Shuttle Turnaround
UCSF Shuttles System

Parnassus Shuttles

• 10 shuttle routes serve Parnassus weekdays from about 6AM to 9PM

• 1.1 million annual passengers travel to and from Parnassus between campus locations

• 14.6% or 1,795 of all staff, faculty and students based at Parnassus commute to work by campus shuttle
• BLUE, GOLD, TAN, BLACK, BRONZE, LIME, and PURPLE turnaround using 4th, 5th, 6th, Irving, and Kirkham

• These seven shuttles double-back on Parnassus each loop

• Four of these shuttles also double-back on Stanyan each loop
UCSF Shuttle Routes After to July 2011

- 500+ fewer daily trips past various Parnassus neighborhood streets to the west and east of Parnassus.
- 47% reduction in shuttle traffic on Parnassus
- Increased shuttle traffic on the 1200 blocks of 4th, 5th, and 6th between Irving and Lincoln
- 4 shuttles per hour on average on 4th, 5th, and 6th.
• 4th, 5th, and 6th share a near equal load of daily shuttle trips from 38 to 47 or **four trips per hour**.

• 7th carries 350% more traffic than any block on 4th, 5th, and 6th.

• Overall trips on 4th, 5th, and 6th decrease 49% compared to pre-July 2011 levels.

• Parnassus trips reduced 47%

• New routes include new shuttle trips on the 1200 blocks of 4th, 5th, and 6th.
• Eliminates all shuttle trips on 4th, 5th, & 6th
• Trips on Parnassus increase 41%
• Considerable impact on core campus plans to reduce traffic on Parnassus
• Trips on Stanyan increase 60%
• Transit Station concept not conducive to Parnassus; most driver shifts start/end at MB where shuttles are based

• Turnaround unlikely to be used as shuttle stop by most riders
• Blue and Gold routes unable to meet residency accreditation travel time
• Requires a left turn off Parnassus at 4th nearly every 2-4 minutes and crossing the sidewalk every minute
Anticipated Impact of Mission Bay Hospital on Parnassus Shuttle Traffic

- Up to 75 additional daily trips on Parnassus **WITHOUT** turnaround, which is still considerably less than pre-July 2011
- Up to 150 additional trips on Parnassus **WITH** turnaround
- 4th, 5th and/or 6th may experience up to 2 additional shuttles per hour **WITHOUT** turnaround
- Shuttle system may include additional 35 passenger buses to accommodate growing demand.
Improved Loading & Parking

Parnassus Avenue Improvements

Westside Trail Access
+59 net new parking spaces
26 existing parking spaces
85 Potential parking spaces (37 lower deck, 34 upper deck, 14 along retaining wall)
+19 new parking spaces
+36 new parking spaces
+36 new parking spaces
Providing public trail access
Loop Road Analysis
KORET WAY EXTENSION (LOOP ROAD)

- Requires extensive re-configuration of existing central plant utilities
  - 12 Kv electrical substation
  - Main electrical distribution center
  - Central Plant chilled water supply and return lines
  - Chilled Water supply and return pumps
- Requires cutting into the “preserved area” hillside below Stem Cell building for shoring, retaining walls and road foundations
- Alignment of road at the far east end conflicts with existing loading area and truck access to Stem Cell loading dock
- Project Cost anticipated to be $25M
  (Construction Cost Approximately $19M)
UC Hall Options

Retrofit - Reuse Options
UCHall Program Options
**Program Areas**

- Retail: 2,497 sf
- Housing: 48,425 sf
- Housing Offices: 0 sf
- Offices: 14,791 sf
- Sleeping Rooms: 1,697 sf
- Toland Hall: 1,951 sf
- Clinics: 10,840 sf
- Back of House: 12,432 sf
- Circulation: 20,011 sf

**Housing Summary**

<table>
<thead>
<tr>
<th>Unit Type</th>
<th>Beds/Unit</th>
<th>Number of Units</th>
<th>Number of Beds</th>
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<tr>
<td>B</td>
<td>2</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>C</td>
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<td>D</td>
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<td>E</td>
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<td><strong>Total</strong></td>
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<td><strong>68</strong></td>
<td><strong>132</strong></td>
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</table>

**Notes**

- All existing elevators to be replaced

**Pros**

- Allows efficient construction staging and sequence
- Best views for housing
- Best public access for Ophthalmology
- Clear horizontal split between housing and medical programs

**Cons**

- Ground floor space has windows on one side only
- Vertical circulation mixed between housing and medical programs
- Early move-in for Ophthalmology still impacted by construction
**PROGRAM AREAS**

- Retail: 3,904 sf
- Housing: 32,371 sf
- Housing Offices: 1,542 sf
- Offices: 42,894 sf
- Sleeping Rooms: 1,687 sf
- Toland Hall: 1,651 sf
- Clinics: 0 sf
- Back of House: 12,505 sf
- Circulation: 19,757 sf

**HOUSING SUMMARY**

<table>
<thead>
<tr>
<th>Unit Type</th>
<th>Beds/Unit</th>
<th>Number of Units</th>
<th>Number of Beds</th>
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</thead>
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<td>B</td>
<td>2</td>
<td>3</td>
<td>6</td>
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<tr>
<td>C</td>
<td>4</td>
<td>15</td>
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<td>D</td>
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<td>9</td>
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<tr>
<td>E</td>
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<td><strong>Total</strong></td>
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<td><strong>43</strong></td>
<td><strong>91</strong></td>
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</table>

**NOTES**

- Replace existing elevators

**PROS**

**CONS**
PROGRAM AREAS

- Retail: 2,705 sf
- Housing: 0 sf
- Housing Offices: 0 sf
- Offices: 63,194 sf
- Sleeping Rooms: 0 sf
- Toland Hall: 1,951 sf
- Clinics: 16,841 sf
- Back of House: 12,218 sf
- Circulation: 28,128 sf

