

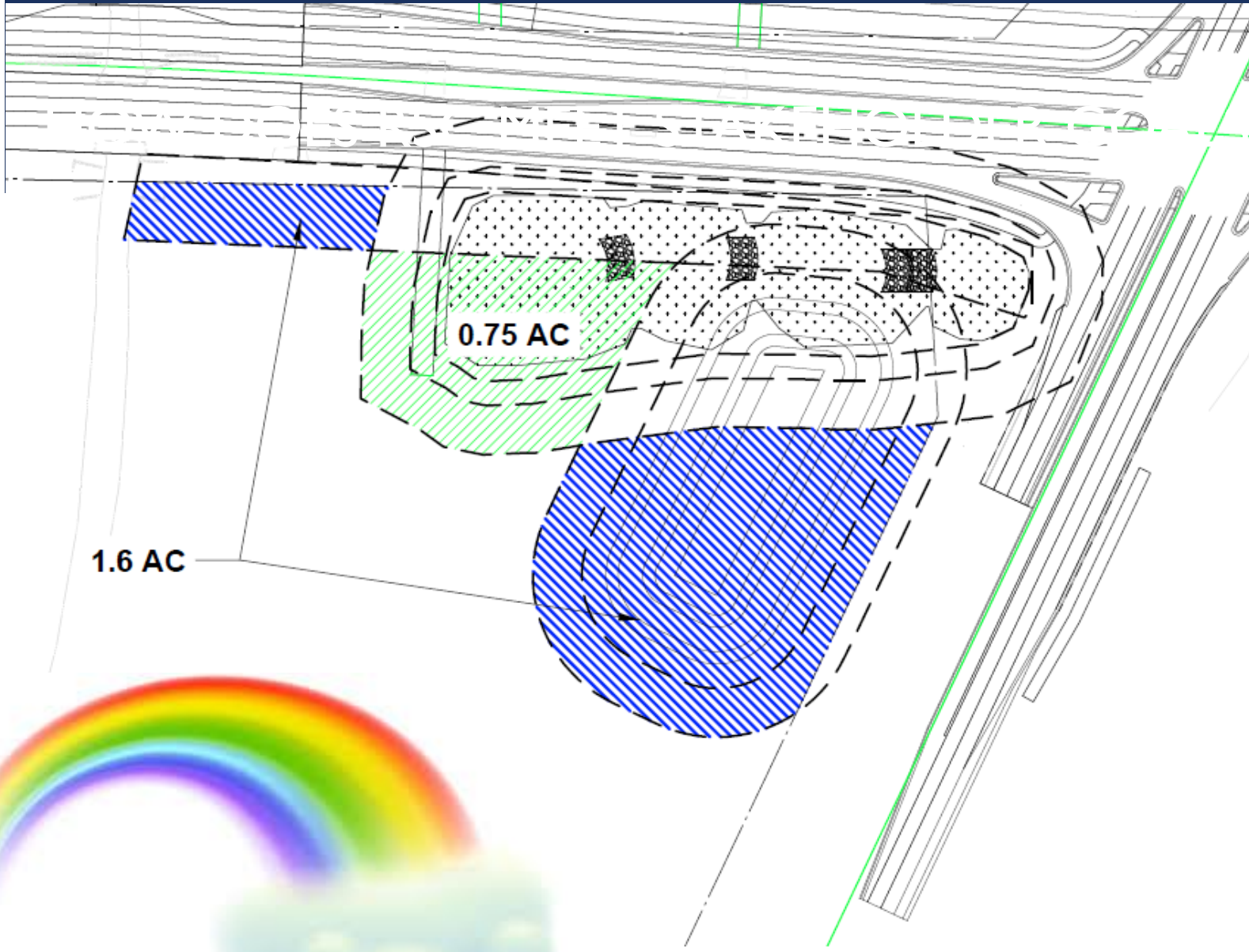
# HOW DOES RSC MEET STAKEHOLDER GOALS?

