The ‘Measure L’ Construction Program

Presented to the
Citizens’ Oversight Committee
May 2, 2016

Presented by
Bill Winslow
Program Manager, Bernards
An estimated 350,000 square feet of new facilities and a multitude of completed site improvement projects have made a significant contribution towards improving the physical learning environment.
Chaffey College inspires hope and success by improving lives and our community in a dynamic, supportive, and engaging environment of educational excellence where our diverse students learn and benefit from foundation, career, and transfer programs.
Chaffey College Core Values

 Student Success
 Educational Excellence
 Climate of Inclusion and Respect
 Dynamic Student Services
 Responsiveness to the Community
 Environmental Responsibility
Board Vision

Continually improve the infrastructure and physical learning environment of the district, support student learning programs and services, and integrate physical resource planning with institutional planning.
Completed Projects 2002–2016
(Partial Listing)

- Renovate/Paint Auto Tech Lab
- Infrastructure/Campus Theme
- Environmental Impact Report
- Renovate Athletics Office
- Scoreboards
- Snack Bar
- Track & Field Timer
- Stadium Flag Pole
- Rad Tech Retrofit
- San Antonio Comm. Hosp./CNA
- Master Plan (Chino)
- Vocational Education – Phase I
- Wargin Hall – Phase I
- Visitor’s Restroom/ADA Access
- Science Complex Site work
- Theater Fire Alarm
- Bookstore Loading Dock
- North Parking Lot Irrigation
- North Parking Lot Landscaping
- ATL Landscaping
- Nature Preserve Fence
- Central Plant Phase IA
- Central Plant Phase IB
- College Drive
- Softball Field
- Ralph M. Lewis Center (Fontana)
- Wilson/College Drive Intersection
- Marie Kane Center for Student Services/Administration (SSA)
- Theatre – Phase I
- North Parking Lot
- Science Complex
- Don Berz Excellence Building
- College Drive Landscaping
- Maintenance Yard Drainage
- Agricultural Demonstration Area
- Skills Road Extension
- Fire Lane/Science Site Lighting
- New Marquee
- Physical, Health, and Life Science
- Health and Life Science Re-Roof
- Main Instructional Building (Chino)
- New Elevator Tower
- Parking Lot 12
- Health Sciences Bldg. (Chino)
- Community Center Bldg. (Chino)
- Library Lawn
- Landscaping (Fontana)
- Parking Lot Upgrades (Fontana)
- Chino Health Science Parking Lot
- Language Arts/Social Science
- Energy Project
- Data and Telecom Cabling
- Sports Complex
- Visual and Performing Arts Complex
- Visual and Performing Arts Complex Landscape Addition
- Math Success Center & Physical Science Renovations
- Physical Education Facility Gym Renovation
- Aviary Landscape
- Central Plant Build Out – Phase 1C – Hot Water Upgrades
- Fire Alarm Upgrades – Campus Center East, IT, and Planetarium
- Fontana Academic Center
- Michael Alexander Campus Center
- Business Education Renovation
- Greenhouse
- Health Science Pathway
- North Parking Lot – Catch Basin Addition
- Physical Education Athletics Parking Lot
- Library Security Cameras
- Business Education Re-Roofing
Chino Campus

Aerial View

September 2011
Fontana Campus

Aerial View
September 2011
Aerial View
September 2011
Projects in Construction in 2016

Central Plant Build Out
Phase 1C – Thermal Energy Storage (TES) Tank

Existing Chiller Room
6 additional new boilers for a total of 12 boilers

The existing Central Plant facility was built in 2006. The chillers and boilers provide for the cooling and heating needs through an underground infrastructure piping system on the campus.
Projects in Construction in 2016

Central Plant Build Out

Phase 1C – Thermal Energy Storage (TES) Tank

The new TES Tank will provide for the increased cooling needs, maintain redundancy in the chilled water system, and provide savings by shifting electrical demand to the off hours of operation.
Projects in Construction in 2016

Central Plant Build Out
Phase 1C – Thermal Energy Storage (TES) Tank

The TES tank has 2 ½ inch insulation jackets surrounding the exterior of the tank.

The insulation jackets keep the 42 degree water from the Central Plant chilled.
Projects in Construction in 2016

Central Plant Build Out

Phase 1C – Thermal Energy Storage (TES) Tank

Pending commissioning of the tank will result in the energy saving aspects of the electrical load shift, this project qualified and has been accepted into the Southern California Edison (SCE) Permanent Load Shifting Program. Projected incentives from SCE are over $700,000.
Projects in Construction in 2016

Central Plant Build Out

Phase 1C – Thermal Energy Storage (TES) Tank

Exterior view of the completed TES tank with 8 foot high site security fencing.

Exterior view of the completed TES tank from the Central Plant facility.
Projects in Planning

College Drive – Access Improvements Project

Construction Estimate: $160,000

Project scope is the DSA close out of the original College Drive project from 2005. The original project was a new perimeter routing of College Drive, but the project was not closed and certified at that time. Additional modifications for access improvements are required now at the Automotive Technology Building. Currently the project is in the bid/award phase.
Projects in Planning

Theatre Wings Renovation - East and West
Project Budget: $2,803,600

Project Scope will be upgrades to provide modern instructional space with renovations including electrical, plumbing and HVAC upgrades, and new finishes. Vision sessions with Campus Facilities staff, architects, and Stakeholder Groups were held on all projects.
Projects in Planning

Museum Renovation

Project Budget: $1,540,000

Project Scope will be upgrades and renovations to provide modern gallery space and instructional facilities, which includes new HVAC, new patio sun shade structure, and new gallery lighting. Vision sessions included presenting multiple ideas for Stakeholder’s consideration.
Projects in Planning

