

Appendix S

Funding Program Summary

THIS PAGE INTENTIONALLY BLANK.

Funding Programs for Drinking Water and Wastewater Projects

Updated 9-17-2024

Type of Program	Pages
Planning/ Pre-Construction	2 - 6
Pre-Construction Only	7 - 8
Construction	9 - 16
Emergency	17 - 19

You can find the latest version of this document at <http://www.infracfunding.wa.gov/resources.html>

Please contact Amie Smith at amie.smith@commerce.wa.gov if you would like to update your program information

PLANNING Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
DWSRF Drinking Water State Revolving Fund Planning and Engineering Loans Department of Health	Preparation of planning documents, engineering reports, construction documents, permits, cultural reports, environmental reports. Potential for grant subsidy for disadvantaged communities or those with high affordability rates.	Group A (private and publicly-owned) community and not-for-profit non-community water systems, but not federal or state-owned systems. Small systems serving fewer than 10,000 people.	Loan: \$500,000 maximum per jurisdiction 0% annual interest rate 2% loan service fee 2-year time of performance 10-year repayment period	On-line applications accepted year-round until funding exhausted. Approximately \$3 million available to award each year. Contact: Jocelyne Gray 564-669-4893 Jocelyne.gray@doh.wa.gov For information and forms visit: http://www.doh.wa.gov/DWSRF
DWSRF Drinking Water State Revolving Fund Consolidation Grant Department of Health	Development of a feasibility study, engineering evaluation, design of a infrastructure project to consolidated one or more Group A water systems	Group A not-for-profit community water system, county, city, public utility district, or water district in Washington State Tribal systems are eligible provided the project is not receiving other national set-aside funding for the project.	Grant: Up to \$50,000 per project Minimum of \$10,000 2-year time of performance	Online applications accepted year round until funding exhausted. Contact: Jocelyne Gray 564-669-4893 Jocelyne.gray@doh.wa.gov For information and forms visit: http://www.doh.wa.gov/DWSRF
DWSRF Drinking Water State Revolving Fund Lead Service Line Inventory Loan Department of Health	Develop lead service line inventory. Can include creating or updating a planning document. There is principal forgiveness for disadvantaged communities.	Group A (private and publicly-owned) community and not-for-profit non-community water systems, but not federal or state-owned systems.	Loan: Minimum \$25,000 No maximum 0% annual interest rate 2% loan service fee 2-year time of performance 10-year repayment period First come, first served based on application submittal date.	Online applications available and accepted October 1 through November 30, 2024. Contact: Jocelyne Gray 564-669-4893 Jocelyne.gray@doh.wa.gov For information and forms visit: http://www.doh.wa.gov/DWSRF

PLANNING Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
DWSRF Drinking Water State Revolving Fund Drinking Water System Rehabilitation and Consolidation Grant Department of Health	<u>Rehabilitation</u> Planning and design of infrastructure to bring system into compliance. <u>Restructuring, Consolidation, Receivership Planning</u> Preconstruction to bring the water system into compliance. Purchase cost of the water system to be acquired. Establishment of a water program for any receiving city, town, or county.	<u>Rehabilitation</u> Group A water systems serving less than 10,000 people under a DOH compliance order. <u>Restructuring, Consolidation, Receivership</u> Group A publicly owned water system (city, town, county, public utility district, or water/sewer district), an approved Satellite Management Agency, or approved receiver.	Grant: Maximum \$1.25 million 4-year time of performance	By invite only. Contact: Jocelyne Gray 564-669-4893 Jocelyne.gray@doh.wa.gov For information and forms visit: http://www.doh.wa.gov/DWSRF
SOURCE WATER PROTECTION GRANT PROGRAM Department of Health	Source water protection studies (watershed, hydrogeologic, feasibility studies). Eligible activities can lead to reducing the risk of contamination of a system's drinking water sources(s), or they can evaluate or build resiliency for a public water supply. They must contribute to better protecting one or more public water supply sources.	Non-profit Group A water systems. Local governments proposing a regional project. Project must be reasonably expected to provide long-term benefit to drinking water quality or quantity.	Grants: Funding is dependent upon project needs, but typically does not exceed \$30,000.	Applications accepted anytime; grants awarded on a funds available basis. Contact: Deborah Johnson 253-433-4054 Deborah.Johnson@doh.wa.gov http://www.doh.wa.gov/CommunityandEnvironment/DrinkingWater/SourceWater/SourceWaterProtection.aspx Grant guidelines https://www.doh.wa.gov/Portals/1/Documents/Pubs/331-552.pdf

PLANNING Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
ECOLOGY: WATER QUALITY COMBINED FUNDING PROGRAM State Water Pollution Control Revolving Fund (SRF) Centennial Clean Water Fund Stormwater Financial Assistance Program (SFAP) Department of Ecology	Planning projects associated with publicly-owned wastewater and stormwater facilities. The integrated program also funds planning and implementation of nonpoint source pollution control activities.	Counties, cities, towns, conservation districts, or other political subdivision, municipal or quasi-municipal corporations, and federally recognized tribes	Loan: \$10,000,000 reserved for preconstruction statewide Interest rates (SFY 2025) 6-20 year loans: 1.2% 1-5 year loans: 0.6% <u>Preconstruction set-aside (Distressed Communities)</u> 50% forgivable principal loan and 50% loan	Applications due October 15, 2024. Contact: Eliza Keeley 360-628-1976 Eliza.keeley@ecy.wa.gov https://ecology.wa.gov/About-us/How-we-operate/Grants-loans/Find-a-grant-or-loan/Water-Quality-grants-and-loans
RD PRE-DEVELOPMENT PLANNING GRANTS (PPG) U.S. Dept. of Agriculture Rural Development – Rural Utilities Service – Water and Waste Disposal Direct Loans and Grants	Water and/or sewer planning; environmental work; and other work to assist in developing an application for infrastructure improvements.	Low-income, small communities and systems serving areas under 10,000 population. Population determined by U.S. Census 2020. Income determined by the American Community Survey 2017-2021 (5-year).	Planning grant to assist in paying costs associated with developing a complete application for RD funding for a proposed project. Maximum \$60,000 grant. Requires minimum 25% match.	Applications accepted year-round, on a fund-available basis. Contact: Koni Reynolds 360-704-7737 koni.reynolds@usda.gov http://www.rd.usda.gov/wa
RD 'SEARCH' GRANTS: SPECIAL EVALUATION ASSISTANCE FOR RURAL COMMUNITIES U.S. Dept. of Agriculture Rural Development – Rural Utilities Service – Water and Waste Disposal Direct Loans and Grants	Water and/or sewer planning; environmental work; and other work to assist in developing an application for infrastructure improvements.	Low-income, small communities and systems serving areas under 2,500 population. Population determined by U.S. Census 2020. Income determined by the American Community Survey 2017-2021 (5-year).	Maximum \$30,000 grant. No match required.	Applications accepted year-round, on a fund-available basis. Contact: : Koni Reynolds 360-704-7737 koni.reynolds@usda.gov http://www.rd.usda.gov/wa

PLANNING Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
CERB PLANNING AND FEASIBILITY GRANTS Community Economic Revitalization Board – Project-Specific Planning Program	Project-specific feasibility and pre-development studies that advance community economic development goals for industrial sector business development.	Eligible statewide Counties, cities, towns, port districts, special districts. Federally recognized tribes Municipal corporations, quasi-municipal corporations w/ economic development purposes.	Grant: Up to \$100,000 per project. Requires 20% (of total project cost) matching funds CERB is authority for funding approvals.	Applications accepted year-round. The Board meets six times a year. Contact: Janea Stark 360-252-0812 janea.stark@commerce.wa.gov
RCAC Rural Community Assistance Corporation Feasibility and Pre-Development Loans	Water, wastewater, stormwater, and solid waste planning; environmental work; and other work to assist in developing an application for infrastructure improvements.	Non-profit organizations, public agencies, tribes, and low-income rural communities with a 50,000 population or less, or 10,000 or less if proposed permanent financing is through USDA Rural Development.	Typically up to \$50,000 for feasibility loan. Typically up to \$350,000 for pre-development loan. Typically up to a 1-year term. 5.5% interest rate. 1% loan fee.	Applications accepted anytime. Contact: Jessica Scott 719-458-5460 jscott@rcac.org Applications available online at http://www.rcac.org/lending/environmental-loans/
Economic Development Administration (EDA) United States Department of Commerce EDA Public Works & Economic Adjustment Assistance Program: Planning, Feasibility Studies, Preliminary Engineering Reports, Environmental Consultation for distressed and disaster communities.	Drinking water infrastructure; including pre-distribution conveyance, withdrawal/harvest (i.e. well extraction), storage facilities, treatment and distribution. Waste water infrastructure; including conveyance, treatment facilities, discharge infrastructure and water recycling.	Indian Tribes; state, county, city, or other political subdivisions of a state; institutions of higher education; public or private non-profit organizations or associations acting in cooperation with officials of a political subdivision of a State	Grants: EDA investment share up to \$500,000 Cost sharing required from applicant Standard grant rate of 50% of total project cost and up to 80%. Up to 100% for Tribal Nations	Submit application through EDA Grants Management Experience “EDGE” Home (eda.gov) Contact: J. Wesley Cochran Economic Development Representative (206) 561-6646 jcochran@eda.gov

PLANNING Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
Public Works Board WA Department of Commerce Pre-construction program	Capital facilities planning (including small water system management plans, wastewater facility plans, transportation elements, etc.) Roads, streets and bridges, domestic water, sanitary sewer, stormwater, and solid waste/recycling/organics facilities.	Counties, cities, special purpose districts, and quasi-municipal organizations that meet certain requirements. Ineligible applicants: school districts, port districts, and tribes, per statute.	Pre-construction awarded quarterly until funds are exhausted. Up \$1,000,000 per project. FY25 interest rate: 0.86%. 5 year loan term. Maximum award per jurisdiction per biennium across all PWB funding programs: \$10 million Awards are typically 100% loans, but partial grant funding may be awarded to communities meeting Distressed or Severely Distressed criteria.	Contact: Sheila Richardson 564-999-1927 Sheila.richardson@commerce.wa.gov Check the Public Works Board website periodically at http://www.pwb.wa.gov to obtain the latest information on program details or to contact Public Works Board staff.

PRECONSTRUCTION ONLY Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
ECOLOGY: WATER QUALITY COMBINED FUNDING PROGRAM State Water Pollution Control Revolving Fund (SRF) Centennial Clean Water Fund Stormwater Financial Assistance Program (SFAP)	Design projects associated with publicly-owned wastewater and stormwater facilities. The integrated program also funds planning and implementation of nonpoint source pollution control activities.	Counties, cities, towns, conservation districts, or other political subdivision, municipal or quasi-municipal corporations, and federally recognized tribes. Stormwater Financial Assistance Program (SFAP) is limited to cities, counties, and public ports.	Loan: \$10,000,000 reserved for preconstruction statewide Interest rates (SFY 2025) 6-20 year loans: 1.2% 1-5 year loans: 0.6% <u>Preconstruction set-aside (Distressed Communities)</u> 50% forgivable principal loan and 50% loan	Applications due October 15, 2024. A cost effectiveness analysis must be complete at the time of application. Contact: Eliza Keeley 360-628-1976 Eliza.keeley@ecy.wa.gov https://ecology.wa.gov/About-us/How-we-operate/Grants-loans/Find-a-grant-or-loan/Water-Quality-grants-and-loans
Public Works Board PWB PRE-CON WA Department of Commerce Pre-Construction Program	Pre-construction activities to bring projects to a higher degree of readiness that prepare a specific project for construction. Roads, streets and bridges, domestic water, sanitary sewer, stormwater, and solid waste/recycling/organics facilities.	Counties, cities, special purpose districts, and quasi-municipal organizations that meet certain requirements. Ineligible applicants: school districts, port districts, and tribes, per statute.	Pre-construction awarded quarterly until funds are exhausted. Up to \$1,000,000 per project. FY25 interest rate: 0.86%. 5 year loan term. Maximum award per jurisdiction per biennium across all PWB funding programs: \$10 million Awards are typically 100% loans, but partial grant funding may be awarded to communities meeting Distressed or Severely Distressed criteria.	Contact: Sheila Richardson 564-999-1927 Sheila.richardson@commerce.wa.gov Check the Public Works Board website periodically at http://www.pwb.wa.gov to obtain the latest information on program details or to contact Public Works Board staff.

PRECONSTRUCTION ONLY Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
RCAC Rural Community Assistance Corporation Feasibility and Pre-Development Loans	Water, wastewater, stormwater, or solid waste planning; environmental work; and other work to assist in developing an application for infrastructure improvements.	Non-profit organizations, public agencies, tribes, and low-income rural communities with a 50,000 population or less, or 10,000 or less if proposed permanent financing is through USDA Rural Development.	Typically up to \$50,000 for feasibility loan. Typically up to \$350,000 for pre-development loan. Typically a 1-year term. 5.5% interest rate. 1% loan fee.	Applications accepted anytime. Contact: Jessica Scott 719-458-5460 jscott@rcac.org Applications available online at http://www.rcac.org/lending/environmental-loans/
Economic Development Administration (EDA) United States Department of Commerce EDA Public Works & Economic Adjustment Assistance Program: Design and/or Construction for distressed and disaster communities.	Drinking water infrastructure; including pre-distribution conveyance, withdrawal/harvest (i.e. well extraction), storage facilities, treatment and distribution. Waste water infrastructure; including conveyance, treatment facilities, discharge infrastructure and water recycling.	Indian Tribes; state, county, city, or other political subdivisions of a state; institutions of higher education; public or private non-profit organizations or associations acting in cooperation with officials of a political subdivision of a State.	Grants: EDA investment share up to \$500,000 Cost sharing required from applicant Standard grant rate is 50% of total project cost, and up to 80%. Up to 100% for Tribal Nations	Submit application through EDA Grants Management Experience “EDGE” Home (eda.gov) Contact: J. Wesley Cochran Economic Development Representative (206) 561-6646 jcochran@eda.gov

CONSTRUCTION AND DESIGN/CONSTRUCTION Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
DWSRF Drinking Water State Revolving Fund Construction Loan Program Department of Health	Drinking water system infrastructure projects aimed at increasing public health protection. There is principal forgiveness for disadvantaged communities.	Group A (private and publicly-owned) community and not-for-profit non-community water systems, but not federal or state-owned systems. Tribal systems are eligible provided the project is not receiving other national set-aside funding for the project.	Loan: Maximum \$15 million per jurisdiction. 2.25% annual interest rate (Final rate is set September 1, 2024). 1.0% loan service fee (water systems receiving subsidy are not subject to loan fees). 4-year time of performance, encouraged 2-year time of performance Loan repayment period: 20 years or life of the project, whichever is less. No local match required.	Online applications available and accepted year-round. Applications due November 30, 2024. Contact: Jocelyne Gray 564-669-4893 Jocelyne.gray@doh.wa.gov For information and forms visit: http://www.doh.wa.gov/DWSRF
DWSRF Drinking Water State Revolving Fund Lead Service Line (LSL) Replacement Loan Department of Health	Lead service line replacement. Galvanized service lines to be replaced per Lead and Copper Rule. Service water meters older than 1986 lead ban, as part of LSL replacement. There is principal forgiveness for disadvantaged communities.	Group A (private and publicly-owned) community and not-for-profit non-community water systems, but not federal or state-owned systems. Tribal systems are eligible provided the project is not receiving other national set-aside funding for the project.	Loan: Minimum \$25,000 No maximum 2.25% annual interest rate (Final rate is set September 1, 2024). 1% loan service fee (water systems receiving subsidy are not subject to loan fees) 4-year time of performance, encouraged 2-year time of performance 20-year repayment period	Online applications available and accepted October 1 year-round. Applications due November 30, 2024. Contact: Jocelyne Gray 564-669-4893 Jocelyne.gray@doh.wa.gov For information and forms visit: http://www.doh.wa.gov/DWSRF

CONSTRUCTION AND DESIGN/CONSTRUCTION Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
DWSRF Drinking Water State Revolving Fund Drinking Water System Rehabilitation and Consolidation Grant Department of Health	<u>Rehabilitation</u> Construction of infrastructure to bring water system into compliance. <u>Restructuring, Consolidation, Receivership Planning</u> Construction of infrastructure to bring water system into compliance.	<u>Rehabilitation</u> Group A water systems serving less than 10,000 people under a DOH compliance order. <u>Restructuring, Consolidation, Receivership</u> Group A publicly owned water system (city, town, county, public utility district, or water/sewer district), an approved Satellite Management Agency, or approved receiver.	Grant: Maximum \$1.25 million 4-year time of performance	By invite only. Contact: Jocelyne Gray 564-669-4893 Jocelyne.gray@doh.wa.gov For information and forms visit: http://www.doh.wa.gov/DWSRF
ECOLOGY: Water Quality Combined Funding Program State Water Pollution Control Revolving Fund (SRF) Centennial Clean Water Fund Stormwater Financial Assistance Program (SFAP)	Construction projects associated with publicly-owned wastewater and stormwater facilities. The integrated program also funds planning and implementation of nonpoint source pollution control activities.	Counties, cities, towns, conservation districts, or other political subdivision, municipal or quasi-municipal corporations, and federally recognized tribes. Stormwater Financial Assistance Program (SFAP) is limited to cities, counties, and public ports. <u>Hardship Assistance</u> Jurisdictions listed above with a service area population of 25,000 or less.	Loan: \$200,000,000 available statewide. Interest rates (SFY 2025) • 21-30 year loans: 1.6% • 6-20 year loans: 1.2% • 1-5 year loans: 0.6% <u>Hardship assistance</u> for the construction of wastewater treatment facilities may be available in the form of a reduced interest rate, and up to \$5,000,000 grant or loan forgiveness. <u>SFAP grant</u> maximum award per jurisdiction: \$10,000,000, with a required 15% match, with match reduced to 5% for hardship.	Applications due October 15, 2024. A cost effectiveness analysis must be complete at the time of application. Contact: Eliza Keeley 360-628-1976 Eliza.keeley@ecy.wa.gov https://ecology.wa.gov/About-us/How-we-operate/Grants-loans/Find-a-grant-or-loan/Water-Quality-grants-and-loans

CONSTRUCTION AND DESIGN/CONSTRUCTION Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
PWB Public Works Board Construction Program	New construction, replacement, and repair of existing infrastructure for roads, streets and bridges, domestic water, sanitary sewer, stormwater, and solid waste/recycling/organics.	Counties, cities, special purpose districts, and quasi-municipal organizations. Ineligible applicants: school districts, port districts, and tribes, per statute.	FY26 Cycle: Pending appropriation FY25 interest rate: 1.71%. Loan term 20 years. Maximum award per jurisdiction per biennium across all PWB funding programs: \$10 million Maximum project award: \$10 million per jurisdiction per biennium. Awards are typically 100% loans, but partial grant funding may be awarded to communities meeting Distressed criteria. Construction is a competitive program with two cycles per biennium.	Typically opens in Spring Contact: Sheila Richardson 564-999-1927 Sheila.richardson@commerce.wa.gov Check the Public Works Board website periodically at http://www.pwb.wa.gov to obtain the latest information on program details or to contact Public Works Board staff.

