This is a map of the Castilleja School property. It shows the proposed school building footprint, the open space area, and various other features and elements of the site. The map includes labels for Bryant Street, Emerson Street, and Mellogg Avenue, as well as the property line setback and the proposed pool footprint. The map also indicates the location of the Elizabeth Hughes Chapel, the Gunn administration building, and the fitness and athletic center. The map includes details on truck delivery ramps, pedestrian access, and the proposed fire access. The map is dated 10/21/2021 and is part of a planning submission with various revision dates and numbers. The scale of the drawing is 1/32" = 1'-0".
NOTES:

PROPOSED SCHEME TO PROVIDE 140 BICYCLE PARKING SPACES (108 REQUIRED BY PAMC):

(N) SHORT TERM SPACES: 46
(N) LONG TERM:
RACK SPACES: 90
LOCKER SPACES: 4
TOTAL (N) BIKE SPACES: 140

• ALL BICYCLE PARKING WILL BE AT GRADE.
• BOTTLE FILLERS WILL BE PROVIDED INSIDE THE BUILDING FOR STUDENTS.
• BIKE LOCKERS PROVIDED PER CALGREEN 5.106.4.1.3

PROPOSED BIKE RACK

PROPOSED POOL FOOTPRINT

KELLOGG AVE

PROPOSED PARK TRUCK DELIVERY RAMP OPEN TO ABOVE BRYANT STREET

EMERSON STREET

PROPERTY LINE

SETBACK

0' 16' 32' 64' 128'

(N) BICYCLE PARKING 38 SPACES

(N) BICYCLE PARKING 52 SPACES

(N) BICYCLE PARKING 46 SPACES

(N) BICYCLE PARKING 52 SPACES

(N) BICYCLE PARKING 46 SPACES

(N) BICYCLE PARKING 52 SPACES

(N) BICYCLE PARKING 46 SPACES
LOT SIZE: 268,765 SF
EXISTING COVERAGE TO REMAIN: 24,043 SF
NEW PROPOSED COVERAGE: 43,851 SF
TOTAL LOT COVERAGE: 67,894 SF
LOT COVERAGE % 25.3%

E1/2 (E) CHAPEL/ADMIN
TO REMAIN 10,099 SF

(E) FITNESS & ATHLETIC CENTER, TO REMAIN: 13,944 SF

PROPOSED NEW SCHOOL BUILDING LOT COVERAGE: 43,851 SF

PROPERTY LINE
PUBLIC UTILITY AND SURFACE EASEMENT, SEE PHASE 1 CIVIL PLANS

PROPOSED POOL FOOTPRINT
TRUCK DELIVERY RAMP OPEN TO ABOVE

KELLOGG AVE
EMBARRASDO ROAD
BRYANT STREET
KELLOGG AVE
EMERSON STREET

LOT COVERAGE % 25.3%

LOT COVERAGE %
<table>
<thead>
<tr>
<th>DMA ID</th>
<th>Required (SF)</th>
<th>BMP Type</th>
<th>Area (SF)</th>
<th>Roof + Hardscape</th>
<th>BMP Area</th>
<th>Drainage</th>
<th>Total Impervious</th>
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<tr>
<td>DMA 2</td>
<td>186</td>
<td>Landscape</td>
<td>11,818</td>
<td>43,590</td>
<td>183</td>
<td>406</td>
<td>144</td>
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<td>DMA 10</td>
<td>194</td>
<td>Landscape</td>
<td>10,039</td>
<td>123</td>
<td>406</td>
<td>7,648</td>
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<td>DMA 12</td>
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<td>Landscape</td>
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<td>297</td>
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<td>-</td>
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<td>-</td>
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<tr>
<td>DMA 25</td>
<td>198</td>
<td>Landscape</td>
<td>4,653</td>
<td>297</td>
<td>3995</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**NOTES**

1. **DATE:** [Document date]
2. **PROJECT NO.:** [Project number]
3. **SHEET NO.:** [Sheet number]

