

City Council Study Session  
February 20, 2024  
AB 6413



# CITY GIS PRODUCTS

# TONIGHT'S PRESENTATION

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1 MEET THE TEAM

2 CITY GIS HISTORY

3 GIS SERVICES

4 INTERNAL PRODUCTS

5 EXTERNAL PRODUCTS

6 KEY PROJECTS

7 SUMMARY

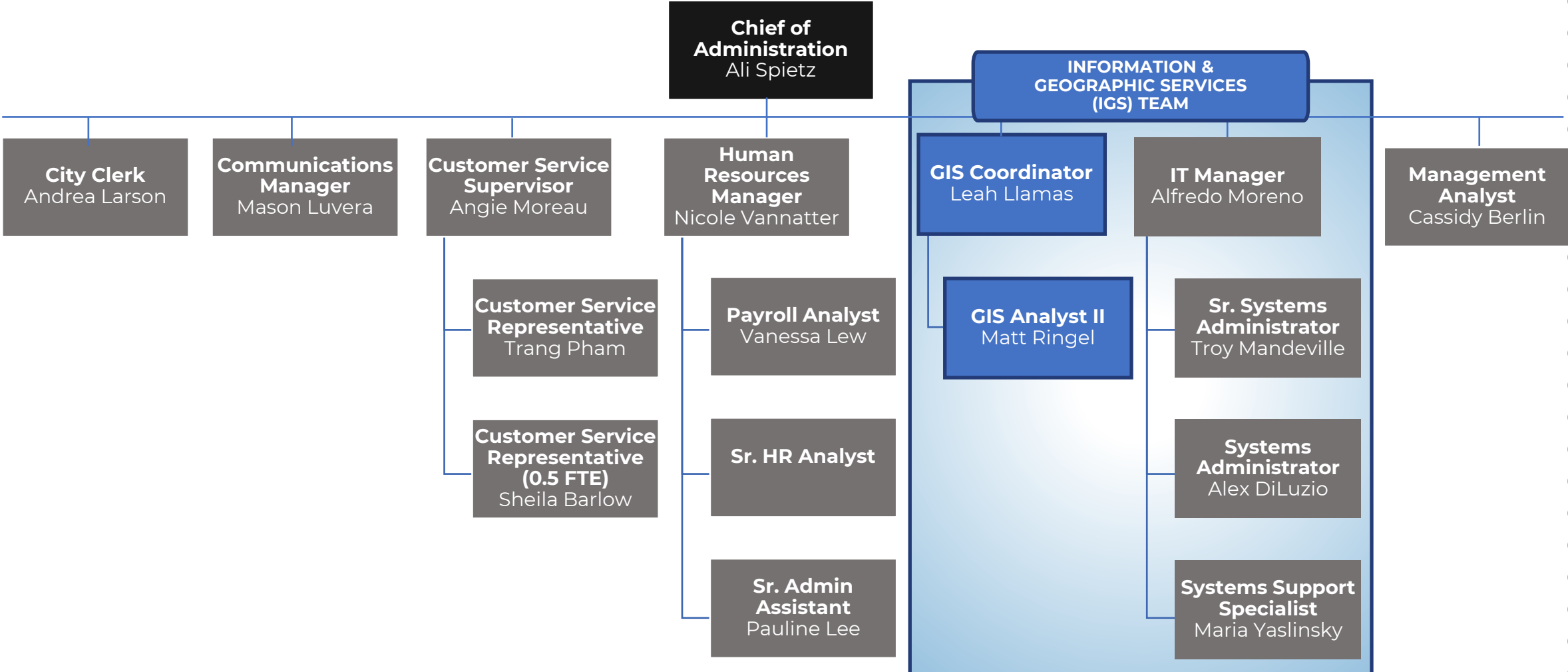
8 QUESTIONS

## PRODUCT DEMOS:

- Internal Web GIS
- Pavement Sensor Dashboard
- Public GIS Data & Map Archive
- Permit & Land Use Web Map

# MEET THE TEAM

## ADMINISTRATIVE SERVICES DEPARTMENT



# GIS HISTORY IN THE CITY

## COUNCIL PRESENTATION DATES

1. 1991, AB2617: Acquire GIS for the City
  - Planning Department
2. 1997, AB3174: GIS Update & Discussion
  - Storm Water Data
3. 1998, AB3319: Status of the GIS Program
  - Summary & Accomplishments to date
4. 2000, AB3530: GIS Demonstration
  - Water & Sewer Data
5. 2021, AB5854: GIS Services
  - Summary of GIS services
6. 2024, AB6413: City GIS Products
  - Internal & External GIS Products



Business of the City Council  
City of Mercer Island, WA

<p><b>PRESENTATION OF GIS/PDA</b></p> <hr/> <p><b>Proceeding:</b> Adjourn to the DSG Work area for presentation/discussion</p>	<p>Bill No. <u>2617</u></p> <p>Dept Origin <u>DEV. SERVICES</u></p> <p>Date Submitted <u>11/07/91</u></p> <p>For Agenda of <u>11/11/91</u></p> <p>Class: PRESENTATION</p> <p>Exhibits: NONE</p> <p>Clearance: DSG Mgr. </p> <p>Approved by City Manager  Submittal _____</p>			
<p>Council Liaison: N/A</p>				
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"><b>Expenditure Required:</b> N/A</td> <td style="width: 33%;"><b>Amount Budgeted:</b> N/A</td> <td style="width: 33%;"><b>Appropriation Required:</b> N/A</td> </tr> </table>		<b>Expenditure Required:</b> N/A	<b>Amount Budgeted:</b> N/A	<b>Appropriation Required:</b> N/A
<b>Expenditure Required:</b> N/A	<b>Amount Budgeted:</b> N/A	<b>Appropriation Required:</b> N/A		
<p><b>SUMMARY STATEMENT</b></p>				
<p>The Development Services Group will present, for Council's information, the status of the development of the Geographic Information System (GIS) and the Planning and Data Acquisition System (PDA). This presentation will be held in the Departmental work area. Staff will present information outlining the department's "paperless" review system, electronic mapping, integrated data base management, and system integration with existing and potential users.</p>				

# GIS SERVICES

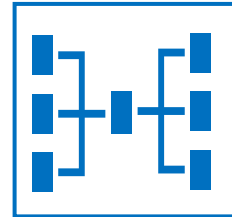
## INTERNAL & EXTERNAL CUSTOMERS



**MAPS**



**DATA**



**INTEGRATION**



**APPLICATIONS**

## INTERNAL CUSTOMERS



**ANALYSIS**



**PROJECTS**



**SUPPORT**



**TRAINING**

# INTERNAL CUSTOMERS



CITY ATTORNEY'S OFFICE



CITY MANAGER'S OFFICE



COMMUNITY PLANNING & DEVELOPMENT



COMMUNITY & EVENT CENTER



FINANCE



PARKS & RECREATION



PUBLIC SAFETY



PUBLIC WORKS

CITY DEPARTMENTS HAVE MADE GIS A CENTRAL PART OF THEIR DAILY OPERATIONS

# INTERNAL PRODUCTS

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## STATIC MAPS

- Atlas
- Decision-Making
- Agenda Bill
- Analysis
- Projects
- Wall Maps

## INTERACTIVE MAPS

- Web GIS
- Enterprise-Asset Management
- Permit & Land Use
- Field Collection

## REAL-TIME TRACKING

- Snow Events
- Street Sweeping
- Pavement Sensor Dashboard

## DAY-TO-DAY

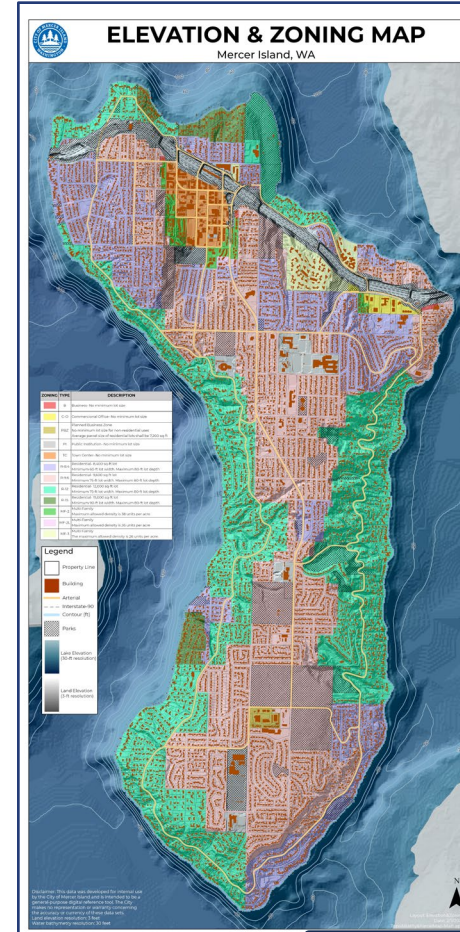
- Work Order Updates
- CIP Updates
- Data Processing