- Meets or exceeds stormwater criteria for proposed flows

Metric	RSC <sup>1</sup>	Pond <sup>2</sup>
100-yr Peak	16 cfs	16 cfs
2-yr Peak	5.8 cfs	6 cfs
TSS Reduction	60%	40% (min)

<sup>1</sup> Based on preliminary modelling for proposed RSC

<sup>2</sup> From preliminary pond design calcs



- ALLOWS FOR MORE DEVELOPABLE SPACE ON THE PARCEL
- ACHIEVES DNR CRITERIA FOR A STANDARD POND
- CAN BE SHAPED TO BETTER FIT INTO THE RIGHT-OF-WAY



# HOW DOES RSC MEET STAKEHOLDER GOALS?

## Installation

- Comparable in cost to conventional BMPs based on preliminary cost estimates
  - Pond & Roadside Swale: \$275,000
  - RSC: \$288,000, plus removed trunk line



# HOW DOES RSC MEET STAKEHOLDER GOALS?

## RSC

- Inspection (2x year + after large events)
  - Manholes, weir structures
  - Signs of erosion
  - Sediment accumulation that may impact weir structure
- Vegetation
  - 3-year establishment period
  - Mow annually
  - Control for invasive species as needed

## Pond

- Inspection (2x year + after large events)
  - Manholes, inlet/outlet structures
  - Signs of erosion/Sediment accumulation
- Vegetation
  - Control for invasive species as needed

## Swale

- Inspection (2x year + after large events)
  - Signs of erosion/Sediment accumulation
- Vegetation
  - Mow seasonally
  - Control for invasive species as needed

## HOW DOES RSC MEET STAKEHOLDER GOALS?

- Can be part of a restoration project
  - Native plants to promote infiltration
  - Provides a variety of pollutant removal mechanisms (for removal of P, Bacteria, etc.)
  - Habitat creation (i.e. pollinators)
  - Deters geese (not perceived as safe with tall native grasses)
  - Incorporates nicely into recreation, ecological education

# UNDER CONSTRUCTION

First and Second Weirs



Third and Fourth Weirs



# RESULTS: .75" RAIN IN 6 HOURS



First and Second Weirs



Third Weirs



Fourth Weir

# RESULTS: 5" RAIN IN 24 HOURS

Immediately After the Storm (09/12/22)



Three Days After the Storm (09/15/22)



