosio
 Signature Date: 5/20/2016
 Company: Aurum Consulting Engineers
 License: E17789
 Address: 60 Garden Ct Suite 210
 City/State/Zip: Monterey, CA 93940
 Phone: 831-646-3330

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
 Responsible Designer Name: Eldridge O. Bell
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REVISION: DATE:

PROJECT NAME:
REC TRAIL ACCESSIBILITY IMPROVEMENTS
 Pacific Grove, CA

OWNER:
 City of Pacific Grove
 Ocean View Blvd. between
 17th St. & Forest Ave.

ISSUANCE:
 PERMIT SET

DATE: May 20, 2016
 DRAWN BY: CADD
 CHECKED BY: M.P.
 PROJECT #: 74.15
 SHEET NAME & NUMBER:

California Energy Compliance T-24 (Exterior) E-1.3

PROFESSIONAL ENGINEER
 ELDRIDGE O. BELL
 No. E17789
 EXP. 6/30/16
 ELECTRICAL
 STATE OF CALIFORNIA

AURUM CONSULTING ENGINEERS
 MONTEREY BAY, INC.
 Project No. 15340.00
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SHEET NOTES

- IN EXISTING DISTRIBUTION PANEL INSTALL (2) NEW 20/1 BREAKERS; MATCH EXISTING MANUFACTURER TYPE
 - (1) 120V, 20A CIRCUIT FOR IRRIGATION CONTROLLER
 - (1) 120V, 20A CIRCUIT FOR LIGHTING
- 1" CONDUIT WITH 4 #10 & 1 #10 GND.

NOTES:

- CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.
- ALL WIRING FOR SITE LIGHTING SHALL BE #10 AWG MINIMUM, U.O.N.



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STAMP:



CONSULTANTS:

Civil Engineer:



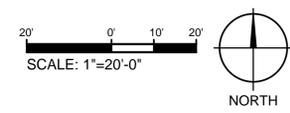
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Electrical Engineer:



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REVISION: DATE:



PROJECT NAME:

**REC TRAIL
 ACCESSIBILITY
 IMPROVEMENTS**

Pacific Grove, CA

OWNER:

City of Pacific Grove
 Ocean View Blvd. between
 17th St. & Forest Ave.

ISSUANCE:

PERMIT SET

DATE: May 20, 2016

DRAWN BY: CADD

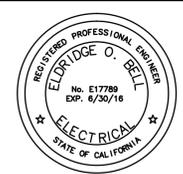
CHECKED BY: M.P.

PROJECT #: 74.15

SHEET NAME & NUMBER:

**Electrical
 Site Plan**

E-2.0



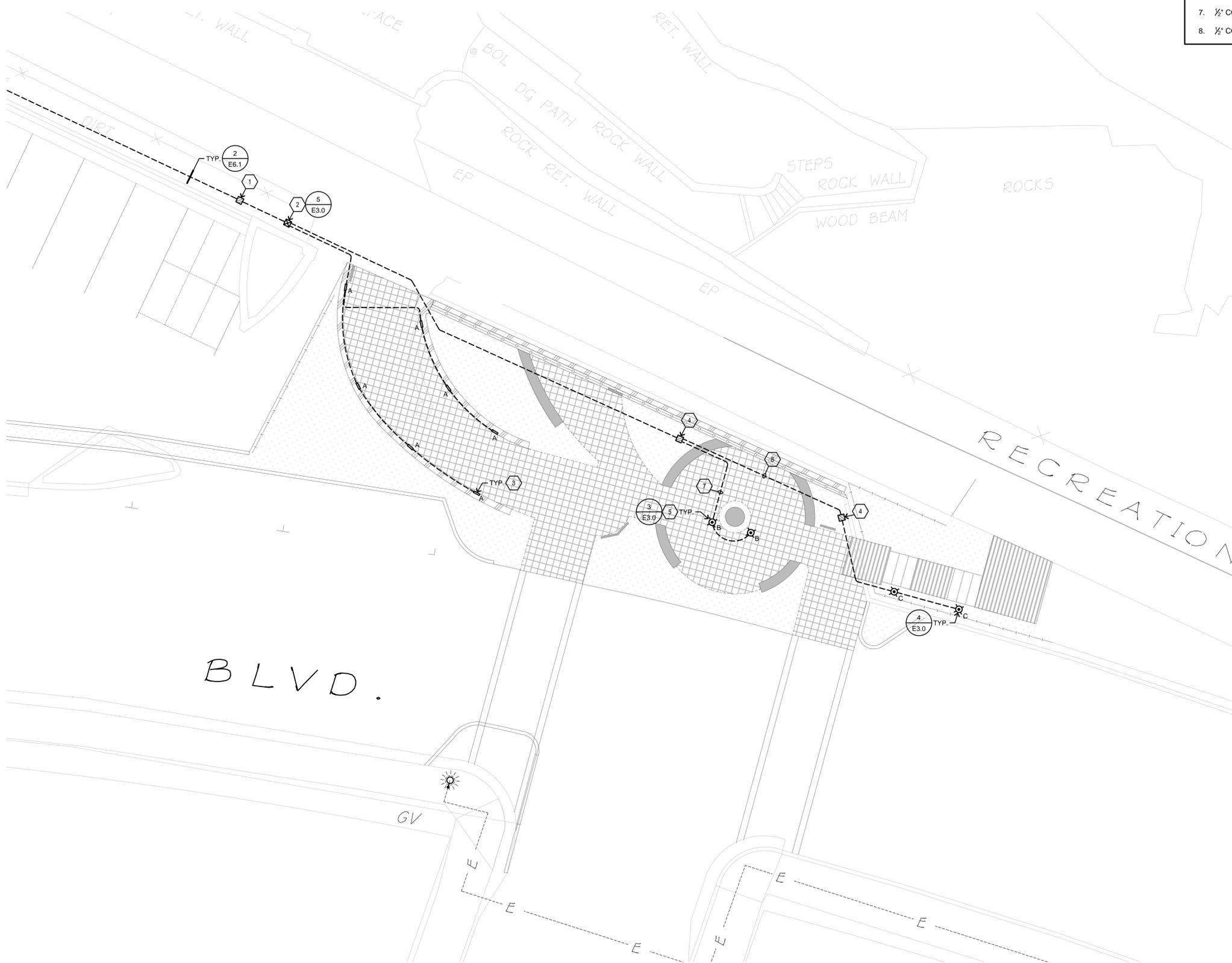
AURUM CONSULTING
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 MONTEREY BAY, INC.

