

CITY OF MERCER ISLAND

COMMUNITY PLANNING & DEVELOPMENT

9611 SE 36TH STREET | MERCER ISLAND, WA 98040

PHONE: 206.275.7605 | www.mercerisland.gov



CITY USE ONLY

PROJECT#

RECEIPT #

FEE

Date Received:

Received By:

DEVELOPMENT APPLICATION

STREET ADDRESS/LOCATION		ZONE
COUNTY ASSESSOR PARCEL #'S		PARCEL SIZE (SQ. FT.)
PROPERTY OWNER <i>(required)</i>	ADDRESS <i>(required)</i>	CELL/OFFICE <i>(required)</i> E-MAIL <i>(required)</i>
PROJECT CONTACT NAME	ADDRESS	CELL/OFFICE E-MAIL
TENANT NAME	ADDRESS	CELL PHONE E-MAIL

DECLARATION: I HEREBY STATE THAT I AM THE OWNER OF THE SUBJECT PROPERTY OR I HAVE BEEN AUTHORIZED BY THE OWNER(S) OF THE SUBJECT PROPERTY TO REPRESENT THIS APPLICATION, AND THAT THE INFORMATION FURNISHED BY ME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

SIGNATURE

DATE

PROPOSED APPLICATION(S) AND CLEAR DESCRIPTION OF PROPOSAL (PLEASE USE ADDITIONAL PAPER IF NEEDED):

ATTACH RESPONSE TO DECISION CRITERIA IF APPLICABLE

CHECK TYPE OF LAND USE APPROVAL REQUESTED:

CRITICAL AREAS	ENVIRONMENTAL REVIEW (SEPA)	SUBDIVISION
<input type="checkbox"/> Critical Area Review 1	<input type="checkbox"/> SEPA Review	<input type="checkbox"/> Short Plat- Preliminary
<input type="checkbox"/> Critical Area Review 2	<input type="checkbox"/> Environmental Impact Statement	<input type="checkbox"/> Short Plat- Alteration
		<input type="checkbox"/> Short Plat- Final Plat
DESIGN REVIEW		<input type="checkbox"/> Long Plat- Preliminary
<input type="checkbox"/> Design Review – Signs	LEGISLATIVE	<input type="checkbox"/> Long Plat- Alteration
<input type="checkbox"/> Design Review – Code Official	<input type="checkbox"/> Code Amendment	<input type="checkbox"/> Long Plat- Final Plat
<input type="checkbox"/> Design Commission Study Session	<input type="checkbox"/> Comprehensive Plan Docket Application	<input type="checkbox"/> Lot Line Revision
<input type="checkbox"/> Design Commission Review – Exterior Alteration	<input type="checkbox"/> Comprehensive Plan Application (If Docketed)	
<input type="checkbox"/> Design Commission Review – Major New Construction	<input type="checkbox"/> Rezone	
	OTHER LAND USE	
	<input type="checkbox"/> Accessory Dwelling Unit	
	<input type="checkbox"/> Code Interpretation Request	
	<input type="checkbox"/> Conditional Use (CUP)	WIRELESS COMMUNICATION FACILITIES
<input type="checkbox"/> Deviations to Antenna Standards – Code Official	<input type="checkbox"/> Noise Exception Type I - IV	<input type="checkbox"/> New Wireless Communication Facility
<input type="checkbox"/> Deviations to Antenna Standards – Design Commission	<input type="checkbox"/> Other Permit/Services Not Listed	<input type="checkbox"/> Wireless Communications Facilities- 6409 Exemption
<input type="checkbox"/> Public Agency Exception	SHORELINE MANAGEMENT	<input type="checkbox"/> Small Cell Deployment
<input type="checkbox"/> Reasonable Use Exception	<input type="checkbox"/> Shoreline Exemption	<input type="checkbox"/> Height Variance
<input type="checkbox"/> Variance	<input type="checkbox"/> Shoreline Substantial Development Permit	
<input type="checkbox"/> Seasonal Development Limitation Waiver – Wet Season Construction Approval	<input type="checkbox"/> Shoreline Variance	
	<input type="checkbox"/> Shoreline Conditional Use Permit	
	<input type="checkbox"/> Shoreline Permit Revision	

CONDITIONAL USE PERMIT APPLICATION

PROJECT NARRATIVE

INTRODUCTION

The City of Mercer Island (City) Public Works Department (Applicant) is seeking a Conditional Use Permit (CUP) for installation of water meter data collection equipment (Project). The Project is considered an Essential Public Facility (EPF) per Mercer Island City Code 19.16.010.E. An EPF requires a Conditional Use Permit in all zones (MICC 19.06.100(D)).