CONSTRUCTION AND DESIGN/CONSTRUCTION Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
RD U.S. Dept. of Agriculture Rural Development - Rural Utilities Service Water and Waste Disposal Direct Loans and Grants	Pre-construction and construction associated with building, repairing, or improving drinking water, wastewater, solid waste, and stormwater facilities.	Cities, towns, and other public bodies, tribes and private non- profit corporations serving rural areas with populations under 10,000. Population determined by U.S. Census 2020. Income determined by the American Community Survey 2017-2021 (5-year).	Loans; Grants in some cases Interest rates change quarterly; contact staff for latest interest rates. Up to 40-year loan term. No pre-payment penalty.	Applications accepted year-round on a fund-available basis. Contact: : Koni Reynolds 360-704-7737 koni.reynolds@usda.gov http://www.rd.usda.gov/wa
CERB Community Economic Revitalization Board Construction Program	Public facility projects required by private sector expansion and job creation. Projects must support significant job creation or significant private investment in the state. Bridges, roads and railroad spurs, domestic and industrial water, sanitary and storm sewers. Electricity, natural gas and telecommunications General purpose industrial buildings, port facilities. Acquisition, construction, repair, reconstruction, replacement, rehabilitation	Counties, cities, towns, port districts, special districts Federally-recognized tribes Municipal and quasi-municipal corporations with economic development purposes.	Maximum grant amounts: \$2,000,000 for construction projects. \$500,000 for housing rehabilitation programs. \$250,000 for microenterprise assistance programs.	Applications accepted year-round. The Board meets six times a year. Contact: Janea Stark 360-252-0812 janea.stark@commerce.wa.gov

CONSTRUCTION AND DESIGN/CONSTRUCTION Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
CDBG-GP Community Development Block Grant General Purpose Grants	Design and construction of community facility, wastewater, drinking water, stormwater and street/sidewalk projects. Infrastructure in support of affordable housing.	Projects must principally benefit low- to moderate-income people in non-entitlement cities and counties. List and map of local governments served by state CDBG program	Maximum grant amounts: \$2,000,000 for construction projects. \$500,000 for housing rehabilitation programs. \$250,000 for microenterprise assistance programs.	Applications accepted year-round on a fund-available basis. Contact: Jon Galow 509-847-5021 Jon.galow@commerce.wa.gov Visit www.commerce.wa.gov/cdbg for more information.
RCAC Rural Community Assistance Corporation Intermediate Term Loan	Water, wastewater, solid waste and stormwater facilities that primarily serve low-income rural communities.	Non-profit organizations, public agencies, tribes, and low-income rural communities with a 50,000 population or less.	Typically up to \$3 million with commitment letter for permanent financing Security in permanent loan letter of conditions Term matches construction period. 5.5% interest rate 1.125% loan fee	Applications accepted anytime. Contact: Jessica Scott 719-458-5460 jscott@rcac.org Applications available online at http://www.rcac.org/lending/environmental-loans/
RCAC Rural Community Assistance Corporation Construction Loans	Water, wastewater, solid waste and stormwater facilities that primarily serve low-income rural communities. Can include pre-development costs.	Non-profit organizations, public agencies, tribes, and low-income rural communities with a 50,000 population or less, or 10,000 populations or less if using USDA Rural Development financing as the takeout.	2023-2025 solicitation closed 9/25/2024 Longstanding program will likely be offered in the 2025-2027 biennium. Minimum match requirements will apply. Other State funds cannot be used as match.	Applications accepted anytime. Contact: Jessica Scott 719-458-5460 jscott@rcac.org Applications available online at http://www.rcac.org/lending/environmental-loans/

CONSTRUCTION AND DESIGN/CONSTRUCTION Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
Energy Retrofits for Public Buildings Program: Energy Efficiency Grant Washington State Department of Commerce	Retrofit projects that reduce energy consumption (electricity, gas, water, etc.) and operational costs on existing facilities and related projects owned by an eligible applicant. Projects must utilize devices that do not require fossil fuels whenever possible.	Washington State public entities, such as cities, towns, local agencies, public higher education institutions, school districts, federally recognized tribal governments, and state agencies. Some percentage of funds are reserved for projects in small towns or cities with populations of 5,000 or fewer. Priority given to applicants who have not received funding previously, certain priority communities.	2023-25 solicitation closed 09/25/2024. Longstanding program will likely be offered in the 2025-27 biennium. Minimum match requirements will apply. Other State funds cannot be used as match.	Contact: Kristen Kalbrener 360-515-8112 energyretrofits@commerce.wa.gov For more information: https://www.commerce.wa.gov/growing-the-economy/energy/energy-efficiency-and-solar-grants/
Energy Efficiency and Conservation Block Grant Washington State Department of Commerce	Energy audits and energy conservation planning projects including financing, infrastructure, public education	Local governments (cities, counties, federally-recognized tribes) Priority for disadvantaged communities	Funding for the current biennium is depleted. Visit our website to sign up for updates. Future funding anticipated in Late Spring 2025.	Contact: Kristen Kalbrener 360-515-8112 energyretrofits@commerce.wa.gov
Energy Retrofits for Public Buildings: Solar Grants Washington State Department of Commerce	Purchase and installation of grid-tied solar photovoltaic (electric) arrays net metered with existing facilities owned by public entities. Additional points for 'Made in Washington' components.	Washington State public entities, such as cities, towns, local agencies, public higher education institutions, school districts, federally recognized tribal governments, and state agencies. See above.	Funding for the current biennium is depleted. Visit our website to sign up for updates. Future funding anticipated in Late Spring 2025.	Contact: EPICgrants@commerce.wa.gov Visit: https://www.commerce.wa.gov/growing-the-economy/energy/epic/clean-energy-grant-programs/ for more information.

CONSTRUCTION AND DESIGN/CONSTRUCTION Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
Solar plus Storage for Resilient Communities Washington State Department of Commerce	The Solar plus Storage program funds solar and battery back-up power so community buildings can provide essential services when the power goes out, including both planning and installation grants.	Local governments, State governments, Tribal governments and their affiliates, Non-profit organizations and Retail electric utilities.	Funding for the current biennium is depleted. Visit our website to sign up for updates. Future funding anticipated in Late Spring 2025.	Contact: EPICgrants@commerce.wa.gov Visit: https://www.commerce.wa.gov/growing-the-economy/energy/epic/clean-energy-grant-programs
Dual Use Solar Washington State Department of Commerce	Constructions or planning projects that will lead to the creation of mixed use solar installation. Projects should include, but are not limited to, combining solar with: animal grazing, beekeeping, pollinator habitat, or other colocation uses.	Local governments, State governments, Tribal governments and their affiliates, Non-profit organizations, for-profit organizations, and Retail electric utilities.	Grants: EDA investment share up to \$5,000,000. Cost sharing required from applicant Standard grant rate is 50% of total project cost, and up to 80%. Up to 100% for Tribal Nations	Contact: EPICgrants@commerce.wa.gov Visit: https://www.commerce.wa.gov/growing-the-economy/energy/epic/clean-energy-grant-programs/

CONSTRUCTION AND DESIGN/CONSTRUCTION Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
Economic Development Administration (EDA) United States Department of Commerce EDA Public Works & Economic Adjustment Assistance Program: Design and/or Construction for distressed and disaster communities.	Drinking water infrastructure; including pre-distribution conveyance, withdrawal/ harvest (i.e. well extraction), storage facilities, treatment and distribution. Waste water infrastructure; including conveyance, treatment facilities, discharge infrastructure, water recycling.	Indian Tribes; state, county, city, or other political subdivisions of a state; institutions of higher education; public or private non-profit organizations or associations acting in cooperation with officials of a political subdivision of a State.	Loans may not exceed \$200,000 or 75% of the total project cost, whichever is less. Applicants given credit for documented project costs prior to receiving the loan. Interest rates at the lower of the poverty or market interest rate as published by USDA RD RUS, with a minimum of 3% at time of closing. Maximum repayment period is 10 years. Additional ranking points for a shorter repayment period. The repayment period cannot exceed the useful life of the facilities.	Submit application through EDA Grants Management Experience "EDGE" Home (eda.gov) Contact: J. Wesley Cochran Economic Development Representative (206) 561-6646 jcochran@eda.gov
RURAL WATER REVOLVING LOAN FUND	Short-term costs incurred for replacement equipment, small scale extension of services, or other small capital projects that are not a part of regular operations and maintenance for drinking water and wastewater projects.	Public entities, including municipalities, counties, special purpose districts, Native American Tribes, and corporations not operated for profit, including cooperatives, with up to 10,000 population and rural areas with no population limits.	\$55.5 million in total funds available in 2023-2025 biennium. \$19.4 million specifically reserved for jurisdictions with a population of less than 150,000. \$2,000,000 maximum award. Funds available as both grants and deferred loans.	Applications accepted anytime. Contact: Tracey Hunter Evergreen Rural Water of WA 360-462-9287 thunter@erwow.org Download application online: http://nrwa.org/initiatives/revolving-loan-fund/
Connecting Housing to Infrastructure Program (CHIP) Washington State Department of Commerce	Housing projects with at least 25% of units affordable for at least 25 years. Funding goes toward water, sewer, and stormwater infrastructure improvements for eligible projects, as well as toward system development charges and impact fees, which are waived to encourage affordable housing.	Cities, counties, and utility districts located in a jurisdiction which has a dedicated sales tax for affordable housing. The local jurisdiction will sponsor/ partner with a housing developer on the project.	\$55.5 million in total funds available in 2023-2025 biennium. \$19.4 million specifically reserved for jurisdictions with a population of less than 150,000. \$2,000,000 maximum award. Funds available as both grants and deferred loans.	Contact: Mischa Venables 360-725-3088 Mischa.venables@commerce.wa.gov Visit www.commerce.wa.gov/CHIP

EMERGENCY Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
ECOLOGY Water Quality Emergency Clean Water State Revolving Funding Program	Projects that may result from a natural disaster or an immediate and emergent threat to public health due to water quality issues resulting from unforeseen or unavoidable circumstances. Water quality-related projects considered to be an environmental emergency that meets the WAC 173-98-030(27)5 definition and has received a Declaration of Emergency from the local Government.	Only available to public bodies serving a population of 10,000 or less. Counties, cities, and towns, federally recognized tribes, water and sewer districts, irrigation districts, conservation districts, local health jurisdictions, port districts, quasi-municipal corporations, Washington State institutions of higher education	Loan: \$5,000,000 maximum Interest rates (SFY25): 10-year loan, 0.0-1.6%	Available year round. Contact: Eliza Keeley 360-628-1976 Eliza.keeley@ecy.wa.gov https://ecology.wa.gov/About-us/How-we-operate/Grants-loans/Find-a-grant-or-loan/Water-Quality-grants-and-loans

EMERGENCY Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
RD – ECWAG U.S. Dept. of Agriculture Rural Development Emergency Community Water Assistance Grants	Domestic water projects needing emergency repairs due to an incident such as: a drought; earthquake; flood; chemical spill; fire; etc. A significant decline in quantity or quality of potable water supply that was caused by an emergency.	Public bodies, tribes and private non-profit corporations serving rural areas with populations under 10,000. Population determined by U.S. Census 2020. Income determined by the American Community Survey 2017-2021 (5-year).	Grant; pending availability of funds. Water transmission line grants up to \$150,000 to construct water line extensions, repair breaks or leaks in existing water distribution lines, and address related maintenance to replenish the water supply. Water source grants up to \$1,000,000 for the construction of new wells, reservoirs, transmission lines, treatment plants, and/or other sources of water (water source up to and including the treatment plant).	Applications accepted year-round on a fund-available basis. Contact: Koni Reynolds 360-704-7737 koni.reynolds@usda.gov http://www.rd.usda.gov/wa
DWSRF Department of Health – Drinking Water State Revolving Fund Emergency Loan Program Department of Health	Will financially assist eligible communities experiencing the loss of critical drinking water services or facilities due to an emergency.	Publicly or privately owned (not-for-profit) Group A community water systems with a population of fewer than 10,000. Transient or non-transient non-community public water systems owned by a non-profit organization. Non-profit non-community water systems must submit tax-exempt documentation. Tribal systems are eligible provided the project is not receiving other national set-aside funding for the project.	Loan: Interest rate: 0%, no subsidy available Loan fee: 1.5% Loan term: 10 years \$500,000 maximum award per jurisdiction. Time of performance: 2 years from contract execution to project completion date. Repayment commencing first October after contract execution.	To be considered for an emergency loan, an applicant must submit a completed emergency application package to the department. Contact: Jocelyne Gray 564-669-4893 Jocelyne.gray@doh.wa.gov For information and forms visit: http://www.doh.wa.gov/DWSRF

EMERGENCY Programs	Eligible Projects	Eligible Applicants	Funding Available	How To Apply
RURAL WATER REVOLVING LOAN FUND Disaster area emergency loans	Contact staff for more information on emergency loans.	Public entities, including municipalities, counties, special purpose districts, Native American Tribes, and corporations not operated for profit, including cooperatives, with up to 10,000 population and rural areas with no population limits.	90-day, no interest, disaster area emergency loans with immediate turn-around. Download application online: http://nrwa.org/initiatives/revolving-loan-fund/	Applications accepted anytime. Contact: Tracey Hunter Evergreen Rural Water of WA 360-462-9287 thunter@erwow.org
HAZARD MITIGATION GRANT PROGRAM FEMA/WA Emergency Management Division	Disaster risk-reduction projects and planning after a disaster declaration in the state.	Any state, tribe, county, or local jurisdiction (incl., special purpose districts) that has a current FEMA-approved hazard mitigation plan.	Varies depending on the level of disaster, but projects only need to compete at the state level. Local jurisdiction cost-share: 12.5%	Applications will be opened after a disaster declaration. Contact: Tim Cook State Hazard Mitigation Officer 253-512-7072 Tim.cook@mil.wa.gov
PUBLIC ASSISTANCE PROGRAM FEMA/WA Emergency Management Division	Construction, repair to, and restoration of publicly owned facilities damaged during a disaster. Debris-removal, life-saving measures, and restoration of public infrastructure.	State, tribes, counties, and local jurisdictions directly affected by the disaster.	Varies depending on the level of disaster and total damage caused.	Applications are opened after disaster declaration. Contact: Gary Urbas Public Assistance Project Manager 253-512-7402 Gary.urbas@mil.wa.gov
WASHINGTON STATE DEPARTMENT OF COMMERCE ERR - Emergency Rapid Response	Projects that provide continuity of essential community services/ lifelines that become diminished during an emergency and recovery assistance after an emergency event. Projects that restore service for a limited duration or through a temporary measure. These funds are not designated for long term recovery costs associated with the full re-establishment of lifeline services.	Tribes and local governments	Grant; pending availability of funds \$5,000,000- \$6,000,000 Period of performance state fiscal year July-June	Applications accepted year-round until funding exhausted. \$5.5 to 6 million available to award each year. Contact: Nicole Patrick 206-713-6997 Nicole.patrick@commerce.wa.gov For information and application visit: EmergencyRapidResponse or https://deptofcommerce.box.com/s/skmab4hq3l4z55jazzc7qlsmbrrsgermv

THIS PAGE INTENTIONALLY BLANK.

Appendix T

Financial Model

THIS PAGE INTENTIONALLY BLANK.



