Managing Your Grading Permit:
Stage Changes, Closures, & More

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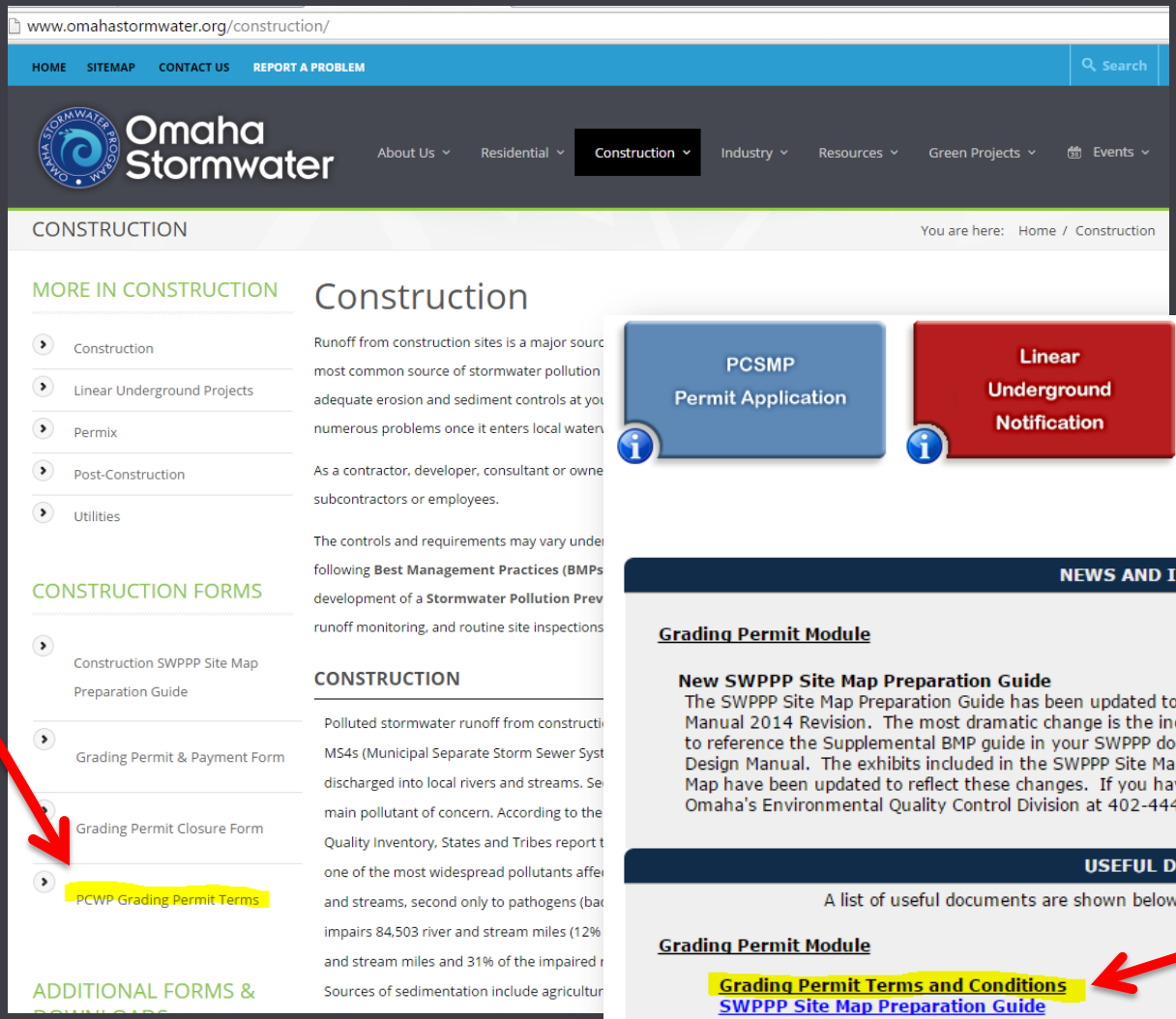
Agenda

