

WAC 173-240-050 General Sewer Plan Review Checklist

Text from WAC 173-240-050	Meets requirements? Yes/No/NA	Comments:	City Response
050(1) All general sewer plans required of any governmental agency before providing sewer service are "plans" within the requirements of RCW 90.48.110. Three copies of the proposed general sewer plan and each amendment to it must be submitted to and approved by the department before implementing the plan.		Please wait to submit anything to PARIS until we agree that it is final. Thank you	Will wait to submit to PARIS.
050(2) The general sewer plan must be sufficiently complete so that engineering reports can be developed from it without substantial alterations of concept and basic considerations.	NO	This GSP is missing much of the detailed information that will be needed by the City for future development. The CIP is missing. This is a planning document that provides a road map for future development and identification of current projects that are needed to correct collection system issues such as pipe in poor condition, undersized pipe, areas that have been identified as being a maintenance issue and has resulted in plugged pipes broken pipes or has resulted in basement backups. Need discussion on Design requirements for future development. This should include a statement that Othello will at a minimum apply the requirements identified in the Orange Book.	Our Finance Department calls the CIP the Capital Facility Plan (CFP) and it is included in Appendix H. Sections have been added to Chapter 2 that reference Appendix H and state that recent projects have addressed all known collection system maintenance issues such as infiltration, deteriorated pipe, and roots. The two locations that may experience capacity issues in the next 20 years are mentioned in Chapter 2 with guidance on how to address or minimize the impact. A paragraph was added to Chapter 2 that mentions the Orange Book and the City's Public Works Design Standards as requirements for future development. Chapter 2 also acknowledges that lift stations are not addressed in the Plan and any future plans will need to be submitted, reviewed , and approved by the DOE.
050(3) The general sewer plan shall include the following information together with any other relevant data as requested by the department. To satisfy the requirements of the local government jurisdiction, additional information may be necessary.		Please include sewer ordinance and design requirements as an appendix. Please include sanitary sewer overflow reporting process. Please provide staffing needs for current and future collection system O&M.	The staffing levels for the Public Works Department are explained in Chapter 1 and the City's O&M Manual is referenced. The City's overflow reporting process and emergency response plan is described in the O&M Manual.
(a) The purpose and need for the proposed plan.	yes		
(b) A discussion of who will own, operate, and maintain the systems.	Yes		

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(c) The existing and proposed service boundaries.	Yes		
(d) Layout map including the following:	No		Maps are included in Appendix A and the appendix has been referenced in the body of the Plan.
(i) Boundaries. The boundary lines of the municipality or special district to be sewer, including a vicinity map;	No	Need a vicinity map. Any areas that are unsewered that will be added to the sewerage system.	Sheet 1 in Appendix A shows the City's Growth Boundary and the proposed truck lines extending out into the area.
(ii) Existing sewers. The location, size, slope, capacity, direction of flow of all existing trunk sewers, and the boundaries of the areas served by each;	No	Need to provide maps with the existing trunk lines with the size, slope, capacity, and direction of flow. Need to show and identify service areas served by each trunk line. Typically these are color coded.	Sheets 2 through 12 in Appendix A show the existing collection system with the size and direction of flow of mains. All lines have been installed in conformance with the minimum design slopes specified in the Orange Book. A table in Appendix K provides the minimum design capacity for every pipe in the City's system based on the material and size.
(iii) Proposed sewers. The location, size, slope, capacity, direction of flow of all proposed trunk sewers, and the boundaries of the areas to be served by each;	No	Need to provide maps with the proposed trunk lines the size, slope, capacity, and direction of flow. Need to show and identify service areas served by each trunk line. Typically these are color coded.	Sheets 1 through 12 in Appendix A shows the City's Growth Boundary and the proposed truck lines extending out into the area.
(iv) Existing and proposed pump stations and force mains. The location of all existing and proposed pumping stations and force mains, designated to distinguish between those existing and proposed;	No	Need to provide a statement that all areas will be gravity flow and that there are not any areas in the growth area that will require lift stations, pumps, and mains. If there are areas that will require pumping, please identify on a map.	Currently, the system doesn't contain any lift stations and only one section of force main along Main Street. The force main is not in service at this time. Sheet 1 in Appendix A shows locations of potential lift stations in the Growth Boundary. Chapter 2 has a paragraph that addresses how future lift stations designs will be handled.
(v) Topography and elevations. Topography showing pertinent ground elevations and surface drainage must be included, as well as proposed and existing streets;	No	Please provide topography showing pertinent ground elevations. Please provide surface drainage. Show location of future streets.	A topographic map and a drawing of the City's existing storm drainage system is included in Appendix A, Sheet 27.
(vi) Streams, lakes, and other bodies of water. The location and direction of flow of major streams, the high and low elevations of water surfaces at sewer outlets, and controlled overflows, if any. All existing and potential discharge locations should be noted; and	No	Provide a map showing all surface waters around the city. This includes all wetlands.	A map showing all surface waters, including wetlands, is provide as Sheet 29 in Appendix A.
(vii) Water systems. The location of wells or other sources of water supply, water storage reservoirs and treatment plants, and water transmission facilities.	No	Need to show the location of water system this includes existing water well that are currently or are potentially effected by future development. Need to show location of drinking water treatment facilities, storage, and transmission facilities.	Drawings of the City's current water system are included in Appendix A (Sheets 13-21). These drawings show all source, storage, and transmission components of the City's water system. Sheets 31-36 in Appendix A provide drawings and a list of all DOE registered wells located inside of the Growth Boundary.