# REFERENCE MAPS Atlas & Decision-Making



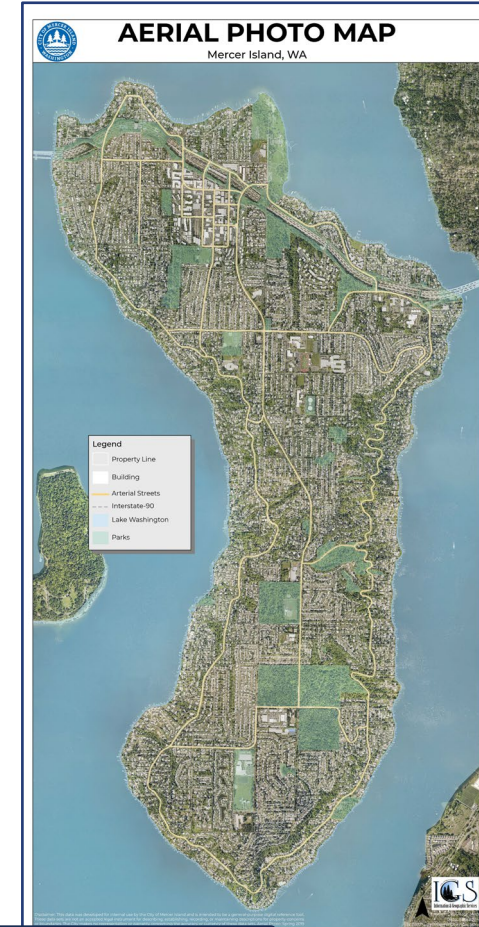
## MAP ATLAS

- Water, Sewer, Storm & Fire
- Variety of sizes
- Digital copies available
- Public Works staff & trucks
- Public Safety
- Emergency Operations Center



## DECISION-MAKING

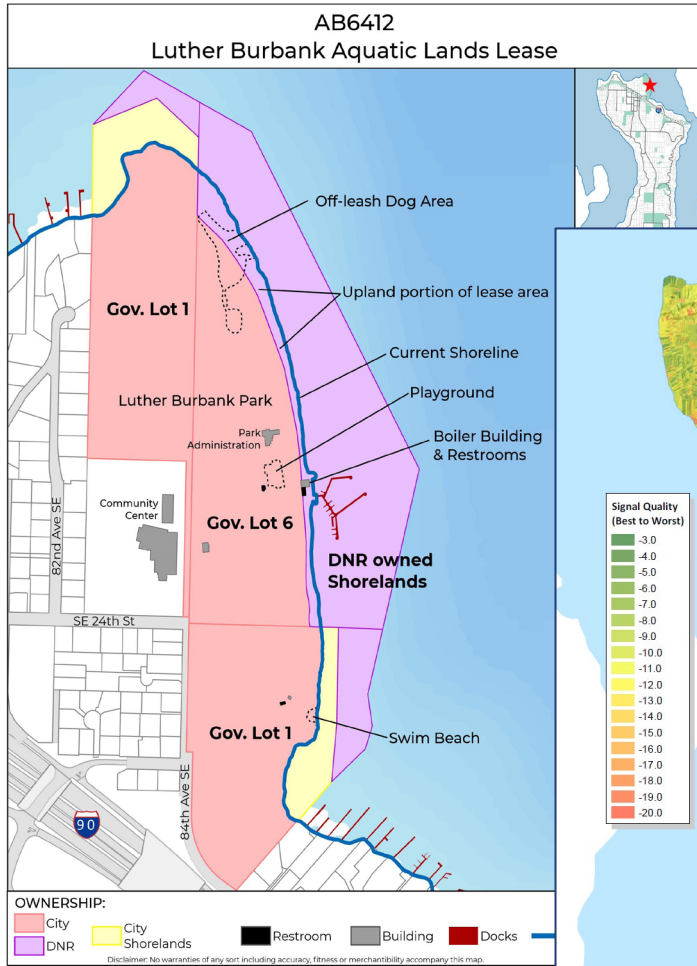
- Legislative meeting maps
- Visual maps to assist navigate talking points





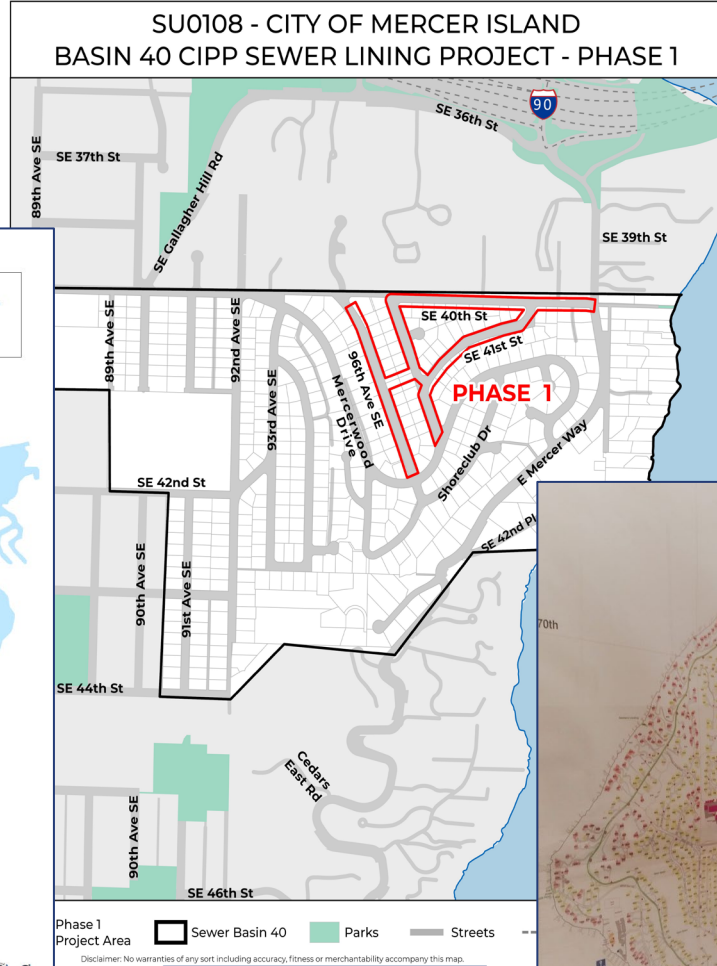
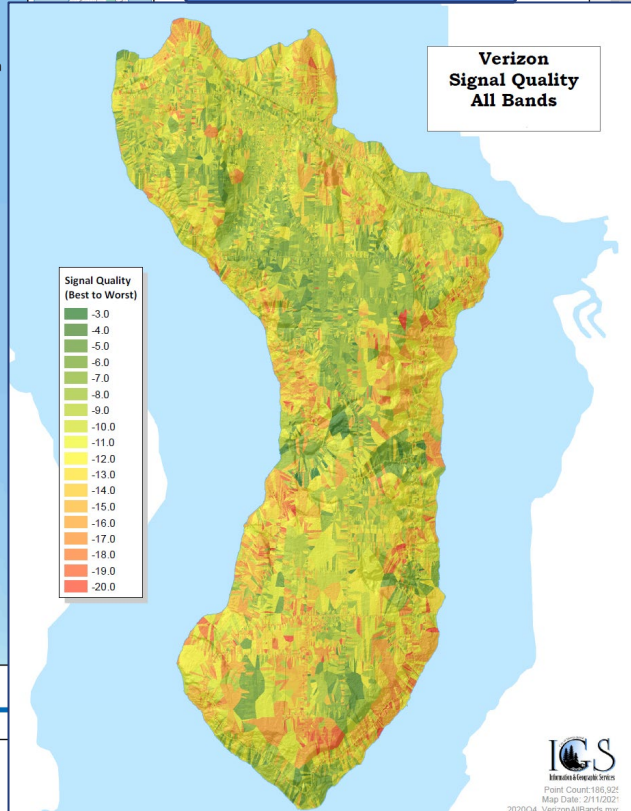
# REFERENCE MAPS

