



# Leveraging Field Maps for Asset Management

Samantha Workman



## WHO AM I AND WHAT IS GOING ON?

- Grew up farm adjacent in a construction family.
- Moved all over the province and world
- Became an Archaeologist
- Realized I LOVED maps and could get paid to do it for a living.
- Switched careers and somehow convinced Red Deer County to hire me on for my Co-op
- Tricked Stony Plain into hiring me as their GIS Coordinator.

# What did we have to start with?

So where to start? What do I have or know how to use?

- Newly installed and deployed Enterprise System
- ArcGIS Online
- Field Maps
- Survey123
- Collector
- Arrow 100 with a rtk subscription
- Mish mash of inherited data
- Seasonal Engineering Coop students
- Both really eager staff and ones who try to hide when they see me coming.



# Programs so far

Sidewalk Conditions

Mowing

Catch basin Inspections

Utility Field Verification

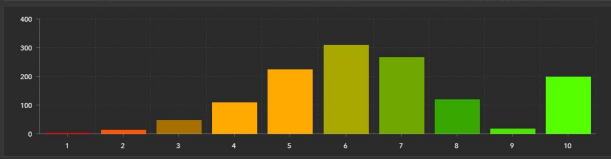
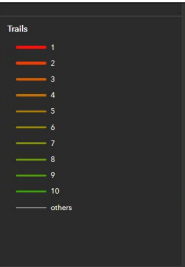
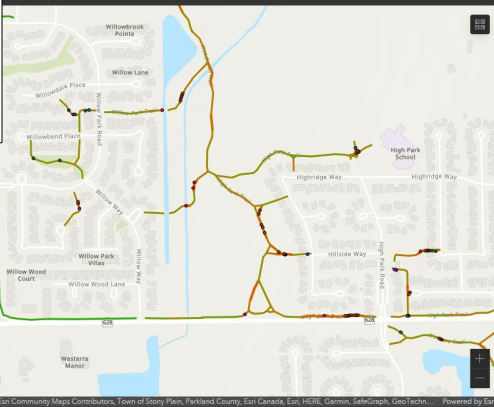
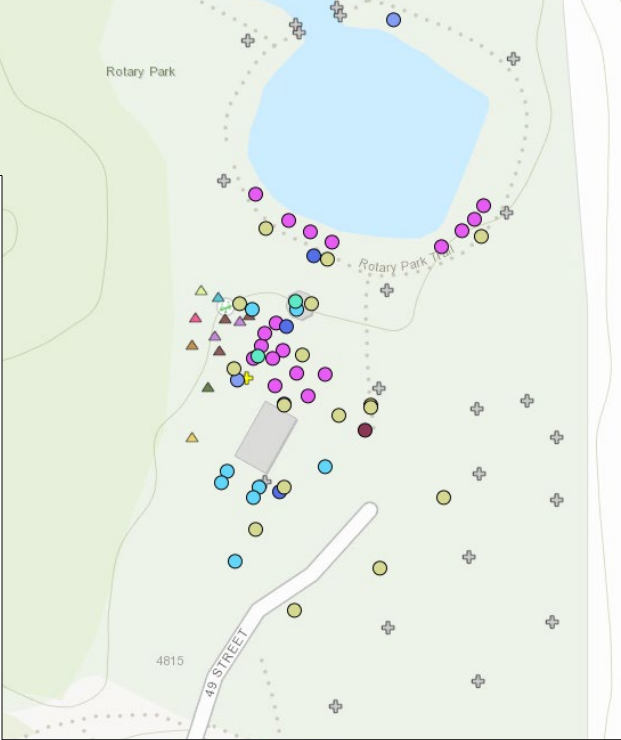
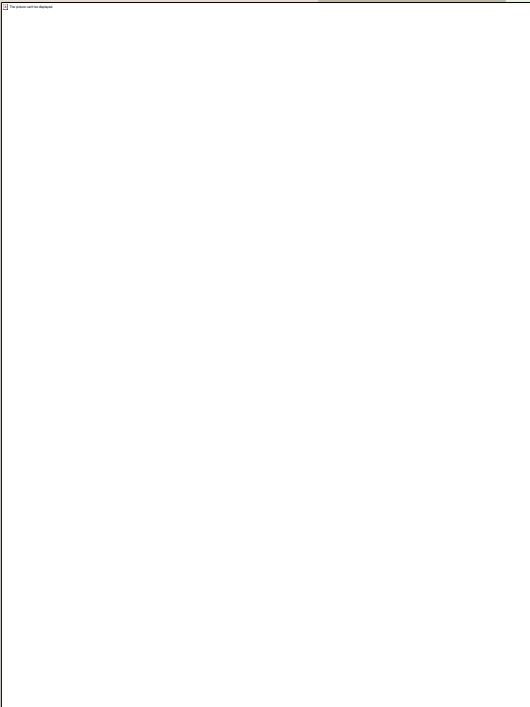
Culverts