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SHEET NOTES

1. CHRISTY N16 PULLBOX WITH LID LABELED "ELECTRICAL".
2. HOFFMAN 18" x 18" x 10" NEMA 3R CONTINUOUS HINGE COVER ENCLOSURE WITH PADLOCK HASP. HOFFMAN PART NUMBER 181810 RHC. FOR LIGHTING TIME CLOCK SEE 6/E3.0 AND 120V TO 12V TRANSFORMER. FOR FIXTURE TYPE "B" SEE FIXTURE SCHEDULE FOR TRANSFORMER REQUIREMENTS.
3. INSTALL FIXTURE TYPE "A" 16" ABOVE FINISHED GRADE TO BOTTOM OF FIXTURE.
4. CHRISTY N16 PULLBOX WITH LID LABELED "LIGHTING".
5. VERIFY EXACT LOCATION OF FIXTURE TYPE "B" WITH LANDSCAPE DESIGNER PRIOR TO INSTALLATION.
6. 1" CONDUIT WITH 4 #10 & 1 #10 GND.
 - (1) PAIR #10 FOR TYPE "B" FIXTURES, 12VAC.
 - (1) PAIR #10 FOR TYPE "C" FIXTURE, 120VAC AND 1 #10 GND.
7. 1/2" CONDUIT WITH 2 #10 FOR FIXTURE TYPE "B".
8. 1/2" CONDUIT WITH 3 #10 FOR 120VAC LIGHTING CIRCUIT TO FIXTURE TYPE "C".



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STAMP:



CONSULTANTS:

Civil Engineer:



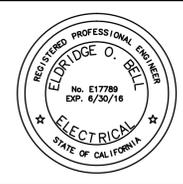
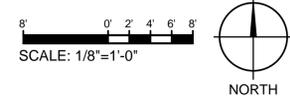
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 phone: (831) 624-2100
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Electrical Engineer:



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REVISION: DATE:



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PROJECT NAME:

REC TRAIL ACCESSIBILITY IMPROVEMENTS
 Pacific Grove, CA

OWNER:

City of Pacific Grove
 Ocean View Blvd. between
 17th St. & Forest Ave.

ISSUANCE:

PERMIT SET

DATE: May 20, 2016

DRAWN BY: CADD

CHECKED BY: M.P.

PROJECT #: 74.15

SHEET NAME & NUMBER:

Partial Electrical Site Plan

E-2.1



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STAMP:



CONSULTANTS:

Civil Engineer:

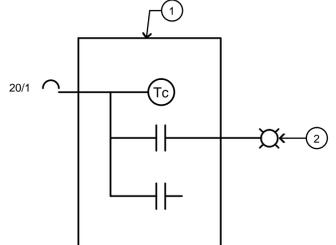


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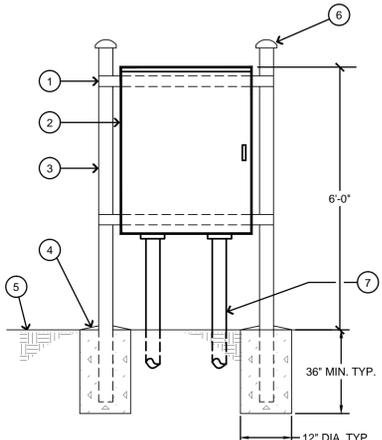
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- DETAIL NOTES:
1. ASTRONOMIC TIMELOCK, 2-CHANNEL 20A N.O. RATED CONTACTS, RESERVE POWER TORK DZS200BP.
 2. EXTERIOR LIGHTS.

6 EXTERIOR LIGHTING CONTROL

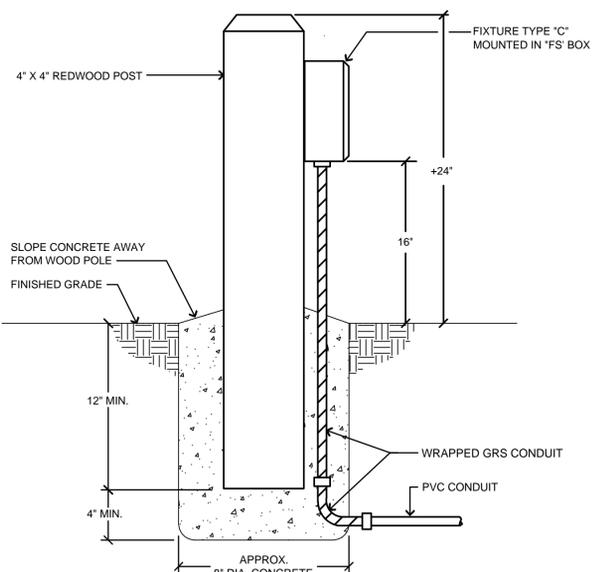
NO SCALE



- DETAIL NOTES:
1. UNISTRUT P1000 (TYP. 2 PLACES) FILE AND SMOOTH ALL SHARP EDGES
 2. HOFFMAN ENCLOSURE FOR INSTALLATION OF TIME CLOCK FOR LIGHTING AND 120V TO 12V TRANSFORMER FOR FIXTURE TYPE "E"; SEE FIXTURE SCHEDULE FOR REQUIREMENTS. IRRIGATION CONTROLLER TO BE MOUNTED ON BACK OF ENCLOSURE.
 3. 3" GALVANIZED STEEL PIPE (TYP. 2)
 4. CONC. BASE, SLOPE AWAY FROM PIPE, TYP.
 5. FINISHED GRADE
 6. THREADED STEEL CAP (TYP.)
 7. CONDUITS, SEE PLANS FOR QUANTITIES, (TYP.)

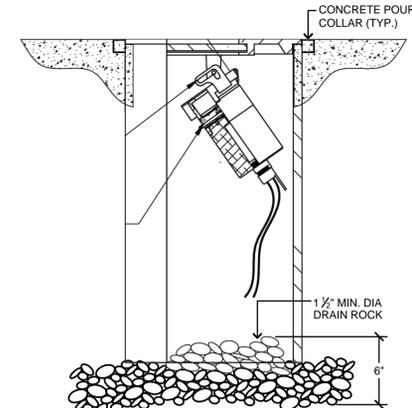
5 MOUNTING DETAIL

NO SCALE



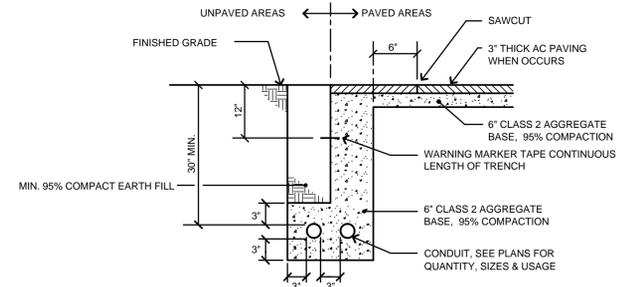
4 POST MOUNTED FIXTURE TYPE "C"

