

# Citizens Advisory Panel Meeting No. 2 Well 15 VOC Mitigations Treatment Design and Construction

6:30 p.m.  
April 9, 2012  
Street's East Lunch Room  
4602 Sycamore Avenue



## Introductions

- ▶ Alan Larson, MWU Project Manager
- ▶ Andy Mullendore, Strand Associates, Design Engineer
- ▶ Danielle Theriault, Potter Lawson, Architect

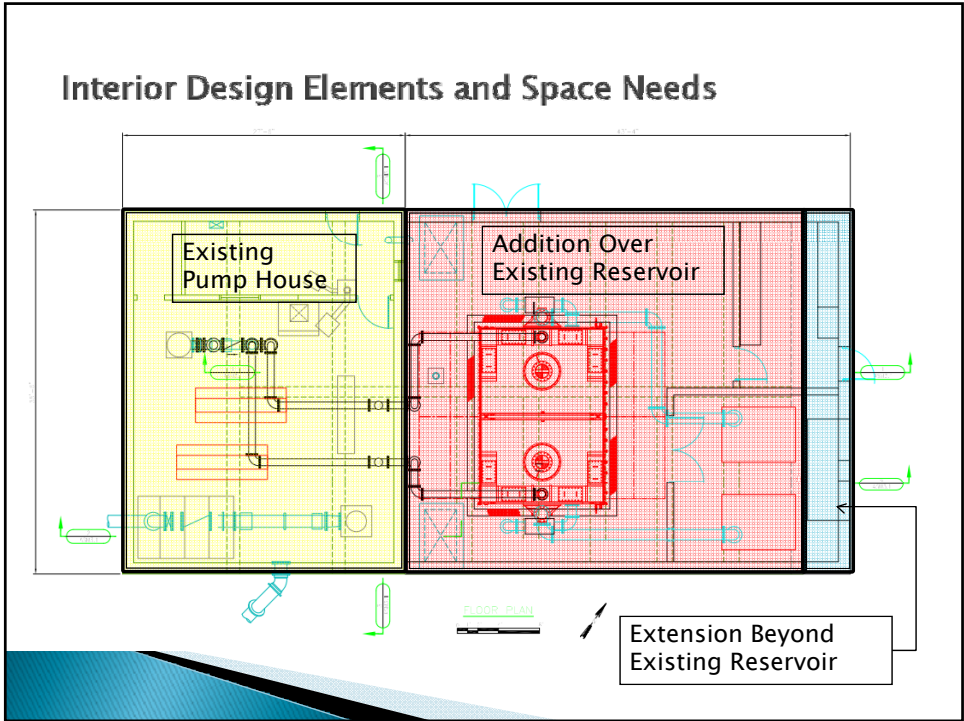
## VOC Stripper Design/Construction City Approval Schedules

- ▶ **City Planning Process –Tentative Timeline**
  - Urban Design Commission – March through June 2012
    - Informational Meeting (April 4, 2012, Completed)
    - Initial Approval (Submittal by April 25, 2012, Meeting May 16, 2012)
    - Final Approval (Submittal by May 30, 2012, Meeting June 6, 2012)
  - Conditional Use – April Through June 2012
    - Plan Commission (Submittal Due April 18, 2012, Public Hearing/Meeting June 4, 2012)
    - Common Council (Submittal Due April 18, 2012, Public Hearing/Meeting June 19, 2012)
  - Final Plan Submission – July 2012 (Final Drawings to Planning, Building Approvals)
- ▶ **Bidding Approval – July 2012**
  - Board of Public Works
  - City Council
- ▶ **Start Construction – September 2012**
- ▶ **Complete Construction – July 2013**

## VOC Stripper Design/Construction State Approval Schedule

- ▶ **Wisconsin Department of Natural Resources**
  - Construction Permit (July 2012)
- ▶ **Wisconsin Public Service Commission**
  - Application for Authority to Construct (July 2012)