Tree Inventory and Maintenance

Trail Conditions

Utilities

Parks Amenities



Trail Portions

Rating: 3

Material: Asphalt

Width: 3

Trail Assessor

Assessment Year: 2021

Comments

Trail Flags

Flag: Other

Comments: split north S

ESRIGNSS\_H\_RMS: 0.02

Last edited by showe\_TOGP on 8/3/2021 3:57 PM

Trail Ratings

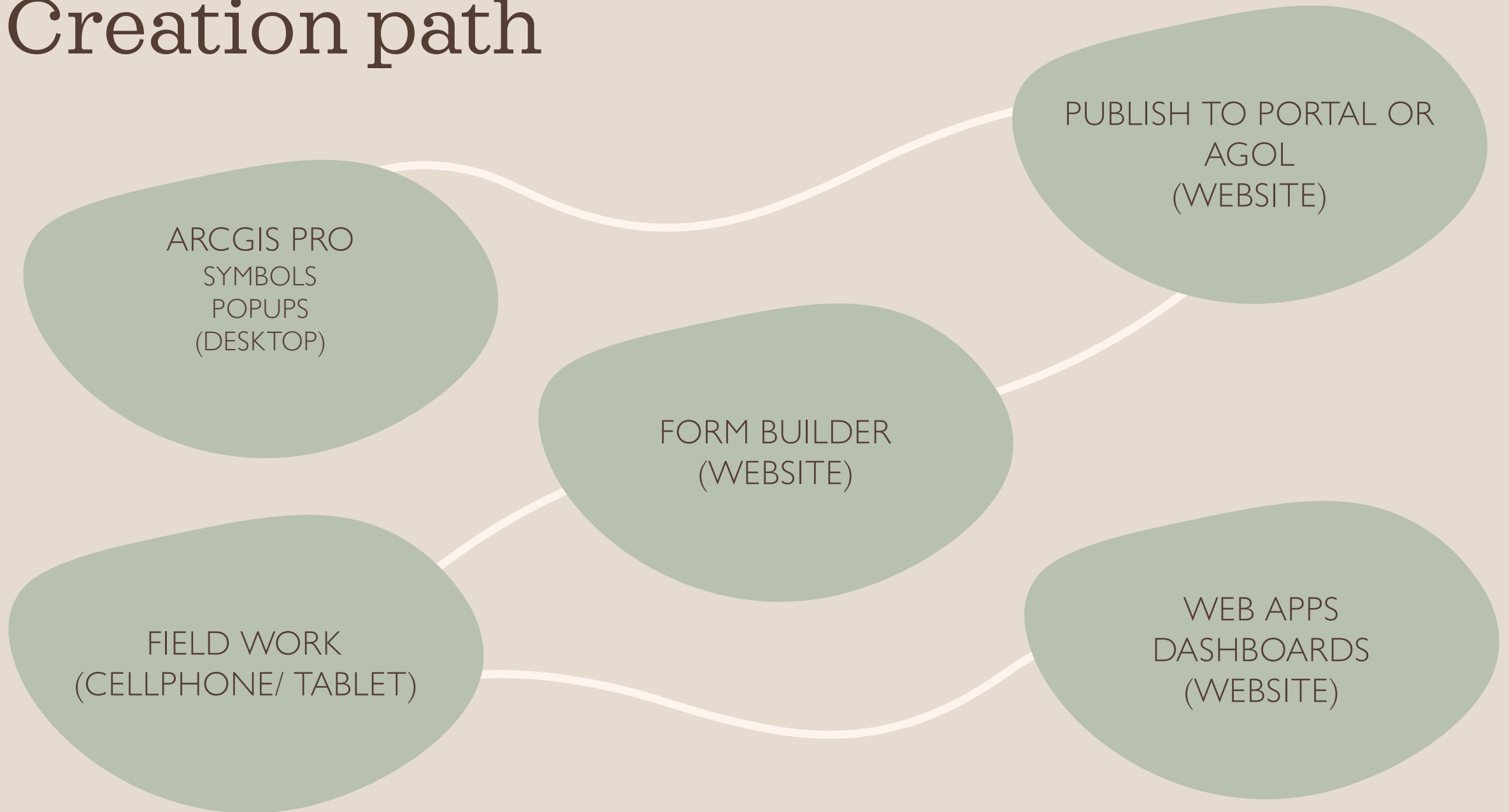
Flag

Without 1% Safety Hazard 7%

Vegetation 20% Utility 9%

Tree Root 60%

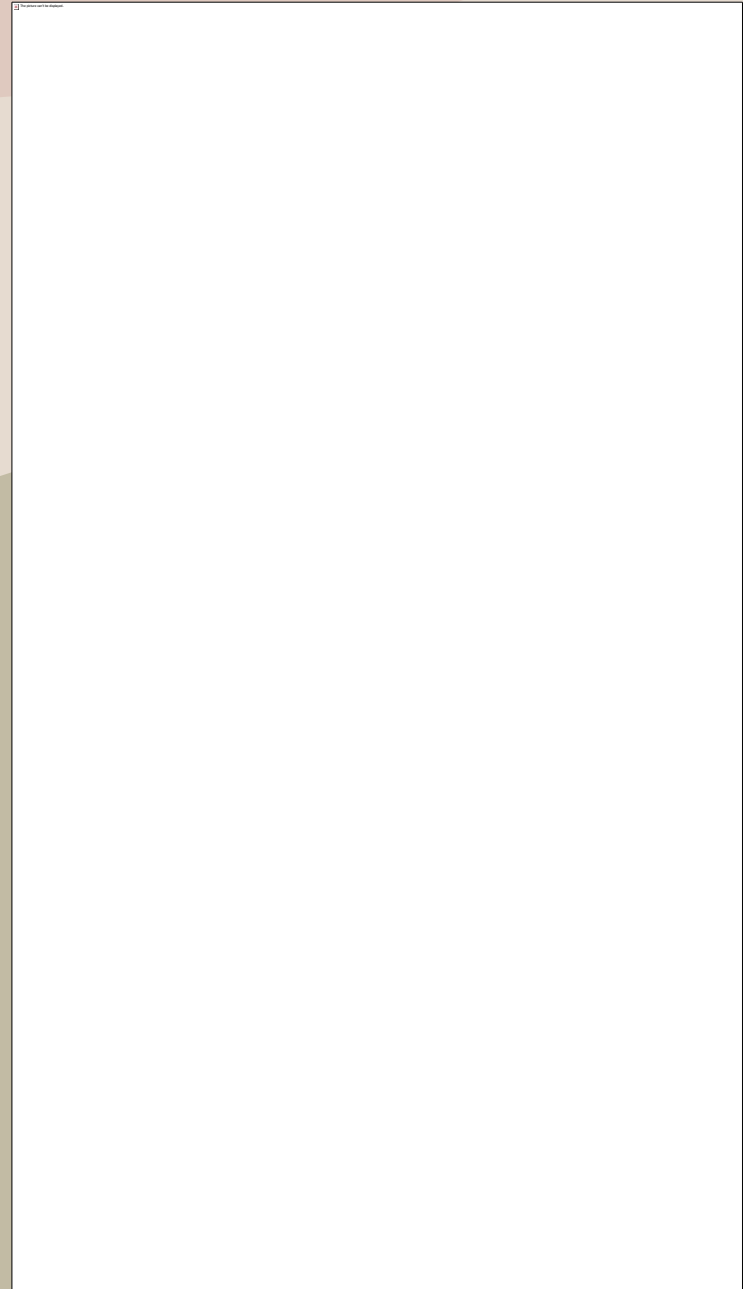