Manchester Water District Water System Plan Update Summary

Revenue Requirement	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Revenues											
Rate Revenues Under Existing Rates	\$ 1,854,679	\$ 1,859,550	\$ 1,864,422	\$ 1,869,294	\$ 1,874,166	\$ 1,879,037	\$ 1,883,909	\$ 1,888,781	\$ 1,893,653	\$ 1,898,524	\$ 1,903,396
Non-Rate Revenues	155,160	154,930	159,233	155,627	160,286	160,851	161,331	161,881	162,450	163,039	163,648
Total Revenues	\$ 2,009,839	\$ 2,014,480	\$ 2,023,655	\$ 2,024,921	\$ 2,034,451	\$ 2,039,888	\$ 2,045,240	\$ 2,050,661	\$ 2,056,102	\$ 2,061,563	\$ 2,067,044
Expenses											
Cash Operating Expenses	\$ 1,903,260	\$ 1,930,880	\$ 2,013,054	\$ 2,073,137	\$ 2,149,560	\$ 2,214,405	\$ 2,288,755	\$ 2,365,699	\$ 2,445,327	\$ 2,527,734	\$ 2,613,017
Existing Debt Service	95,927	43,581	42,891	42,201	41,511	40,820	40,130	-	-	-	-
New Debt Service	-	16,320	59,267	58,408	57,549	56,691	55,832	93,345	305,143	626,479	821,838
Fleet and Equipment Replacement Program	178,000	62,400	-	157,481	70,192	60,833	63,266	65,797	68,428	71,166	74,012
Total Expenses	\$ 2,177,187	\$ 2,053,181	\$ 2,115,212	\$ 2,331,228	\$ 2,318,812	\$ 2,372,748	\$ 2,447,983	\$ 2,524,841	\$ 2,818,899	\$ 3,225,379	\$ 3,508,867
Net Surplus (Deficiency)	\$ (167,348)	\$ (38,701)	\$ (91,557)	\$ (306,307)	\$ (284,361)	\$ (332,860)	\$ (402,743)	\$ (474,179)	\$ (762,796)	\$ (1,163,816)	\$ (1,441,822)
Additions to Meet Coverage	-	-	-	-	-	-	-	-	-	-	-
Total Surplus (Deficiency)	\$ (167,348)	\$ (38,701)	\$ (91,557)	\$ (306,307)	\$ (284,361)	\$ (332,860)	\$ (402,743)	\$ (474,179)	\$ (762,796)	\$ (1,163,816)	\$ (1,441,822)
% of Rate Revenue	9.02%	2.08%	4.91%	16.39%	15.17%	17.71%	21.38%	25.11%	40.28%	61.30%	75.75%
Annual Rate Adjustment	0.00%	10.50%	10.50%	10.00%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%
Cumulative Annual Rate Adjustment	0.00%	10.50%	22.10%	34.31%	46.40%	59.58%	73.94%	89.59%	106.66%	125.26%	145.53%
Rate Revenues After Rate Increase	\$ 1,854,679	\$ 2,054,803	\$ 2,276,506	\$ 2,510,700	\$ 2,743,795	\$ 2,998,511	\$ 3,276,851	\$ 3,581,004	\$ 3,913,362	\$ 4,276,539	\$ 4,673,389
Additional Taxes from Rate Increase	\$ -	\$ 9,819	\$ 20,724	\$ 32,256	\$ 43,734	\$ 56,298	\$ 70,051	\$ 85,102	\$ 101,571	\$ 119,590	\$ 139,303
Net Cash Flow After Rate Increase	(167,348)	146,732	299,803	302,843	541,535	730,316	920,148	1,132,942	1,155,342	1,094,608	1,188,868
Coverage After Rate Increases	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Sample Residential Bi-Monthly Bill*	\$ 88.20	\$ 97.46	\$ 107.70	\$ 118.50	\$ 129.16	\$ 140.74	\$ 153.48	\$ 167.28	\$ 182.35	\$ 198.73	\$ 216.62
Bi-Monthly Average Increase (\$)*		\$ 9.26	\$ 10.24	\$ 10.80	\$ 10.66	\$ 11.58	\$ 12.74	\$ 13.80	\$ 15.07	\$ 16.38	\$ 17.89
*Bi-Monthly Bill for 3/4" Residential Meter using 14 CCF											

Fund Balance	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
OPERATING FUND											
Beginning Balance	\$ 500,000	\$ 332,652	\$ 476,107	\$ 355,911	\$ 511,185	\$ 530,029	\$ 546,018	\$ 564,351	\$ 583,323	\$ 602,957	\$ 623,277
plus: Net Cash Flow after Rate Increase	(167,348)	146,732	299,803	302,843	541,535	730,316	920,148	1,132,942	1,155,342	1,094,608	1,188,868
less: Transfer of Surplus to Construction Restricted Fund	-	(3,277)	(420,000)	(147,570)	(522,691)	(714,327)	(901,815)	(1,113,969)	(1,135,708)	(1,074,289)	(1,350,000)
Ending Balance	\$ 332,652	\$ 476,107	\$ 355,911	\$ 511,185	\$ 530,029	\$ 546,018	\$ 564,351	\$ 583,323	\$ 602,957	\$ 623,277	\$ 623,277
Minimum Target Balance	\$ 312,865	\$ 317,405	\$ 330,913	\$ 340,790	\$ 353,352	\$ 364,012	\$ 376,234	\$ 388,882	\$ 401,972	\$ 415,518	\$ 429,537
Percentage Cash Operating Expenses	87%	94%	95%	89%	93%	93%	93%	94%	87%	78%	74%
Construction Restricted Fund											
Beginning Balance	\$ 539,987	\$ 473,459	\$ 161,289	\$ 120,862	\$ 133,434	\$ 512,506	\$ 588,833	\$ 692,491	\$ 1,650,398	\$ 2,648,254	\$ 973,533
plus: Transfers from Operating Fund	-	3,277	420,000	147,570	522,691	714,327	901,815	1,113,969	1,135,708	1,074,289	1,350,000
plus: Grants/Donations/CIAC	-	-	-	-	-	-	-	-	-	-	-
plus: Net Debt Proceeds Available for Projects	400,000	416,000	-	-	-	-	-	1,918,629	4,989,803	3,091,569	1,598,664
plus: Interest Earnings	16,200	14,204	4,839	3,626	4,003	15,375	17,665	20,775	49,512	79,448	29,206
Total Funding Sources	\$ 1,025,267	\$ 993,289	\$ 672,478	\$ 358,407	\$ 746,478	\$ 1,328,558	\$ 1,594,663	\$ 3,832,213	\$ 7,911,771	\$ 6,979,909	\$ 4,037,753
less: Capital Expenditures	(551,808)	(832,000)	(551,616)	(224,973)	(233,972)	(739,725)	(902,172)	(2,181,815)	(5,263,517)	(6,006,376)	(3,709,492)
Ending Working Capital Balance	\$ 473,459	\$ 161,289	\$ 120,862	\$ 133,434	\$ 512,506	\$ 588,833	\$ 692,491	\$ 1,650,398	\$ 2,648,254	\$ 973,533	\$ 328,261
Minimum Target Balance	\$ 103,809	\$ 112,129	\$ 117,645	\$ 119,895	\$ 122,235	\$ 129,632	\$ 138,654	\$ 160,472	\$ 213,107	\$ 273,171	\$ 310,266



Manchester Water District Water System Plan Update Assumptions

Economic & Financial Factors		2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1	General Cost Inflation	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%
2	Construction Cost Inflation	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
3	Labor Cost Inflation	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%
4	Benefit Cost Inflation	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%
5	General Inflation plus Composite Growth	3.72%	3.77%	3.77%	3.77%	3.77%	3.77%	3.77%	3.77%	3.77%	3.77%	3.77%
6	Customer Growth	0.21%	0.26%	0.26%	0.26%	0.26%	0.26%	0.26%	0.26%	0.26%	0.26%	0.26%
Investment Interest		3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
State Excise Tax		5.029%	5.029%	5.029%	5.029%	5.029%	5.029%	5.029%	5.029%	5.029%	5.029%	5.029%
B&O Tax		1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%

Accounting Assumptions		2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Fiscal Policy Restrictions												
Min. Op. Fund Balance Target (days of O&M expense)		60	60	60	60	60	60	60	60	60	60	60
Max. Op. Fund Balance (days of O&M expense)		90	90	90	90	90	90	90	90	90	90	90
Minimum Capital Fund Balance Target												
Select Minimum Capital Fund Balance Target		1										
Defined as % of Plant												
1 - Defined as % of Plant												
Plant-in-Service in 2017		\$ 9,829,106										
Minimum Capital Fund Balance - % of plant assets												
2 - Amount at Right ==>		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Capital Financing Assumptions		2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
General Facilities Charges (GFCs) and Local Facilities Charges (LFCs)												
GFC for a 3/4" Meter Installation		\$ 6,910										
LFC for a 3/4" Meter Installation		\$ 1,725										
GFC and LFC Revenues												
Total Equivalent Residential Units (ERUs)		2025 Projected ERU Count	3,789									
Additional Units Per Year												
Total GFC and LFC Revenues		\$ 69,080	\$ 86,350	\$ 86,350	\$ 86,350	\$ 86,350	\$ 86,350	\$ 86,350	\$ 86,350	\$ 86,350	\$ 86,350	\$ 86,350
Revenue Bonds												
Term (Years)		25	25	25	25	25	25	25	25	25	25	25
Interest Cost		4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%
Issuance Cost		1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Revenue Bond Coverage Requirement		1.25										
DWSRF/PWTF Loans												
Term (Years)		20	20	20	20	20	20	19	18	20	19	20
Interest Cost		2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
Required Local Match		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other Loans												
Term (years)		20	20	20	20	20	20	20	20	20	20	20
Interest Cost		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%
Issuance Cost		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%



Manchester Water District
Water System Plan Update
Operating Revenue and Expenditure Forecast

			Actual	Actual	Budget	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection
Revenues		FORECAST BASIS	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Rate Revenues															
Water Sales	6	Customer Growth	\$ 1,772,724	\$ 1,850,779	\$ 1,854,679	\$ 1,859,550	\$ 1,864,422	\$ 1,869,294	\$ 1,874,166	\$ 1,879,037	\$ 1,883,909	\$ 1,888,781	\$ 1,893,653	\$ 1,898,524	\$ 1,903,396
Total Rate Revenue			\$ 1,772,724	\$ 1,850,779	\$ 1,854,679	\$ 1,859,550	\$ 1,864,422	\$ 1,869,294	\$ 1,874,166	\$ 1,879,037	\$ 1,883,909	\$ 1,888,781	\$ 1,893,653	\$ 1,898,524	\$ 1,903,396
Non-Rate Revenues															
Penalties & Fees	9	No Escalation	\$ 21,377	\$ 27,034	\$ 23,000	\$ 23,000	\$ 23,000	\$ 23,000	\$ 23,000	\$ 23,000	\$ 23,000	\$ 23,000	\$ 23,000	\$ 23,000	\$ 23,000
Streetlight Revenue	9	No Escalation	27,774	28,072	27,000	27,000	27,000	27,000	27,000	27,000	27,000	27,000	27,000	27,000	27,000
Satellite Systems	9	No Escalation	2,103	2,157	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Port of Manchester	9	No Escalation	20,021	17,820	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
Rental Revenue	9	No Escalation	53,686	53,895	56,000	56,000	56,000	56,000	56,000	56,000	56,000	56,000	56,000	56,000	56,000
Jobbing Labor	9	No Escalation	-	-	-	-	-	-	-	-	-	-	-	-	-
Meter Installation Fee		Calculated	82,122	13,566	19,160	23,950	23,950	23,950	23,950	23,950	23,950	23,950	23,950	23,950	23,950
Miscellaneous Revenue	9	No Escalation	16,193	31,458	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Total Non-Rate Revenues			\$ 223,276	\$ 174,002	\$ 140,160	\$ 144,950	\$ 144,950	\$ 144,950	\$ 144,950	\$ 144,950	\$ 144,950	\$ 144,950	\$ 144,950	\$ 144,950	\$ 144,950
TOTAL REVENUES			\$ 1,996,000	\$ 2,024,781	\$ 1,994,839	\$ 2,004,500	\$ 2,009,372	\$ 2,014,244	\$ 2,019,116	\$ 2,023,987	\$ 2,028,859	\$ 2,033,731	\$ 2,038,603	\$ 2,043,474	\$ 2,048,346

Expenses		FORECAST BASIS	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
STATE EXCISE TAXES		Calculation	\$ 89,150	\$ 93,076	\$ 93,272	\$ 93,517	\$ 93,762	\$ 94,007	\$ 94,252	\$ 94,497	\$ 94,742	\$ 94,987	\$ 95,232	\$ 95,477	\$ 95,722
B&O TAXES		Calculation	7,355	2,143	2,284	2,615	2,615	2,615	2,615	2,615	2,615	2,615	2,615	2,615	2,615
General Expenditures															
Human Resources	3	Labor Cost Inflation	\$ 1,047,846	\$ 1,043,242	\$ 1,080,000	\$ 1,117,800	\$ 1,156,923	\$ 1,197,415	\$ 1,239,325	\$ 1,282,701	\$ 1,327,596	\$ 1,374,062	\$ 1,422,154	\$ 1,471,929	\$ 1,523,447
Professional Services	1	General Cost Inflation	26,869	22,595	55,000	31,050	32,137	33,262	34,426	35,631	36,878	38,168	39,504	40,887	42,318
AWWA Conference	1	General Cost Inflation	-	5,695	10,000	-	10,712	11,087	11,475	11,877	12,293	12,723	13,168	13,629	14,106
Election Costs	1	General Cost Inflation	6,404	-	-	-	7,000	-	7,000	-	-	-	-	-	-
Administrative	1	General Cost Inflation	222,979	210,746	228,604	236,605	244,887	253,458	262,329	271,510	281,013	290,848	301,028	311,564	322,469
Operations & Maintenance	1	General Cost Inflation	361,747	359,503	405,000	419,175	433,846	449,031	464,747	481,013	497,848	515,273	533,308	551,973	571,292
Streetsights	1	General Cost Inflation	19,105	22,770	25,000	25,875	26,781	27,718	28,688	29,692	30,731	31,807	32,920	34,072	35,265
Satellite Systems	1	General Cost Inflation	479	272	600	621	643	665	689	713	738	763	790	818	846
Port of Manchester	1	General Cost Inflation	6,720	5,187	3,500	3,623	3,749	3,881	4,016	4,157	4,302	4,453	4,609	4,770	4,937
Rental Expense	1	General Cost Inflation	-	-	-	-	-	-	-	-	-	-	-	-	-
Jobbing	1	General Cost Inflation	-	-	-	-	-	-	-	-	-	-	-	-	-
Developer Extension Payback	9	No Escalation	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Outlay / Fleet & Other Improvemen	2	Construction Cost Inflation	73,382	39,887	178,000	62,400	-	157,481	70,192	60,833	63,266	65,797	68,428	71,166	74,012
Total Cash O&M Expenditures			\$ 1,882,035	\$ 1,805,114	\$ 2,081,260	\$ 1,993,280	\$ 2,013,054	\$ 2,230,618	\$ 2,219,752	\$ 2,275,237	\$ 2,352,021	\$ 2,431,496	\$ 2,513,756	\$ 2,598,900	\$ 2,687,029



Manchester Water District
Water System Plan Update
Existing Debt Input

Existing Debt Service - Revenue Bonds	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
TOTAL REVENUE BONDS											
Annual Interest Payment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Principal Payment	-	-	-	-	-	-	-	-	-	-	-
Total Annual Payment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Use of Debt reserve for Debt Service	-	-	-	-	-	-	-	-	-	-	-
Annual Debt Reserve Target on Existing Revenue Bonds	-	-	-	-	-	-	-	-	-	-	-

Existing Debt Service - PWTF Loans	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
2005 Water Main Improvements											
Annual Interest Payment	\$ 257	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Principal Payment	51,399	-	-	-	-	-	-	-	-	-	-
Total Annual Payment	\$ 51,656	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2011 Banner Road Tank											
Annual Interest Payment	\$ 4,831	\$ 4,141	\$ 3,451	\$ 2,761	\$ 2,071	\$ 1,380	\$ 690	\$ -	\$ -	\$ -	\$ -
Annual Principal Payment	39,440	39,440	39,440	39,440	39,440	39,440	39,440	-	-	-	-
Total Annual Payment	\$ 44,271	\$ 43,581	\$ 42,891	\$ 42,201	\$ 41,511	\$ 40,820	\$ 40,130	\$ -	\$ -	\$ -	\$ -
TOTAL PWTF LOANS											
Annual Interest Payment	\$ 5,088	\$ 4,141	\$ 3,451	\$ 2,761	\$ 2,071	\$ 1,380	\$ 690	\$ -	\$ -	\$ -	\$ -
Annual Principal Payment	90,839	39,440	39,440	39,440	39,440	39,440	39,440	-	-	-	-
Total Annual Payment	\$ 95,927	\$ 43,581	\$ 42,891	\$ 42,201	\$ 41,511	\$ 40,820	\$ 40,130	\$ -	\$ -	\$ -	\$ -

Existing Debt Service - Other Loans	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
TOTAL OTHER LOANS											
Annual Interest Payment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Principal Payment	-	-	-	-	-	-	-	-	-	-	-
Total Annual Payment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Total Existing Debt Service - All Loans	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
TOTAL WATER LOANS											
Annual Interest Payment	\$ 5,088	\$ 4,141	\$ 3,451	\$ 2,761	\$ 2,071	\$ 1,380	\$ 690	\$ -	\$ -	\$ -	\$ -
Annual Principal Payment	90,839	39,440	39,440	39,440	39,440	39,440	39,440	-	-	-	-
Total Annual Payment	\$ 95,927	\$ 43,581	\$ 42,891	\$ 42,201	\$ 41,511	\$ 40,820	\$ 40,130	\$ -	\$ -	\$ -	\$ -