Agenda Bill, Project, Analysis, Wall Maps



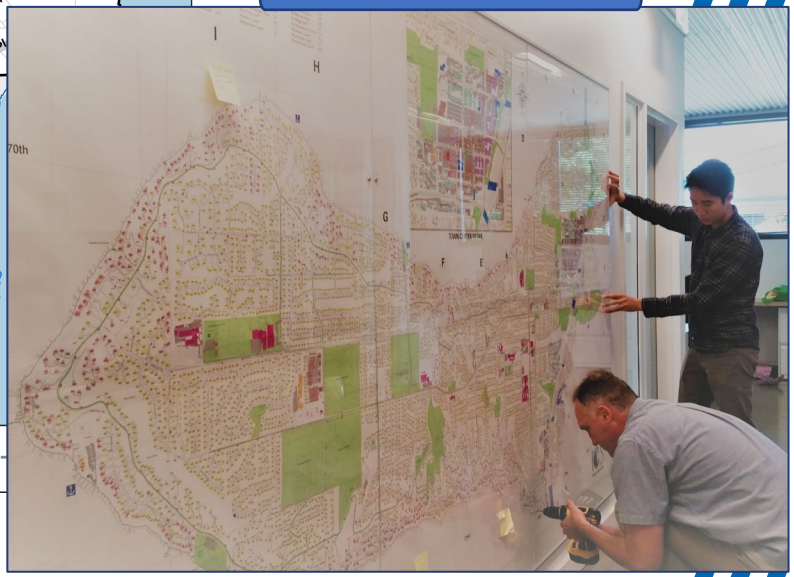
**AGENDA BILL**

**ANALYSIS**

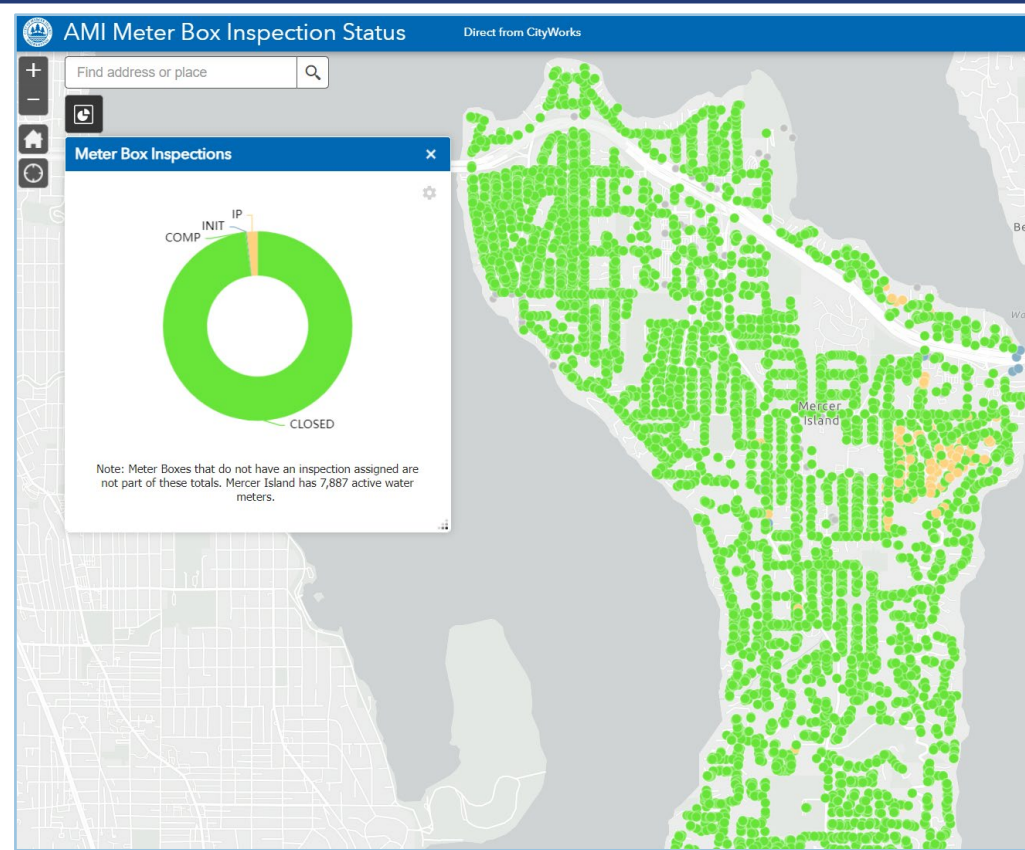


**PROJECT AREA**

**WALL MAPS**

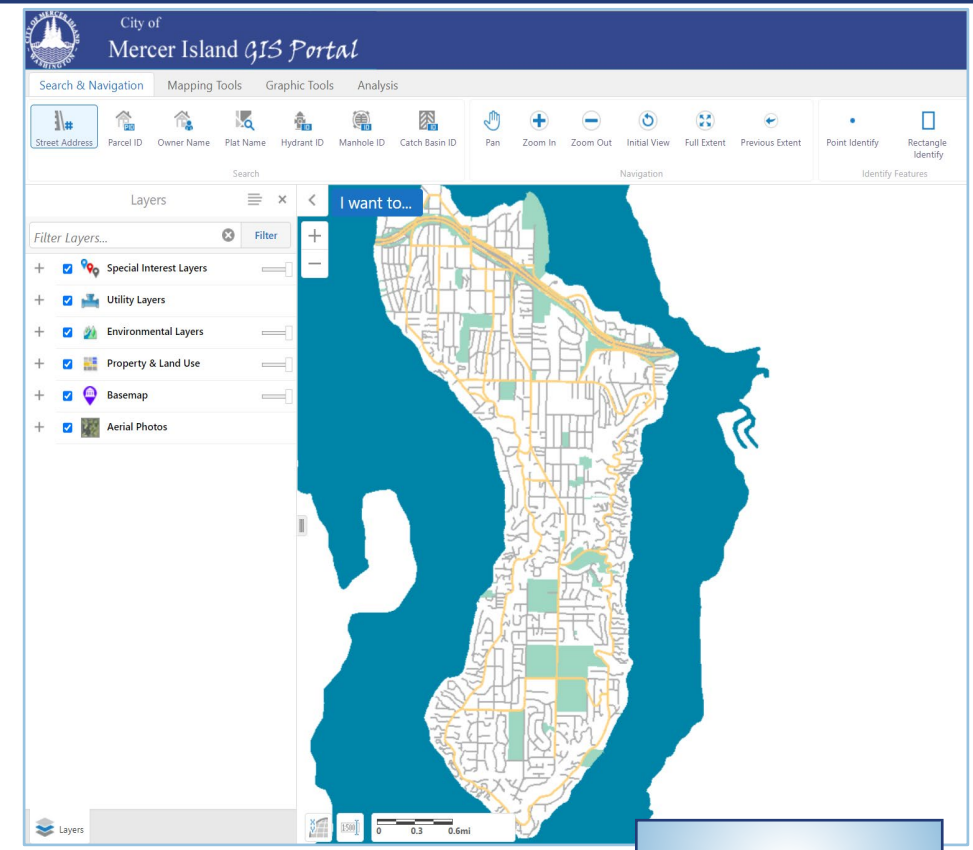


# INTERACTIVE MAPS- WebGIS & Cityworks



## ASSET MANAGEMENT SOFTWARE

- Displays all City assets, active work orders, service requests, inspections, and more
- Extract data to create more maps (ex: meter inspections)



## CITY WEB GIS

## DEMO

- Over 100 dynamic layers
- Link to documents
- Custom tools (Mailing Labels, Hazard Summary)
- Imagery from 1946-2023

# INTERACTIVE MAPS- Permits & Field Inventory

**CITY OF MERCER ISLAND COMMUNITY PLANNING & DEVELOPMENT**  
**ACTIVE PERMITS & LAND USE PROJECTS**

Getting Around | Maps & Data Sources | Tasks | Analysis

Search for an Address | Search Parcels by ID | Search for Permits | Search for Land Use | Search by Plat Name or Project Number | Filter Permits | Filter Land Use | Pan | Zoom In | Zoom Out | Initial

Home

Welcome to the **Active Land Use & Permit Projects** web-map.