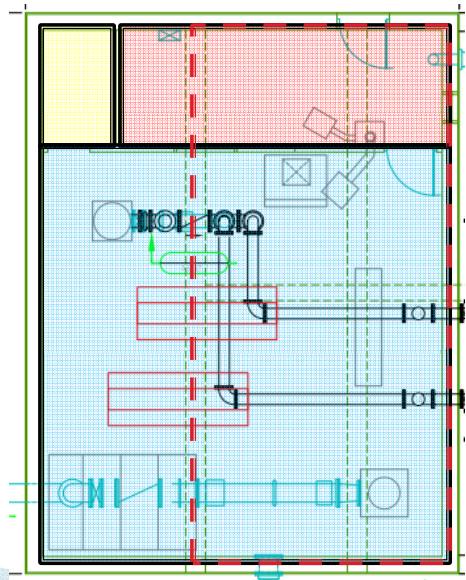
### Interior Design Elements and Space Needs



### Interior Design Elements and Space Needs

**Existing Pump Station**

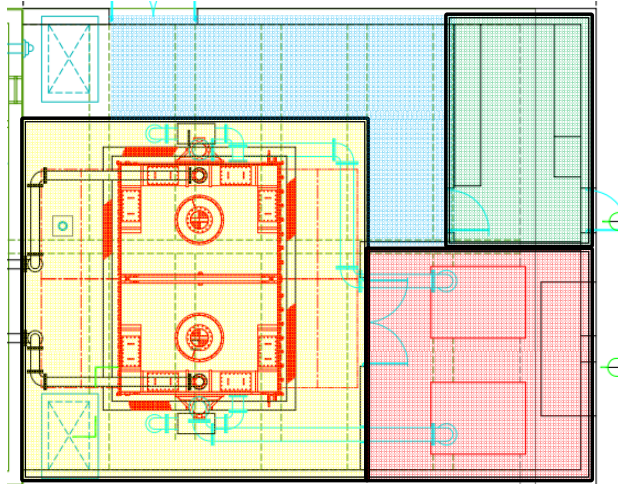
- ▶ Non-functioning Restroom
  - ▶ Chemical Room
    - ▶ Fluoride
    - ▶ Chlorine
  - ▶ Pump Room and Controls
  - ▶ Reservoir below
- Changes**
- ▶ Well Discharge Piping
  - ▶ Controls



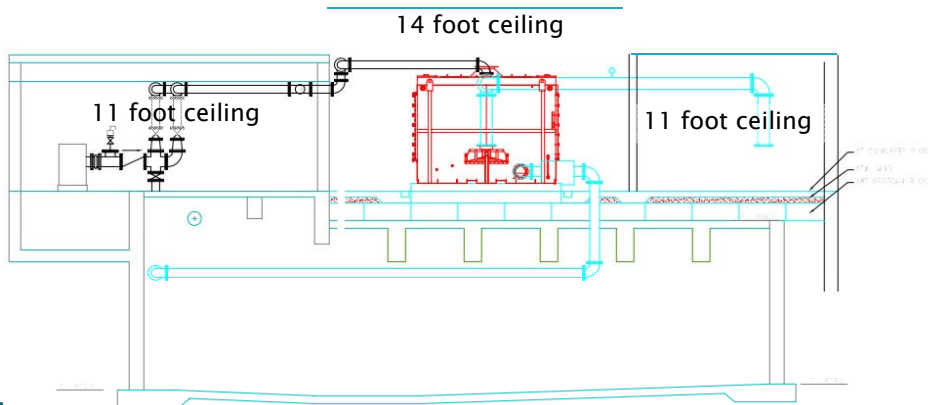
### Interior Design Elements and Space Needs

New Addition

- ▶ Air Stripping
- ▶ Tray Cleaning Area
- ▶ Motor Controls
- ▶ Blowers



### Interior Design Elements and Space Needs



## Discussion of VOC Stripper Design/Construction Challenges

- ▶ Structural Capacity of Existing Reservoir
  - Preliminary analysis suggests the structure is capable of supporting a facility being built on it.
  - Geotechnical analysis is needed to verify that existing soil conditions can handle additional load.
 