# Creation path





# ArcPro

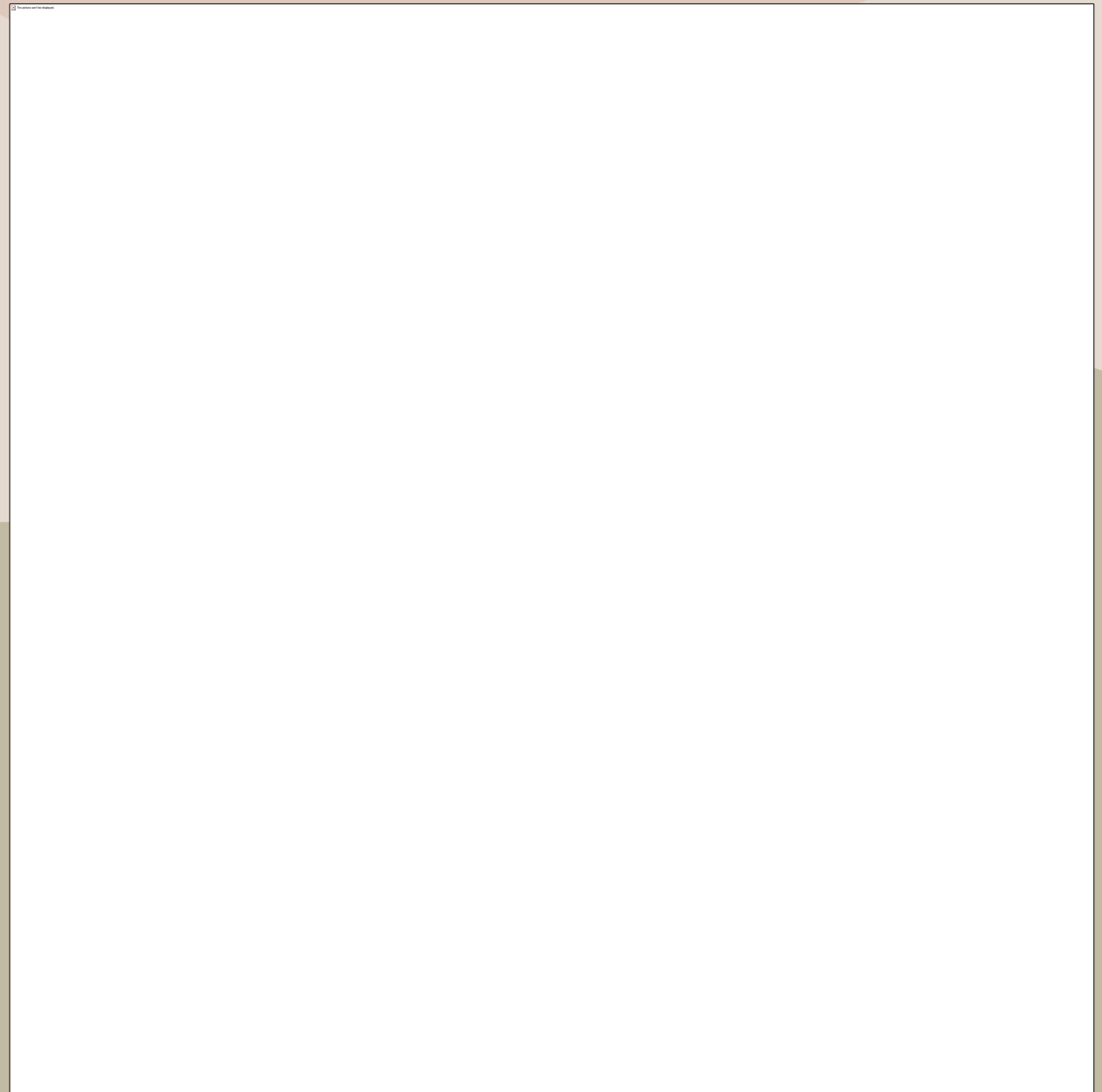
Arcade for Symbology



# ChatGPT Arcade

Using arcade can you write me script that will display the field "MowFinish" as this week, last week, in the last month and more then one month.