NO SCALE



3 FIXTURE TYPE "B"

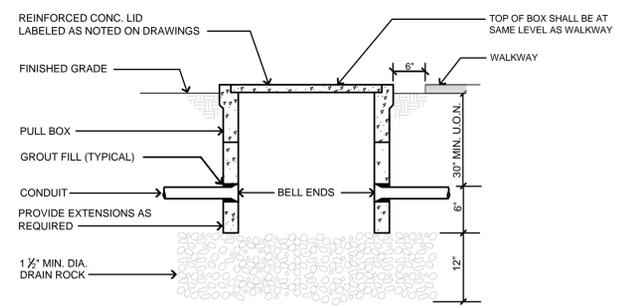
NO SCALE



- NOTES:
1. SAW CUT, TRENCH & BACKFILL FOR (N) CONDUITS. PATCH WALKWAY TO MATCH (E) SURROUNDING SURFACES. CARE SHALL BE TAKEN TO PROTECT EXISTING TREES. RESEED OR RESOD (E) DISTURBED PLANTED AREAS TO ARCHITECT'S SATISFACTION.
 2. BASE MATERIAL TO BE REPLACED TO THE DEPTH OF EXISTING BASE AND COMPACTED TO A MIN. 95% RELATIVE COMPACTION. IF APPROVED, A.C. MAY BE SUBSTITUTED FOR BASE MATERIAL WHEN USED AS BACKFILL, CLASS 100-E-100 P.C.C. MAY BE SUBSTITUTED FOR BASE MATERIAL.
 3. COORDINATE WORK WITH LANDSCAPE DRAWINGS AND LANDSCAPE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2 TYPICAL TRENCH SECTION

NO SCALE



1 TYPICAL PULLBOX DETAIL

NO SCALE

PROJECT NAME:

REC TRAIL ACCESSIBILITY IMPROVEMENTS

Pacific Grove, CA

OWNER:

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Ocean View Blvd. between
17th St. & Forest Ave.

ISSUANCE:

PERMIT SET

DATE: May 20, 2016

DRAWN BY: CADD

CHECKED BY: M.P.

PROJECT #: 74.15

SHEET NAME & NUMBER:

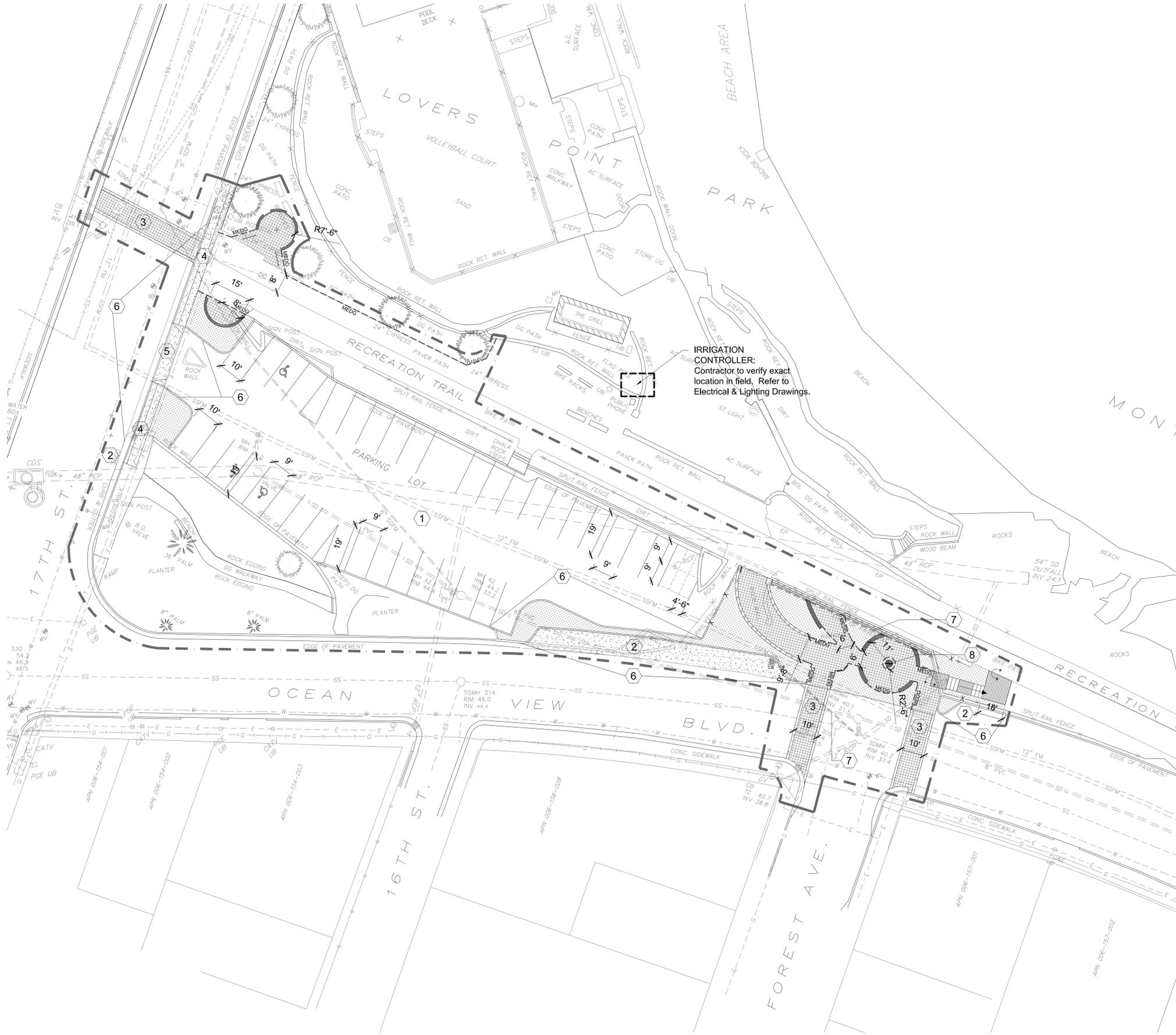
Electrical Details

E-3.0



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IRRIGATION CONTROLLER:
Contractor to verify exact location in field. Refer to Electrical & Lighting Drawings.