This map provides information on development projects within the City of Mercer Island jurisdiction. If you have questions about this application, you can contact support at [GISAdmin@mercerisland.gov](mailto:GISAdmin@mercerisland.gov). If you would like more information about a permit or project, please open a [Public Record Request](#).

- Tap on the **Land Use or Permit Project** to find information about it. Information will appear in the map tip pop-up. The color indicates the project or permit type.
- Tap on the **Details** link for the project's webpage.
- Tap and drag to pan the map.
- Zoom by using **scale input on map**, mouse scroll wheel, or double click.
- Tap on **Layer List** to find a key to map symbols and toggle particular layers on or off.

**LANDUSE PROJECTS:**  
 SHORELINE  
 SEPA  
 DESIGN  
 ADU  
 CRITICAL AREAS  
 DEVIATION  
 OTHER LANDUSE PROJECTS

**ACTIVE PERMITS:**  
 BUILDING  
 RIGHT-OF-WAY  
 STORMWATER  
 TREE

Project Details:  
 PROJECT #: DSR23-006  
 NAME: RIOT GAMES EXTERIOR UPGRADES  
 PARCEL #: 5315101015  
 TYPE: DESIGN  
 APPLIED DATE: May 31, 2023 5:00 PM  
 VIEW: [Project Plans & Details](#)

## PERMIT & LAND USE

- Search for active Permits & Land Use
- Filter by various timeframes
- Link to permit document

**Collect**

GPS accuracy 7.7 ft

Filter

Polygonum spp (Knotweed)

- Species Found
- No longer present
- None Found



GPS accuracy 7.7 ft

2 items

Active Tree Inventory (1)

- Active Tree Inventory: HVP  
47.545511°N 122.211904°W 7.1 mi

Inactive Tree Inventory (1)

- ⊗ Inactive Tree Inventory: HVP  
47.545511°N 122.211904°W 7.1 mi

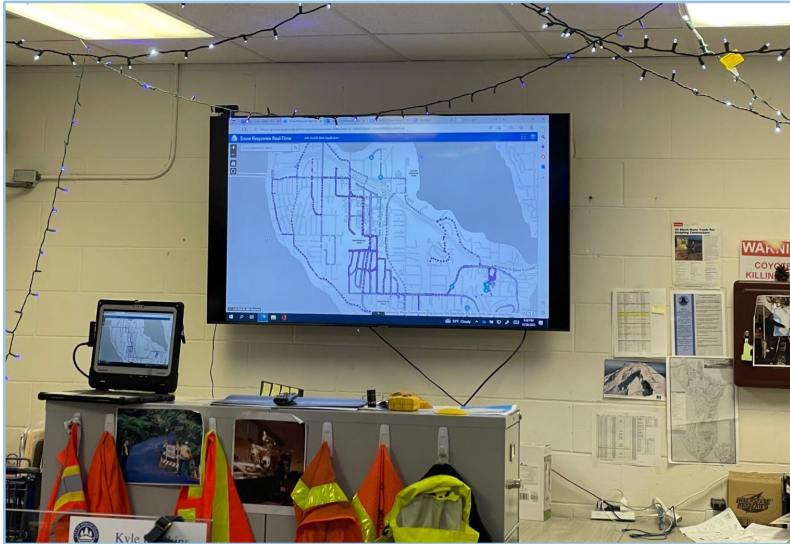
## FIELD INVENTORY APPLICATIONS

- Noxious (Invasive) Weeds/Species
- ROW & Park Tree Inspections
- Park Trail Defects **(NEW!)**

# REAL-TIME TRACKING

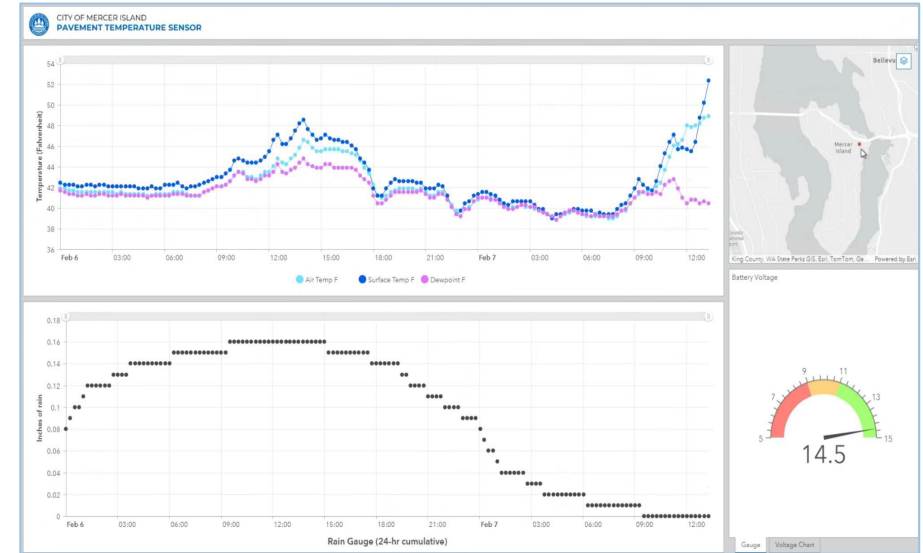
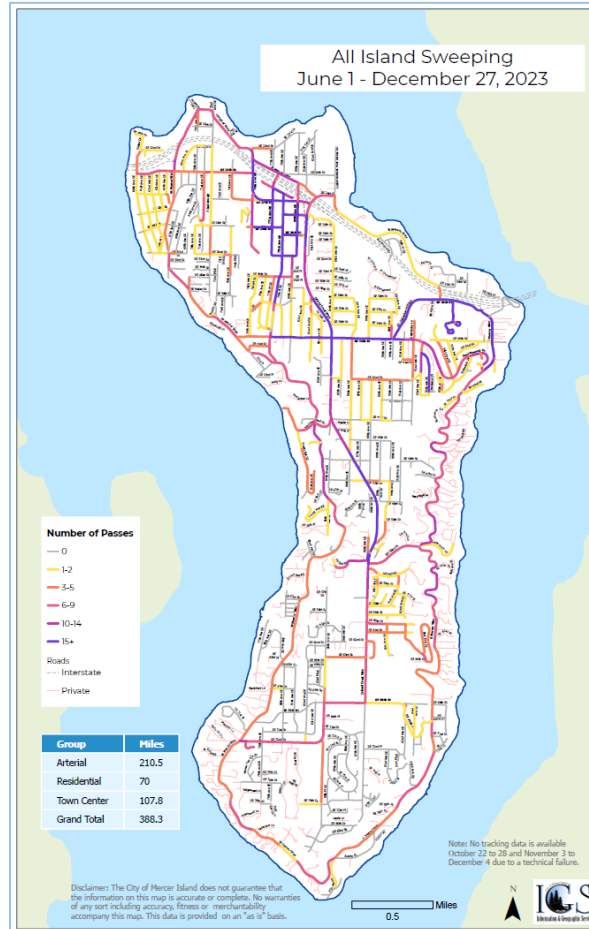
## STREET SWEEPING

- Street sweeping
- Cumulative mileage



## SNOW EVENTS

- Live map to visualize streets cleared during a snow event (internal use only)
- Post-event data summary used to improve future snow-events