Geotechnical Evaluation is Underway
- ▶ DNR Concerns
  - Current DNR code discourages below grade construction of reservoirs
  - Occupied spaces and uses above reservoir may require special considerations.
 

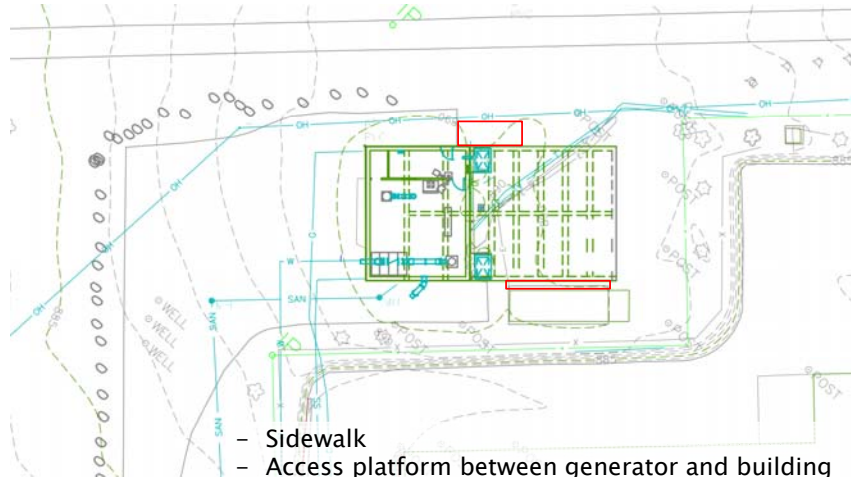
We have met with DNR and there do not appear to be any major hurdles to implement the plan.
- ▶ Noise Considerations
  - VFD drives create more motor noise
  - Blower for air stripper
 

Design takes this into consideration
- ▶ Perception of Air Stripper Discharge
- ▶ Site Security

## Site Design Elements and Space Needs

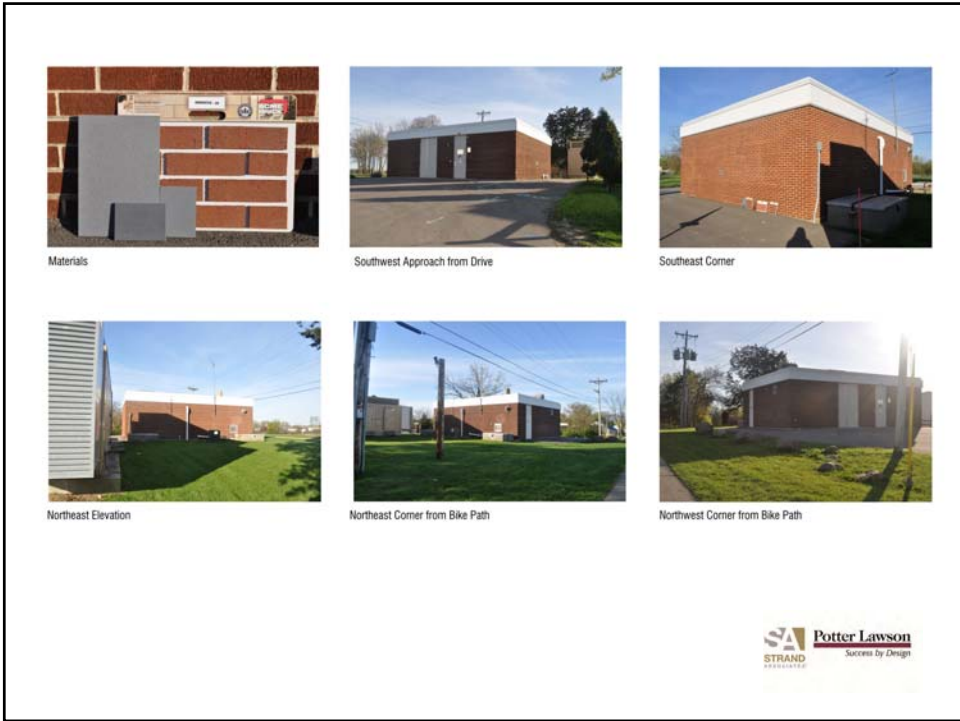


### Site Design Elements and Space Needs



- Sidewalk
- Access platform between generator and building
- Relocation of building electrical service
- New building sanitary