CONSTRUCTION PLAN LEGEND

- Limit of Work Line
- [Pattern] Concrete or AC Paving: See Civil Drawings
- [Pattern] Pervious Pavers, Type 1: Pedestrian load with metal edge restraint. See Detail 1/L-1.1
- [Pattern] Decking, including deck staircase: See Detail
- [Pattern] Rock Seat Wall: See Detail 4/L-1.1
- [Pattern] Retaining Wall: See Detail 3/L-1.1
- [Symbol] Split Rail Fence: See Detail 2/L-1.1
- [Symbol] Decorative Guardrail: See Detail 7/L-1.1
- [Symbol] CB Catch Basin: See Civil Drawings
- [Symbol] MEDG Metal Edging: See Detail 1/L-2.1
- [Pattern] Planting Area: See Planting Plan
- [Symbol] Meet and match existing grade: See Civil Drawings
- [Symbol] Bicycle Rack, Typ of 2: See Detail 6/L-1.1
- [Symbol] Directional or Educational Signage: See Detail 5/L-1.1

CONSTRUCTION PLAN REFERENCE NOTES

- 1 Parking lot to receive new slurry seal and striping. See Civil Drawings.
- 2 New Parallel Parking Striping. See Civil Drawings.
- 3 Pedestrian Crosswalks: Pervious paving for vehicular traffic with concrete band edging. See Civil Drawings.
- 4 New Sidewalk. See Civil Drawings.
- 5 New Standard Driveway. See Civil Drawings.
- 6 New Curb and Gutter. See Civil Drawings.
- 7 New Drain Pipe. See Civil Drawings.
- 8 Statue on Concrete Base: Design to be determined. Statue estimated to be 3' Dia. at the base and 6' Max height. To commemorate a historical figure or an element in nature. Material to be bronze or similar. To be sitting on a concrete base, design to be determined, reinforcement per Structural Engineer.

CONSTRUCTION PLAN GENERAL NOTES

1. Walking surfaces shall comply with CBC 1124B Ground and Floor Surfaces. Finish shall be non-slip, see Civil Drawings.
2. Curb ramps, including detectable warning surfaces, shall be in compliance with CBC 1127B.5 Curb Ramps, see Civil Drawings.
3. Ramps, including handrails, shall be in compliance with CBC 1133B.5 Ramps. See Civil Drawings.
4. Steps, including handrails, shall be in compliance with CBC 1133B.4 Stairways.
5. Accessible parking stalls shall be in compliance with CBC 1129B Accessible Parking Required. See Civil Drawings.
6. All signs shall comply with Title 24 and CBC Section 1117B.5 thru 1117B.5.7, see Civil Drawings.
7. See Electrical and Lighting Drawings.



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REVISION: DATE:

PROJECT NAME:

**REC TRAIL
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IMPROVEMENTS**

Pacific Grove, CA

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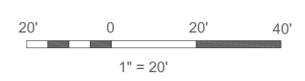
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PROJECT #: 74.15

SHEET NAME & NUMBER:

**Construction &
Layout Plan**

L-1.0



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CHECKED BY: OJ

PROJECT #: 74.15

SHEET NAME & NUMBER:

Landscape
Construction
Details
L-1.1

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NOTES:
1. TO MATCH EXISTING SPLIT RAIL FENCE ON SITE, REFER TO IMAGE.



2 SPLIT RAIL FENCE
NTS

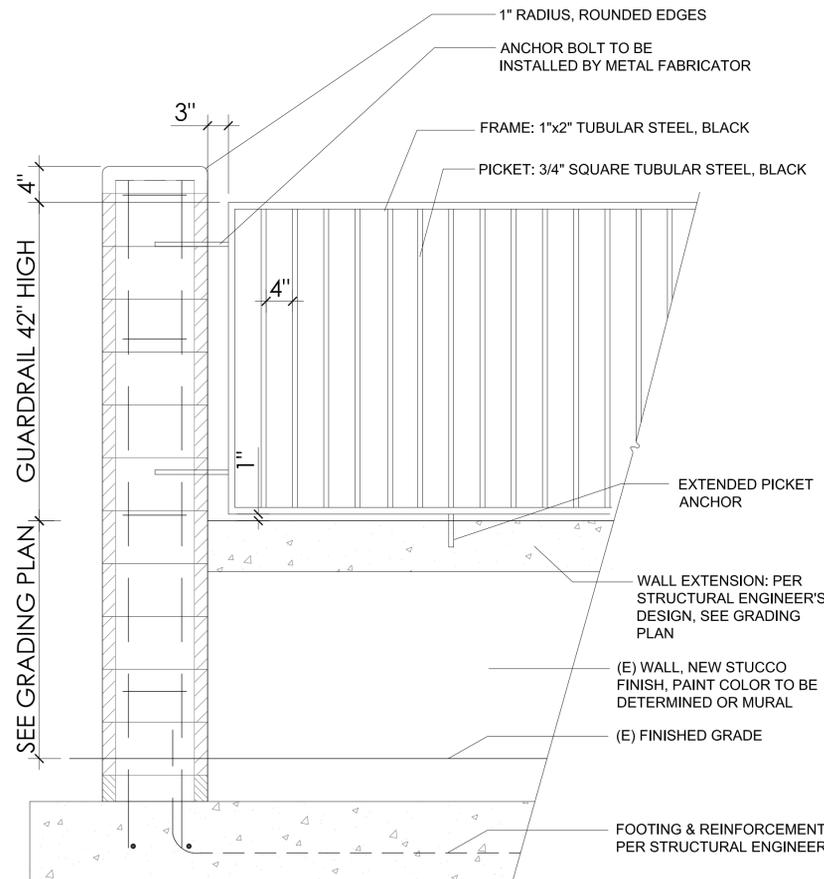
NOTES:
1. TO MATCH EXISTING GOLDEN GRANITE SEAT WALLS, REFER TO IMAGE.
2. WALL TO RECEIVE LIGHTING, SEE ELECTRICAL/LIGHTING PLANS.



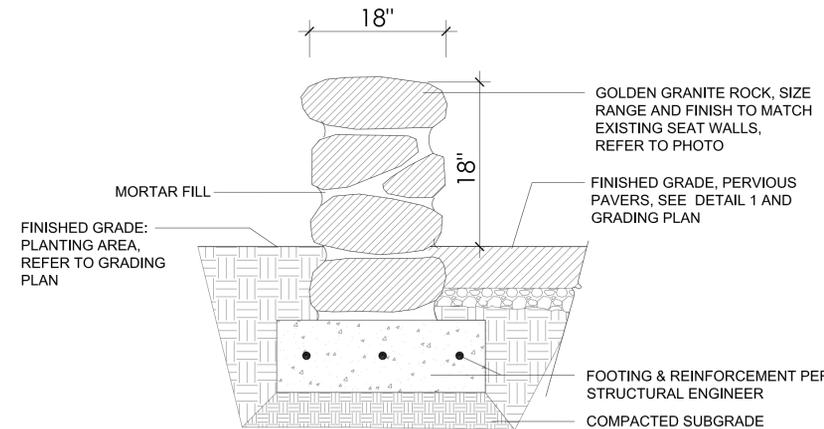
NOTES:
1. TO MATCH EXISTING SIGNAGE TYPE ON SITE, REFER TO IMAGES.