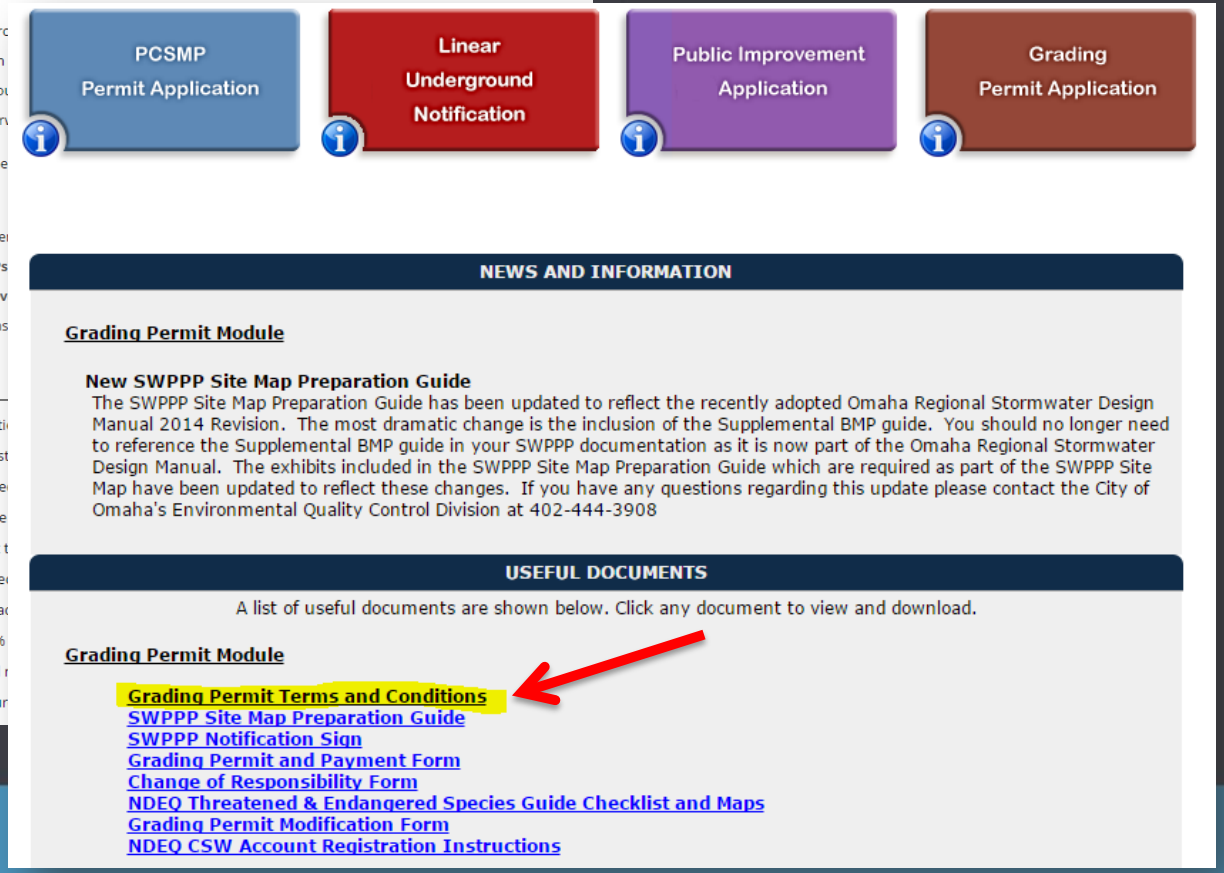
- Stage Changes
  - Winter, temp stabilization
- Permit Closure
  - Permanent stabilization & Post-construction
- Program News & Wrap up