Manchester Water District
Water System Plan Update
Capital Improvement Program

Project Costs and O&M Impacts in Year: **2025**

No	Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Specific Funding Source 1-Enterprise Fund, 2-Grants & Developer Donations
1	Water Main Improvements												1
2	Annual Water Main Replacement	-	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1
3	Southworth Drive Water Main												1
4	Banner Road Tank Transmission Main												1
5	Sedgwick Road Tank Transmission Main									-	-	1,080,000	1
6													1
7	Pressure Reducing Station and Relief Improvements												1
8	Montana Ext. and Alki View Press. Relief					-		105,000					1
9	Beach PRV Replacement				-		408,000						1
10	Nevada Avenue PRV					-		408,000					1
11													1
12	Pressure Zone Improvements												1
13	North 277 Zone to North 430 Zone Conv.		-	310,000									1
14	North 430 Zone to 480 Zone Conv.												1
15	South 430 Zone to 500 Zone Conv.						-	-	1,458,000	3,646,000	3,646,000		1
16													1
17	Facility Improvements												1
18	WSUD Nevada Street Intertie												1
19	Well 10 and 11 Treatment Facility	400,000	400,000										1
20	Cedar Avenue BPS Replacement										284,000	1,136,000	1
21	WSUD Mile Hill Drive Intertie												1
22	South End Reservoir												1
23													1
24	Miscellaneous Improvements												1
25	Garfield Pump Station Improvements	61,808	200,000										1
26	Storage Tank Cleaning and Inspection												2
27	Water System Plan Update	90,000									90,000	90,000	1
28	Water Use Efficiency Program												2
29	Cross-Connection Control Program												2
30	Wellhead Protection Program												2
31													1
32	Developer-Funded Improvements												2
33	Arvick Water Main Extension and PRV												2
34	Wilson Creek Water Main Extension and PRV												2
35													1
Total Capital Projects		\$ 551,808	\$ 800,000	\$ 510,000	\$ 200,000	\$ 200,000	\$ 608,000	\$ 713,000	\$ 1,658,000	\$ 3,846,000	\$ 4,220,000	\$ 2,506,000	
<i>BHC CIP Reconcile</i>		690,000	910,000	200,000	608,000	713,000	1,658,000	3,846,000	3,846,000	1,280,000	1,654,000	1,426,000	
<i>2025 Budget Additions to CIP Reconcile</i>		61,808	200,000										
<i>Project schedule changes discussed with the City</i>		(200,000)	(310,000)	310,000	(408,000)	(513,000)	(1,050,000)	(3,133,000)	(2,188,000)	2,566,000	2,566,000	1,080,000	
<i>Difference:</i>		-	-	-	-	-	-	-	-	-	-	-	



Manchester Water District
Water System Plan Update
Capital Improvement Program

Project Costs and O&M Impacts in Year:

TOTAL FORECASTED PROJECT COSTS

No	Description	TOTAL ESCALATED COSTS	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1	Water Main Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	Annual Water Main Replacement	6,193,840	-	208,000	216,320	224,973	233,972	243,331	253,064	263,186	273,714	284,662	296,049
3	Southworth Drive Water Main	831,305	-	-	-	-	-	-	-	-	-	-	-
4	Banner Road Tank Transmission Main	6,343,930	-	-	-	-	-	-	-	-	-	-	-
5	Sedgwick Road Tank Transmission Main	3,261,274	-	-	-	-	-	-	-	-	-	-	1,598,664
6		-	-	-	-	-	-	-	-	-	-	-	-
7	Pressure Reducing Station and Relief Improvements	-	-	-	-	-	-	-	-	-	-	-	-
8	Montana Ext. and Alki View Press. Relief	132,858	-	-	-	-	-	-	132,858	-	-	-	-
9	Beach PRV Replacement	496,394	-	-	-	-	-	496,394	-	-	-	-	-
10	Nevada Avenue PRV	516,250	-	-	-	-	-	-	516,250	-	-	-	-
11		-	-	-	-	-	-	-	-	-	-	-	-
12	Pressure Zone Improvements	-	-	-	-	-	-	-	-	-	-	-	-
13	North 277 Zone to North 430 Zone Conv.	335,298	-	-	335,298	-	-	-	-	-	-	-	-
14	North 430 Zone to 480 Zone Conv.	16,039,021	-	-	-	-	-	-	-	-	-	-	-
15	South 430 Zone to 500 Zone Conv.	12,097,828	-	-	-	-	-	-	-	1,918,629	4,989,803	5,189,395	-
16		-	-	-	-	-	-	-	-	-	-	-	-
17	Facility Improvements	-	-	-	-	-	-	-	-	-	-	-	-
18	WSUD Nevada Street Intertie	831,205	-	-	-	-	-	-	-	-	-	-	-
19	Well 10 and 11 Treatment Facility	816,000	400,000	416,000	-	-	-	-	-	-	-	-	-
20	Cedar Avenue BPS Replacement	2,085,778	-	-	-	-	-	-	-	-	-	404,221	1,681,558
21	WSUD Mile Hill Drive Intertie	1,836,962	-	-	-	-	-	-	-	-	-	-	-
22	South End Reservoir	10,386,766	-	-	-	-	-	-	-	-	-	-	-
23		-	-	-	-	-	-	-	-	-	-	-	-
24	Miscellaneous Improvements	-	-	-	-	-	-	-	-	-	-	-	-
25	Garfield Pump Station Improvements	269,808	61,808	208,000	-	-	-	-	-	-	-	-	-
26	Storage Tank Cleaning and Inspection	-	-	-	-	-	-	-	-	-	-	-	-
27	Water System Plan Update	738,138	90,000	-	-	-	-	-	-	-	-	128,098	133,222
28	Water Use Efficiency Program	-	-	-	-	-	-	-	-	-	-	-	-
29	Cross-Connection Control Program	-	-	-	-	-	-	-	-	-	-	-	-
30	Wellhead Protection Program	-	-	-	-	-	-	-	-	-	-	-	-
31		-	-	-	-	-	-	-	-	-	-	-	-
32	Developer-Funded Improvements	-	-	-	-	-	-	-	-	-	-	-	-
33	Arvick Water Main Extension and PRV	-	-	-	-	-	-	-	-	-	-	-	-
34	Wilson Creek Water Main Extension and PRV	-	-	-	-	-	-	-	-	-	-	-	-
35		-	-	-	-	-	-	-	-	-	-	-	-
Total Capital Projects		\$ 63,212,654	\$ 551,808	\$ 832,000	\$ 551,616	\$ 224,973	\$ 233,972	\$ 739,725	\$ 902,172	\$ 2,181,815	\$ 5,263,517	\$ 6,006,376	\$ 3,709,492
<i>BHC CIP Reconcile</i>													
<i>2025 Budget Additions to CIP Reconcile</i>													
<i>Project schedule changes discussed with the City</i>													
<i>Difference:</i>													



Manchester Water District
Water System Plan Update
Capital Funding Analysis

2025 - 2035												
Summary of Expenditures	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	TOTAL
CAPITAL PROJECTS												
Improvement Upgrades & Expansions	\$ 400,000	\$ 624,000	\$ 551,616	\$ 224,973	\$ 233,972	\$ 739,725	\$ 902,172	\$ 2,181,815	\$ 5,263,517	\$ 5,878,278	\$ 2,776,938	\$ 19,777,005
Repairs and Replacements	151,808	208,000	-	-	-	-	-	-	-	128,098	932,554	1,420,460
TOTAL CAPITAL EXPENDITURES	\$ 551,808	\$ 832,000	\$ 551,616	\$ 224,973	\$ 233,972	\$ 739,725	\$ 902,172	\$ 2,181,815	\$ 5,263,517	\$ 6,006,376	\$ 3,709,492	\$ 21,197,465
Capital Financing Plan	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	TOTAL
Grants	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Project Specific CIAC	-	-	-	-	-	-	-	-	-	-	-	-
Project to be Funded	\$ 551,808	\$ 832,000	\$ 551,616	\$ 224,973	\$ 233,972	\$ 739,725	\$ 902,172	\$ 2,181,815	\$ 5,263,517	\$ 6,006,376	\$ 3,709,492	\$ 21,197,465
OTHER FUNDING SOURCES												
Other Outside Sources	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWTF Loans	400,000	416,000	-	-	-	-	-	1,918,629	4,989,803	3,091,569	1,598,664	12,414,664
Low Interest Loans	-	-	-	-	-	-	-	-	-	-	-	-
Direct Rate Funding	-	-	-	-	-	-	-	-	-	-	-	-
Use of Capital Reserves	151,808	416,000	129,994	87,317	97,550	469,224	536,530	263,186	273,714	2,461,433	749,618	5,636,373
User Input for Revenue Bonds	-	-	-	-	-	-	-	-	-	-	-	\$ -
Info: revenue bond proceeds	-	-	-	-	-	-	-	-	-	-	-	\$ -
TOTAL CAPITAL RESOURCES	\$ 551,808	\$ 832,000	\$ 129,994	\$ 87,317	\$ 97,550	\$ 469,224	\$ 536,530	\$ 2,181,815	\$ 5,263,517	\$ 5,553,002	\$ 2,348,281	\$ 18,051,037
Info: Capital Contingency Deficit	-	-	-	-	-	-	-	-	-	-	-	-
New Debt Computations	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	TOTAL
REVENUE BONDS												
Amount to Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Issuance Costs	-	-	-	-	-	-	-	-	-	-	-	-
Reserve Required	-	-	-	-	-	-	-	-	-	-	-	-
Amount of Debt Issue	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER LOANS												
Amount to Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Issuance Costs	-	-	-	-	-	-	-	-	-	-	-	-
Amount of Debt Issue	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DWSRF/PWTF LOANS												
Amount to Fund	\$ 400,000	\$ 416,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,918,629	\$ 4,989,803	\$ 3,091,569	\$ 1,598,664	\$ 12,414,664
Debt Service Summary	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	TOTAL
EXISTING DEBT SERVICE												
Annual Interest Payments	\$ 5,088	\$ 4,141	\$ 3,451	\$ 2,761	\$ 2,071	\$ 1,380	\$ 690	\$ -	\$ -	\$ -	\$ -	\$ 19,582
Annual Principal Payments	90,839	39,440	39,440	39,440	39,440	39,440	39,440	-	-	-	-	327,479
Total Debt Service Payments	\$ 95,927	\$ 43,581	\$ 42,891	\$ 42,201	\$ 41,511	\$ 40,820	\$ 40,130	\$ -	\$ -	\$ -	\$ -	\$ 347,061
Revenue Bond Payments Only	-	-	-	-	-	-	-	-	-	-	-	-
NEW DEBT SERVICE												
Annual Interest Payments	\$ -	\$ 16,320	\$ 16,320	\$ 15,461	\$ 14,602	\$ 13,743	\$ 12,884	\$ 50,398	\$ 149,335	\$ 208,050	\$ 231,655	\$ 728,768
Annual Principal Payments	-	-	42,947	42,947	42,947	42,947	42,947	42,947	155,808	418,429	590,183	1,422,104
Total Debt Service Payments	\$ -	\$ 16,320	\$ 59,267	\$ 58,408	\$ 57,549	\$ 56,691	\$ 55,832	\$ 93,345	\$ 305,143	\$ 626,479	\$ 821,838	\$ 2,150,872
Revenue Bond Payments Only	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL DEBT SERVICE PAYMENTS	\$ 95,927	\$ 59,901	\$ 102,158	\$ 100,609	\$ 99,060	\$ 97,511	\$ 95,962	\$ 93,345	\$ 305,143	\$ 626,479	\$ 821,838	\$ 2,497,933
Total Interest Payments	5,088	20,461	19,771	18,222	16,673	15,123	13,574	50,398	149,335	208,050	231,655	748,350
Total Principal Payments	90,839	39,440	82,387	82,387	82,387	82,387	82,387	42,947	155,808	418,429	590,183	1,749,583
Total Revenue Bond Payments Only	-	-	-	-	-	-	-	-	-	-	-	-



Manchester Water District
Water System Plan Update
Revenue Requirements Analysis

Cash Flow Sufficiency Test	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
EXPENSES											
Cash Operating Expenses	\$ 1,903,260	\$ 1,930,880	\$ 2,013,054	\$ 2,073,137	\$ 2,149,560	\$ 2,214,405	\$ 2,288,755	\$ 2,365,699	\$ 2,445,327	\$ 2,527,734	\$ 2,613,017
Existing Debt Service	95,927	43,551	42,891	42,201	41,511	40,820	40,130	-	-	-	-
New Debt Service	-	18,320	59,267	58,408	57,549	56,691	55,832	93,345	305,143	626,479	821,838
Fleet and Equipment Replacement Program	178,000	62,400	-	157,481	70,192	60,833	63,266	65,797	68,428	71,166	74,012
Total Expenses	\$ 2,177,187	\$ 2,053,181	\$ 2,115,212	\$ 2,331,228	\$ 2,318,812	\$ 2,372,748	\$ 2,447,983	\$ 2,524,841	\$ 2,818,899	\$ 3,225,379	\$ 3,508,867
REVENUES											
Rate Revenue	\$ 1,854,679	\$ 1,859,550	\$ 1,864,422	\$ 1,869,294	\$ 1,874,166	\$ 1,879,037	\$ 1,883,909	\$ 1,888,781	\$ 1,893,653	\$ 1,898,524	\$ 1,903,396
Other Non Rate Revenue	140,160	144,950	144,950	144,950	144,950	144,950	144,950	144,950	144,950	144,950	144,950
Operating Fund & Debt Reserve Fund Interest Earnings	15,000	9,980	14,283	10,677	15,336	15,901	16,381	16,931	17,500	18,089	18,698
Total Revenue	\$ 2,009,839	\$ 2,014,480	\$ 2,023,655	\$ 2,024,921	\$ 2,034,451	\$ 2,039,888	\$ 2,045,240	\$ 2,050,661	\$ 2,056,102	\$ 2,061,563	\$ 2,067,044
NET CASH FLOW (DEFICIENCY)	\$ (167,348)	\$ (38,701)	\$ (91,557)	\$ (306,307)	\$ (284,361)	\$ (332,860)	\$ (402,743)	\$ (474,179)	\$ (762,796)	\$ (1,163,816)	\$ (1,441,822)
Coverage Sufficiency Test	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
EXPENSES											
Total Cash Operating Expenses (less Capital Outlay)	\$ 1,903,260	\$ 1,930,880	\$ 2,013,054	\$ 2,073,137	\$ 2,149,560	\$ 2,214,405	\$ 2,288,755	\$ 2,365,699	\$ 2,445,327	\$ 2,527,734	\$ 2,613,017
Revenue Bond Debt Service	-	-	-	-	-	-	-	-	-	-	-
Revenue Bond Coverage Requirement at 1.25	-	-	-	-	-	-	-	-	-	-	-
Total Expenses	\$ 1,903,260	\$ 1,930,880	\$ 2,013,054	\$ 2,073,137	\$ 2,149,560	\$ 2,214,405	\$ 2,288,755	\$ 2,365,699	\$ 2,445,327	\$ 2,527,734	\$ 2,613,017
ALLOWABLE REVENUES											
Rate Revenue	\$ 1,854,679	\$ 1,859,550	\$ 1,864,422	\$ 1,869,294	\$ 1,874,166	\$ 1,879,037	\$ 1,883,909	\$ 1,888,781	\$ 1,893,653	\$ 1,898,524	\$ 1,903,396
Other Revenue	140,160	144,950	144,950	144,950	144,950	144,950	144,950	144,950	144,950	144,950	144,950
GFC and LFC Revenue	69,080	86,350	86,350	86,350	86,350	86,350	86,350	86,350	86,350	86,350	86,350
Interest Earnings - All Funds	31,200	24,183	19,122	14,303	19,339	31,276	34,046	37,705	67,012	97,536	47,904
Total Revenue	\$ 2,095,118	\$ 2,115,034	\$ 2,114,844	\$ 2,114,897	\$ 2,124,804	\$ 2,141,613	\$ 2,149,255	\$ 2,157,786	\$ 2,191,964	\$ 2,227,361	\$ 2,182,800
Coverage Realized	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
COVERAGE SURPLUS (DEFICIENCY)	\$ 191,859	\$ 184,153	\$ 101,790	\$ 41,760	\$ (24,756)	\$ (72,791)	\$ (139,500)	\$ (207,913)	\$ (253,363)	\$ (300,373)	\$ (430,416)
Maximum Revenue Deficiency	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Sufficiency Test Driving the Deficiency	Cash	Cash	Cash	Cash	Cash	Cash	Cash	Cash	Cash	Cash	Cash
Maximum Deficiency From Tests	\$ 167,348	\$ 38,701	\$ 91,557	\$ 306,307	\$ 284,361	\$ 332,860	\$ 402,743	\$ 474,179	\$ 762,796	\$ 1,163,816	\$ 1,441,822
less: Net Revenue From Prior Rate Increases	-	-	(185,919)	(392,383)	(610,737)	(828,043)	(1,065,932)	(1,326,312)	(1,611,267)	(1,923,073)	(2,264,219)
Revenue Deficiency	\$ 167,348	\$ 38,701	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
plus: Adjustment for State Excise Tax	8,862	2,049	-	-	-	-	-	-	-	-	-
plus: Adjustment for City Utility Tax	-	-	-	-	-	-	-	-	-	-	-
Total Revenue Deficiency	\$ 176,210	\$ 40,751	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Increases	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Rate Revenue with no Increase	\$ 1,854,679	\$ 1,859,550	\$ 1,864,422	\$ 1,869,294	\$ 1,874,166	\$ 1,879,037	\$ 1,883,909	\$ 1,888,781	\$ 1,893,653	\$ 1,898,524	\$ 1,903,396
Revenues from Prior Rate Increases	-	-	195,764	413,161	643,078	871,890	1,122,376	1,396,544	1,696,588	2,024,906	2,384,117
Rate Revenue Before Rate Increase (Incl. previous increases)	1,854,679	1,859,550	2,060,186	2,282,455	2,517,243	2,750,928	3,006,285	3,285,325	3,590,241	3,923,430	4,287,513
Required Annual Rate Increase	9.50%	2.19%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Number of Months New Rates Will Be In Effect	12	12	12	12	12	12	12	12	12	12	12
Info: Percentage Increase to Generate Required Revenue	9.50%	2.19%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Policy Induced Rate Increases	0.00%	10.50%	10.50%	10.00%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%
ANNUAL RATE INCREASE	0.00%	10.50%	10.50%	10.00%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%
CUMULATIVE RATE INCREASE	0.00%	10.50%	22.10%	34.31%	46.40%	59.58%	73.94%	89.59%	106.66%	125.26%	145.53%
Impacts of Rate Increases	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Rate Revenues After Rate Increase	\$ 1,854,679	\$ 2,054,803	\$ 2,276,506	\$ 2,510,700	\$ 2,743,795	\$ 2,998,511	\$ 3,276,851	\$ 3,581,004	\$ 3,913,362	\$ 4,276,539	\$ 4,673,389
Full Year Rate Revenues After Rate Increase	1,854,679	2,054,803	2,276,506	2,510,700	2,743,795	2,998,511	3,276,851	3,581,004	3,913,362	4,276,539	4,673,389
Additional State and City Taxes Due to Rate Increases	-	9,819	20,724	32,256	43,734	56,298	70,051	85,102	101,571	119,590	139,303
Net Cash Flow After Rate Increase	(167,348)	146,732	299,803	302,843	541,535	730,316	920,148	1,132,942	1,155,342	1,094,608	1,188,868
Coverage After Rate Increase	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



