STORMWATER INFORMATION FORM	Received Planning Division 08/04/2023		
STORMWATER INFORMATION FORM       OOU-/2020         HUD PROGRAMMATIC OPINION         If you are submitting a project that includes a stormwater plan for review, please fill out the following cover sheet to be included with any stormwater management plan and any other supporting materials. Please have the project engineer provide their signed stamp in the box to the right. Submit this form with/or after the Action Implementation Form to NMFS at HUDBiOp.wcr@noaa.gov.			
PROJECT INFORMATION       NMFS Project Tracking #: WCR-			
PROJECT NAME Elmonica Apartments	COUNTY Washington		
TYPE OF PROJECT       Image: Redevelopment       Image: Residential         (select all that apply)       Image: New Development       Image: Commercial	□ Institutional □ Other		
HAVE YOU CONTACTED ANYONE AT NMFS 🛛 YES 🛛 NO 🛛 If Yes, Who:			
NEAREST RECEIVING WATER			
STORMWATER DESIGNER / ENGINEER INFORMATION NAME Kristian McCombs/Andrew Xu			

STORMWATER DESIGN MANUAL USED, INCLUDING YEAR/VERSION CWS Design & Construction Standards, CoB EDM

## DESCRIBE WHICH ELEMENTS OF YOUR STORMWATER PLAN THAT CAME FROM THE MANUAL EMPLOYED

Chapter 4 CWS Design and Construction Standards for Runoff treatment and control and Chapter 5 of City of Beaverton Engineering Design Manual for Surface water management (SWM)

	DESIGN STORMS		
1	2-YEAR, 24-HOUR STORM [Consult: <u>http://www.nws.noaa.gov/ohd/hdsc/noaaatlas2.htm</u> ]	2.5 INCHES	IN/HR
2	WATER QUALITY DESIGN STORM (50% OF 2-YEAR, 24-HOUR STORM) [Except climate regions 4 & 9 (67%) and climate region 5 (75%)]	1.25 INCHES	
3	WATER QUANTITY DESIGN STORM (10-YEAR, 24-HOUR STORM) [Consult: <u>http://www.wrcc.dri.edu/pcpnfreq/or10y24.gif</u> ]	3.45 INCHES	

	SITE CHARACTERISTICS		
4	<b>TOTAL PROJECT AREA</b> [Lot/Parcel acreage + any additional ground disturbance area]		1.07 ACRES 46,609 FT <sup>2</sup>
5	<b>TOTAL IMPERVIOUS SURFACE AREA</b> [Existing impervious acreage + Proposed impervious acreage]		0.71 ACRES 38,136 FT <sup>2</sup>
6	<b>TOTAL LANDSCAPE AREA</b> [Landscaping acreage + Vegetated treatment facility acreage]		0.36 ACRES 15,682 FT <sup>2</sup>
7	WILL IMPERVIOUS AREA BE REDUCED FROM CURRENT CONDITIONS? IF YES, BY HOW MUCH?	🗆 YES 🛛 NO	ACRES FT <sup>2</sup>
8	IS THE SITE CONTAMINATED? [If yes, provide investigation results to NMFS]		🖾 YES 🗆 NO

WATER QUALITY INFORMATION			
9	ARE LOW IMPACT DEVELOPMENT (LID) METHODS INCORPORATED INTO DESIGN?		🛛 YES 🛛 NO
10	HOW MUCH OF TOTAL STORMWATER IS	TREATED USING LID?	100 % 2,831 FT <sup>3</sup>
		WATER QUALITY TREATMENT ELEMENTS INCO	
11	SITE DESIGN ELEMENTS         SITE LAYOUT         CLUSTERED DEVELOPMENT         DE-PAVE EXISTING PAVEMENT         CONSERVE SOILS W/ BEST DRAINAGE         TREE PROTECTION         CONSTRUCTION SEQUENCING         REFORESTATION/TREE PLANTING         RESTORED SOILS	TREATMENT METHODS         VEGETATED ROOF         INFILTRATION RAIN GARDEN / LID SWALE         INFILTRATION STORMWATER PLANTERS         SOAKAGE TRENCH         DRYWELL         WATER QUALITY SWALE         VEGETATED FILTER STRIPS         LINED RAIN GARDEN/LID SWALE	OTHER LID WATER QUALITY TREATMENT METHODS  LID NAME SOURCE LID NAME SOURCE LID NAME
	□ POROUS PAVEMENT	LINED STORMWATER PLANTER	SOURCE
12	<ul> <li>DESCRIBE THE TREATMENT TRAIN, INCLUDING PRETREATMENT AND LID BMPS USED TO TREAT WATER QUALITY</li> <li>An on-site 1,700 square-foot LIDA flow through planter will be installed to treat the runoff from the site. The planter will be located on the south side of the site along the building and property line. The planter will treat a total of 31,340 square feet of the impervious area for the festival street parking lot, plaza, and building roof. The plaza will be treated with a WQ Filterra vault.</li> <li>A 240 sf public LIDA facility will be installed along SW Baseline to treat the runoff from both SW Baseline and SW 170th due to the poor feasibility of having a planter installed along 170th. The planter will be sized to treat the WQ events only as the private site will be designed to overdetain to meet the necessary HUDD/CWS water quantity requirements</li> </ul>		
13	WHY THIS TREATMENT TRAIN WAS CHOSEN FOR THE PROJECT SITE Stormwater quality on-site detention facilities shall meet Section 4.05.6.3 of the CWS design standards in combination with		
14	PAGE IN STORMWATER PLAN WHERE MO	ORE DETAILS CAN BE FOUND See Stormwater Repo	ort pg. 3 and Appendices
15	STORMWATER TREATMENT REQUIRED	VOLUME 2,831 FT <sup>3</sup> PEAK 0.20 CFS	AREA 31,340 FT <sup>2</sup>
16	IS THE WATER QUALITY DESIGN STORM FULLY TREATED?	VOLUME 🛛 YES 🗆 NO 🛛 PEAK DIS	CHARGE 🛛 YES 🗖 NO
17	IF ANSWER TO 16 IS "NO," WHY NOT? H	OW WILL PROJECT OFFSET THE EFFECTS FROM U	INTREATED STORMWATER?
	W	ATER QUANTITY INFORMATION	
18	<b>DOES THE PROJECT DISCHARGE DIRECT</b> [Large water body = ocean, estuary, mainstem Colu	LY INTO A MAJOR WATER BODY? mbia River, Willamette River downstream of Eugene]	🗆 YES 🖾 NO
19	PRE-DEVELOPMENT RUNOFF	R QUALITY DESIGN STORM (50% of 2-year, 24-hou	
	W	VATER QUANTITY DESIGN STORM (10-year 24-hou	$0.30 \text{ CFS } 4,792 \text{ FT}^3$