Grading Permit Terms

OmahaStormwater.org/construction



OmahaPermix.com

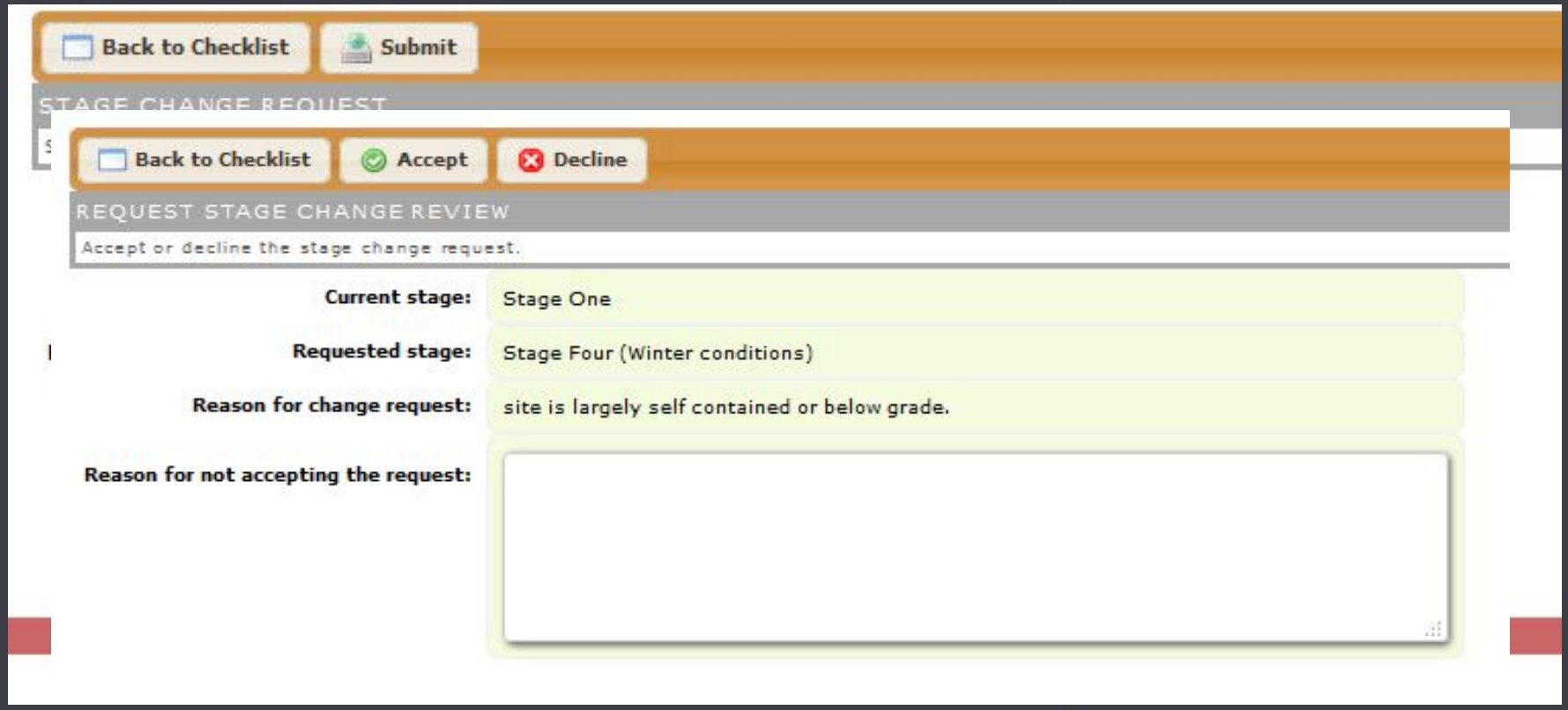


Stage Changes

Process & Expectations

Stage Changes

- **The Process**
  - Engineering inspector submits request on Permix



Grading Permit Terms – Stage Changes

Table 3

STAGE REQUIREMENTS			
Stage 1	**Stage 2**	**Stage 3**	**Stage 4 (winter stage)**
Sites that do not qualify for Stage 2, 3, or 4	Compliance with the Stage 1 requirements	Compliance with the Stage 2 requirements	Compliance with the Stage 1 requirements
Permitting Community has issued a Grading Permit for the construction site and a PCWP Stripping and Grading Notification Form has been submitted	All erosion prevention and sediment control measures have been installed and are functioning correctly	All public improvements have been installed	BMPs have been installed and are properly maintained
	All Inspection Reports are up to date and accurate	The PCWP has allowed the transition to Stage 3 Site inspection and reporting requirements	Stabilization measures have been implemented in areas of environmental sensitivity and higher erosion potential
	All site grading has been completed in accordance with the SWPPP (note: minimal utility and/or building pad excavation may be conducted)		Activities involving heavy equipment are limited or stopped
	Vegetative ground cover has been fully established		Runoff is unlikely due to winter conditions (e.g., site must be covered with snow, ice, or the ground is frozen)
	The PCWP has allowed the transition to Stage 2 Site inspection and reporting requirements		The request to transition to a Stage 4 Site has been submitted before December 1
			The PCWP has allowed the transition to Stage 4 Site inspection and reporting requirements
			On March 1, all Stage 4 Sites shall revert to the previously assigned stage