BACKGROUND AND NEED FOR THE PROJECT

The City operates a water utility meter reading program that involves reading 82% of meters manually and reading the remaining 28% through a radio read system. Water metering information is used in the City's utility billing system, from which utility billing statements are generated. Approximately 64% of the City's water meters are 15 years old or more.

In 2018, the City began evaluating options to improve its water metering practices, which led to a comprehensive Water Meter Replacement Program (the Program). The Program includes implementation of an Advanced Metering Infrastructure (AMI) system to replace the 7,900 existing water meters with new smart meters, standardized in type and technology. This will enable a meter-reading approach that will best support reduced water loss and improved water resource management. The new meters will automatically transmit water usage data to the City on an hourly basis via data collection equipment on utility poles or other structures in a total of seven locations throughout Mercer Island.

PROJECT DESCRIPTION

The Applicant is proposing to install water meter data collection equipment on utility poles or other structures in seven discrete locations across Mercer Island. The proposed locations were identified due to their ability to capture transmissions from water meters across Mercer Island. None of the seven locations are in the Town Center Zone.

The data collection equipment at Location 4 is proposed for installation at the City of Mercer Island Reservoir site, adjacent to Rotary Park (4350 88th Ave SE), a public park near the center of the island (see Figure 1). The data collection equipment would include two elements: a coated aluminum box approximately 22-inches by 22-inches by 10.5- inches in size (data box) and a fiberglass antenna approximately 9 feet tall and 1.5 inches in diameter. The data box would be installed in the control room of the Water Reservoir Pump Station, with cable leading to the antenna. The antenna would be installed approximately 110' from the ground on an existing city-owned lattice tower at 47.568471, -122.220803 (see Drawings 1 and 2).

CRITICAL AREAS

The City of Mercer Island defines critical areas as geologically hazardous areas, fish and wildlife habitat conservation areas, watercourses, and wetlands (MICC 19.16.010) and requires any development

City of Mercer Island Water Meter Data Collector Installation Project
Location 4 – City of Mercer Island Reservoir
City of Mercer Island Application No. PRE23-040

activity, and all structures and facilities that contain critical areas and/or their buffers to be reviewed prior to authorization of development (MICC 19.07.020).

The project site is within an area noted as a "landslide area," "erosion area," "protected slope area," and seismic hazard area (geologically hazardous areas).

The Project would be exempt from provisions of Chapter 19.07 MICC as a minor expansion of public utility structures and their associated facilities (MICC 19.07.120(D)(2)).

Consultation with the code official occurred during the pre-application meeting for the project where critical area study requirements were waived (pursuant to MICC 19.07.119). Consistent with MICC 19.07.100, reasonable methods are proposed to minimize impacts to the seismic hazard area. Please see compliance with mitigation sequencing under Decision Criteria below. The development proposal is minor in nature and will not increase the risk of landslide, erosion, or harm from seismic activity.

CONSTRUCTION

Installation of the data box and antenna would occur over 1-2 days and include up to three construction workers. The staging and construction area would be approximately 40 feet by 40 feet (160 square feet). Installation machinery would include a manlift. All construction would occur during daylight hours; no nighttime work is proposed.

The existing site is pre-disturbed ground cover; no vegetation is anticipated to be removed or altered. Likewise, no trees are proposed for removal or alteration. There are no anticipated stormwater runoff or surface water issues as the data box will be indoors and the antenna will not create any ground disturbance or impervious surfaces.