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(e) The population trend as indicated by available records, and the estimated future population for the stated design period. Briefly describe the method used to determine future population trends and the concurrence of any applicable local or regional planning agencies.	Yes		
(f) Any existing domestic or industrial wastewater facilities within twenty miles of the general plan area and within the same topo-graphical drainage basin containing the general plan area.	No	Need a map that provides this information. Need to include industrial treatment that includes land treatment. This would include storage lagoons, treatment system, and land treatment sites along with the domestic site. I am not sure if these are within the same watershed but I think that Warden is within 20 miles of Othello. I am not sure about the distance to Royal City, Mesa, or Connell. If they are within 20 miles and are in the same drainage need to show on the map.	A map is included in Appendix A, Sheet 37 that shows the following facilities within 20 miles: - City wastewater treatment facilities - Industrial wastewater facilities - The boundary between WRIA 36 (Esquatzel) and 41 (Lower Crab Creek) that splits Othello's city limits
(g) A discussion of any infiltration and inflow problems and a discussion of actions that will alleviate these problems in the future.	Yes and No	You discuss I&I in general. Need to provide specifics of where the I&I is that remains, What about the inflow from the collection areas need the canal? Need to identify all projects and develop options to create a CIP. If you want to see an example GSP, you can look at PARIS under other communities.	Additional discussion is provided in Chapter 2 on infiltration. No infiltration is attributed to areas immediately downstream of the canals nor are there measurable fluctuations between when the canals are full versus empty.
(h) A statement regarding provisions for treatment and discussion of the adequacy of the treatment.	Yes		
(i) List of all establishments producing industrial wastewater, the quantity of wastewater and periods of production, and the character of the industrial wastewater insofar as it may affect the sewer system or treatment plant. Consideration must be given to future industrial expansion.	No	You didn't include commercial areas that may impact the collection system. Do you have any issues with grease? Do you have any hospitals, laboratories, educational extensions with labs? Do you have any small industries in town such as auto repair, furniture refinishing, auto painting any industries or commercial operations? Any commercial or industrial facility that could be disposing of materials that will negatively impact the treatment works needs to be in a list that is included in an appendix. ..	Additional language was added to Chapter 2 and a memo summarizing the Industrial User Survey completed by Public Works staff is included in Appendix L. All restaurants on the collection system have grease traps. In the past all areas with grease issues were in residential areas with concrete lines and root issues. Those areas were addressed with the past CIPP projects and problems have been eliminated.

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(j) Discussion of the location of all existing private and public wells, or other sources of water supply, and distribution structures as they are related to both existing and proposed domestic wastewater treatment facilities.	No		Drawings of the City's current water system are included in Appendix A (Sheets 13-21). These drawings show all source, storage, and transmission components of the City's water system. Sheets 31-36 in Appendix A provide drawings and a list of all DOE registered wells located inside of the Growth Boundary. No public or private wells are located downstream/down gradient of the existing WWTF. The location for any future WWTF will factor in the existing water supply sources and distribution systems.
(k) Discussion of the various alternatives evaluated, and a determination of the alternative chosen, if applicable.		I am not sure if this applies. You did not identify a CIP for the projects that are needed. You showed future trunk lines but did not include planning. All of this should be included in a GSP.	Chapter 4 and Appendix H include an AKART analysis and the City's CFP.
(l) A discussion, including a table, that shows the cost per service in terms of both debt service and operation and maintenance costs, of all facilities (existing and proposed) during the planning period.	Yes		
(m) A statement regarding compliance with any adopted water quality management plan under the Federal Water Pollution Control Act as amended.		Are there any Federal or State acts that will affect the collection system planning? Did you identify any exfiltration issues in the collection system that would discharge untreated wastewater to ground? This should have been discussed in the I&I area of the plan.	There are no known Federal or States acts that will affect planning. No exfiltration issues were identified by the system tv'ing project. Chapter 2 includes statements addressing these items.
(n) A statement regarding compliance with the State Environmental Policy Act (SEPA) and the National Environmental Policy Act (NEPA), if applicable.			