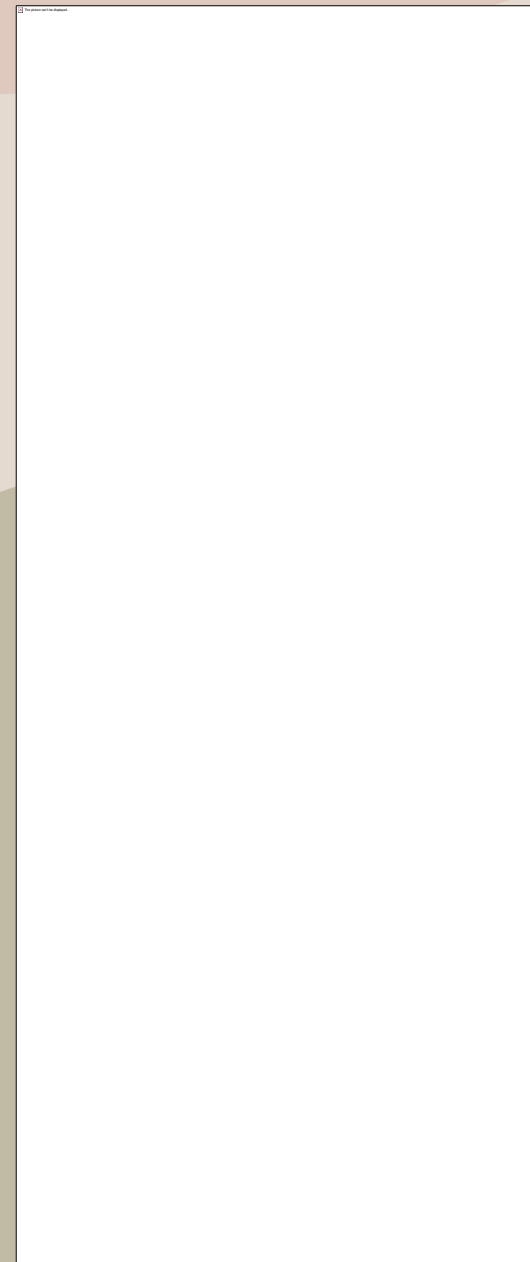
Worked with no editing from me.