Stage Changes

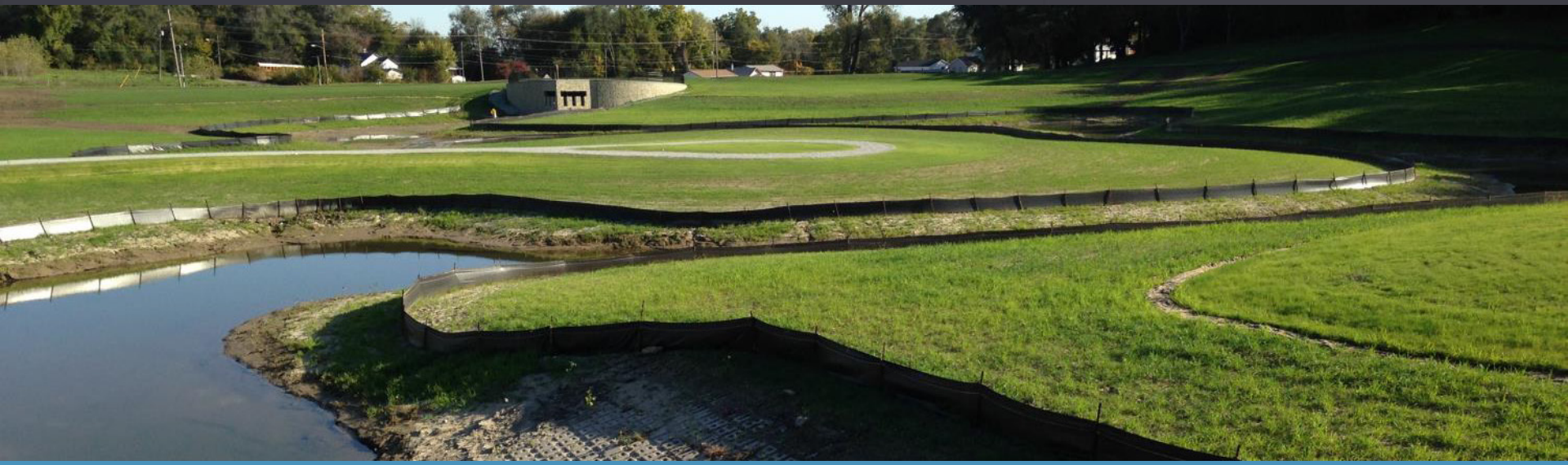
- Stage 1
  - Site does not qualify for Stage, 2, 3 or 4
  - Grading Permit issued and Stripping and Grading form submitted

Stage Changes

- Stage 2
  - In compliance with Stage 1 requirements
  - Sediment and erosion control measures installed and functioning correctly
  - Inspection Reports accurate and up-to-date
  - All grading complete with minor exceptions
  - Vegetative ground cover fully established

Stage Changes

- Stage 3
  - In compliance with Stage 2 requirements
  - All public improvements installed



Stage Changes

- Stage 4 (Winter Stage)
  - BMPs installed and maintained
  - Stabilization measures implemented in areas of environmental sensitivity and higher erosion potential
  - Limited or no heavy equipment activity
  - Runoff unlikely due to winter conditions

Grading Permit Terms: Stabilization

PCWP General Grading Permit Terms, Section L: Management Practices

4. Except as provided below, stabilization (e.g., temporary seeding, permanent seeding, and mulching) measures must be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.

   a. Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions, stabilization measures must be initiated as soon as practicable. Proactive measures to control runoff should be implemented prior to a significant snow melt or thaw.

   b. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the site. As site conditions warrant, alternative or additional measures need to be initiated to control and prevent fugitive sediment to maintain compliance with the terms of this permit.

   c. In semiarid and drought-stricken areas where initiating perennial vegetative stabilization measures is not possible within 14 days after construction activity has temporarily or permanently ceased, final vegetative stabilization measures must be initiated as soon as practicable.