Manchester Water District
Water System Plan Update
Fund Activity

Funds	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
OPERATING RESERVE											
Beginning Balance [a]	\$ 500,000	\$ 332,652	\$ 476,107	\$ 355,911	\$ 511,185	\$ 530,029	\$ 546,018	\$ 564,351	\$ 583,323	\$ 602,957	\$ 623,277
plus: Net Cash Flow after Rate Increase	(167,349)	146,732	299,803	302,843	541,535	730,316	920,148	1,132,942	1,155,342	1,094,608	1,188,868
less: Transfer to Bond Reserve Fund	-	-	-	-	-	-	-	-	-	-	-
less: Transfer of Surplus to Capital Fund	-	(3,277)	(420,000)	(147,570)	(522,691)	(714,327)	(901,815)	(1,113,969)	(1,135,708)	(1,074,289)	(1,350,000)
Ending Balance	\$ 332,652	\$ 476,107	\$ 355,911	\$ 511,185	\$ 530,029	\$ 546,018	\$ 564,351	\$ 583,323	\$ 602,957	\$ 623,277	\$ 462,144
Minimum Target Balance	\$ 312,865	\$ 317,405	\$ 330,913	\$ 340,790	\$ 353,352	\$ 364,012	\$ 376,234	\$ 388,882	\$ 401,972	\$ 415,518	\$ 429,537
Maximum Funds to be Kept as Operating Reserves	\$ 469,297	\$ 476,107	\$ 496,369	\$ 511,185	\$ 530,029	\$ 546,018	\$ 564,351	\$ 583,323	\$ 602,957	\$ 623,277	\$ 644,305
Info: No of Days of Cash Operating Expenses	64	90	65	90	90	90	90	90	90	90	65
CAPITAL RESERVE											
Beginning Balance [a]	\$ 539,987	\$ 473,459	\$ 161,289	\$ 120,862	\$ 133,434	\$ 512,506	\$ 588,833	\$ 692,491	\$ 1,650,398	\$ 2,648,254	\$ 973,533
plus: GFC and LFC Revenue Towards Capital	69,080	86,350	86,350	86,350	86,350	86,350	86,350	86,350	86,350	86,350	86,350
plus: Transfers from Operating Fund	-	3,277	420,000	147,570	522,691	714,327	901,815	1,113,969	1,135,708	1,074,289	1,350,000
plus: Direct Rate-Funded Capital	-	-	-	-	-	-	-	-	-	-	-
plus: Grants/ Donations/ CIAC	-	-	-	-	-	-	-	-	-	-	-
plus: DWSRF/PWTF Loans	400,000	416,000	-	-	-	-	-	1,918,629	4,989,803	3,091,569	1,598,664
plus: Other Low Interest Loan Proceeds	-	-	-	-	-	-	-	-	-	-	-
plus: Revenue Bond Proceeds	-	-	-	-	-	-	-	-	-	-	-
plus: Interest Earnings	16,200	14,204	4,839	3,626	4,003	15,375	17,665	20,775	49,512	79,448	29,206
Total Funding Sources	\$ 1,025,267	\$ 993,289	\$ 672,478	\$ 358,407	\$ 746,478	\$ 1,328,558	\$ 1,594,663	\$ 3,832,213	\$ 7,911,771	\$ 6,979,909	\$ 4,037,753
less: Capital Expenditures	(551,808)	(832,000)	(551,616)	(224,973)	(233,972)	(739,723)	(902,172)	(2,181,815)	(5,263,517)	(6,006,376)	(3,709,492)
Ending Capital Fund Balance	\$ 473,459	\$ 161,289	\$ 120,862	\$ 133,434	\$ 512,506	\$ 588,833	\$ 692,491	\$ 1,650,398	\$ 2,648,254	\$ 973,533	\$ 328,261
Minimum Target Balance	\$ 103,809	\$ 112,129	\$ 117,645	\$ 119,895	\$ 122,235	\$ 129,632	\$ 138,654	\$ 160,472	\$ 213,107	\$ 273,171	\$ 310,266
Below minimum	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Fund Balance (Operating + Capital)	\$ 806,111	\$ 637,396	\$ 476,773	\$ 644,619	\$ 1,042,535	\$ 1,134,851	\$ 1,256,841	\$ 2,233,722	\$ 3,251,212	\$ 1,596,810	\$ 790,405
Combined Days of Operating Expenses	155	120	86	113	177	187	200	345	485	231	110
DEBT RESERVE											
Beginning Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
plus: Reserve Funding from New Debt	-	-	-	-	-	-	-	-	-	-	-
plus: Transfer from Operating Fund	-	-	-	-	-	-	-	-	-	-	-
less: Use of Reserves for Debt Service	-	-	-	-	-	-	-	-	-	-	-
Ending Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Minimum Target Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

THIS PAGE INTENTIONALLY BLANK.

Appendix U

Opinions of Probable Project Costs

THIS PAGE INTENTIONALLY BLANK.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.1
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$32,000	1	LS	\$32,000
2	Temporary Erosion & Sediment Control	\$6,300	1	LS	\$6,300
3	Shoring	\$1,000	1	LF	\$1,000
4	Dewatering	\$6,300	1	LS	\$6,300
5	8-inch DI Water Main	\$170	1,000	LF	\$170,000
6	8-inch Gate Valve Assembly	\$3,000	5	EA	\$15,000
7	1-inch Water Service Connection	\$3,500	10	EA	\$35,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	2	EA	\$20,000
12	HMA Trench Patch	\$200	228	TN	\$45,556
13	Traffic Control	\$6,300	1	LS	\$6,300
14	General Restoration	\$6,300	1	LS	\$6,300
Subtotal					\$373,456
Sales Tax					9.2%
ESTIMATED CONSTRUCTION COST					\$407,813
Construction Contingency					35%
TOTAL ESTIMATED CONSTRUCTION COST					\$551,000

Planning	5%	\$28,000
Design and Permitting	10%	\$55,000
Construction and Construction Management	15%	\$83,000
TOTAL ESTIMATED PROJECT COST		\$720,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.2
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$19,000	1	LS	\$19,000
2	Temporary Erosion & Sediment Control	\$3,700	1	LS	\$3,700
3	Shoring	\$510	1	LF	\$510
4	Dewatering	\$3,700	1	LS	\$3,700
5	8-inch DI Water Main	\$170	510	LF	\$86,700
6	8-inch Gate Valve Assembly	\$3,000	5	EA	\$15,000
7	1-inch Water Service Connection	\$3,500	6	EA	\$21,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	1	EA	\$10,000
12	HMA Trench Patch	\$200	116	TN	\$23,233
13	Traffic Control	\$3,700	1	LS	\$3,700
14	General Restoration	\$3,700	1	LS	\$3,700
Subtotal					\$219,943
Sales Tax					9.2%
ESTIMATED CONSTRUCTION COST					\$240,178
Construction Contingency					35%
TOTAL ESTIMATED CONSTRUCTION COST					\$324,000

Planning	5%	\$16,000
Design and Permitting	10%	\$32,000
Construction and Construction Management	15%	\$49,000
TOTAL ESTIMATED PROJECT COST		\$420,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.3
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$35,000	1	LS	\$35,000
2	Temporary Erosion & Sediment Control	\$7,100	1	LS	\$7,100
3	Shoring	\$1,130	1	LF	\$1,130
4	Dewatering	\$7,100	1	LS	\$7,100
5	8-inch DI Water Main	\$170	1,130	LF	\$192,100
6	8-inch Gate Valve Assembly	\$3,000	6	EA	\$18,000
7	1-inch Water Service Connection	\$3,500	12	EA	\$42,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	2	EA	\$20,000
12	HMA Trench Patch	\$200	257	TN	\$51,478
13	Traffic Control	\$7,100	1	LS	\$7,100
14	General Restoration	\$7,100	1	LS	\$7,100
Subtotal					\$417,808
Sales Tax					9.2%
					\$38,438
ESTIMATED CONSTRUCTION COST					\$456,246
Construction Contingency					35%
					\$159,686
TOTAL ESTIMATED CONSTRUCTION COST					\$616,000

Planning	5%	\$31,000
Design and Permitting	10%	\$62,000
Construction and Construction Management	15%	\$92,000
TOTAL ESTIMATED PROJECT COST		\$800,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.4
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$36,000	1	LS	\$36,000
2	Temporary Erosion & Sediment Control	\$7,100	1	LS	\$7,100
3	Shoring	\$1,140	1	LF	\$1,140
4	Dewatering	\$7,100	1	LS	\$7,100
5	8-inch DI Water Main	\$170	1,140	LF	\$193,800
6	8-inch Gate Valve Assembly	\$3,000	6	EA	\$18,000
7	1-inch Water Service Connection	\$3,500	12	EA	\$42,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	2	EA	\$20,000
12	HMA Trench Patch	\$200	260	TN	\$51,933
13	Traffic Control	\$7,100	1	LS	\$7,100
14	General Restoration	\$7,100	1	LS	\$7,100
Subtotal					\$420,973
Sales Tax					9.2% \$38,730
ESTIMATED CONSTRUCTION COST					\$459,703
Construction Contingency					35% \$160,896
TOTAL ESTIMATED CONSTRUCTION COST					\$621,000

Planning	5%	\$31,000
Design and Permitting	10%	\$62,000
Construction and Construction Management	15%	\$93,000
TOTAL ESTIMATED PROJECT COST		\$810,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.5
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$28,000	1	LS	\$28,000
2	Temporary Erosion & Sediment Control	\$5,600	1	LS	\$5,600
3	Shoring	\$850	1	LF	\$850
4	Dewatering	\$5,600	1	LS	\$5,600
5	8-inch DI Water Main	\$170	850	LF	\$144,500
6	8-inch Gate Valve Assembly	\$3,000	5	EA	\$15,000
7	1-inch Water Service Connection	\$3,500	9	EA	\$31,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	2	EA	\$20,000
12	HMA Trench Patch	\$200	194	TN	\$38,722
13	Traffic Control	\$5,600	1	LS	\$5,600
14	General Restoration	\$5,600	1	LS	\$5,600
Subtotal					\$330,672
Sales Tax					9.2%
					\$30,422
ESTIMATED CONSTRUCTION COST					\$361,094
Construction Contingency					35%
					\$126,383
TOTAL ESTIMATED CONSTRUCTION COST					\$487,000

Planning	5%	\$24,000
Design and Permitting	10%	\$49,000
Construction and Construction Management	15%	\$73,000
TOTAL ESTIMATED PROJECT COST		\$630,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.6
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$11,000	1	LS	\$11,000
2	Temporary Erosion & Sediment Control	\$2,300	1	LS	\$2,300
3	Shoring	\$240	1	LF	\$240
4	Dewatering	\$2,300	1	LS	\$2,300
5	8-inch DI Water Main	\$170	240	LF	\$40,800
6	8-inch Gate Valve Assembly	\$3,000	4	EA	\$12,000
7	1-inch Water Service Connection	\$3,500	3	EA	\$10,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	1	EA	\$10,000
12	HMA Trench Patch	\$200	55	TN	\$10,933
13	Traffic Control	\$2,300	1	LS	\$2,300
14	General Restoration	\$2,300	1	LS	\$2,300
Subtotal					\$134,373
Sales Tax					9.2%
					\$12,362
ESTIMATED CONSTRUCTION COST					\$146,736
Construction Contingency					35%
					\$51,357
TOTAL ESTIMATED CONSTRUCTION COST					\$198,000

Planning	5%	\$10,000
Design and Permitting	10%	\$20,000
Construction and Construction Management	15%	\$30,000
TOTAL ESTIMATED PROJECT COST		\$260,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.7
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$8,000	1	LS	\$8,000
2	Temporary Erosion & Sediment Control	\$1,700	1	LS	\$1,700
3	Shoring	\$120	1	LF	\$120
4	Dewatering	\$1,700	1	LS	\$1,700
5	8-inch DI Water Main	\$170	120	LF	\$20,400
6	8-inch Gate Valve Assembly	\$3,000	4	EA	\$12,000
7	1-inch Water Service Connection	\$3,500	2	EA	\$7,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	1	EA	\$10,000
12	HMA Trench Patch	\$200	27	TN	\$5,467
13	Traffic Control	\$1,700	1	LS	\$1,700
14	General Restoration	\$1,700	1	LS	\$1,700
Subtotal					\$99,487
Sales Tax					9.2%
					\$9,153
ESTIMATED CONSTRUCTION COST					\$108,639
Construction Contingency					35%
					\$38,024
TOTAL ESTIMATED CONSTRUCTION COST					\$147,000

Planning	5%	\$7,000
Design and Permitting	10%	\$15,000
Construction and Construction Management	15%	\$22,000

TOTAL ESTIMATED PROJECT COST **\$190,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.8
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$14,000	1	LS	\$14,000
2	Temporary Erosion & Sediment Control	\$2,700	1	LS	\$2,700
3	Shoring	\$330	1	LF	\$330
4	Dewatering	\$2,700	1	LS	\$2,700
5	8-inch DI Water Main	\$170	330	LF	\$56,100
6	8-inch Gate Valve Assembly	\$3,000	4	EA	\$12,000
7	1-inch Water Service Connection	\$3,500	4	EA	\$14,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	1	EA	\$10,000
12	HMA Trench Patch	\$200	75	TN	\$15,033
13	Traffic Control	\$2,700	1	LS	\$2,700
14	General Restoration	\$2,700	1	LS	\$2,700
Subtotal					\$161,963
Sales Tax					9.2%
					\$14,901
ESTIMATED CONSTRUCTION COST					\$176,864
Construction Contingency					35%
					\$61,902
TOTAL ESTIMATED CONSTRUCTION COST					\$239,000

Planning	5%	\$12,000
Design and Permitting	10%	\$24,000
Construction and Construction Management	15%	\$36,000

TOTAL ESTIMATED PROJECT COST **\$310,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.9
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$40,000	1	LS	\$40,000
2	Temporary Erosion & Sediment Control	\$8,000	1	LS	\$8,000
3	Shoring	\$1,290	1	LF	\$1,290
4	Dewatering	\$8,000	1	LS	\$8,000
5	8-inch DI Water Main	\$170	1,290	LF	\$219,300
6	8-inch Gate Valve Assembly	\$3,000	6	EA	\$18,000
7	1-inch Water Service Connection	\$3,500	13	EA	\$45,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	3	EA	\$30,000
12	HMA Trench Patch	\$200	294	TN	\$58,767
13	Traffic Control	\$8,000	1	LS	\$8,000
14	General Restoration	\$8,000	1	LS	\$8,000
Subtotal					\$474,557
Sales Tax					9.2%
					\$43,659
ESTIMATED CONSTRUCTION COST					\$518,216
Construction Contingency					35%
					\$181,376
TOTAL ESTIMATED CONSTRUCTION COST					\$700,000