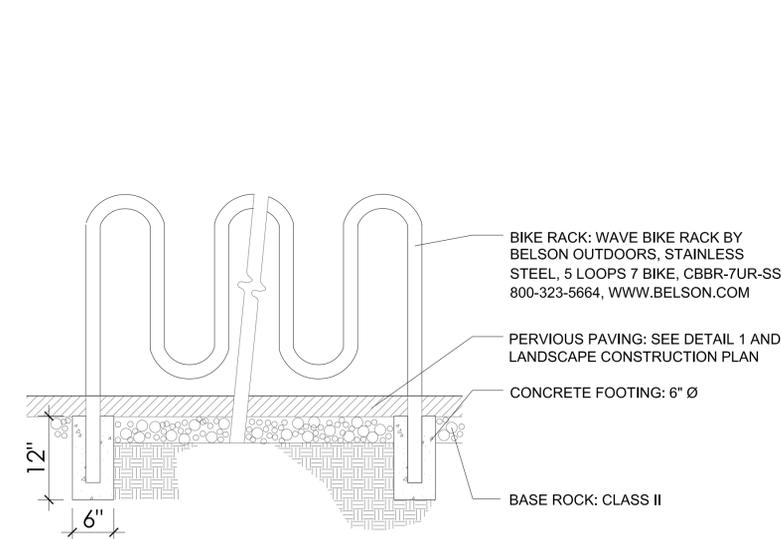
5 DIRECTIONAL & EDUCATIONAL SIGNAGE
NTS



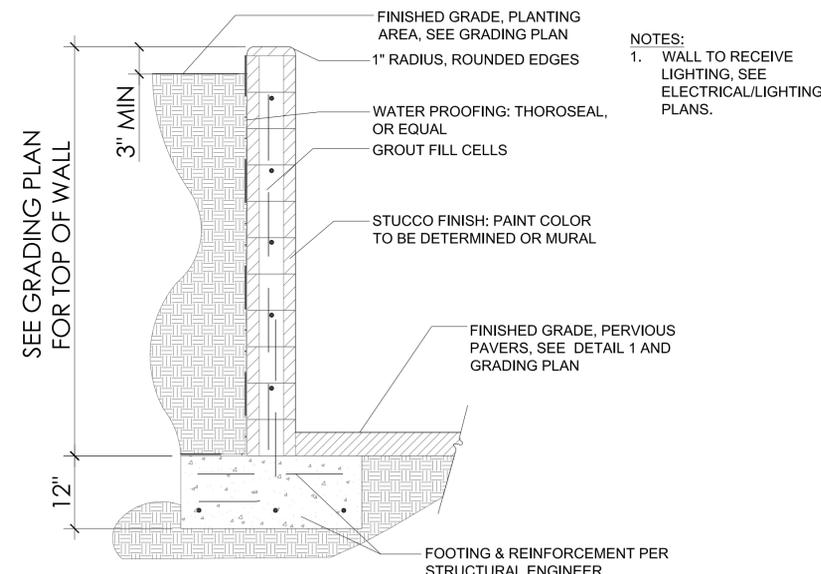
7 DECORATIVE GUARDRAIL
NTS



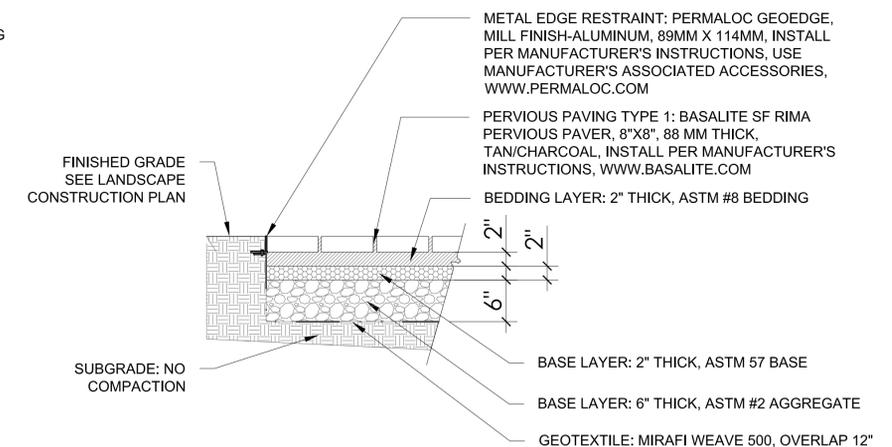
4 ROCK SEAT WALL
NTS



6 BICYCLE RACK
NTS



3 RETAINING WALL
NTS



1 PERVIOUS PAVING WITH METAL EDGE RESTRAINT
NTS

6 BICYCLE RACK
NTS



OONAJOHNSEN
 LANDSCAPE ARCHITECTURE
 227 Forest Avenue, Suite 8
 Pacific Grove, CA 93950
 PH 831 915 6838
 oona@OJ-LA.com



CONSULTANTS:

Civil Engineer:



Neil Engineers Corp.
 P.O. Box LL - Mission & 5th
 Carmel-by-the-Sea, CA 93921
 phone: (831) 624-2100
 info@neilcorp.com

Electrical Engineer:



Aurum Consulting Engineers
 60 Garden Court, Ste 210
 Monterey, CA 93940
 Phone: (831) 646-3330
 info@acemb.com

REVISION: DATE:

PROJECT NAME:

**REC TRAIL
 ACCESSIBILITY
 IMPROVEMENTS**
 Pacific Grove, CA

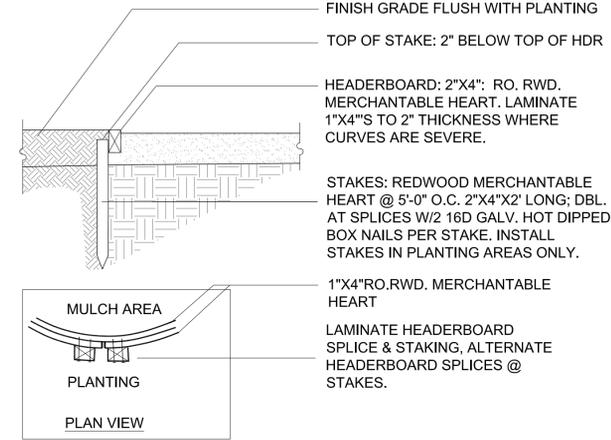
OWNER:
 City of Pacific Grove
 Ocean View Blvd. between
 17th St. & Forest Ave.