OPTION 3 | NW ELEVATION



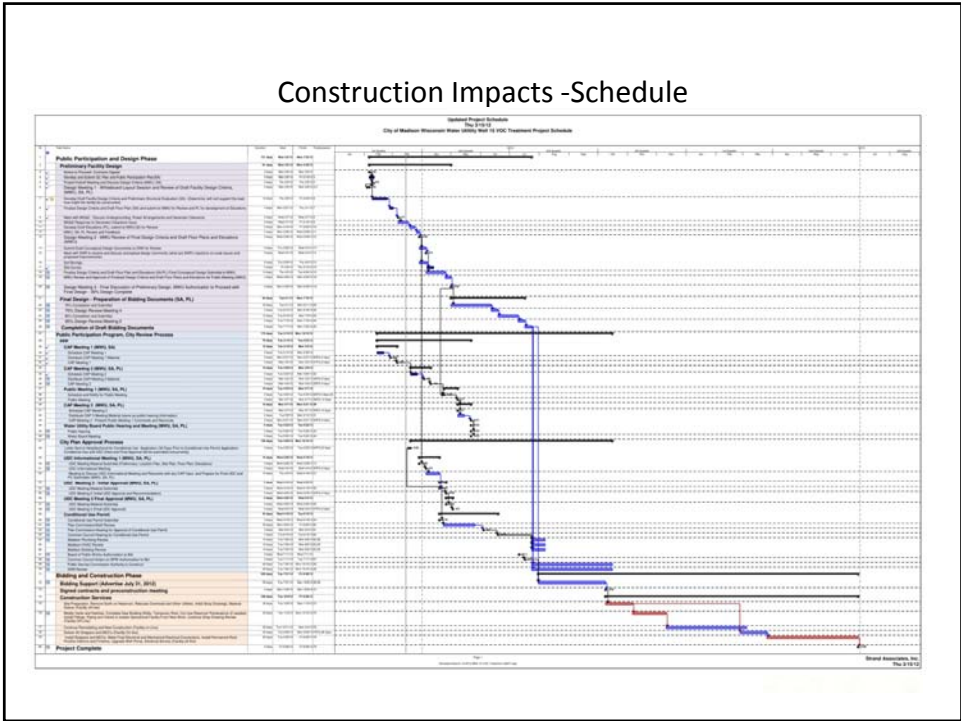
OPTION 3 | NE ELEVATION



EXTERIOR IMAGES



### Construction Impacts -Schedule



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Activity	Time Frame
Begin Construction	September 2012
Foundation Work	September/November 2012
Facility Down for Preliminary Prep Work	November/December 2012
Delivery of Equipment	February/March 2013
Complete Construction	March/June 2013

## Construction Impacts –Well Operation

- ▶ The intent is that the well stay in operation as much as possible during the construction process.
- ▶ Currently two shut down periods are envisioned:
  - 4 to 5 five weeks beginning in the first week of November
  - 2 to 3 months beginning in the end of March and ending in mid to late June



## Potential Construction Impacts on Neighborhood

- ▶ Construction Traffic/Access to Site
- ▶ Dust
- ▶ Noise
- ▶ Disruption in Park/Relocation of Bike Path
- ▶ Site Security



## Next Steps

- ▶ **Public Participation**
  - Week of May 7 - Public Meeting
  - Week of May 14 – Reconcile Public Comments for presentation to Water Utility Board
  - May 22 – Water Utility Board with Public Hearing
  
- ▶ **Urban Design and Planning Commission Submittals**
  - April 18 Submittal for Plan Commission
  - Urban Design Submittal Dates
    - April 25
  - Target Approval Dates
    - Urban Design May 16, 2012
    - Planning Commission June 4, 2012
    - Common Council Approval June 19, 2012
  
- ▶ **Parks Department Approval**
  - May 9 Parks Commission Meeting



## Questions and Discussion



Thank You!