## PAVEMENT SENSOR

- Real-time weather pavement conditions
  - Temperature
  - Rainfall
  - Battery life gauge

## DEMO

# DAY-TO-DAY

Open	Print	Expand	Configure	Map
<input type="checkbox"/>	Wo	Description	Proj Start Date	
<input type="checkbox"/>	46655	Water Meter - GIS Update	07/5/2023 1:05 PM	
<input type="checkbox"/>	46595	Sewer Main - GIS Update	06/30/2023 2:51 PM	
<input type="checkbox"/>	46557	Water Service - GIS Update	06/29/2023 9:57 AM	
<input type="checkbox"/>	46519	Sign Post - GIS Update	06/27/2023 9:37 AM	
<input type="checkbox"/>	46439	Sign - GIS Update	06/23/2023 12:55 PM	
<input type="checkbox"/>	46428	Sign Post - GIS Update	06/23/2023 10:43 AM	
<input type="checkbox"/>	46372	Water Service - GIS Update	06/22/2023 9:38 AM	
<input type="checkbox"/>	46371	Water Service - GIS Update	06/22/2023 9:33 AM	
<input type="checkbox"/>	46336	Sign Post - GIS Update	06/21/2023 9:52 AM	
<input type="checkbox"/>	46309	Water Meter - GIS Update	06/20/2023 1:04 PM	
<input type="checkbox"/>	46393	Park Art - GIS Update	06/20/2023 12:00 PM	
<input type="checkbox"/>	46186	Water Service - GIS Update	06/15/2023 8:24 AM	
<input type="checkbox"/>	46184	Sign Post - GIS Update	06/15/2023 7:59 AM	
<input type="checkbox"/>	46099	Water Main - GIS Update	06/8/2023 3:00 PM	
<input type="checkbox"/>	46098	Water Service - GIS Update	06/8/2023 2:52 PM	
<input type="checkbox"/>	45803	Water Meter - GIS Update	06/1/2023 1:27 PM	

## CIP UPDATES

- Project vicinity updates
- Related asset updates  
Ex: New water main will have a new meter, hydrant, and service line connections

TASK	UPDATE	LAST RAN	NEXT RUN
SPU Water Quality Reports	Weekly	2/13/2024	2/20/2024
Sign Photo Links	Weekly	2/8/2024	2/15/2024
Update Workorders	Weekly	2/8/2024	2/15/2024
Update AssetID	Weekly	2/8/2024	2/15/2024
Sweeper Map	Weekly	2/9/2024	2/16/2024
Check Scripts	Weekly	2/9/2024	2/16/2024
Update Land Use	Monthly	2/2/2024	3/3/2024
Process Sewer Video	Monthly	2/8/2024	3/9/2024
Update Assessor Table	Monthly	2/9/2024	3/10/2024
Update Easement	Quarterly	1/12/2024	4/12/2024
Update Geotech Reports	Monthly	2/14/2024	3/15/2024
Process Storm Videos	Monthly	2/8/2024	3/9/2024
Water Meter & Meter Links	Quarterly	1/19/2024	4/19/2024
Update Trak-it tables with County Data	Quarterly	6/16/2023	9/15/2023

## WORK ORDERS

- 2000+ GIS work orders processed to date
- Daily updates to City assets

SEC 7, TWP 24N, R9E SE, W.1N

### CITY OF MERCER ISLAND 2022 WATER SYSTEM IMPROVEMENTS PROJECT

**SHEET INDEX**

- 1 COVER SHEET
- 2 GN-01 KEY MAP & ALIGNMENT PLAN
- 3 GN-02 GENERAL NOTES & LEGEND
- 4 GN-03 WATER SERVICE TABLE
- 5 GN-04 WATER SERVICE TABLE
- 6 GN-05 WATER SERVICE TABLE
- 7 EC-01 EXISTING CONDITIONS & TESC PLAN - 88TH AVE SE
- 8 EC-02 EXISTING CONDITIONS & TESC PLAN - 90TH AVE SE
- 9 EC-03 EXISTING CONDITIONS & TESC PLAN - 90TH AVE SE
- 10 EC-04 EXISTING CONDITIONS & TESC PLAN - 90TH AVE SE
- 11 EC-05 EXISTING CONDITIONS & TESC PLAN - 90TH AVE SE
- 12 EC-06 EXISTING CONDITIONS & TESC PLAN - SE 40TH ST
- 13 EC-07 EXISTING CONDITIONS & TESC PLAN - SE 40TH ST
- 14 EC-08 EXISTING CONDITIONS & TESC PLAN - SE 40TH ST
- 15 EC-09 EXISTING CONDITIONS & TESC PLAN - SE 39TH ST
- 16 EC-10 EXISTING CONDITIONS & TESC PLAN - SE 39TH ST
- 17 EC-11 EXISTING CONDITIONS & TESC PLAN - SE 39TH ST
- 18 EC-12 EXISTING CONDITIONS & TESC PLAN - SE 39TH ST
- 19 EC-13 EXISTING CONDITIONS & TESC PLAN - SE 36TH ST
- 20 EC-14 EXISTING CONDITIONS & TESC PLAN - SE 36TH ST
- 21 PH-01 CONTRACTOR PAID POTHOLES PLAN
- 22 PH-02 CONTRACTOR PAID POTHOLES PLAN
- 23 WA-01 WATER PLAN - 88TH AVE SE
- 24 WA-02 WATER PLAN - 88TH AVE SE
- 25 WA-03 WATER PLAN - 88TH AVE SE
- 26 WA-04 WATER PLAN - 88TH AVE SE
- 27 WA-05 WATER PLAN - 90TH AVE SE
- 28 WA-06 WATER PLAN - 90TH AVE SE
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- 30 WA-08 WATER PLAN - 90TH AVE SE
- 31 WA-09 WATER PLAN - 90TH AVE SE
- 32 WA-10 WATER PLAN - SE 40TH ST
- 33 WA-11 WATER PLAN - SE 40TH ST
- 34 WA-12 WATER PLAN - SE 40TH ST
- 35 WA-13 WATER PLAN - SE 39TH ST
- 36 WA-14 WATER PLAN - SE 39TH ST
- 37 WA-15 WATER PLAN - SE 39TH ST
- 38 WA-16 WATER PLAN - SE 39TH ST
- 39 WA-17 WATER PLAN - SE 39TH ST
- 40 WA-18 WATER PLAN - SE 39TH ST
- 41 WA-19 WATER PLAN - SE 36TH ST
- 42 WA-20 WATER PLAN - SE 36TH ST
- 43 RR-01 ROAD RESTORATION PLAN - 88TH AVE SE
- 44 RR-02 ROAD RESTORATION PLAN - 90TH AVE SE
- 45 RR-03 ROAD RESTORATION PLAN - 90TH AVE SE
- 46 RR-04 ROAD RESTORATION PLAN - 90TH AVE SE
- 47 RR-05 ROAD RESTORATION PLAN - 90TH AVE SE
- 48 RR-06 ROAD RESTORATION PLAN - SE 40TH ST
- 49 RR-07 ROAD RESTORATION PLAN - SE 40TH ST
- 50 RR-08 ROAD RESTORATION PLAN - SE 40TH ST
- 51 RR-09 ROAD RESTORATION PLAN - SE 39TH ST
- 52 RR-10 ROAD RESTORATION PLAN - SE 39TH ST
- 53 RR-11 ROAD RESTORATION PLAN - SE 39TH ST
- 54 RR-12 ROAD RESTORATION PLAN - SE 36TH ST
- 55 RR-13 ROAD RESTORATION PLAN - SE 36TH ST
- 56 RR-14 ROAD RESTORATION PLAN - SE 36TH ST
- 57 DT-01 STANDARD DETAILS
- 58 DT-02 STANDARD DETAILS
- 59 DT-03 STANDARD DETAILS

**PROJECT TEAM**

**CITY CONTACT**

**EXISTING UTILITY NOTE**

## DATA PROCESSING

- Daily, weekly, monthly and quarterly data updates
- Data integrity checks
- Scripting and programming for efficiency

# EXTERNAL CUSTOMERS



RESIDENTS/  
POTENTIAL  
RESIDENTS



DEVELOPERS  
& BUILDERS



CONSULTANTS



REAL  
ESTATE  
AGENTS



SURVEYORS



EMERGENCY  
DISPATCH



KING  
COUNTY

**PUBLIC ENTITIES THAT REQUEST GIS-RELATED INFORMATION/DATA**

# EXTERNAL PRODUCTS

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## DATA DOWNLOADS & MAP ARCHIVE

- City Spatial Hub Site

## INTERACTIVE APPLICATIONS

- Permit & Land Use Search
- Public Web GIS
- Crime Map
- Public Art

## LAND USE

- Addressing
- Land Rights & Ownership

## OTHER

- Public Records
- Regional Partnerships
- Data Sharing (E911, King County)

# DATA DOWNLOADS & MAP ARCHIVE

Welcome to the City of Mercer Island's maps and spatial data collection. This site provides map-based information designed to help users better understand their community. You can explore, visualize, and download location-based data.