**PUMP FLOW CALCULATIONS**

- Flow-Thru Planter
- BMP Area

**BMP AREA**

- 0.75 SF

**REVISION LIST**

- Sheet 07/08/2019
- Sheet 07/08/2019
- Sheet 10/14/2021

**SCHOOL**

- Castilleja School
- San Jose, CA

**STORMWATER MANAGEMENT PLAN**

- WRNS Studio
- 2215 Mission Street
- San Francisco, CA 94110
- www.sherwoodengineers.com
Tree Protection Plan

Castilleja School
Palo Alto, CA

Supplemental TPZ Detail 10/14/2021

Tree Protection Plan

Tree Protection Legend

- Tree to be preserved: See Sheet L.2.0
- Tree to be relocated: See Sheet L.2.0
- Tree to be removed: See Sheet L.2.0

Reference Notes

- Trees to be marked for tree pruning/bulking of trees at 40, 15, and 101 to monitor excavation and soil protection.

- Tree preservation plan will be submitted to the City of Palo Alto for review and approval.

- Further agreements of the Tree Protection Plan may be made with the approval of the Project Solicitor.

- ALTERNATE GARAGE STUDIES ARE UNDER REVIEW

- Tree to be relocated: See Sheet L.2.0

- Tree protection fence: See Sheet T.1.0

- Further agreements of the Tree Protection Plan may be made with the approval of the Project Solicitor.

- Castilleja School

- 10/22/20

- 08/22/19

- Sheet No. T.3.0

- PTE

- 10/11/21

- Arch/Eng and may not be duplicated, used or disclosed without consent of Arch/Eng.

- Castilleja School

- 10/22/20

- 08/22/19

- Sheet No. T.3.0

- PTE

- 10/11/21

- Arch/Eng and may not be duplicated, used or disclosed without consent of Arch/Eng.
A. Palo Alto Technical Tree Manual (“TTM”). The TTM requires that a certified arborist prepare a Tree Protection and Preservation Plan for a project which establishes a Tree Protection Zone (“TPZ”) for each tree. The TPZ must be shown on the project plans. The TPZ zone for each tree is a restricted activity zone where no soil disturbance is permitted without mitigation, and where 20% of roots are impacted in the TPZ zone, mitigations specified in the TTM must be followed to ensure the tree’s survival. Unless otherwise specified by the project arborist or the City, the approved minimum TPZ for each tree shall be formulated in the following way: The TPZ radius shall be 10 times the DIAM of the trunk (City TPZ Formula).

B. Tree Protection Zones for the Castilleja Project:
- The TPZ for all project trees, as recommended by the project arborist are shown on Sheet T.3.6.
- The more conservative TPZ for all project trees, calculated pursuant to the City TPZ Formula, are shown on Sheets T.3.1-3.5.

C. Summary of Impacted Trees:
- Of the total 168 trees inventoried for the project, Twelve (12) trees (#’s 14, 15, 16, 17, 18, 20, 21, 23, 26, 84, 102) are potentially impacted, between 25 - 35% by the construction. The TPZ impacts reviewed by project arborist Matt Birch are based on professional judgement and field exploration of root zone (see Field Plan on sheet T.2.1-C), at key site locations.

D. Overview of Mitigations to Protect Impacted Trees:
- Castilleja School, the project design team, and the project certified arborist took the comments of the City arborist into account and have put forth an extensive list of supplemental off-setting measures to mitigate potential short and long-term impacts to trees on site. Such measures are those set forth in the TTM as the “recommended practices” (see TTM Sec. 1, page 1-4). Based on the professional judgement of the project arborist, the proposed mitigations and off-site treatment set forth on Sheets T.2.2 - T.2.5. will mitigate impacts to the affected trees and allow the trees to maintain their current health after project construction.

The TPZ radial shall be 10 times the DIAM of the trunk (City TPZ Formula).
### Tree Impact and Additional Protection Plan

**Tree Impact Legend**

- **Loss of root zone**: 25% or more of root zone must be mitigated with offsetting additional horticultural treatments to encourage additional root development.
- **New permeable paving over root zone**: with decreased root area and/or City tree planting
- **Positive Treatment**: Existing pavement area converted to landscape area
- **No Changes**: City Tree Protection Zone (TPZ): Protect 10x Tree Diameter or 10-feet, whichever is greater
- **Preserved Tree**: Relocated tree in its new location: See Tree Disposition Plan Sheet T.4.0

**FOOTNOTES:**
1. Impact to 25% or more of root zone must be mitigated with offsetting additional horticultural treatments to encourage additional root development.
2. Impact % based on professional judgement of project arborist with understanding of probable construction methods.
3. Based on the judgement of the project arborist, proposed design and construction phase mitigation and offset treatments will reduce impacts such that trees are expected to maintain their current health condition after project construction.