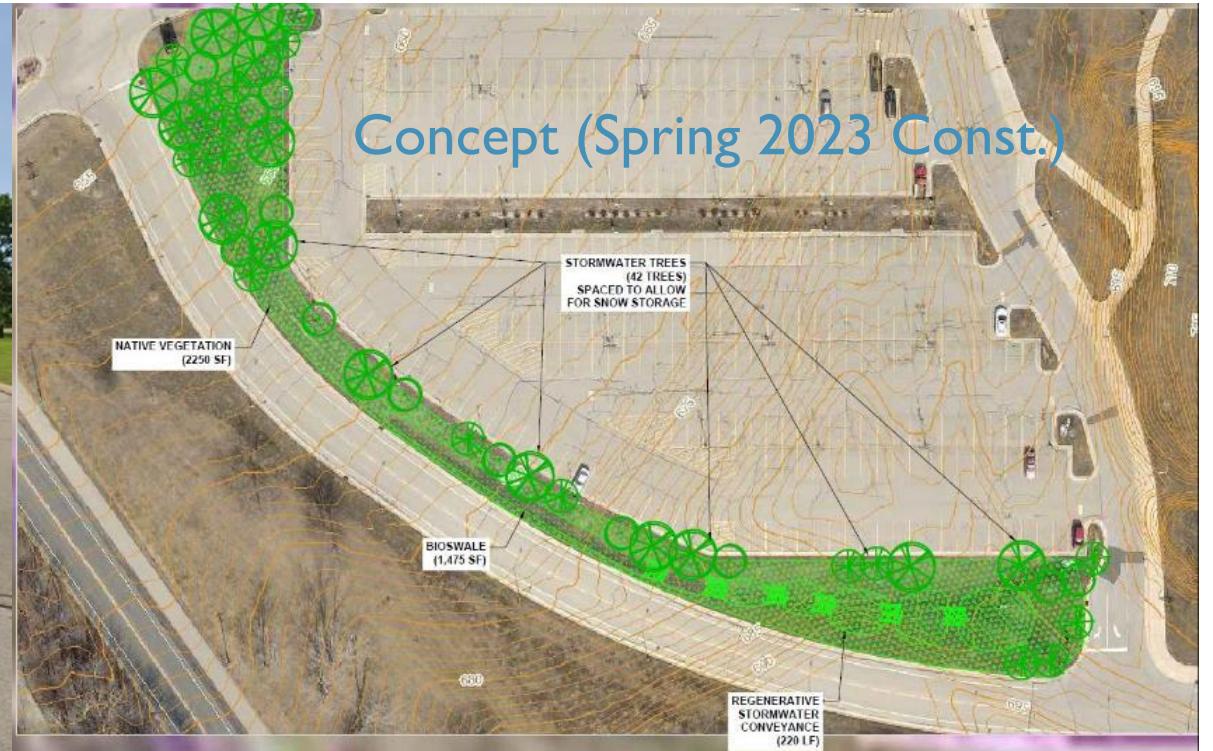


# EARLY ADOPTERS: UW-PARKSIDE

Current Condition

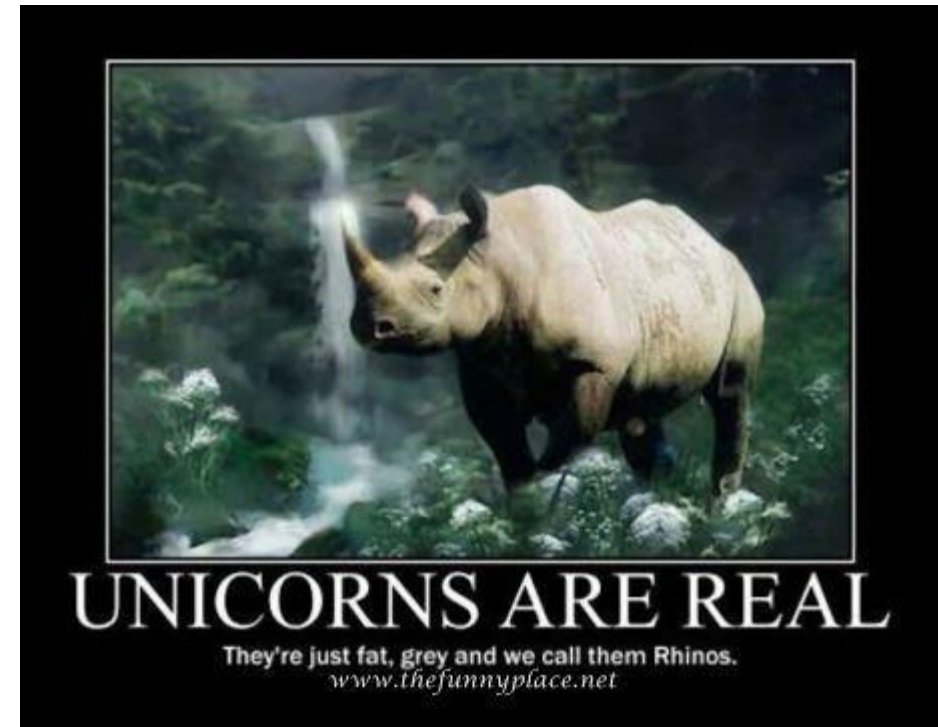


Concept (Spring 2023 Const.)



# SUMMARY

- Seek “win-win”... **early** in the process
- **Don't assume “No”** from DNR/DOT
- **Leverage** the heck out of your plans
- **Green** doesn't always equal more green
- Can the solution **expand their toolkit?**
- Operate with **patience and persistence**





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**SO HAPPY TO ANSWER QUESTIONS!**