WELCOME

CSU Master Plan (MPC) Committee Meeting

February 12, 2020
Today’s Agenda

1. **Construction Logistics and Communication:** *Informational* – David Hansen, University Landscape Architect, and Tim Kemp, Asst. Director for Engineering and Capital Construction, Facilities Management

2. **Solar on Campus - Standards and Opportunities:** *Request to Approve* – Carol Dollard, University Energy Engineer, Facilities Management
Construction Impacts – (Mid January – February 2020)

Lagoon Agricultural Sciences Building (Shepardson) Libbie Coy Way Closed through Summer 2021

 Hughes Way South bike lane and sidewalk Closed end of Feb.

Meridian Village Ph 1

Note: construction dates are subject to change
Construction Impacts – (March – Mid May 2020)

- **Hughes Way**
  - South bike lane and sidewalk closed

- **Lagoon**

- **Amy Van Dyken/Univ. Ave/ Lot 350 Closed**

- **Libbie Coy Way Closed through Summer 2021**

- **Meridian Village Ph 1**

**Note:** construction dates are subject to change

Revision date: 01/30/2020
Construction Impacts – (Mid May – June 2020)

Hughes Way
- Street and parking closed

Lagoon
- Geo X Ph1
- Laydown

Lot 412
- Meridian Ave
- Closed

Lot 425
- Meridian Village Ph1
- Temporary Access Road for Lot 425 Access

Libbie Coy Way
- Closed

LSC
- Laydown
- Renovations through Summer 2021

Nutrien Agricultural Sciences Building
- (Shepardson)

Lot 349 & 350
- Closed

Lot 412
- Temporary Access Road for Lot 425 Access

Sanitary Line Replacement

Note: construction dates are subject to change

Revision date: 01/30/2020
Construction Impacts – (June – July 2020)

- Hughes Way
  - Street and parking closed

- Lagoon
  - Geo X Ph1

- Laydown
  - Street and parking closed

- Meridian Village Ph 1
  - Temporary Access Road for Lot 425 Access

- Lot 412
  - Street Paving

- Lot 425
  - Street Paving

- LSC
  - LSC Renovations through Summer 2021

- Street and parking closed

- Amy Van Dyken/Univ. Ave/Lot 349 & 350 Closed

- Meridian Ave. Closed

- NCAA Women’s Soccer & Softball Complex

- Street Paving

- Nutrien Agricultural Sciences Building (Shepardson)
  - Street Paving

- Libbie Coy Way Closed through Summer 2021

Note: construction dates are subject to change

Revision date: 01/30/2020
Construction Impacts – (July – Mid August 2020)

- Hughes Way
  - Street and parking closed

- Lot 412
  - Meridian Ave. Closed

- Lot 425
  - Meridian Village Ph 1
  - Temporary Access Road for Lot 425 Access
  - Street Paving

- Street and Parking Closed
- Libbie Coy Way Closed through Summer 2021
- Street Paving
- LSC Laydown
- NCAA Women’s Soccer & Softball Complex
- Geo X Ph1
- LSC Renovations through Summer 2021
- Elevator Replacement
- Sanitary Line Replacement

Note: construction dates are subject to change

Revision date: 01/30/2020
Construction Impacts - Mid August - Oct 2020

LSC Laydown

NCAA Women’s Soccer & Softball Complex

Geo X Ph1

Geo X Ph2

Meridian Village Ph 1

LSC Renovations through Summer 2021

Libbie Coy Way Closed through Summer 2021

Note: construction dates are subject to change

Revision date: 01/30/2020
Construction Impacts – (Oct. – Dec. 2020)

NCAA Women’s Soccer & Softball Complex
To be Completed Summer 2021

Geo X Ph2
To be Completed Spring 2021

Meridian Village Ph 1
To be Completed Summer 2022

LSC Laydown

LSC Renovations through Summer 2021

Nutrien Agricultural Sciences Building (Shepardson)
Libbie Coy Way Closed through Summer 2021

Note: construction dates are subject to change
Additional Campus Construction Projects

South Campus:
• Johnson Family Equine Hospital
• Bay Facility
• South Campus utility infrastructure

Foothills Campus:
• CVID
• Central Chill Plant
• Temple Grandin Equine Center

Mountain Campus:
• Wastewater Treatment Facility
• Learning Center

* Along with Maintenance and Remodel Projects
Communication and Outreach Plan:
- SOURCE: source.colostate.edu/construction-and-parking
- Additional presentations in 2020
- Social media
- Other news media (Collegian, Coloradoan, etc.)
- On-Site project posters
- Display information at key locations
- Facilities Management website

Contact Information:
Tim Kemp, Asst. Director for Engineering & Capital Construction
Facilities Management
tim.kemp@colostate.edu
Office: 970.491.0051
Cell: 970.219.9762
Solar 2020

Carol Dollard
Master Plan Committee
February 2020
Solar 2020 - More Solar on Campus

• Why?
  – Students love them!
  – Aligns with the University’s sustainability goals
  – Reduces carbon emissions & can save the University money

• What?
  – Photovoltaic solar systems

• Where?
  – Rooftops
  – Parking Structures & Lots (canopies)
  – Bike Shelters
  – Ground Mount (on remote campuses in conjunction with Ag uses)

• How?
  – Power Purchase Agreement (PPA) so capital cost can be paid off over time
Criteria & Exclusions

- Installations generally limited to available rooftops, parking structures, parking canopies and bike shelter canopies.
- Ground mount installations are allowed only where they are compatible with existing research & agricultural programs on rural campuses.
- Installations only allowed on assets that have a projected life of 20 or more years.
- Solar installations will not be allowed on designated CSU open spaces.
- Where it can be done aesthetically, visible rooftop solar is desired.
- On historic structures, rooftop solar should generally not be visible from the ground.
Precedents
We already have rooftop solar on these buildings:

- Braiden – 100 kW
- Student Rec – 540 kW
- Parmalee – 135 kW
- Edwards – 110 kW
- VTH – 220 kW
- UCA – 100 kW

We have the capacity to do more than three times this much solar on Main, South and Foothills campus roofs.
Visibility

On certain buildings we want solar to be invisible like this array at UCA. Other sites, like Braiden, visibility is a plus.
Parking Garages

Co-benefits of shading
Parking Canopies

Need to identify lots with a 20+ year lifetime
Bike Shelters

Model on campus at Libbie Coy & Pitkin
Ground Mount

Projects that can have Ag co-benefits
Proposed Timeline

• Committee Presentations (Q1 2020)
  • Design Review Committee
  • Master Plan Committee
  • Physical Development Committee
• Develop & Issue RFP (Q2 2020)
• Selection Process (Summer 2020)
• Project Development/Contracting (Q3 2020)
• Construction (Fall 2020 – Spring 2021)
Opportunities for Solar on Main Campus
Opportunities for Solar on South Campus
Opportunities for Solar on Foothills Campus
Opportunities for Solar on ARDEC
Proposed motion: Update the CSU Development Standards to allow solar installations in parking lots, bike shelters, on buildings, and ground mounted with prior approval of the specific location by the Physical Development Committee.
Questions?

Carol.Dollard@colostate.edu
Thank you