Temporary Stabilization: 14-Days

- In short, stabilization must be initiated on portions of site as soon as practicable but in no case more than 14 days after construction activity has temporarily or permanently ceased unless…

Temporary Stabilization: 14-Days

- Unless…
  A. Stabilization by 14th day is precluded by snow cover or frozen ground conditions. Stabilize as soon as practicable and proactively control runoff
  B. Construction activity will resume within 14 days
  C. Perennial stabilization is not possible due to drought conditions. Still need to stabilize as soon as practicable

Temporary Stabilization: 14-Days

- Can be difficult to determine at times, there are signs…
  - No change over multiple reports
  - Presence of velvetleaf & other weeds
  - Recent tracks or disturbance
  - Rills & unmaintained BMPs

I've got my BMPs in where I can…

- Disturbance is disturbance
- Stabilize areas as needed
- IP is not stabilization…

The SWPPP map doesn't show stabilization in this area…

- Stabilization required per grading permit terms
- Additional BMPs may be necessary given site conditions

Stabilization doesn't match up with seeding windows…

- Maintain BMPs
- Temp w/seasonal seed
- Add BMPs as needed

It's pretty much stabilized. Rills happen…

- Rills don't get better with time
- Maintain perimeter controls

Grading Permit Closure

Process, Final Stabilization & Post-Construction

Final Stabilization & Project Closures

PCWP General Grading Permit Terms, Part III Section M:

M. Final Stabilization and Conditions for Permit Closure

Prior to submitting the **Grading Permit Closure Form** to the PCWP Permitting Community, the Applicant shall be responsible for ensuring that final stabilization is accomplished on all non-impervious surfaces of the authorized construction site and the following conditions are met:

1. All soil disturbing construction activity has been completed.
2. A uniform perennial vegetative cover with a minimum density of 70 percent of the native background vegetative cover, has been established on all non-impervious surfaces and areas not covered by permanent structures unless equivalent permanent stabilization (such as riprap, gabions, and geotextiles) measures have been employed.
3. All permanent drainages, constructed to drain water from the site, have been stabilized to prevent erosion.
4. All temporary erosion prevention and sediment control BMPs have been removed without compromising the permanent erosion prevention and sediment control BMPs.
5. All sediment build-up has been removed from conveyances and basins that are to be used as permanent water quality management BMPs. The clean out of permanent basins used as temporary BMPs during construction shall be sufficient to return the basin to design capacity.
6. Responsibility for long-term maintenance of permanent BMPs must be assigned (PCSMP has met final approval).
7. Construction activity conducted on or through agricultural or **silvicultural** land shall be considered finally stabilized upon return to the pre-existing agriculture or silvicultural use.

Grading Permit Closure Process

- **2 things required**
  1. City EI inspects the site to see if it is able to close
     - Completes close-out inspection – yes or no
  2. Final documentation is submitted & approved
     - Complete Permit Closure Form
     - Final SWPPP map showing all temp BMPs removed
     - Completed NDEQ NOT
     - Post-construction is completed

70% Vegetative Cover
Yes or No?