Planning	5%	\$35,000
Design and Permitting	10%	\$70,000
Construction and Construction Management	15%	\$105,000
TOTAL ESTIMATED PROJECT COST		\$910,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.10
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$64,000	1	LS	\$64,000
2	Temporary Erosion & Sediment Control	\$12,800	1	LS	\$12,800
3	Shoring	\$2,130	1	LF	\$2,130
4	Dewatering	\$12,800	1	LS	\$12,800
5	8-inch DI Water Main	\$170	2,130	LF	\$362,100
6	8-inch Gate Valve Assembly	\$3,000	8	EA	\$24,000
7	1-inch Water Service Connection	\$3,500	22	EA	\$77,000
8	2-inch Blow off Assembly	\$4,500	3	EA	\$13,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	4	EA	\$40,000
12	HMA Trench Patch	\$200	485	TN	\$97,033
13	Traffic Control	\$12,800	1	LS	\$12,800
14	General Restoration	\$12,800	1	LS	\$12,800
Subtotal					\$756,163
Sales Tax					9.2%
					\$69,567
ESTIMATED CONSTRUCTION COST					\$825,730
Construction Contingency					35%
					\$289,006
TOTAL ESTIMATED CONSTRUCTION COST					\$1,115,000

Planning	5%	\$56,000
Design and Permitting	10%	\$112,000
Construction and Construction Management	15%	\$167,000

TOTAL ESTIMATED PROJECT COST **\$1,450,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.11
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$55,000	1	LS	\$55,000
2	Temporary Erosion & Sediment Control	\$11,000	1	LS	\$11,000
3	Shoring	\$1,820	1	LF	\$1,820
4	Dewatering	\$11,000	1	LS	\$11,000
5	8-inch DI Water Main	\$170	1,820	LF	\$309,400
6	8-inch Gate Valve Assembly	\$3,000	7	EA	\$21,000
7	1-inch Water Service Connection	\$3,500	19	EA	\$66,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	4	EA	\$40,000
12	HMA Trench Patch	\$200	415	TN	\$82,911
13	Traffic Control	\$11,000	1	LS	\$11,000
14	General Restoration	\$11,000	1	LS	\$11,000
Subtotal					\$650,331
Sales Tax					9.2%
ESTIMATED CONSTRUCTION COST					\$710,162
Construction Contingency					35%
TOTAL ESTIMATED CONSTRUCTION COST					\$959,000

Planning	5%	\$48,000
Design and Permitting	10%	\$96,000
Construction and Construction Management	15%	\$144,000

TOTAL ESTIMATED PROJECT COST **\$1,250,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.12
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$45,000	1	LS	\$45,000
2	Temporary Erosion & Sediment Control	\$9,000	1	LS	\$9,000
3	Shoring	\$1,490	1	LF	\$1,490
4	Dewatering	\$9,000	1	LS	\$9,000
5	8-inch DI Water Main	\$170	1,490	LF	\$253,300
6	8-inch Gate Valve Assembly	\$3,000	6	EA	\$18,000
7	1-inch Water Service Connection	\$3,500	15	EA	\$52,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	3	EA	\$30,000
12	HMA Trench Patch	\$200	339	TN	\$67,878
13	Traffic Control	\$9,000	1	LS	\$9,000
14	General Restoration	\$9,000	1	LS	\$9,000
Subtotal					\$533,868
Sales Tax					9.2%
					\$49,116
ESTIMATED CONSTRUCTION COST					\$582,984
Construction Contingency					35%
					\$204,044
TOTAL ESTIMATED CONSTRUCTION COST					\$787,000

Planning	5%	\$39,000
Design and Permitting	10%	\$79,000
Construction and Construction Management	15%	\$118,000

TOTAL ESTIMATED PROJECT COST **\$1,020,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.13
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$40,000	1	LS	\$40,000
2	Temporary Erosion & Sediment Control	\$7,900	1	LS	\$7,900
3	Shoring	\$1,270	1	LF	\$1,270
4	Dewatering	\$7,900	1	LS	\$7,900
5	8-inch DI Water Main	\$170	1,270	LF	\$215,900
6	8-inch Gate Valve Assembly	\$3,000	6	EA	\$18,000
7	1-inch Water Service Connection	\$3,500	13	EA	\$45,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	3	EA	\$30,000
12	HMA Trench Patch	\$200	289	TN	\$57,856
13	Traffic Control	\$7,900	1	LS	\$7,900
14	General Restoration	\$7,900	1	LS	\$7,900
Subtotal					\$469,826
Sales Tax					9.2%
					\$43,224
ESTIMATED CONSTRUCTION COST					\$513,050
Construction Contingency					35%
					\$179,567
TOTAL ESTIMATED CONSTRUCTION COST					\$693,000

Planning	5%	\$35,000
Design and Permitting	10%	\$69,000
Construction and Construction Management	15%	\$104,000
TOTAL ESTIMATED PROJECT COST		\$900,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.14
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$24,000	1	LS	\$24,000
2	Temporary Erosion & Sediment Control	\$4,800	1	LS	\$4,800
3	Shoring	\$700	1	LF	\$700
4	Dewatering	\$4,800	1	LS	\$4,800
5	8-inch DI Water Main	\$170	700	LF	\$119,000
6	8-inch Gate Valve Assembly	\$3,000	5	EA	\$15,000
7	1-inch Water Service Connection	\$3,500	7	EA	\$24,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	2	EA	\$20,000
12	HMA Trench Patch	\$200	159	TN	\$31,889
13	Traffic Control	\$4,800	1	LS	\$4,800
14	General Restoration	\$4,800	1	LS	\$4,800
Subtotal					\$283,989
Sales Tax					9.2%
					\$26,127
ESTIMATED CONSTRUCTION COST					\$310,116
Construction Contingency					35%
					\$108,541
TOTAL ESTIMATED CONSTRUCTION COST					\$419,000

Planning	5%	\$21,000
Design and Permitting	10%	\$42,000
Construction and Construction Management	15%	\$63,000
TOTAL ESTIMATED PROJECT COST		\$550,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.15
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$63,000	1	LS	\$63,000
2	Temporary Erosion & Sediment Control	\$12,600	1	LS	\$12,600
3	Shoring	\$2,100	1	LF	\$2,100
4	Dewatering	\$12,600	1	LS	\$12,600
5	8-inch DI Water Main	\$170	2,100	LF	\$357,000
6	8-inch Gate Valve Assembly	\$3,000	8	EA	\$24,000
7	1-inch Water Service Connection	\$3,500	21	EA	\$73,500
8	2-inch Blow off Assembly	\$4,500	3	EA	\$13,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	4	EA	\$40,000
12	HMA Trench Patch	\$200	478	TN	\$95,667
13	Traffic Control	\$12,600	1	LS	\$12,600
14	General Restoration	\$12,600	1	LS	\$12,600
Subtotal					\$744,367
Sales Tax					9.2%
					\$68,482
ESTIMATED CONSTRUCTION COST					\$812,848
Construction Contingency					35%
					\$284,497
TOTAL ESTIMATED CONSTRUCTION COST					\$1,097,000

Planning	5%	\$55,000
Design and Permitting	10%	\$110,000
Construction and Construction Management	15%	\$165,000

TOTAL ESTIMATED PROJECT COST **\$1,430,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.16
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$42,000	1	LS	\$42,000
2	Temporary Erosion & Sediment Control	\$8,400	1	LS	\$8,400
3	Shoring	\$1,350	1	LF	\$1,350
4	Dewatering	\$8,400	1	LS	\$8,400
5	8-inch DI Water Main	\$170	1,350	LF	\$229,500
6	8-inch Gate Valve Assembly	\$3,000	6	EA	\$18,000
7	1-inch Water Service Connection	\$3,500	14	EA	\$49,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	3	EA	\$30,000
12	HMA Trench Patch	\$200	308	TN	\$61,500
13	Traffic Control	\$8,400	1	LS	\$8,400
14	General Restoration	\$8,400	1	LS	\$8,400
Subtotal					\$494,650
Sales Tax					9.2%
					\$45,508
ESTIMATED CONSTRUCTION COST					\$540,158
Construction Contingency					35%
					\$189,055
TOTAL ESTIMATED CONSTRUCTION COST					\$729,000

Planning	5%	\$36,000
Design and Permitting	10%	\$73,000
Construction and Construction Management	15%	\$109,000
TOTAL ESTIMATED PROJECT COST		\$950,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.17
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$11,000	1	LS	\$11,000
2	Temporary Erosion & Sediment Control	\$2,300	1	LS	\$2,300
3	Shoring	\$240	1	LF	\$240
4	Dewatering	\$2,300	1	LS	\$2,300
5	8-inch DI Water Main	\$170	240	LF	\$40,800
6	8-inch Gate Valve Assembly	\$3,000	4	EA	\$12,000
7	1-inch Water Service Connection	\$3,500	3	EA	\$10,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	1	EA	\$10,000
12	HMA Trench Patch	\$200	55	TN	\$10,933
13	Traffic Control	\$2,300	1	LS	\$2,300
14	General Restoration	\$2,300	1	LS	\$2,300
Subtotal					\$134,373
Sales Tax					9.2% \$12,362
ESTIMATED CONSTRUCTION COST					\$146,736
Construction Contingency					35% \$51,357
TOTAL ESTIMATED CONSTRUCTION COST					\$198,000

Planning	5%	\$10,000
Design and Permitting	10%	\$20,000
Construction and Construction Management	15%	\$30,000
TOTAL ESTIMATED PROJECT COST		\$260,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.18
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$29,000	1	LS	\$29,000
2	Temporary Erosion & Sediment Control	\$5,800	1	LS	\$5,800
3	Shoring	\$890	1	LF	\$890
4	Dewatering	\$5,800	1	LS	\$5,800
5	8-inch DI Water Main	\$170	890	LF	\$151,300
6	8-inch Gate Valve Assembly	\$3,000	5	EA	\$15,000
7	1-inch Water Service Connection	\$3,500	9	EA	\$31,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	2	EA	\$20,000
12	HMA Trench Patch	\$200	203	TN	\$40,544
13	Traffic Control	\$5,800	1	LS	\$5,800
14	General Restoration	\$5,800	1	LS	\$5,800
Subtotal					\$341,134
Sales Tax					9.2%
					\$31,384
ESTIMATED CONSTRUCTION COST					\$372,519
Construction Contingency					35%
					\$130,382
TOTAL ESTIMATED CONSTRUCTION COST					\$503,000

Planning	5%	\$25,000
Design and Permitting	10%	\$50,000
Construction and Construction Management	15%	\$75,000
TOTAL ESTIMATED PROJECT COST		\$650,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.19
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$67,000	1	LS	\$67,000
2	Temporary Erosion & Sediment Control	\$13,400	1	LS	\$13,400
3	Shoring	\$2,260	1	LF	\$2,260
4	Dewatering	\$13,400	1	LS	\$13,400
5	8-inch DI Water Main	\$170	2,260	LF	\$384,200
6	8-inch Gate Valve Assembly	\$3,000	8	EA	\$24,000
7	1-inch Water Service Connection	\$3,500	23	EA	\$80,500
8	2-inch Blow off Assembly	\$4,500	3	EA	\$13,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	4	EA	\$40,000
12	HMA Trench Patch	\$200	515	TN	\$102,956
13	Traffic Control	\$13,400	1	LS	\$13,400
14	General Restoration	\$13,400	1	LS	\$13,400
Subtotal					\$793,216
Sales Tax					9.2%
					\$72,976
ESTIMATED CONSTRUCTION COST					\$866,191
Construction Contingency					35%
					\$303,167
TOTAL ESTIMATED CONSTRUCTION COST					\$1,169,000

Planning	5%	\$58,000
Design and Permitting	10%	\$117,000
Construction and Construction Management	15%	\$175,000

TOTAL ESTIMATED PROJECT COST **\$1,520,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.20
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$18,000	1	LS	\$18,000
2	Temporary Erosion & Sediment Control	\$3,500	1	LS	\$3,500
3	Shoring	\$500	1	LF	\$500
4	Dewatering	\$3,500	1	LS	\$3,500
5	8-inch DI Water Main	\$170	500	LF	\$85,000
6	8-inch Gate Valve Assembly	\$3,000	4	EA	\$12,000
7	1-inch Water Service Connection	\$3,500	5	EA	\$17,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	1	EA	\$10,000
12	HMA Trench Patch	\$200	114	TN	\$22,778
13	Traffic Control	\$3,500	1	LS	\$3,500
14	General Restoration	\$3,500	1	LS	\$3,500
Subtotal					\$209,478
Sales Tax					9.2% \$19,272
ESTIMATED CONSTRUCTION COST					\$228,750
Construction Contingency					35% \$80,062
TOTAL ESTIMATED CONSTRUCTION COST					\$309,000

Planning	5%	\$15,000
Design and Permitting	10%	\$31,000
Construction and Construction Management	15%	\$46,000
TOTAL ESTIMATED PROJECT COST		\$400,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.21
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$30,000	1	LS	\$30,000
2	Temporary Erosion & Sediment Control	\$6,100	1	LS	\$6,100
3	Shoring	\$950	1	LF	\$950
4	Dewatering	\$6,100	1	LS	\$6,100
5	8-inch DI Water Main	\$170	950	LF	\$161,500
6	8-inch Gate Valve Assembly	\$3,000	5	EA	\$15,000
7	1-inch Water Service Connection	\$3,500	10	EA	\$35,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	2	EA	\$20,000
12	HMA Trench Patch	\$200	216	TN	\$43,278
13	Traffic Control	\$6,100	1	LS	\$6,100
14	General Restoration	\$6,100	1	LS	\$6,100
Subtotal					\$359,828
Sales Tax					9.2%
					\$33,104
ESTIMATED CONSTRUCTION COST					\$392,932
Construction Contingency					35%
					\$137,526
TOTAL ESTIMATED CONSTRUCTION COST					\$530,000

Planning	5%	\$27,000
Design and Permitting	10%	\$53,000
Construction and Construction Management	15%	\$80,000
TOTAL ESTIMATED PROJECT COST		\$690,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.22
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$23,000	1	LS	\$23,000
2	Temporary Erosion & Sediment Control	\$4,500	1	LS	\$4,500
3	Shoring	\$640	1	LF	\$640
4	Dewatering	\$4,500	1	LS	\$4,500
5	8-inch DI Water Main	\$170	640	LF	\$108,800
6	8-inch Gate Valve Assembly	\$3,000	5	EA	\$15,000
7	1-inch Water Service Connection	\$3,500	7	EA	\$24,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	2	EA	\$20,000
12	HMA Trench Patch	\$200	146	TN	\$29,156
13	Traffic Control	\$4,500	1	LS	\$4,500
14	General Restoration	\$4,500	1	LS	\$4,500
Subtotal					\$268,796
Sales Tax					9.2%
					\$24,729
ESTIMATED CONSTRUCTION COST					\$293,525
Construction Contingency					35%
					\$102,734
TOTAL ESTIMATED CONSTRUCTION COST					\$396,000

Planning	5%	\$20,000
Design and Permitting	10%	\$40,000
Construction and Construction Management	15%	\$59,000
TOTAL ESTIMATED PROJECT COST		\$520,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.23
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$30,000	1	LS	\$30,000
2	Temporary Erosion & Sediment Control	\$6,000	1	LS	\$6,000
3	Shoring	\$930	1	LF	\$930
4	Dewatering	\$6,000	1	LS	\$6,000
5	8-inch DI Water Main	\$170	930	LF	\$158,100
6	8-inch Gate Valve Assembly	\$3,000	5	EA	\$15,000
7	1-inch Water Service Connection	\$3,500	10	EA	\$35,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	2	EA	\$20,000
12	HMA Trench Patch	\$200	212	TN	\$42,367
13	Traffic Control	\$6,000	1	LS	\$6,000
14	General Restoration	\$6,000	1	LS	\$6,000
Subtotal					\$355,097
Sales Tax					9.2%
					\$32,669
ESTIMATED CONSTRUCTION COST					\$387,766
Construction Contingency					35%
					\$135,718
TOTAL ESTIMATED CONSTRUCTION COST					\$523,000

Planning	5%	\$26,000
Design and Permitting	10%	\$52,000
Construction and Construction Management	15%	\$78,000
TOTAL ESTIMATED PROJECT COST		\$680,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.24
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$51,000	1	LS	\$51,000
2	Temporary Erosion & Sediment Control	\$10,200	1	LS	\$10,200
3	Shoring	\$1,710	1	LF	\$1,710
4	Dewatering	\$10,200	1	LS	\$10,200
5	8-inch DI Water Main	\$170	1,710	LF	\$290,700
6	8-inch Gate Valve Assembly	\$3,000	7	EA	\$21,000
7	1-inch Water Service Connection	\$3,500	18	EA	\$63,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	3	EA	\$30,000
12	HMA Trench Patch	\$200	390	TN	\$77,900
13	Traffic Control	\$10,200	1	LS	\$10,200
14	General Restoration	\$10,200	1	LS	\$10,200
Subtotal					\$605,810
Sales Tax					9.2%
					\$55,735
ESTIMATED CONSTRUCTION COST					\$661,545
Construction Contingency					35%
					\$231,541
TOTAL ESTIMATED CONSTRUCTION COST					\$893,000

Planning	5%	\$45,000
Design and Permitting	10%	\$89,000
Construction and Construction Management	15%	\$134,000