### Table of Tree Impacts

<table>
<thead>
<tr>
<th>Tree #</th>
<th>Tree Name</th>
<th>Type</th>
<th>Size (Inch)</th>
<th>Condition Rating</th>
<th>Preservation</th>
<th>Impact % Inside TPZ</th>
<th>Offsetting Mitigations Required by City of Palo Alto</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Low Redbud (Cercis canadensis)</td>
<td>73</td>
<td>12</td>
<td>150</td>
<td>Excellent</td>
<td>15%</td>
<td>1. Preserve Trunk &amp; 2. Masticate 3. Tie Tree to Tree Trunk 4. Protect Tree Trunk from Construction</td>
</tr>
<tr>
<td>2</td>
<td>Mulberry (Morus rubra)</td>
<td>18</td>
<td>10</td>
<td>Excellent</td>
<td>15%</td>
<td>1. Preserve Trunk &amp; 2. Tie Tree to Tree Trunk 3. Protect Tree Trunk from Construction</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Dogwood (Cornus kousa)</td>
<td>6</td>
<td>Excellent</td>
<td>15%</td>
<td>1. Preserve Trunk &amp; 2. Tie Tree to Tree Trunk 3. Protect Tree Trunk from Construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Cherry (Prunus avium)</td>
<td>9</td>
<td>Excellent</td>
<td>15%</td>
<td>1. Preserve Trunk &amp; 2. Tie Tree to Tree Trunk 3. Protect Tree Trunk from Construction</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Mitigation Notes**:
- **1. Preserve Trunk**: Ensure the tree trunk is protected from construction activities.
- **2. Tie Tree to Tree Trunk**: Use sturdy ropes to tie the tree trunk to surrounding trees or supports to prevent damage.
- **3. Protect Tree Trunk from Construction**: Ensure the tree trunk is not disturbed by construction activities.

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**Supplemental Info**

- **Supplemental Info to Sub #4**: 02/02/21
- **Supplemental Info #2 to ARB submission #4**: 05/17/21
- **Supplemental TPZ Detail**: 10/14/2021

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**Project No.**: Castilleja School

**Location**: Palo Alto, CA

**Design Firm**: WRNS Landscape Architects

**Date**: September 20, 2020

**Scale**: 1:600

**Copyright**: All drawings and written material appearing herein constitute original and unpublished work of the Architect/Engineer and may not be duplicated, used or disclosed without consent of Architect/Engineer.
TREE IMPACT LEGEND

- City Tree Protection Zone (TPZ): Protect 10x Tree Diameter or 10-feet, whichever is greater
- Preserved Tree
- Relocated tree in its new location: See Tree Disposition Plan Sheet T.4.0

FOOTNOTES:
(1) Impact to 25% or more of root zone must be mitigated with offsetting additional horticultural treatments to encourage additional root development.
(2) Impact % based on professional judgement of project arborist with understanding of probable construction methods.
(3) Based on the judgement of the project arborist, proposed design and construction phase mitigations and offset treatments will reduce impacts such that trees are expected to maintain their current health condition after project construction.
**Tree Impact Legend**

- Use of root zone
- New permeable paving over root zone
- Positive Treatment: Existing impermeable paving converted to permeable paving
- Positive Treatment: Existing paving area converted to landscape area
- No Changes

**City Tree Protection Zone (TPZ):**
- Protect 10x Tree Diameter or 10-feet, whichever is greater

**Preserved Tree**
- Relocated tree in its new location: See Tree Disposition Plan Sheet T.4.0

**FOOTNOTES:**

1. Impact to 20% or more of root zone must be mitigated with offsetting additional horticultural treatments to encourage additional root development.
2. Impact % based on professional judgement of project arborist with understanding of probable construction methods.
3. Based on the judgement of the project arborist, proposed design and construction phase mitigation and offset treatments will reduce impacts such that trees are expected to maintain their current health condition after project construction.
TREE IMPACT LEGEND

- New permeable paving over root zone
- Positive Treatment: Existing impermeable paving converted to permeable paving
- Positive Treatment: Existing paving area converted to landscape area
- No Changes
- City Tree Protection Zone (TPZ): Protect 10x Tree Diameter or 10-feet, whichever is greater
- Preserved Tree
- Relocated tree in its new location: See Tree Disposition Plan Sheet T.4.0

REFERENCE NOTES

- Tree #114 will be boxed for removal within the excavation limits of the parking garage.