	WATER QUANTITY DESIGN STORM (10-YEAR 24-HOUR)	0.30 CFS 4,792 FT
POST-DEVELOPMENT	WATER QUALITY DESIGN STORM (50% OF 2-YEAR, 24-HOUR)	0.02 CFS 1,960 FT <sup>3</sup>
RUNOFF RATE AND VOLUME	WATER QUANTITY DESIGN STORM (10-YEAR 24-HOUR)	0.22 CFS 8,232 FT <sup>3</sup>

20

	WATER QUANTITY INFORMATION (CONTINUED)		
21	METHODS USED TO LIMIT STORMWATER DISCHARGE FROM PROJECT Water Quantity requirements are met by the stormwater planter that conveys water to the east into the existing 15- inch storm line in SW 170 <sup>th</sup> Ave. An R-tank system will be installed under the LIDA soil medium to help detain water onsite. An additional onsite underground detention 200-LF 48" CMP pipe with orifice control will be installed under the festival street to over detain for the unmitigated public runoff. NOTE : Due to such a small site area the 2 year storm post vs pre is not met as flow rates are too minimal (0.01 cfs).		
22	PAGE IN STORMWATER PLAN WHERE MORE DETAILS CAN BE FOUND See Stormwater Report Pg. 3		
23	SPECIFIC LID DISCHARGE REDUCTION ELEMENTS INCORPORATED         MANAGEMENT METHODS       OTHER LID WATER QUANTITY MANAGEMENT ELEMENTS         Image: Porous pavement       Image: Soakage Trench       Image: LiD Name         Image: Porous pavement       Image: Soakage Trench       Image: LiD Name         Image: Porous pavement       Image: Porous pavement       Image: Porous pavement         Image: Porous pavement       Image: Porous pavement       Image: Porous pavement         Image: Porous pavement       Image: Porous pavement       Image: Porous pavement         Image: Porous pavement       Image: Porous pavement       Image: Porous pavement         Image: Porous pavement       Image: Porous pavement       Image: Porous pavement       Porous pavement         Image: Porous pavement       Image: Porous pavement       Image: Porous pavement       Porous pavement       Porous pavement         Image: Porous pavement       Image: Porous pavement       Image: Porous pavement       Porous pavement       Porous pavement         Image: Porous pavement       Image: Porous pavement       Image: Porous pavement       Porous pavement       Porous pavement         Image: Porous pavement       Image: Porous pavement       Image: Porous pavement       Porous pavement       Porous pavement         Image: Porous pavement       Image: Porous		
24	Are both water quantity design storms       Volume ⊠ Yes □ No       Peak Discharge ⊠ Yes □ No         Fully managed (i.e. attenuated)?       Volume ⊠ Yes □ No       Peak Discharge ⊠ Yes □ No		
25	IF NO, WHY NOT? HOW WILL THE PROJECT OFFSET THE EFFECTS FROM UNMANAGED STORMWATER?		
26	IS THE POST-DEVELOPED PEAK DISCHARGE >0.5 CFS DURING THE 2-YEAR, 24-HOUR STORM EVENT? IF YES, FLOW CONTROL MANAGEMENT REQUIRED □ YES ☑ NO		
27	FLOW CONTROL PROPOSEDCFS% OF 2-YEAR, 24-HOUR STORM EVENT		
MAINTENANCE AND INSPECTION PLAN			
28	HAVE YOU INCLUDED A STORMWATER MAINTENANCE AND INSPECTION PLAN?		
	CONTACT INFORMATION FOR THE PARTY/PARTIES THAT WILL BE LEGALLY RESPONSIBLE FOR PERFORMING/ CONTRACTING THE INSPECTIONS AND MAINTENANCE OF THE STORMWATER FACILITIES:		
	NAME		
	AFFILIATION/RESPONSIBILITY		
29	PHONE EMAIL		
	NAME		
	AFFILIATION/RESPONSIBILITY		
	PHONE EMAIL		
	NAME		
	AFFILIATION/RESPONSIBILITY		
	PHONE EMAIL		

AFFILIATION/RESPONSIBILITY

PHONE

EMAIL

## **OTHER RELEVANT INFORMATION**