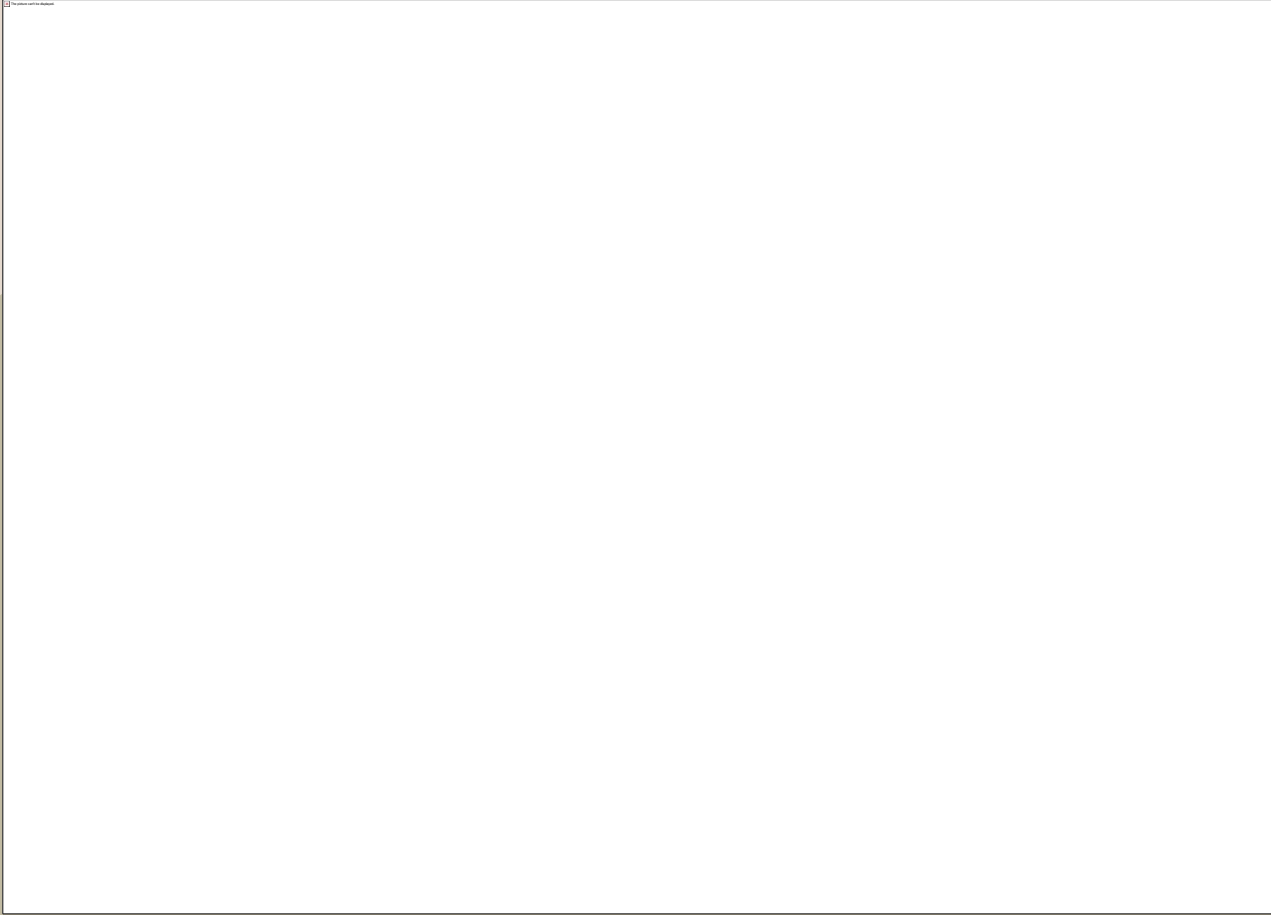




# ArcPro

Configure your popups











# Culverts



# Mowing



# SIDEWALKS

**Layer List**

**Layers**

- Sidewalk Observations
- Sidewalk Defects
- Sidewalk Defects- Rating
- Sidewalk Ratings

**Filter**

**Sidewalk Observations**

Type is: - empty -

**Sidewalk Defects**

Defects is: - empty -

**Sidewalk Defects- Rating**

Defect Rating is: - empty -

**Sidewalk Rating**

Condition is: - empty -

**Legend**

**Sidewalk Ratings**

- Excellent
- Good
- Fair
- Poor
- Very Poor
- Unknown
- others

**Smart Editor**

Select a template to create features or click a feature on the map to edit it

**Print**

Map title: Sidewalk Work

Layout: A4 Portrait

Format: PDF

Advanced Print

Town of Stony Plain, Parkland County, Province of Alberta, Esri Canada, Esri, HERE... esri



# SIDEWALKS

**Layer List**

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**Filter**

**Sidewalk Observations**

Type is: - empty -

**Sidewalk Defects**

Defects is: - empty -

**Sidewalk Defects- Rating**

Defect Rating is: - empty -

**Sidewalk Rating**

Condition is: Very Poor

**Legend**

**Sidewalk Ratings**

- Excellent
- Good
- Fair
- Poor
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- others

**Smart Editor**

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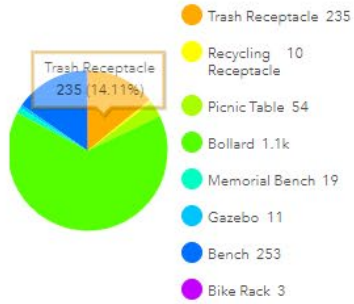
Format: PDF

Advanced

Town of Stony Plain, Parkland County, Province of Alberta, Esri Canada, Esri, HERE...