## FEATURED CONTENT

Launch the City of Mercer Island's interactive web map, download map layers, and view the map collection



**WEB MAP**

Interactive City Web Map


Web-map application that allows the community to view data and aerial images in an interactive map display



**DOWNLOAD LAYERS**

Download Map Layers

Search & download commonly requested City map layers



**MAP GALLERY**

Mercer Island Map Gallery

Visit the map gallery and download an electronic copy (PDF files)

## EXPLORE MORE APPLICATIONS

Applications provide access to information along with tools to interact with the data. View the applications below that align with specific goals and initiatives



**ZONING WEB MAP**

Zoning Map

Explore the City's land use zones.



**CRIME WEB MAP**

Crime Map

Crime over the past 6 months days. Data is updated every 24 hours.



**TREE PERMIT WEB MAP**

Tree Permit Map

Determine if a tree is in a Critical Area



**PUBLIC ART COLLECTION**

Public Art Collection

Explore the City's public art collection.

CITY'S SPATIAL DATA SITE

DEMO

- Public access to spatial data
- Public-facing interactive map
- Download layers
- Map archive
- Interactive applications



# INTERACTIVE MAPS- Permit & Land Use

## PERMIT & LAND USE WEB MAP

## DEMO

- Development project information
  - *Permits*
    - Building, Right of Way, Stormwater, Tree
  - *Land Use*
    - Shoreline, SEPA, Design, ADU, Critical Areas, Deviation, Subdivisions
- Filter by various timeframes
- Link to permit document

**CITY OF MERCER ISLAND COMMUNITY PLANNING & DEVELOPMENT**  
**ACTIVE PERMITS & LAND USE PROJECTS**

Getting Around Maps & Data Sources Tasks Analysis

Search for an Address Search Parcels by ID Search for Permits Search for Land Use Search by Plat Name or Project Number Filter Permits Filter Land Use Pan Zoom In Zoom Out Initial

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LANDUSE PROJECTS:	ACTIVE PERMITS:
SHORELINE	BUILDING
SEPA	RIGHT-OF-WAY
DESIGN	STORMWATER
ADU	TREE
CRITICAL AREAS	
DEVIATION	
OTHER LANDUSE PROJECTS	

- **Tap on the Details** link for the project's webpage.
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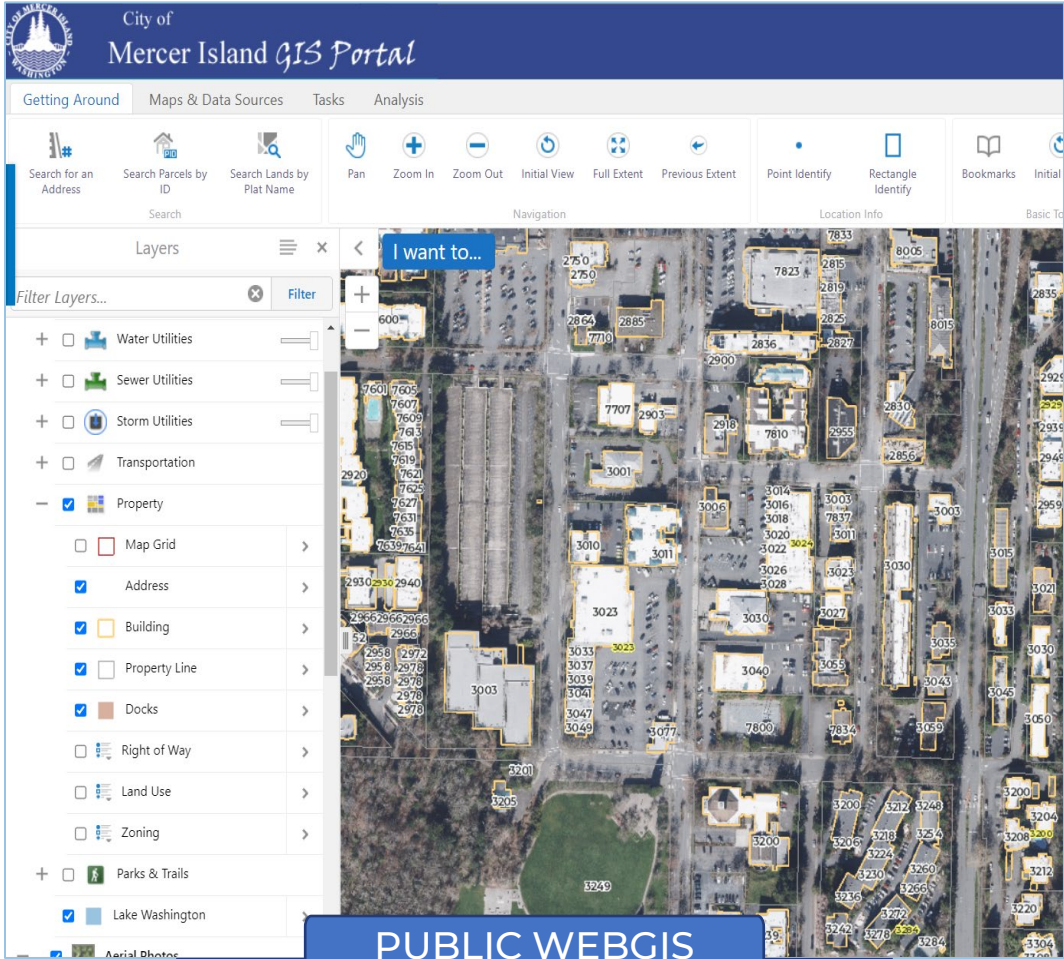
Project Details Pop-up:

DSR23-006: RIOT GAMES EX

☆ DSR23-006: RIOT GAMES EXTERIOR UPGRADES

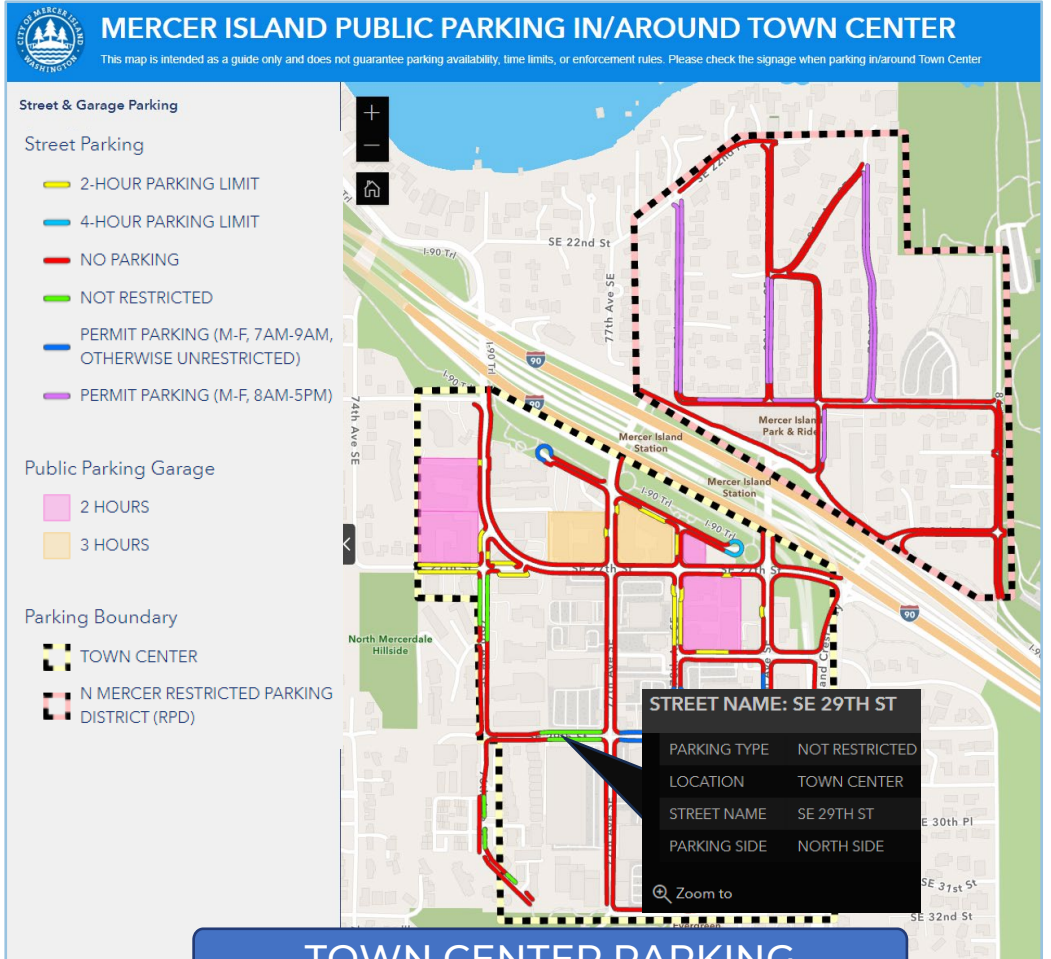
PROJECT #: DSR23-006  
 NAME: RIOT GAMES EXTERIOR UPGRADES  
 PARCEL #: 5315101015  
 TYPE: DESIGN  
 APPLIED DATE: May 31, 2023 5:00 PM  
 VIEW: [Project Plans & Details](#)

# INTERACTIVE APPLICATIONS- Other Web Products



**PUBLIC WEBGIS**

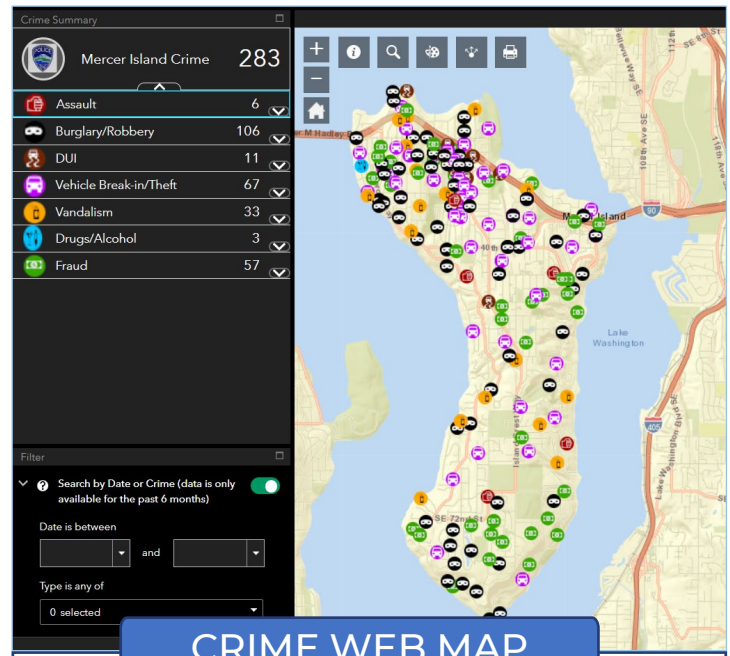
- Explore the Island
- View
  - Property documents
  - Aerial Imagery



**TOWN CENTER PARKING**

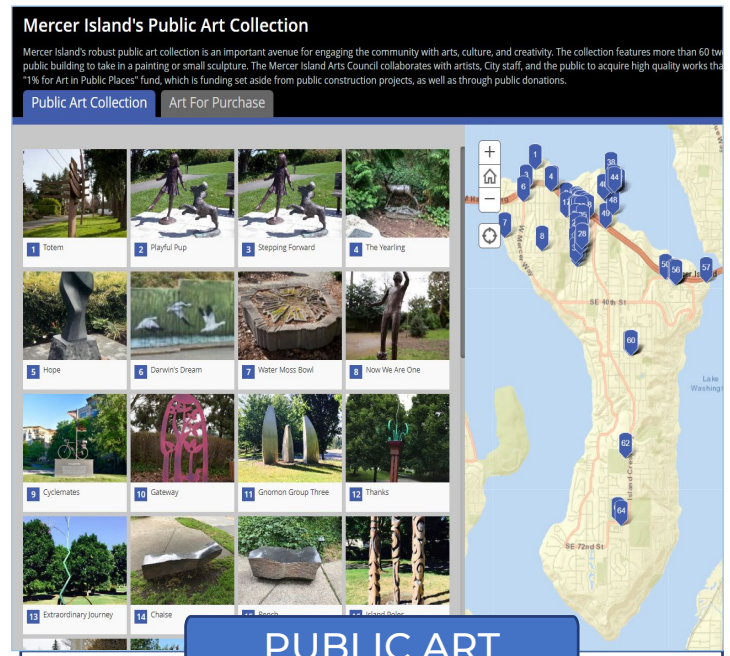
- Street Parking
- Public Parking Garages

# INTERACTIVE APPLICATIONS- Other Web Products



CRIME WEB MAP

- Explore crime activity
- Filter by
  - Time frame
  - Type of crime



PUBLIC ART

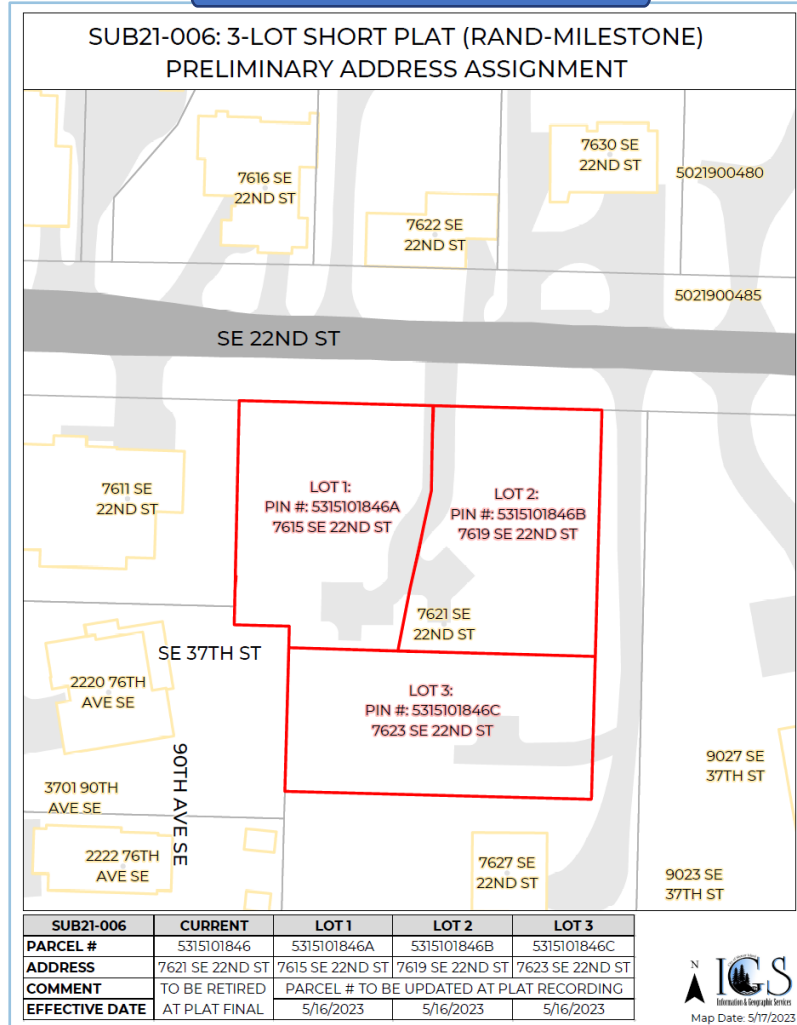
- Public art locations
- View
  - Photo
  - Description
  - Artist Information
- Art for purchase