TOTAL ESTIMATED PROJECT COST **\$1,160,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.25
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$31,000	1	LS	\$31,000
2	Temporary Erosion & Sediment Control	\$6,200	1	LS	\$6,200
3	Shoring	\$970	1	LF	\$970
4	Dewatering	\$6,200	1	LS	\$6,200
5	8-inch DI Water Main	\$170	970	LF	\$164,900
6	8-inch Gate Valve Assembly	\$3,000	5	EA	\$15,000
7	1-inch Water Service Connection	\$3,500	10	EA	\$35,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	2	EA	\$20,000
12	HMA Trench Patch	\$200	221	TN	\$44,189
13	Traffic Control	\$6,200	1	LS	\$6,200
14	General Restoration	\$6,200	1	LS	\$6,200
Subtotal					\$365,559
Sales Tax					9.2%
					\$33,631
ESTIMATED CONSTRUCTION COST					\$399,190
Construction Contingency					35%
					\$139,717
TOTAL ESTIMATED CONSTRUCTION COST					\$539,000

Planning	5%	\$27,000
Design and Permitting	10%	\$54,000
Construction and Construction Management	15%	\$81,000

TOTAL ESTIMATED PROJECT COST **\$700,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.26
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$55,000	1	LS	\$55,000
2	Temporary Erosion & Sediment Control	\$11,000	1	LS	\$11,000
3	Shoring	\$1,830	1	LF	\$1,830
4	Dewatering	\$11,000	1	LS	\$11,000
5	8-inch DI Water Main	\$170	1,830	LF	\$311,100
6	8-inch Gate Valve Assembly	\$3,000	7	EA	\$21,000
7	1-inch Water Service Connection	\$3,500	19	EA	\$66,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	4	EA	\$40,000
12	HMA Trench Patch	\$200	417	TN	\$83,367
13	Traffic Control	\$11,000	1	LS	\$11,000
14	General Restoration	\$11,000	1	LS	\$11,000
Subtotal					\$652,497
Sales Tax					9.2%
					\$60,030
ESTIMATED CONSTRUCTION COST					\$712,526
Construction Contingency					35%
					\$249,384
TOTAL ESTIMATED CONSTRUCTION COST					\$962,000

Planning	5%	\$48,000
Design and Permitting	10%	\$96,000
Construction and Construction Management	15%	\$144,000

TOTAL ESTIMATED PROJECT COST **\$1,250,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.27
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$40,000	1	LS	\$40,000
2	Temporary Erosion & Sediment Control	\$7,900	1	LS	\$7,900
3	Shoring	\$1,270	1	LF	\$1,270
4	Dewatering	\$7,900	1	LS	\$7,900
5	8-inch DI Water Main	\$170	1,270	LF	\$215,900
6	8-inch Gate Valve Assembly	\$3,000	6	EA	\$18,000
7	1-inch Water Service Connection	\$3,500	13	EA	\$45,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	3	EA	\$30,000
12	HMA Trench Patch	\$200	289	TN	\$57,856
13	Traffic Control	\$7,900	1	LS	\$7,900
14	General Restoration	\$7,900	1	LS	\$7,900
Subtotal					\$469,826
Sales Tax					9.2%
					\$43,224
ESTIMATED CONSTRUCTION COST					\$513,050
Construction Contingency					35%
					\$179,567
TOTAL ESTIMATED CONSTRUCTION COST					\$693,000

Planning	5%	\$35,000
Design and Permitting	10%	\$69,000
Construction and Construction Management	15%	\$104,000
TOTAL ESTIMATED PROJECT COST		\$900,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.28
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$62,000	1	LS	\$62,000
2	Temporary Erosion & Sediment Control	\$12,400	1	LS	\$12,400
3	Shoring	\$2,070	1	LF	\$2,070
4	Dewatering	\$12,400	1	LS	\$12,400
5	8-inch DI Water Main	\$170	2,070	LF	\$351,900
6	8-inch Gate Valve Assembly	\$3,000	8	EA	\$24,000
7	1-inch Water Service Connection	\$3,500	21	EA	\$73,500
8	2-inch Blow off Assembly	\$4,500	3	EA	\$13,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	4	EA	\$40,000
12	HMA Trench Patch	\$200	472	TN	\$94,300
13	Traffic Control	\$12,400	1	LS	\$12,400
14	General Restoration	\$12,400	1	LS	\$12,400
Subtotal					\$736,070
Sales Tax					9.2%
					\$67,718
ESTIMATED CONSTRUCTION COST					\$803,788
Construction Contingency					35%
					\$281,326
TOTAL ESTIMATED CONSTRUCTION COST					\$1,085,000

Planning	5%	\$54,000
Design and Permitting	10%	\$109,000
Construction and Construction Management	15%	\$163,000

TOTAL ESTIMATED PROJECT COST **\$1,410,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.29
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$36,000	1	LS	\$36,000
2	Temporary Erosion & Sediment Control	\$7,100	1	LS	\$7,100
3	Shoring	\$1,140	1	LF	\$1,140
4	Dewatering	\$7,100	1	LS	\$7,100
5	8-inch DI Water Main	\$170	1,140	LF	\$193,800
6	8-inch Gate Valve Assembly	\$3,000	6	EA	\$18,000
7	1-inch Water Service Connection	\$3,500	12	EA	\$42,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	2	EA	\$20,000
12	HMA Trench Patch	\$200	260	TN	\$51,933
13	Traffic Control	\$7,100	1	LS	\$7,100
14	General Restoration	\$7,100	1	LS	\$7,100
Subtotal					\$420,973
Sales Tax					9.2% \$38,730
ESTIMATED CONSTRUCTION COST					\$459,703
Construction Contingency					35% \$160,896
TOTAL ESTIMATED CONSTRUCTION COST					\$621,000

Planning	5%	\$31,000
Design and Permitting	10%	\$62,000
Construction and Construction Management	15%	\$93,000
TOTAL ESTIMATED PROJECT COST		\$810,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.30
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$67,000	1	LS	\$67,000
2	Temporary Erosion & Sediment Control	\$13,400	1	LS	\$13,400
3	Shoring	\$2,250	1	LF	\$2,250
4	Dewatering	\$13,400	1	LS	\$13,400
5	8-inch DI Water Main	\$170	2,250	LF	\$382,500
6	8-inch Gate Valve Assembly	\$3,000	8	EA	\$24,000
7	1-inch Water Service Connection	\$3,500	23	EA	\$80,500
8	2-inch Blow off Assembly	\$4,500	3	EA	\$13,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	4	EA	\$40,000
12	HMA Trench Patch	\$200	513	TN	\$102,500
13	Traffic Control	\$13,400	1	LS	\$13,400
14	General Restoration	\$13,400	1	LS	\$13,400
Subtotal					\$791,050
Sales Tax					9.2%
					\$72,777
ESTIMATED CONSTRUCTION COST					\$863,827
Construction Contingency					35%
					\$302,339
TOTAL ESTIMATED CONSTRUCTION COST					\$1,166,000

Planning	5%	\$58,000
Design and Permitting	10%	\$117,000
Construction and Construction Management	15%	\$175,000

TOTAL ESTIMATED PROJECT COST **\$1,520,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.31
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$11,000	1	LS	\$11,000
2	Temporary Erosion & Sediment Control	\$2,100	1	LS	\$2,100
3	Shoring	\$210	1	LF	\$210
4	Dewatering	\$2,100	1	LS	\$2,100
5	8-inch DI Water Main	\$170	210	LF	\$35,700
6	8-inch Gate Valve Assembly	\$3,000	4	EA	\$12,000
7	1-inch Water Service Connection	\$3,500	3	EA	\$10,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	1	EA	\$10,000
12	HMA Trench Patch	\$200	48	TN	\$9,567
13	Traffic Control	\$2,100	1	LS	\$2,100
14	General Restoration	\$2,100	1	LS	\$2,100
Subtotal					\$127,077
Sales Tax					9.2%
					\$11,691
ESTIMATED CONSTRUCTION COST					\$138,768
Construction Contingency					35%
					\$48,569
TOTAL ESTIMATED CONSTRUCTION COST					\$187,000

Planning	5%	\$9,000
Design and Permitting	10%	\$19,000
Construction and Construction Management	15%	\$28,000
TOTAL ESTIMATED PROJECT COST		\$240,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.32
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$59,000	1	LS	\$59,000
2	Temporary Erosion & Sediment Control	\$11,700	1	LS	\$11,700
3	Shoring	\$1,970	1	LF	\$1,970
4	Dewatering	\$11,700	1	LS	\$11,700
5	8-inch DI Water Main	\$170	1,970	LF	\$334,900
6	8-inch Gate Valve Assembly	\$3,000	7	EA	\$21,000
7	1-inch Water Service Connection	\$3,500	20	EA	\$70,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	4	EA	\$40,000
12	HMA Trench Patch	\$200	449	TN	\$89,744
13	Traffic Control	\$11,700	1	LS	\$11,700
14	General Restoration	\$11,700	1	LS	\$11,700
Subtotal					\$693,114
Sales Tax					9.2%
					\$63,767
ESTIMATED CONSTRUCTION COST					\$756,881
Construction Contingency					35%
					\$264,908
TOTAL ESTIMATED CONSTRUCTION COST					\$1,022,000

Planning	5%	\$51,000
Design and Permitting	10%	\$102,000
Construction and Construction Management	15%	\$153,000

TOTAL ESTIMATED PROJECT COST **\$1,330,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.33
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$7,000	1	LS	\$7,000
2	Temporary Erosion & Sediment Control	\$1,300	1	LS	\$1,300
3	Shoring	\$50	1	LF	\$50
4	Dewatering	\$1,300	1	LS	\$1,300
5	8-inch DI Water Main	\$170	50	LF	\$8,500
6	8-inch Gate Valve Assembly	\$3,000	4	EA	\$12,000
7	1-inch Water Service Connection	\$3,500	1	EA	\$3,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	1	EA	\$10,000
12	HMA Trench Patch	\$200	11	TN	\$2,278
13	Traffic Control	\$1,300	1	LS	\$1,300
14	General Restoration	\$1,300	1	LS	\$1,300
Subtotal					\$78,228
Sales Tax					9.2%
					\$7,197
ESTIMATED CONSTRUCTION COST					\$85,425
Construction Contingency					35%
					\$29,899
TOTAL ESTIMATED CONSTRUCTION COST					\$115,000

Planning	5%	\$6,000
Design and Permitting	10%	\$12,000
Construction and Construction Management	15%	\$17,000
TOTAL ESTIMATED PROJECT COST		\$150,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM1.34
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$86,000	1	LS	\$86,000
2	Temporary Erosion & Sediment Control	\$17,100	1	LS	\$17,100
3	Shoring	\$2,950	1	LF	\$2,950
4	Dewatering	\$17,100	1	LS	\$17,100
5	8-inch DI Water Main	\$170	2,950	LF	\$501,500
6	8-inch Gate Valve Assembly	\$3,000	9	EA	\$27,000
7	1-inch Water Service Connection	\$3,500	30	EA	\$105,000
8	2-inch Blow off Assembly	\$4,500	3	EA	\$13,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	5	EA	\$50,000
12	HMA Trench Patch	\$200	672	TN	\$134,389
13	Traffic Control	\$17,100	1	LS	\$17,100
14	General Restoration	\$17,100	1	LS	\$17,100
Subtotal					\$1,013,939
Sales Tax					9.2%
					\$93,282
ESTIMATED CONSTRUCTION COST					\$1,107,221
Construction Contingency					35%
					\$387,527
TOTAL ESTIMATED CONSTRUCTION COST					\$1,495,000

Planning	5%	\$75,000
Design and Permitting	10%	\$150,000
Construction and Construction Management	15%	\$224,000

TOTAL ESTIMATED PROJECT COST **\$1,940,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM2
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$15,000	1	LS	\$15,000
2	Temporary Erosion & Sediment Control	\$3,000	1	LS	\$3,000
3	Shoring	\$1	400	LF	\$400
4	Dewatering	\$3,000	1	LS	\$3,000
5	8-inch DI Water Main	\$170	400	LF	\$68,000
6	8-inch Gate Valve Assembly	\$3,000	4	EA	\$12,000
7	1-inch Water Service Connection	\$3,500	4	EA	\$14,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	1	EA	\$10,000
12	HMA Trench Patch	\$200	91	TN	\$18,222
13	Creek Crossing	\$100,000	1	LS	\$100,000
14	Traffic Control	\$3,000	1	LS	\$3,000
15	General Restoration	\$3,000	1	LS	\$3,000
Subtotal					\$279,322
Sales Tax					9.2%
					\$25,698
ESTIMATED CONSTRUCTION COST					\$305,020
Construction Contingency					35%
					\$106,757
TOTAL ESTIMATED CONSTRUCTION COST					\$412,000

Planning	5%	\$21,000
Design and Permitting	10%	\$41,000
Construction and Construction Management	15%	\$62,000
TOTAL ESTIMATED PROJECT COST		\$540,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM3
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$168,000	1	LS	\$168,000
2	Temporary Erosion & Sediment Control	\$33,600	1	LS	\$33,600
3	Shoring	\$1	4,430	LF	\$4,430
4	Dewatering	\$33,600	1	LS	\$33,600
5	8-inch DI Water Main	\$170	440	LF	\$74,800
6	12-inch DI Water Main	\$227	4,430	LF	\$1,005,610
7	8-inch Gate Valve Assembly	\$3,000	4	EA	\$12,000
8	12-inch Gate Valve Assembly	\$5,000	12	EA	\$60,000
9	1-inch Water Service Connection	\$3,500	49	EA	\$171,500
10	2-inch Blow off Assembly	\$4,500	4	EA	\$18,000
11	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
12	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
13	Fire Hydrant	\$10,000	9	EA	\$90,000
14	HMA Trench Patch	\$200	1,109	TN	\$221,856
15	Traffic Control	\$33,600	1	LS	\$33,600
16	General Restoration	\$33,600	1	LS	\$33,600
Subtotal					\$1,985,796
Sales Tax		9.2%	\$182,693		
ESTIMATED CONSTRUCTION COST					\$2,168,489
Construction Contingency		35%	\$758,971		
TOTAL ESTIMATED CONSTRUCTION COST					\$2,927,000

Planning	5%	\$146,000
Design and Permitting	10%	\$293,000
Construction and Construction Management	15%	\$439,000

TOTAL ESTIMATED PROJECT COST **\$3,810,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP WM4
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$95,000	1	LS	\$95,000
2	Temporary Erosion & Sediment Control	\$19,000	1	LS	\$19,000
3	Shoring	\$1	2,920	LF	\$2,920
4	Dewatering	\$19,000	1	LS	\$19,000
5	12-inch DI Water Main	\$198	2,920	LF	\$578,160
6	12-inch Gate Valve Assembly	\$5,000	9	EA	\$45,000
7	1-inch Water Service Connection	\$3,500	30	EA	\$105,000
8	2-inch Blow off Assembly	\$4,500	3	EA	\$13,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	5	EA	\$50,000
12	HMA Trench Patch	\$200	665	TN	\$133,022
13	Traffic Control	\$19,000	1	LS	\$19,000
14	General Restoration	\$19,000	1	LS	\$19,000
Subtotal					\$1,123,802
Sales Tax					9.2%
					\$103,390
ESTIMATED CONSTRUCTION COST					\$1,227,192
Construction Contingency					35%
					\$429,517
TOTAL ESTIMATED CONSTRUCTION COST					\$1,657,000

Planning	5%	\$83,000
Design and Permitting	10%	\$166,000
Construction and Construction Management	15%	\$249,000

TOTAL ESTIMATED PROJECT COST **\$2,160,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan
Engineer's Planning Level Estimate of Probable Project Costs
CIP PRV1
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$4,000	1	LS	\$4,000
2	Pressure Relief Valve	\$40,000	1	LS	\$40,000
3	Traffic Control	\$800	1	LS	\$800
4	General Restoration	\$10,000	1	LS	\$10,000
Subtotal					\$54,800
Sales Tax					9.2% \$5,042
ESTIMATED CONSTRUCTION COST					\$59,842
Construction Contingency					35% \$20,945
TOTAL ESTIMATED CONSTRUCTION COST					\$81,000

Planning	5%	\$4,000
Design and Permitting	10%	\$8,000
Construction and Construction Management	15%	\$12,000
TOTAL ESTIMATED PROJECT COST		\$105,000

Notes

- 1 Import backfill assumed to be 50%
- 2 Foundation Gravel assumed to be 100%
- 3 Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
- 4 Mobilization is assumed to be 10% of Construction
- 5 Yard pipe includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan
Engineer's Planning Level Estimate of Probable Project Costs
CIP PRV2
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$17,800	1	LS	\$17,800
2	Temporary Erosion & Sediment Control	\$3,600	1	LS	\$3,600
3	6-inch and 2-inch PRV Station	\$100,000	1	LS	\$100,000
4	8-inch DI Pipe	\$170	200	LF	\$34,000
5	Connect to Existing Mains	\$10,000	2	EA	\$20,000
6	Misc. Yard Piping (water, vault drains, site SD)	\$6,000	1	LS	\$6,000
7	Minor Landscaping	\$5,000	1	LS	\$5,000
8	HMA Trench Patch	\$200	46	TN	\$9,111
9	Cement Concrete Curb and Gutter	\$81	50	LF	\$4,050
10	Traffic Control	\$3,600	1	LS	\$3,600
11	General Restoration	\$10,000	1	LS	\$10,000
Subtotal					\$213,161
Sales Tax					9.2%
					\$19,611
ESTIMATED CONSTRUCTION COST					\$232,772
Construction Contingency					35%
					\$81,470
TOTAL ESTIMATED CONSTRUCTION COST					\$314,000