ISSUANCE:
 PERMIT SET

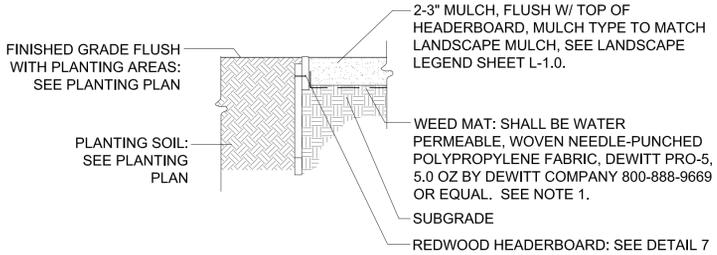
DATE: May 20, 2016
 DRAWN BY: OJ
 CHECKED BY: OJ
 PROJECT #: 74.15

SHEET NAME & NUMBER:
**Landscape
 Construction
 Details
 L-1.2**

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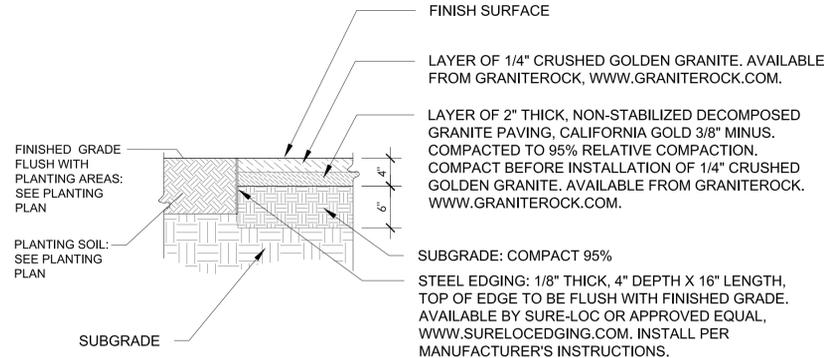


3 REDWOOD HEADERBOARD
 NTS

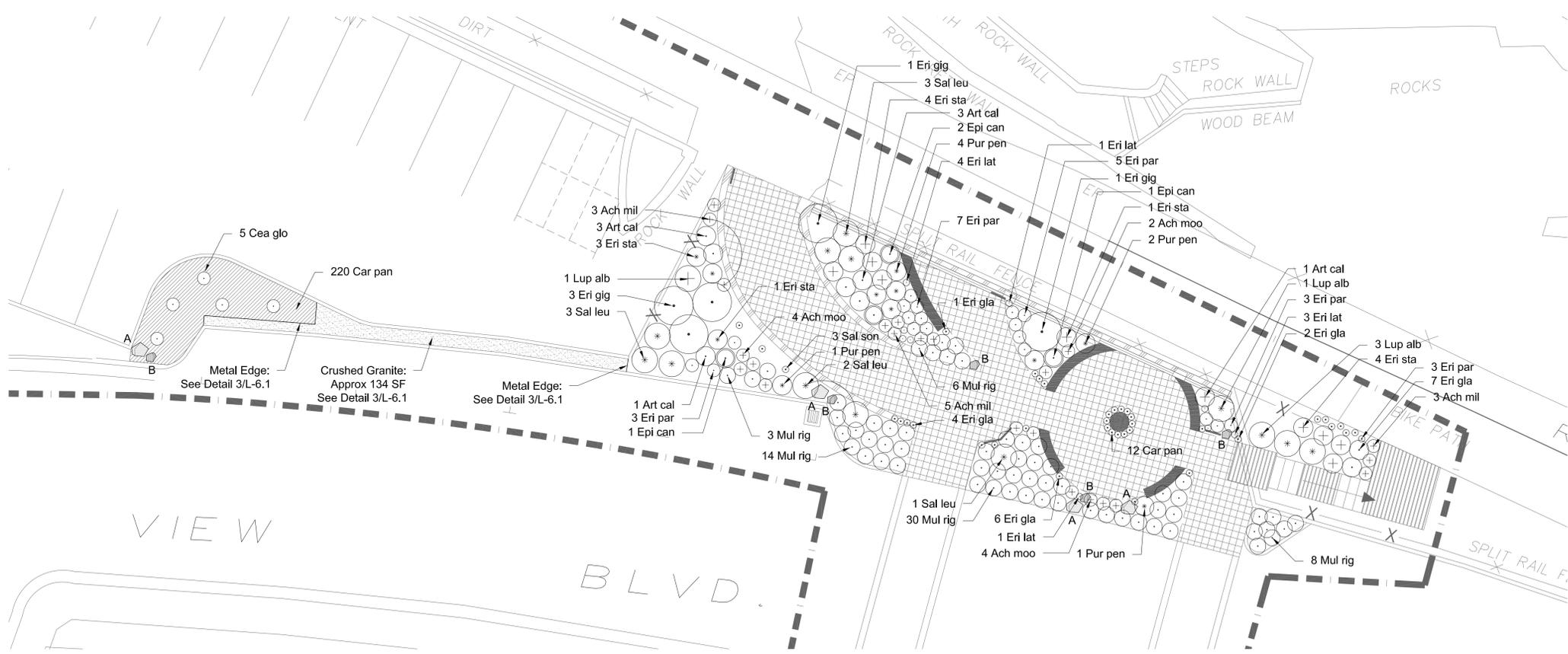


- NOTES:
1. UNDERLAYMENT OF PERMEABLE WEED MAT TO BE INSTALLED ONLY IN DESIGNATED MULCH AREAS ONLY. SEE PLANTING PLAN.
 2. FASTEN WEED MAT SECURELY TO GROUND WITH JUTE STAPLES. 12" OVERLAP BETWEEN PIECES WITH STAPLES.
 3. BURY END PIECES INTO GROUND AND STAPLE.

2 MULCH AREA
 NTS



1 CRUSHED GRANITE WITH METAL EDGE
 NTS



PARK PLANTING

PLANTING NOTES

- All plants in the Plant Legend are native to California.
- Plant stock and species to be approved by LA before planting. Verify quantities in field.
- Plant substitutions are not accepted without permission from the LA.
- Preserve and protect existing trees and plants to remain.
- See Planting Details on sheet L-6.1.
- Plant layout and spacing to be approved by LA before planting. Contractor to be careful to dig around major tree roots. Some plant layout may need to be adjusted. Notify Owner and LA when coming in contact with any major tree roots in question.
- All plants to locally receive backfill containing soil amendment and fertilizer. Soil amendment to be compost: Available from Monterey Regional Waste Management District or equal, mix with native soil. See chart below for amount:

PLANT BACKFILL CHART	
PLANT SIZE	PIT SIZE - ROOTBALL PLUS
4" POT	3" ALL AROUND
1 GAL	6" ALL AROUND
5 GAL	8" ALL AROUND
15 GAL	10" ALL AROUND