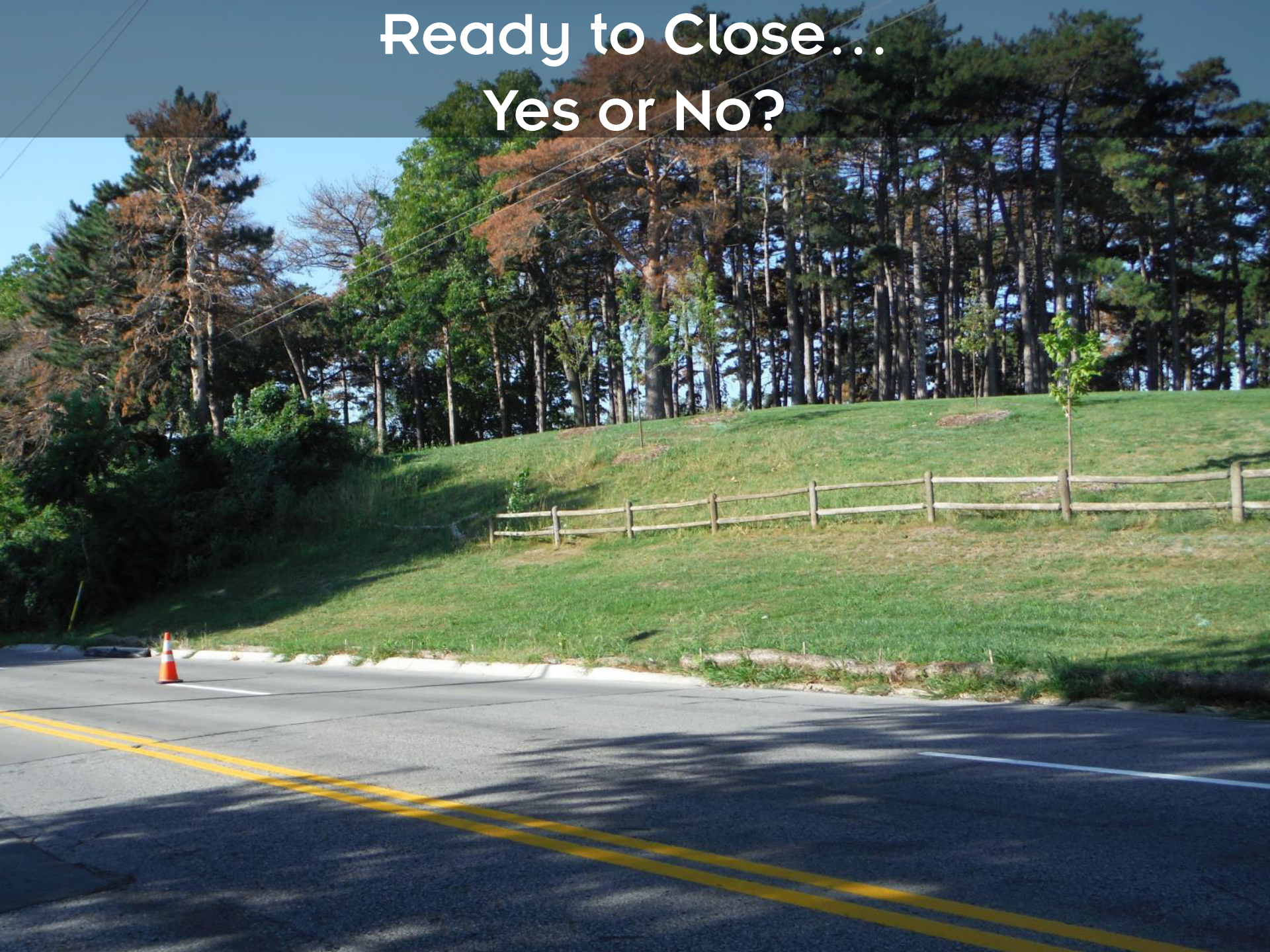
70% Vegetative Cover Yes or No?

- Seed & mat isn't final stabilization
- What is the intent? What was the original vegetation like on site?

Damage to stabilization not due to project Fix it or It's OK?

- Project open till final stabilization…
- Manage the site as needed

Ready to Close…
Yes or No?



Ready for closure…
Yes or No?

- Good cover over site…
- Issues at outfall & where water directed to…

Post Construction & Grading Permit Closure

- Grading permit Part III.M
  - Sediment build up has been removed…permanent water quality management BMPs
  - PCSMP has met final approval
- Case-by-case

Ready for closure…
Yes or No?

- Rest of the site is in good shape…
- PCSMP needs to be completed for grading permit to be closed

Temporary to Permanent BMPs

- Bioretention ≠ sediment basin
- Complete PCSMP, includes certification of its installation

Program News & Wrap-up

Information & Updates to Share

Program News & Wrap-Up

- **Permix**
  - Shut down today – performance improvement
  - Additional updates coming:
    - Inspection report layout improvements
    - Corrective Action Log
    - Application page activity summary
    - And others…
- **Bioretention Garden Manual updated**
  - Reflects current bioretention design, complements ORSDM Chapter 8
  - Lessons learned in design, construction, & maintenance
  - Plant reference guide – latest & greatest
  - Resource for all in design, construction & to share with clients

Program News & Wrap-Up

2016 Great Plains LID Innovation & Research Symposium & Design Competition

- **GreatPlainsLID.com**
- March 7th
  - 2-part workshop: Permeable Pavement & LID Design Charrette
  - Networking Reception at Kaneko with ASLA & ACEC
- March 8th
  - Symposium: Keynotes, break-out sessions
  - LID Design Competition Awards Event
- March 9th
  - LID Tour of Omaha LID practices, in-depth info

THANK YOU!
Open Discussion & Questions

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OmahaStormwater.org