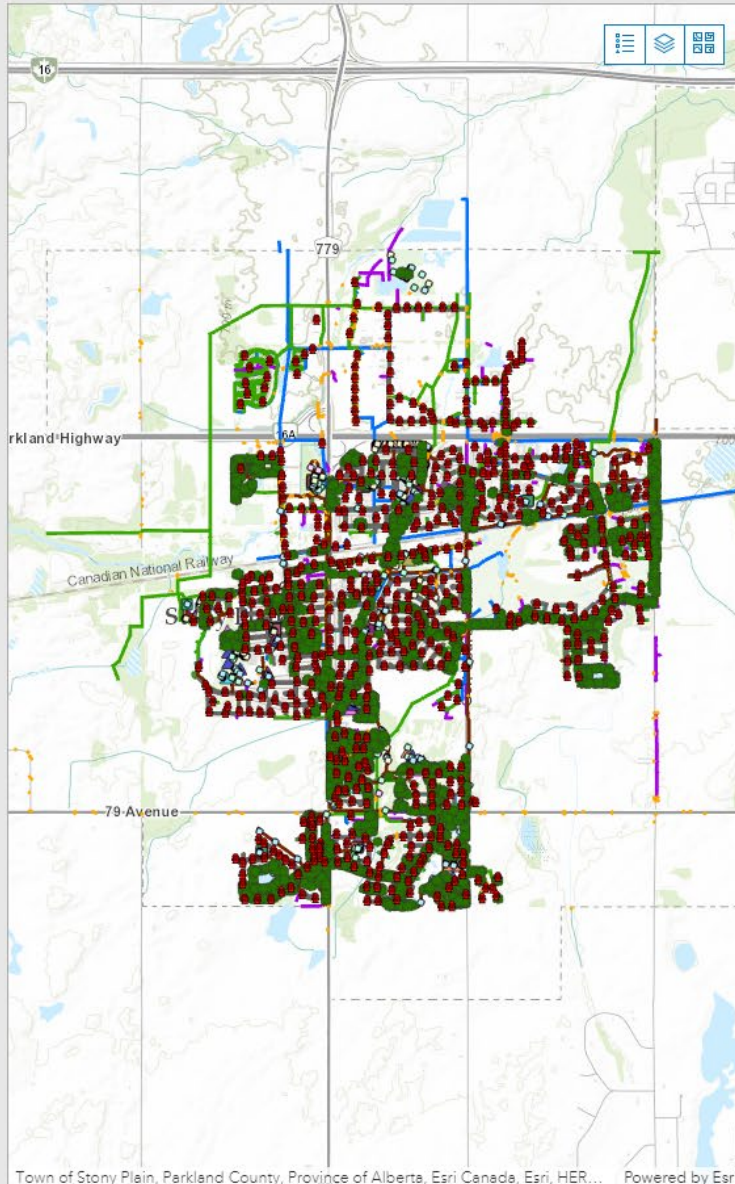
# QUICK REFERENCES

## Park Amenities



## Sanitary Lines

129.8k



## Hydrants

612

## Crosswalks

195

## Park Equipment



## Storm Lines

76.8k

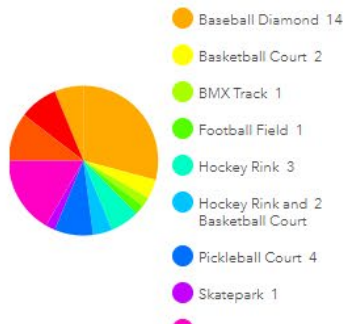
## Culverts

429

## Sidewalks

100.1k

## Recreation Assets



## Water Lines

135.1k

## Shrub Beds

442

## Trails

45.8k

## Trees

5.4k

Town of Stony Plain, Parkland County, Province of Alberta, Esri Canada, Esri, HER... Powered by Esri

# What's next?

Asset Manager Position 2025

Long term repair and renewal planning

Routine Inspections and understanding patterns of wear and tear

Proper Allocation of funds to maintain LOS

Maintenance reporting and not just asset information gathering



# Summary

Things learned:

Trust the staff from those areas to know what they need.

There is always going to be a demand for more, but expectations need to be realistic.

Don't be afraid of arcade! If I can do it, so can you.

Form builder is awesome.

ESRI Solutions are a great starting point.

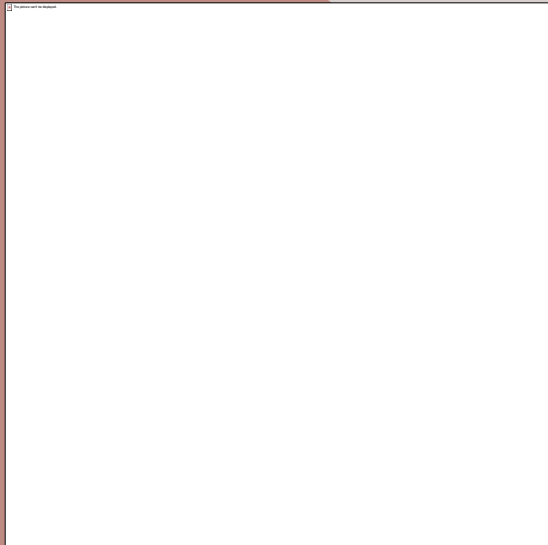
ESRI User Conference/ GIS meetups are invaluable.

Thank you

Any Questions?

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Linkedin QR Code