NOTES

- All existing elevators to be replaced
Scheme Summary

A  Housing Only
B1  Offices + Housing + Clinics
B2  Offices + Housing
C1  Offices + Clinics
C2  Offices Only
C3  Clinics Only
UC Hall Options

Demolish - Replace Options
UCH REPLACEMENT
REPLACEMENT BUILDING – OPTION D

Area Summary

<table>
<thead>
<tr>
<th>Component</th>
<th>Area</th>
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<tbody>
<tr>
<td>Housing</td>
<td>90,000 SF</td>
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<tr>
<td>Retail</td>
<td>1,500 SF</td>
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<tr>
<td>Transit Center</td>
<td>33,600 SF</td>
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<td>Parking Garage</td>
<td>100,800 SF</td>
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<td><strong>Total</strong></td>
<td>225,900 SF</td>
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Construction Truck Trips

<table>
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<tr>
<th>Component</th>
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<tbody>
<tr>
<td>Earthwork - 53,600 CY</td>
<td>5,360</td>
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<tr>
<td>Hazardous Materials - 2,332 CY</td>
<td>56</td>
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<tr>
<td>Demolition - 3,794 CY</td>
<td>95</td>
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<tr>
<td>Assumed New Construction Trips</td>
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<td><strong>Total</strong></td>
<td>6,701</td>
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Construction = 4 Years 8 Months
UCH REPLACEMENT REPLACEMENT BUILDING - OPTION D

- Overall project duration is anticipated to be 3 years longer than re-use (60% increase over re-use) which will involve greater cost escalation

- Noise related to structural demo of UCH

- 5,000 additional truck trips for hauling of hillside mass excavation

- Anticipated impacts to Parnassus Ave and pedestrian paths of travel along Parnassus Ave. for central plant utility reconfiguration
UCH REPLACEMENT
LANDSCAPED SITE – OPTION E

Area Summary

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<thead>
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<th>Area</th>
<th>SF</th>
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<td>Upper Park</td>
<td>9,800</td>
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<td>Lower Park</td>
<td>11,400</td>
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<tr>
<td>Landscaped Slope</td>
<td>36,800</td>
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<td>Total</td>
<td>57,000</td>
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Truck Trips

<table>
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<th>Task</th>
<th>Trips</th>
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</thead>
<tbody>
<tr>
<td>Hazardous Materials - 2,332 CY</td>
<td>56</td>
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<tr>
<td>Demolition - 3,794 CY</td>
<td>95</td>
</tr>
<tr>
<td>Earthwork - 3223 CY</td>
<td>322</td>
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<tr>
<td>New Construction (3 Trips Per Day)</td>
<td>525</td>
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<tr>
<td>Total</td>
<td>998</td>
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</table>

Construction = 2 Years 3 Months
UCH REPLACEMENT
LANDSCAPED SITE - OPTION E

• Noise related to structural demo of UCH

• Anticipated impacts to Parnassus Ave and pedestrian paths of travel along Parnassus Ave. for central plant utility reconfiguration
Draft UC Hall Options Matrix

See Handout
Timing and Phasing

UC Hall and Clinical Sciences Building (CSB)
Replacement results in undesirable impacts including:

- Overall project duration is 3 years longer (60% increase over re-use).
- Noise related to structural demo of UCH
- 5,000 additional truck trips for hauling of hillside mass excavation.
- Additional impacts to Parnassus Ave and pedestrian paths of travel along Parnassus Ave. for central plant utility reconfiguration.
OFFICES & CLINICS

OPHTHALMOLOGY

OFFICES & CLINICS

LABS

EXISTING

CSB

UCH

DECANT SPACE

0 1 2 3 4 5 6 7

0 1 2 3 4 5
PHASE 1

CSB

<table>
<thead>
<tr>
<th>7</th>
<th>6</th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0</th>
</tr>
</thead>
</table>

UCH

- OPHTALMOLOGY
- OFFICES & CLINICS

| 5 | 4 | 3 | 2 | 1 | 0 | B |

DECANT SPACE (ON PARNASSUS)

- LABS
PHASE 2

CSB

UCH

OFFICES & CLINICS & LABS

OPHTHALMOLOGY

OFFICES & CLINICS

DECANT SPACE
PHASE 2

CSB

OFFICES & CLINICS & LABS

UCH

DECANT SPACE
(LOCATION TBD)

OFFICES & CLINICS

OPHTHALMOLOGY
CSB

OFFICES & CLINICS & LABS

OPHTHALMOLOGY

UCH

RESIDENTIAL

OFFICES & CLINICS

DECANT SPACE

COMPLETE

0
1
2
3
4
5
B
1
2
3
4
5
UCH / CSB RE-USE TIMING & PHASING OPTION C
EXISTING

CSB

OFFICES & CLINICS

LABS

UCH

OPHTHALMOLOGY

OFFICES & CLINICS

DECANT SPACE

LABS

OPHTHALMOLOGY
Phase 1

CSB

UCH

Ophtalmology

Offices & Clinics

Offices & Clinics

Decant Space (on Parnassus)

Labs
**PHASE 2**

**CSB**

- Floors: 7, 6, 5, 4, 3, 2, 1, 0

**UCH**

- Floors: 5, 4, 3, 2, 1, 0, B

- **OFFICES & CLINICS & LABS**

- **OPHTHALMOLOGY**

- **OFFICES & CLINICS**

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**DECANT SPACE**
PHASE 2

CSB

OFFICE & CLINICS & LABS

OPHTHALMOLOGY

UCH

DECANT SPACE
(LOCATION TBD)

OFFICES & CLINICS

UNDER CONSTRUCTION