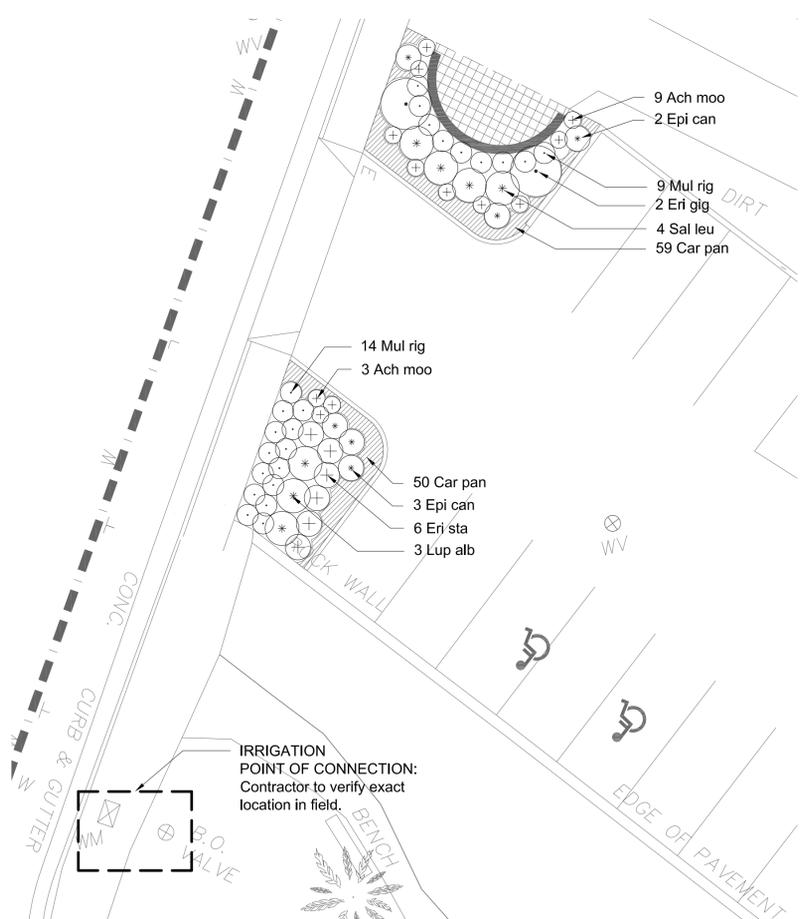
- Fertilize with Osmocote outdoor/indoor plant food, apply per instructions.
- Install 2" mulch layer to all planting areas. "Walk-on Bark", available from Graniterock.
- Hand water all plants after installation.
- Liquid Fence deer deterrent, or equal, to be applied to all new plants.
- Landscape Architect to approve layout of landscape boulders prior to installation.

LANDSCAPE ROCK LEGEND

Landscape Boulders: Shall be California gold granite boulders, all to be supplied by the same source, available from Graniterock (www.graniterock.com), with the following dimensions (height, width, length) limitations:
 Landscape Boulder A: Min 24"x24"x24" and Max 36"x36"x36"
 Landscape Boulder B: Min 18"x18"x18" and Max 24"x24"x24"

IRRIGATION STRATEGY

- Contractor shall build a new irrigation system. The irrigation point of connection (POC) is indicated on the Planting Plan. Water source is potable.
- Irrigation system to be a drip and/or subsurface drip for all new planting areas. Contractor to discuss irrigation strategy, hydrozoning, and valve placement, before work commences.
- Contractor to verify static water pressure and design a system that is operational by automatic controller and provides full coverage to all planting. Coordinate controller location with Owner.
- Contractor to review existing conditions on site for approximate extents of existing irrigation system.
- Contractor to verify location of all on site utilities. Restoration of damaged utilities shall be made to the satisfaction of the Owner and at no additional cost to the Owner.
- Contractor to be careful to dig around major tree roots. Some irrigation trenching may need to be adjusted. Notify Owner and LA when coming in contact with any major tree roots in question.
- Contractor shall coordinate any sleeving needed to reach all planting areas as necessary.
- Contractor shall guarantee the irrigation system for one year from date of installation.
- Irrigation system shall be installed in accordance with all local codes and manufacturer's specifications. Notify Owner or LA of any conflicts prior to installation.
- All plant material 4" Pot size and smaller to be hand-watered for the first season for root establishment.



PLANTING AT COASTAL TRAIL TERMINUS

PLANT LEGEND

WUCOLS RATING*	QTY	SYM./ABBREV.	BOTANICAL NAME	COMMON NAME	SPACING/SIZE
Shrubs					
L	5	Art cal	Artemisia californica	California Sagebrush	1 Gal.
L	9	Epi can	Epilobium canum	California Fuschia	1 Gal.
VL	7	Eri gig	Eriogonum giganteum	St. Catherine's Lace	1 Gal.
L	9	Eri lat	Eriogonum latifolium	Coast Buckwheat	1 Gal.
L	21	Eri par	Eriogonum parvifolium	Cliff Buckwheat	1 Gal.
L	19	Eri sta	Eriophyllum staechadifolium	Seaside Woolly Sunflower	1 Gal.
VL	8	Lup alb	Lupinus albrifrons	Silver Bush Lupine	5 Gal.
L	13	Sal leu	Salvia leucophylla	Purple Sage	5 Gal.
Groundcovers / Perennials					
L	11	Ach mill	Achillea millefolium	White Common Yarrow	1 Gal.
L	22	Ach moo	Achillea millefolium 'Moonshine'	Yellow Yarrow	1 Gal.
VL	5	Cea glo	Ceanothus gloriosus 'Anchor Bay'	Anchor Bay Ceanothus	1 Gal.
L	20	Eri gla	Erigeron glaucus	Seaside Daisy	1 Gal.
M	8	Pen pur	Penstemon 'Purple Passion'	Purple Passion Penstemon	1 Gal.
L	3	Sal son	Salvia sonomensis 'Mrs Beard'	Bee's Bliss Creeping Sage	1 Gal.
Grasses					
M	341	Car pan	Carex pansa	Dune Grass	12' O.C./4" Pot
L	84	Mul rig	Muhlenbergia rigens	Deer Grass	1 Gal.

* WUCOLS RATING KEY (WATER USE CATEGORY)

WUCOLS Region Applicable to this Project: REGION 1

- H High
- M Moderate
- L Low
- VL Very Low

* From: Water Use Classification of Landscape Species, A Guide to the Water Needs of Landscape Plants (WUCOLS)

Revised August 2000, University of California Cooperative Extension, L.R. Costello, K.S. Jones



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STAMP:



CONSULTANTS:

Civil Engineer:



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Electrical Engineer:



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 Monterey, CA 93940
 Phone: (831) 646-3330
 info@acemb.com

REVISION: DATE:

PROJECT NAME:

REC TRAIL ACCESSIBILITY IMPROVEMENTS

Pacific Grove, CA

OWNER:

City of Pacific Grove
 Ocean View Blvd. between
 17th St. & Forest Ave.