**FUTURE APPLICATIONS**

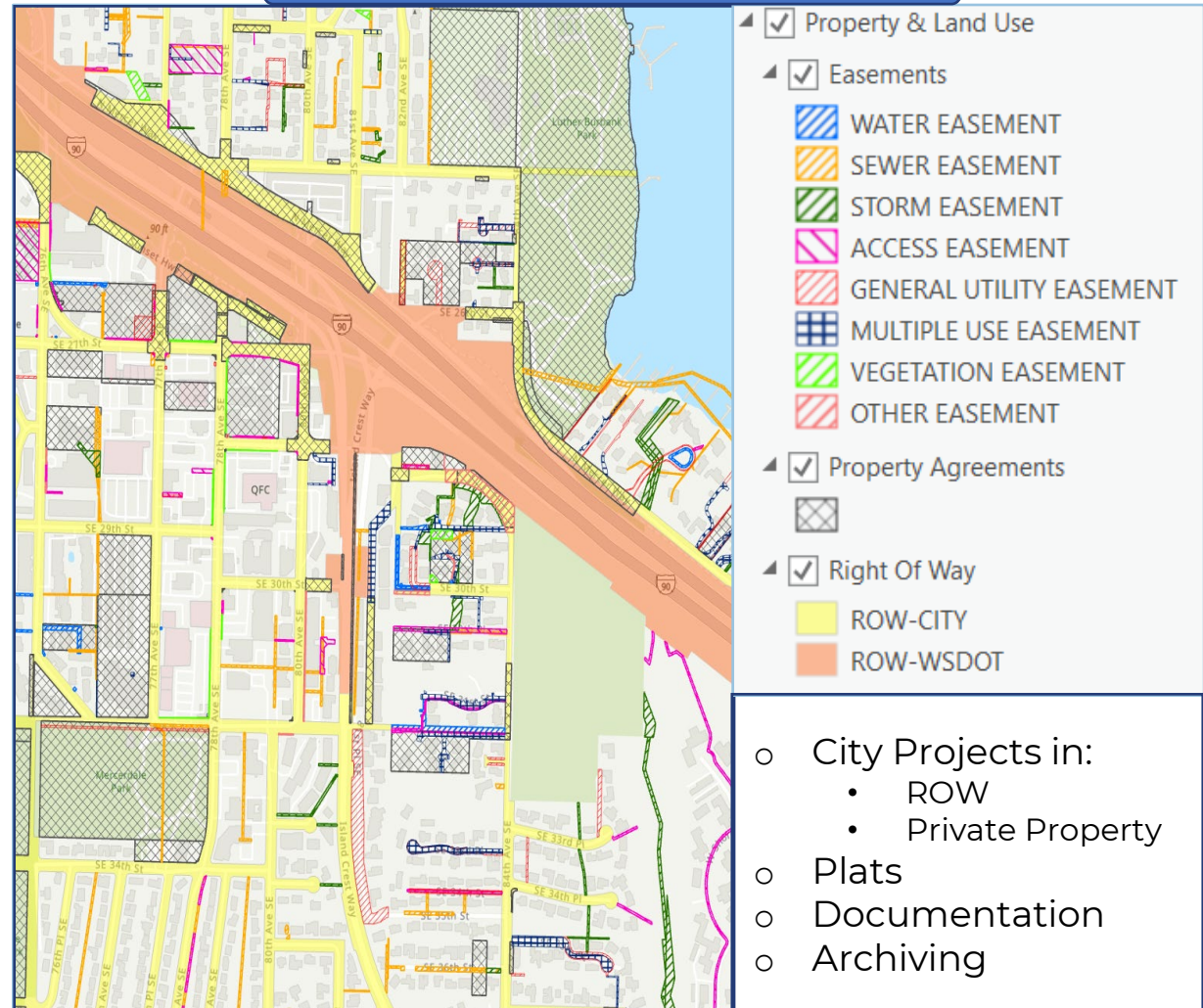
- Upgrade to
  - Crime Map
  - Public Art
- New
  - Donated Benches
  - Picnic & Event Facilities
  - Capital Improvement Projects

# LAND USE

## ADDRESSING



## LAND RIGHTS & OWNERSHIP



# OTHER PRODUCTS

## PUBLIC RECORD REQUEST

Public Record Requests  
City of Mercer Island | Make request | All requests | Documents

Request  Closed

**Request**  
Hello, I am seeking the side sewer as-built map (not GIS map) for 4114 83rd A

**Timeline** | Documents

- Request published
- Request closed    
Your public records request is now closed. Please let me know if you feel a complete response, or if I have misinterpreted your request in any way.
- Document(s) released   
Document Type BLDG - Sewer Asbuilt Parcel Num 3626500035 Address 4114 83rd A Date 6-13-1961.PDF  
June 7, 2022, 11:32am by Kelsey Salvo, Admin Assistant
- Department assignment
- Request opened   
Request received via web

## E911/NORCOM

**MERCER ISLAND RESIDENTS**  
Visible house numbers help us find you!

When you call **911** for help will the Police or Fire have to guess where your house is? Be sure your house or business numbers are clearly visible to the road. This will allow emergency responders to get to you quickly.

**HAVING HOUSE NUMBERS THAT ARE VISIBLE MAY SAVE A HOME- OR EVEN A LIFE!**

**It is up to you to insure that:**

- Your house is numbered correctly.
- The numbers are visible from the road.
- Your private driveway is numbered.
- Finding your house is easy... for everyone.

The municipal code of the City of Mercer Island (19.09.050) has specific parameters for the numbers used to address a house.

- Be made of durable material **at least six inches** in height.
- Contrast with the color of the building upon which it is placed.
- Be placed readily visible from the roadway; in the case that the residence is not visible from the roadway, the house number shall be placed in an obvious location at the entrance of the residential driveway.
- Clear obstructions such as shrubs, trees, or decorations. Numbers should be clearly seen when approaching either side of the house or business.

**WE WANT TO FIND YOU!**

## DATA SHARING

**King County GIS Open Data**  
Connecting People to Place

Search for data...

King County GIS CENTER

How to use this site...  
Terms and conditions

GIS stands for Geographic Information System. Any data that includes a location component can be GIS data. GIS data is used to make maps and to analyze any body of information for which location is a relevant factor. GIS data can reveal geographically based relationships, patterns, and trends to better understand neighborhoods, communities, or any real-world area and the entities and systems that exist and operate within its boundaries. The applications of GIS data are unlimited.

Explore the data theme categories below or use the search bar above to find data that you're interested in. See visualizations of the data or download it in the formats that best suit your needs.

Explore Data by Category

- Administrative
- Census
- Districts
- Environment

## REGIONAL COLLABORATION

**The Sound to Summit Region Pursues a Collaborative Approach to GIS**

Samamish Plateau Water

eCityGov

# KEY PROJECTS

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## METER REPLACEMENT

- Island-wide water meter replacement
- Coordination with Public Works & Finance

## PUBLIC WORKS

- Utility Network Upgrade
- Lead Service Line

## APPLICATIONS ENHANCEMENTS

- WebGIS
- Cityworks
- Field Collection
- Story Maps

## IMAGERY ACQUISITION

- High resolution
- Building & street updates

# SUMMARY

## EVERY ORGANIZATION IS SPATIAL

- WHERE are your assets
- WHERE are your customers
- WHERE is the incident
- WHERE is the property

## LOCATION INTELLIGENCE

- Data has context & meaning
- Visual
- Data sharing

## MAKES SENSE OF THE WORLD

- Change over time
- Identify patterns
- Optimizes planning

## HISTORY OF MERCER ISLAND

- A century of data
- Data preservation
- Spatial library
- Simplify & distribute

THANK YOU!  
QUESTIONS?

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