FOOTNOTES:

(1) Impact to 25% or more of root zone must be mitigated with offsetting additional horticultural treatments to encourage additional root development.
(2) Impact % based on professional judgement of project arborist with understanding of probable construction methods.
(3) Based on the judgement of the project arborist, proposed design and construction phase mitigation and offset treatments will reduce impacts such that trees are expected to maintain their current health condition after project construction.

The use of this drawing and all other information contained herein is subject to the following conditions:

All drawings and written material appearing herein constitute original and unpublished work of the Architect/Engineer and may not be duplicated, used or disclosed without consent of Architect/Engineer.
**TREE PLANTING LIST**

<table>
<thead>
<tr>
<th>Tree Name</th>
<th>DBH</th>
<th>Height</th>
<th>Canopy Area</th>
<th>Required Mitigation Trees</th>
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<tr>
<td>Arbutus Menziesii</td>
<td>6'</td>
<td>40 0 40</td>
<td>80</td>
<td>Total (47) 24&quot; box</td>
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<tr>
<td>Arizona Cypress</td>
<td>22</td>
<td>36&quot; box</td>
<td></td>
<td></td>
</tr>
<tr>
<td>California Bay</td>
<td>24&quot;</td>
<td>36&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Castilea School</td>
<td>4&quot;</td>
<td>10 0 10</td>
<td>20</td>
<td>Total (20) 24&quot; box</td>
</tr>
<tr>
<td>Quercus agrifolia</td>
<td>114</td>
<td>14</td>
<td>30 0 30</td>
<td>Total (28) 24&quot; box</td>
</tr>
<tr>
<td>Total</td>
<td>151</td>
<td>151</td>
<td>151</td>
<td>Total (28) 24&quot; box</td>
</tr>
</tbody>
</table>

**LEGEND**

- Existing Tree
- Relocated Tree: See Tree Protection Plan
- Mitigation Trees for Tree Removal: See Tree Protection Plan
- New Plant to Match Existing Relocated Palms

**TREES TO BE REMOVED**

- Quercus agrifolia trees removed will be replaced with Quercus agrifolia.
- Sequoia delesseriana conifer will be replaced with Cupressus dec. aw. All other native ornamentals will be replaced with native tree species (except 1 Blue Atlas Cedar and 1 Ponderosa). All replacement trees to be installed on the lot with adequate rootball area per City standards.

**TREES TO BE RELOCATED**

- All trees that are to be relocated will be reinstalled in their original location.
- All trees that are to be relocated will be reinstalled in their original location.
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NOTE: FOR GATE ELEVATIONS, SEE SHEET L.3.3 AND L.3.4
MECHANICAL NARRATIVE

The mechanical systems are intended to be all electric and not to use any natural gas or combustion on site. The system is made up of three major components:

1. A mechanical modular heat pump system that recovers energy to heat the pool and uses the pool as a thermal battery.
2. A dedicated outside air system that brings conditioned and filtered ventilation air into the building.
3. Radiant technologies (thermal mass radiant floors and/or ceilings) as well as fan coil units for some local thermal control.

The roof is maintained significantly devoid of equipment with the exception of exhaust fans which are located on the roof to ensure that there is no contamination of ventilation air into the building. These have been placed at the centerlines of the roof to have minimum impact to the site lines and mitigate the need for significant screening.

The rest of the mechanical equipment is located as follows:

1. Heat Pump: Located in a mechanical well close to the pool adjacent to the Pool Equipment Room.
2. DOAS Unit: Located on Level B1 and ducted to a Code approved location for the outside air intake on the building façade.

* See G.002 Green Building Design Features for additional information about systems