Campus Center East Plaza

Project Budget: $1,925,400

Project Scope is to provide an exterior gathering location for students and staff, which will include a new plaza area with landscape and irrigation, and the modification of traffic routes for service vehicles to access several locations. Vision sessions included participation for the likes and dislikes of ideas to formulate group consensus of schematic designs.
Projects in Planning

Planetarium Renovation

Project Budget: $1,068,000

Project Scope will be upgrades to provide modern instructional space with renovations of electrical and lighting upgrades, upgrades to HVAC, accessibility improvements, new finishes, and a new digital projection system. Campus Facilities team visited two existing planetariums to see the possibilities for Chaffey’s Planetarium.
Projects in Planning

Campus Center Shade Structure
Project Budget: $3,105,400

Project Scope is the installation of a steel frame shade structure located adjacent to the MACC building to provide for additional dining and gathering space for students. Vision sessions presented many ideas and options for the Stakeholder’s consideration for the shade structure.
Projects closed and certified with the Division of the State Architect:

All completed projects in the Measure L Bond Program have been successfully closed and certified with the Division of State Architect except for two. College Drive and the Central Plant Build Out – TES Tank Project are pending construction completion and contract closeouts.
### Completed Projects 2009-2012

#### Partial Listing

<table>
<thead>
<tr>
<th>Project (valued over $1.0 Million)</th>
<th>% Comp.</th>
<th>Original Contract</th>
<th>Approved Change Order</th>
<th>Revised Contract</th>
<th>% of CO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual and Performing Arts Complex</td>
<td>100%</td>
<td>$22,145,000</td>
<td>$2,211,142</td>
<td>$24,356,142</td>
<td>9.98%</td>
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<tr>
<td>Community Center/Health Science Buildings (Chino)</td>
<td>100%</td>
<td>$18,488,837</td>
<td>$391,120</td>
<td>$18,879,957</td>
<td>2.12%</td>
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<tr>
<td>Sports Center</td>
<td>100%</td>
<td>$8,560,543</td>
<td>$508,104</td>
<td>$9,068,647</td>
<td>5.94%</td>
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<tr>
<td>Academic Center (Fontana)</td>
<td>100%</td>
<td>$7,305,036</td>
<td>$533,970</td>
<td>$7,839,006</td>
<td>7.31%</td>
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<tr>
<td>Michael Alexander Campus Center</td>
<td>100%</td>
<td>$6,686,215</td>
<td>$216,270</td>
<td>$6,902,485</td>
<td>3.23%</td>
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<tr>
<td>Gym Renovation</td>
<td>100%</td>
<td>$4,694,000</td>
<td>$465,507</td>
<td>$5,159,507</td>
<td>9.92%</td>
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<td>Business Education Renovation</td>
<td>100%</td>
<td>$3,155,168</td>
<td>$212,371</td>
<td>$3,367,539</td>
<td>6.73%</td>
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<td>Physical Science and Math Success Center Renovation</td>
<td>100%</td>
<td>$2,988,289</td>
<td>$175,109</td>
<td>$3,163,398</td>
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<tr>
<td>Language Arts/Social Science Energy Project</td>
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<td>$103,828</td>
<td>$2,803,828</td>
<td>3.85%</td>
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<tr>
<td>Parking Lot Upgrades (Fontana)</td>
<td>100%</td>
<td>$1,089,000</td>
<td>$42,618</td>
<td>$1,131,618</td>
<td>3.91%</td>
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### Program Funds

(Includes Rancho Cucamonga, Fontana and Chino Campuses)

<table>
<thead>
<tr>
<th>Fund Source</th>
<th>Amount</th>
<th>Percentage of Total</th>
</tr>
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<tbody>
<tr>
<td>Original Measure L Bond</td>
<td>$229,830,000</td>
<td>70.68%</td>
</tr>
<tr>
<td>Bond Refinance Proceeds</td>
<td>$2,300,000</td>
<td>0.71%</td>
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<tr>
<td>Accrued Bond Interest</td>
<td>$17,946,923</td>
<td>5.52%</td>
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<tr>
<td>Other Funds</td>
<td>$75,109,407</td>
<td>23.10%</td>
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<tr>
<td><strong>Total Program Funds</strong></td>
<td><strong>$325,186,330</strong></td>
<td><strong>100.00%</strong></td>
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<td>Accrued Bond Interest</td>
<td>$17,946,923</td>
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<tr>
<td><strong>Total Measure L Bond Funds</strong></td>
<td><strong>$250,076,923</strong></td>
<td><strong>100.00%</strong></td>
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### Program Funds
(Includes Rancho Cucamonga, Fontana and Chino Campuses)

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<tr>
<th>Description</th>
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<th>Percentage</th>
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<tr>
<td>Committed (Expensed or Encumbered)</td>
<td>$303,876,246</td>
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<tr>
<td>Allocated to Projects</td>
<td>$15,886,758</td>
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<td>Remaining Balance</td>
<td>$5,423,325</td>
<td>1.67%</td>
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(Includes Rancho Cucamonga, Fontana and Chino Campuses)

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<tr>
<td>Committed (Expensed or Encumbered)</td>
<td>$228,932,523</td>
<td>91.54%</td>
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<tr>
<td>Allocated to Projects</td>
<td>$15,721,075</td>
<td>6.29%</td>
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<tr>
<td>Remaining Balance</td>
<td>$5,423,325</td>
<td>2.17%</td>
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Total Program Funds: $325,186,330
Total Measure L Bond Funds: $250,076,923
Questions?