ISSUANCE:

PERMIT SET

DATE: May 20, 2016

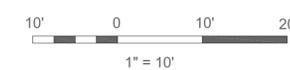
DRAWN BY: OJ

CHECKED BY: OJ

PROJECT #: 74.15

SHEET NAME & NUMBER:

Planting Plan



L-2.0



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STAMP:



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Civil Engineer:



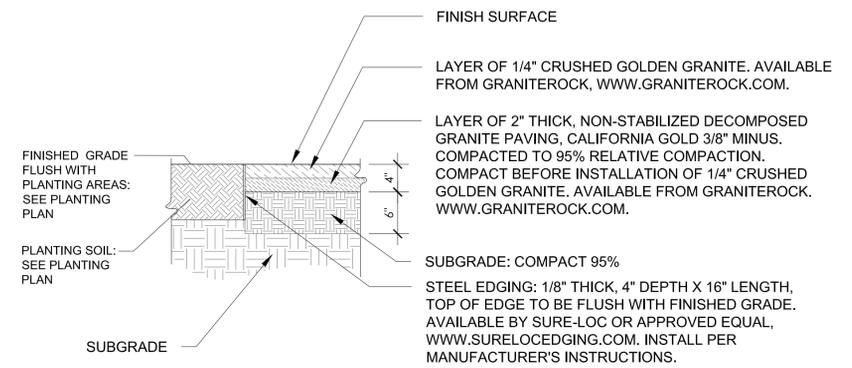
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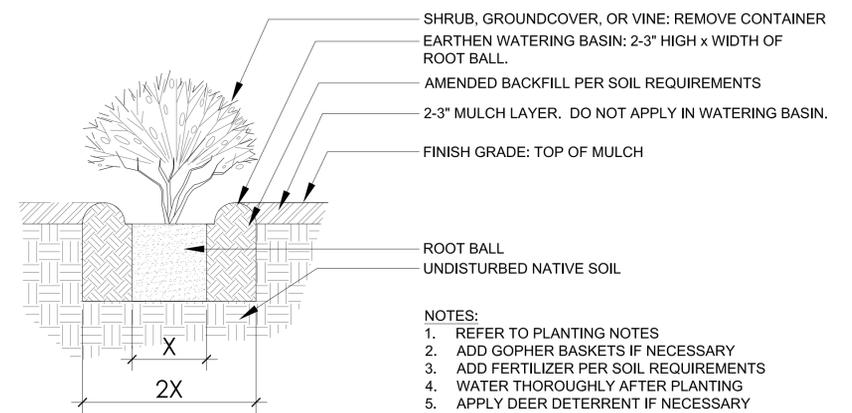


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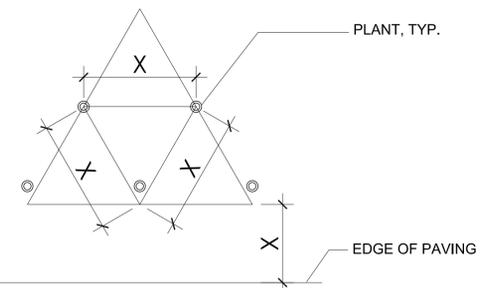
REVISION: DATE:



3 CRUSHED GRANITE WITH METAL EDGE
 NTS



2 SHRUB/GROUNDCOVER PLANTING DETAIL
 NTS



NOTES:
 1. FOR ON-CENTER SPACING "X", SEE PLANT LEGEND.

1 GROUNDCOVER PLANT SPACING DIAGRAM
 NTS

PROJECT NAME:

**REC TRAIL
 ACCESSIBILITY
 IMPROVEMENTS**

Pacific Grove, CA

OWNER:

City of Pacific Grove
 Ocean View Blvd. between
 17th St. & Forest Ave.

ISSUANCE:

PERMIT SET

DATE: May 20, 2016

DRAWN BY: OJ

CHECKED BY: OJ

PROJECT #: 74.15

SHEET NAME & NUMBER:

Planting
 Details

L-2.1



CITY OF PACIFIC GROVE

AGENDA REPORT

TO: Beatification and Natural Resource Commission
FROM: Daniel Gho, Public Works Director
MEETING DATE: August 16, 2016
SUBJECT: Tree Replant Letters
CEQA: Does not constitute a "Project" under California Environmental Quality Act (CEQA) Guidelines

RECOMMENDATIONS

Receive the report and approve the sending of the letters.

DISCUSSION

The requirements of a tree permit are to replant at a 1 to 1 ratio. The City has reviewed the permits that have not followed up with the replant requirements and will be sending a letter to those residents. Approximately 160 letters will be sent.

The first letter will simply be a letter stating the code and asking for information regarding the replant. Public Works has also drafted a second letter stating the fine and code compliance action.

The City plans to send the 1st letters August 18, 2016.

ATTACHEMENTS

1. Letters

RESPECTFULLY SUBMITTED:

Daniel Gho
Public Works Director



PUBLIC WORKS DEPARTMENT CITY OF PACIFIC GROVE

2100 Sunset Drive
Pacific Grove, CA 93950
Telephone: (831)648-5722 / Facsimile: (831)375-0627

August 11, 2016

RE: 1st Notice of Tree Permit Requirements

Dear Pacific Grove Resident:

The City of Pacific Grove issued you a permit for tree removal. As a courtesy, we are sending you a reminder that tree replacement is a condition of your permit.

Our records indicate that you are out of compliance per municipal code section 12.20.070.

Please email cschneider@cityofpacificgrove.org including address, picture of the replanted tree, and permit # (permit # noted above) within ten (10) days or mail information to 2100 Sunset Drive, Pacific Grove, CA 93950.

Thank you in advance for your assistance and cooperation.

Sincerely,

Daniel Gho
City of Pacific Grove Public Works Director



PUBLIC WORKS DEPARTMENT CITY OF PACIFIC GROVE

2100 Sunset Drive
Pacific Grove, CA 93950
Telephone: (831)648-5722 / Facsimile: (831)375-0627

Date, 2016

Resident
Address
Pacific Grove, CA 93950

RE: 2nd Notice of Tree Replant Requirements

Dear Pacific Grove Resident:

The City of Pacific Grove issued you a permit for tree removal. As a courtesy, the City sent you a letter requesting information pertaining to your tree permit requirements, dated August 18, 2016.

Our records indicate that you are out of compliance per municipal code section 12.20.070.

Please email cschneider@cityofpacificgrove.org including address, picture of the replanted tree, and permit # (permit # noted above) within ten (10) days or mail information to 2100 Sunset Drive, Pacific Grove, CA 93950.

If the requirements of the permit are not met a minimum fine of \$200 may be assessed and your information will be forwarded to code compliance.

Thank you in advance for your assistance and cooperation.

Sincerely,

Daniel Gho
City of Pacific Grove Public Works Director