OPERATIONS

Post-installation, minimal equipment maintenance is required. In the event of an emergency or malfunctioning equipment, an initial investigation can be completed remotely. If the situation cannot be resolved remotely, a site visit would occur by a professional trained to maintain the data collection equipment, to inspect the unit and make any necessary adjustment/repairs. For onsite inspection/maintenance of the data box and antenna, a lift truck would be used.

STATE ENVIRONMENTAL POLICY ACT

The State Environmental Policy Act (SEPA) is not required to be fulfilled for this Project. The Project is exempt under Utilities in WAC 197-11-800(23)(E) "all developments within the confines of any existing electric substation, reservoir, pump station vault, pipe, or well."

SCHEDULE

The schedule is highly dependent on receiving permit approvals and lead times on construction materials. The applicant would like the data collection equipment to be in service by the end of Q2 2024 to support the Program schedule.

DECISION CRITERIA

Review of the City of Mercer Island City Code (MICC) development criteria required to be met for proposal approval (MICC 19.06.100, 19.06.110, and 19.06.120) is included in the Code Compliance Matrix document submitted with this application package.

Because the proposed development is within a geologically hazardous area (seismic hazard area), the below would be carried out to ensure the proposal wouldn't impact other critical areas, the subject property or adjacent properties and all impacts are mitigated with best available science to the maximum extent reasonably possible so that the site is determined to be safe.

MICC 19.07.100 Mitigation sequencing.

Except as otherwise provided in this chapter, an applicant for a development proposal or activity shall implement the following sequential measures, listed below in order of preference, to avoid, minimize, and mitigate impacts to environmentally critical areas and associated buffers. Applicants shall document how each measure has been addressed before considering and incorporating the next measure in the sequence:

- A. Avoiding the impact altogether by not taking a certain action or parts of an action. The applicant shall consider reasonable, affirmative steps and make best efforts to avoid critical area impacts. However, avoidance shall not be construed to mean mandatory withdrawal or denial of the development proposal or activity if the proposal or activity is an allowed, permitted, or conditional use in this title. In determining the extent to which the proposal should be redesigned to avoid the impact, the code official may consider the purpose, effectiveness, engineering feasibility, commercial availability of technology, best management practices, safety and cost of the proposal and identified changes to the proposal. Development proposals should seek to avoid, minimize and mitigate overall impacts based on the functions and values of all of the relevant critical areas and based on the recommendations of a critical area study. If impacts cannot be avoided through redesign, use of a setback deviation pursuant to section 19.06.110(C), or because of site conditions or project requirements, the applicant shall then proceed with the sequence of steps in subsections B through E of this section;***

Applicant Response: The action within the critical area cannot be avoided as the entire City of Mercer Island is within the seismic hazard area. However, the site is pre-disturbed ground cover.

Construction methods are also at minimal disturbance, no seismic impacts are anticipated. Any minimization or reduction measures proposed are to comply with best management practices and increase the ability of structures to resist seismic disturbances.

- B. Minimizing impacts by limiting the degree or magnitude of the action and its implementation, using a setback deviation pursuant to section 19.06.110(C), using appropriate technology, or by taking affirmative steps to avoid or reduce impacts;***

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Applicant Response: Prior to construction, the contractor should submit a detailed installation plan describing construction methods for review and comment by the City engineer before construction.

C. *Rectifying the impact by repairing, rehabilitating, or restoring the affected environment;*

Applicant Response: The construction footprint will be restored to previous condition once equipment installation is complete. No operational ground disturbance would be required.

D. *Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action;*

Applicant Response: Once in operation, the data collection equipment would require minimal on-site presence.

E. *Compensating for the impact by replacing, enhancing, or providing substitute resources or environments; and/or*

Applicant Response: No impacts are anticipated and replacing, enhancing or substituting resources would not be appropriate.

F. *Monitoring the impact and taking appropriate corrective measures to maintain the integrity of compensating measures.*

Applicant Response: Implementation of the following measure post-construction could reduce or minimize the potential for damage due to seismic activity for the proposed development:

- Implement measures to reduce or minimize any changes during inspection.