Planning	5%	\$16,000
Design and Permitting	10%	\$31,000
Construction and Construction Management	15%	\$47,000
TOTAL ESTIMATED PROJECT COST		\$408,000

Notes

- 1 Import backfill assumed to be 50%
- 2 Foundation Gravel assumed to be 100%
- 3 Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
- 4 Mobilization is assumed to be 10% of Construction
- 5 Yard pipe includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan
Engineer's Planning Level Estimate of Probable Project Costs
CIP PRV3
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$17,800	1	LS	\$17,800
2	Temporary Erosion & Sediment Control	\$3,600	1	LS	\$3,600
3	6-inch and 2-inch PRV Station	\$100,000	1	LS	\$100,000
4	8-inch DI Pipe	\$170	200	LF	\$34,000
5	Connect to Existing Mains	\$10,000	2	EA	\$20,000
6	Misc. Yard Piping (water, vault drains, site SD)	\$6,000	1	LS	\$6,000
7	Minor Landscaping	\$5,000	1	LS	\$5,000
8	HMA Trench Patch	\$200	46	TN	\$9,111
9	Cement Concrete Curb and Gutter	\$81	50	LF	\$4,050
10	Traffic Control	\$3,600	1	LS	\$3,600
11	General Restoration	\$10,000	1	LS	\$10,000
Subtotal					\$213,161
Sales Tax					9.2%
ESTIMATED CONSTRUCTION COST					\$232,772
Construction Contingency					35%
TOTAL ESTIMATED CONSTRUCTION COST					\$81,470
					\$314,000

Planning	5%	\$16,000
Design and Permitting	10%	\$31,000
Construction and Construction Management	15%	\$47,000

TOTAL ESTIMATED PROJECT COST **\$408,000**

Notes

- 1 Import backfill assumed to be 50%
- 2 Foundation Gravel assumed to be 100%
- 3 Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
- 4 Mobilization is assumed to be 10% of Construction
- 5 Yard pipe includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP P21
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$14,000	1	LS	\$14,000
2	Temporary Erosion & Sediment Control	\$2,800	1	LS	\$2,800
3	Shoring	\$280	1	LF	\$280
4	Dewatering	\$2,800	1	LS	\$2,800
5	8-inch DI Water Main	\$170	280	LF	\$47,600
6	8-inch Gate Valve Assembly	\$3,000	4	EA	\$12,000
7	1-inch Water Service Connection	\$3,500	3	EA	\$10,500
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	1	EA	\$10,000
11	Service Conversions along New Alignment	\$5,000	5	EA	\$25,000
12	Fire Hydrant	\$10,000	1	EA	\$10,000
13	HMA Trench Patch	\$200	64	TN	\$12,756
14	Traffic Control	\$2,800	1	LS	\$2,800
15	General Restoration	\$2,800	1	LS	\$2,800
Subtotal					\$163,036
Sales Tax		9.2%			\$14,999
ESTIMATED CONSTRUCTION COST					\$178,035
Construction Contingency		35%			\$62,312
TOTAL ESTIMATED CONSTRUCTION COST					\$240,000

Planning	5%	\$12,000
Design and Permitting	10%	\$24,000
Construction and Construction Management	15%	\$36,000
TOTAL ESTIMATED PROJECT COST		\$310,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District**Water System Plan****Engineer's Planning Level Estimate of Probable Project Costs****CIP PZ2 - 480 Zone BPS**

Prepared by: L. Wright

Reviewed by: P. Cunningham

6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$188,500	1	LS	\$188,500
2	Temporary Erosion & Sediment Control	\$37,700	1	LS	\$37,700
3	Process Piping	\$450,000	1	LS	\$450,000
4	10-inch DI Water Main	\$198	50	LF	\$9,900
5	10-inch Gate Valve Assembly	\$4,000	3	EA	\$12,000
6	Connect to Existing Mains	\$6,000	2	EA	\$12,000
7	Building	\$450,000	1	LS	\$450,000
8	HVAC and Plumbing	\$100,000	1	LS	\$100,000
9	Electrical Service and Site Electrical	\$175,000	1	LS	\$175,000
10	Electrical, Instrumentation, and Controls	\$400,000	1	LS	\$400,000
11	Generator Set with Fuel Tank and Level 2 Sound Attenuating Enclosure	\$100,000	1	LS	\$100,000
12	Misc. Yard Piping (water, vault drains, site SD)	\$150,000	1	LS	\$150,000
13	Minor Landscaping	\$10,000	1	LS	\$10,000
14	Site Parking Area (Gravel)	\$5,000	1	LS	\$5,000
15	Site Fencing (50' x 50' site)	\$55	200	LF	\$11,000
16	Traffic Control	\$37,700	1	LS	\$37,700
17	General Restoration	\$37,700	1	LS	\$37,700
Subtotal					\$2,186,500
Sales Tax		9.2%			\$201,158
ESTIMATED CONSTRUCTION COST					\$2,387,658
Construction Contingency		35%			\$835,680
TOTAL ESTIMATED CONSTRUCTION COST					\$3,223,000

Planning	5%	\$161,000
Design and Permitting	10%	\$322,000
Construction and Construction Management	15%	\$483,000
TOTAL ESTIMATED PROJECT COST		\$4,190,000

Notes

- 1 Import backfill assumed to be 50%
- 2 Foundation Gravel assumed to be 100%
- 3 Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
- 4 Mobilization is assumed to be 10% of Construction
- 5 Yard pipe includes all fittings, pipe, bedding, excavation, haul, and pavement restoration
- 6 Small BPS is approximately 500 gpm

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP PZ2 - Piping Improvements
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$138,000	1	LS	\$138,000
2	Temporary Erosion & Sediment Control	\$27,600	1	LS	\$27,600
3	Shoring	\$4,310	1	LF	\$4,310
4	Dewatering	\$27,600	1	LS	\$27,600
5	8-inch DI Water Main	\$170	350	LF	\$59,500
6	12-inch DI Water Main	\$227	3,960	LF	\$898,920
7	8-inch Gate Valve Assembly	\$3,000	4	EA	\$12,000
8	12-inch Gate Valve Assembly	\$5,000	11	EA	\$55,000
9	1-inch Water Service Connection	\$3,500	1	EA	\$3,500
10	2-inch Blow off Assembly	\$4,500	4	EA	\$18,000
11	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
12	Check Valve	\$4,000	3	EA	\$12,000
13	Connection to Existing Water Main	\$10,000	4	EA	\$40,000
14	Fire Hydrant	\$10,000	8	EA	\$80,000
15	HMA Trench Patch	\$200	982	TN	\$196,344
16	Traffic Control	\$27,600	1	LS	\$27,600
17	General Restoration	\$27,600	1	LS	\$27,600
Subtotal					\$1,633,174
Sales Tax					9.2%
ESTIMATED CONSTRUCTION COST					\$1,783,426
Construction Contingency					35%
TOTAL ESTIMATED CONSTRUCTION COST					\$624,199
					\$2,408,000

Planning	5%	\$120,000
Design and Permitting	10%	\$241,000
Construction and Construction Management	15%	\$361,000

TOTAL ESTIMATED PROJECT COST **\$3,130,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District**Water System Plan****Engineer's Planning Level Estimate of Probable Project Costs****CIP PZ3 - BPS**

Prepared by: L. Wright

Reviewed by: P. Cunningham

6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$257,000	1	LS	\$257,000
2	Temporary Erosion & Sediment Control	\$51,400	1	LS	\$51,400
3	Process Piping	\$675,000	1	LS	\$675,000
4	12-inch DI Water Main	\$198	300	LF	\$59,400
5	Connect to Existing Mains	\$7,000	2	EA	\$14,000
6	Building	\$600,000	1	LS	\$600,000
7	HVAC and Plumbing	\$110,000	1	LS	\$110,000
8	Electrical Service and Site Electrical	\$250,000	1	LS	\$250,000
9	Electrical, Instrumentation, and Controls	\$500,000	1	LS	\$500,000
10	Generator Set with Fuel Tank and Level 2 Sound Attenuating Enclosure	\$175,000	1	LS	\$175,000
11	Misc. Yard Piping (water, vault drains, site SD)	\$150,000	1	LS	\$150,000
12	Minor Landscaping	\$15,000	1	LS	\$15,000
13	Site Parking Area (Gravel)	\$5,000	1	LS	\$5,000
14	Site Fencing (50' x 100' site)	\$55	300	LF	\$16,500
15	Traffic Control	\$51,400	1	LS	\$51,400
16	General Restoration	\$51,400	1	LS	\$51,400
Subtotal					\$2,981,100
Sales Tax		9.2%			\$274,261
ESTIMATED CONSTRUCTION COST					\$3,255,361
Construction Contingency		35%			\$1,139,376
TOTAL ESTIMATED CONSTRUCTION COST					\$4,395,000

Planning	5%	\$220,000
Design and Permitting	10%	\$440,000
Construction and Construction Management	15%	\$659,000

TOTAL ESTIMATED PROJECT COST **\$5,710,000**

Notes

- 1 Import backfill assumed to be 50%
- 2 Foundation Gravel assumed to be 100%
- 3 Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
- 4 Mobilization is assumed to be 10% of Construction
- 5 Yard pipe includes all fittings, pipe, bedding, excavation, haul, and pavement restoration
- 6 Medium BPS is approximately 1,500 gpm

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP PZ3 - Piping Improvements
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$134,000	1	LS	\$134,000
2	Temporary Erosion & Sediment Control	\$26,800	1	LS	\$26,800
3	Shoring	\$4,380	1	LF	\$4,380
4	Dewatering	\$26,800	1	LS	\$26,800
5	8-inch DI Water Main	\$170	3,800	LF	\$646,000
6	12-inch DI Water Main	\$227	580	LF	\$131,660
7	8-inch Gate Valve Assembly	\$3,000	11	EA	\$33,000
8	12-inch Gate Valve Assembly	\$5,000	5	EA	\$25,000
9	1-inch Water Service Connection	\$3,500	44	EA	\$154,000
10	2-inch Blow off Assembly	\$4,500	4	EA	\$18,000
11	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
12	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
13	Check Valve	\$4,000	1	EA	\$4,000
14	Isolation Valve	\$4,000	6	EA	\$24,000
15	Fire Hydrant	\$10,000	8	EA	\$80,000
16	HMA Trench Patch	\$200	998	TN	\$199,533
17	Traffic Control	\$26,800	1	LS	\$26,800
18	General Restoration	\$26,800	1	LS	\$26,800
Subtotal					\$1,585,973
Sales Tax					9.2%
					\$145,910
ESTIMATED CONSTRUCTION COST					\$1,731,883
Construction Contingency					35%
					\$606,159
TOTAL ESTIMATED CONSTRUCTION COST					\$2,338,000

Planning	5%	\$117,000
Design and Permitting	10%	\$234,000
Construction and Construction Management	15%	\$351,000
TOTAL ESTIMATED PROJECT COST		\$3,040,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP F1
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$21,000	1	LS	\$21,000
2	Temporary Erosion & Sediment Control	\$4,200	1	LS	\$4,200
3	Shoring	\$500	1	LF	\$500
4	Dewatering	\$4,200	1	LS	\$4,200
5	8-inch DI Water Main	\$170	500	LF	\$85,000
6	8-inch Gate Valve Assembly	\$3,000	4	EA	\$12,000
7	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
8	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
9	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
10	Fire Hydrant	\$10,000	1	EA	\$10,000
11	Flow Meter	\$50,000	1	EA	\$50,000
12	HMA Trench Patch	\$200	114	TN	\$22,778
13	Traffic Control	\$4,200	1	LS	\$4,200
14	General Restoration	\$4,200	1	LS	\$4,200
Subtotal					\$247,778
Sales Tax					9.2%
					\$22,796
ESTIMATED CONSTRUCTION COST					\$270,573
Construction Contingency					35%
					\$94,701
TOTAL ESTIMATED CONSTRUCTION COST					\$365,000

Planning	5%	\$18,000
Design and Permitting	10%	\$37,000
Construction and Construction Management	15%	\$55,000
TOTAL ESTIMATED PROJECT COST		\$480,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP F3 - Cedar Ave BPS
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$65,000	1	LS	\$65,000
2	Booster Pump	\$200,000	1	LS	\$200,000
3	Electrical Service and Site Electrical	\$50,000	1	LS	\$50,000
4	Electrical, Instrumentation, and Controls	\$400,000	1	LS	\$400,000
5	Traffic Control	\$13,000	1	LS	\$13,000
6	General Restoration	\$13,000	1	LS	\$13,000
	Subtotal				\$741,000
	Sales Tax	9.2%			\$68,172
	ESTIMATED CONSTRUCTION COST				\$809,172
	Construction Contingency	35%			\$283,210
	TOTAL ESTIMATED CONSTRUCTION COST				\$1,092,000

Planning	5%	\$55,000
Design and Permitting	10%	\$109,000
Construction and Construction Management	15%	\$164,000
TOTAL ESTIMATED PROJECT COST		\$1,420,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP F4
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$45,000	1	LS	\$45,000
2	Temporary Erosion & Sediment Control	\$9,000	1	LS	\$9,000
3	Shoring	\$1,500	1	LF	\$1,500
4	Dewatering	\$9,000	1	LS	\$9,000
5	8-inch DI Water Main	\$170	1,500	LF	\$255,000
6	8-inch Gate Valve Assembly	\$3,000	6	EA	\$18,000
7	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
8	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
9	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
10	Fire Hydrant	\$10,000	3	EA	\$30,000
11	Flow Meter	\$50,000	1	EA	\$50,000
12	HMA Trench Patch	\$200	342	TN	\$68,333
13	Traffic Control	\$9,000	1	LS	\$9,000
14	General Restoration	\$9,000	1	LS	\$9,000
Subtotal					\$533,533
Sales Tax					9.2%
					\$49,085
ESTIMATED CONSTRUCTION COST					\$582,618
Construction Contingency					35%
					\$203,916
TOTAL ESTIMATED CONSTRUCTION COST					\$787,000

Planning	5%	\$39,000
Design and Permitting	10%	\$79,000
Construction and Construction Management	15%	\$118,000

TOTAL ESTIMATED PROJECT COST **\$1,020,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan
Engineer's Planning Level Estimate of Probable Project Costs
CIP F5
Prepared by: P. Cunningham
Reviewed by:
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization and Demobilization	\$234,000	1	LS	\$234,000
2	Temporary Erosion and Sediment Control	\$10,000	1	LS	\$10,000
3	Shoring	\$1	200	LF	\$200
4	Locate Site Utilities	\$5,000	1	LS	\$5,000
5	Clearing and Grubbing	\$10,000	1	LS	\$10,000
6	Site Earthwork	\$25,000	1	LS	\$25,000
7	Surface Restoration	\$24,000	1	LS	\$24,000
8	8-inch DI Pipe	\$170	200	LF	\$34,000
9	1,000,000 Gallon Welded Steel Tank, Incl. Foundation and Painting	\$2.0	1,000,000	GAL	\$2,000,000
10	Control Building/Equipment and Programming	\$180,000	1	LS	\$180,000
11	Valve Vault	\$50,000	1	LS	\$50,000
Subtotal					\$2,572,200
Sales Tax					9.2%
					\$236,642
ESTIMATED CONSTRUCTION COST					\$2,808,842
Construction Contingency					35%
					\$983,095
TOTAL ESTIMATED CONSTRUCTION COST					\$3,790,000

Planning	5%	\$190,000
Design and Permitting	10%	\$380,000
Construction and Construction Management	15%	\$570,000
TOTAL ESTIMATED PROJECT COST		\$4,930,000

Notes

- 1 Import backfill assumed to be 50%
- 2 Foundation Gravel assumed to be 100%
- 3 Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
- 4 Mobilization is assumed to be 10% of Construction
- 5 Yard pipe includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP DF1 - Piping Improvements
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$85,000	1	LS	\$85,000
2	Temporary Erosion & Sediment Control	\$17,000	1	LS	\$17,000
3	Shoring	\$2,915	1	LF	\$2,915
4	Dewatering	\$17,000	1	LS	\$17,000
5	8-inch DI Water Main	\$170	2,915	LF	\$495,550
6	8-inch Gate Valve Assembly	\$3,000	9	EA	\$27,000
7	1-inch Water Service Connection	\$3,500	30	EA	\$105,000
8	2-inch Blow off Assembly	\$4,500	3	EA	\$13,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	5	EA	\$50,000
12	HMA Trench Patch	\$200	664	TN	\$132,794
13	Traffic Control	\$17,000	1	LS	\$17,000
14	General Restoration	\$17,000	1	LS	\$17,000
Subtotal					\$1,004,959
Sales Tax					9.2%
					\$92,456
ESTIMATED CONSTRUCTION COST					\$1,097,416
Construction Contingency					35%
					\$384,095
TOTAL ESTIMATED CONSTRUCTION COST					\$1,482,000

Planning	5%	\$74,000
Design and Permitting	10%	\$148,000
Construction and Construction Management	15%	\$222,000

TOTAL ESTIMATED PROJECT COST **\$1,930,000**

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District**Water System Plan****Engineer's Planning Level Estimate of Probable Project Costs****CIP DF1 - PRV Station**

Prepared by: L. Wright

Reviewed by: P. Cunningham

6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$17,800	1	LS	\$17,800
2	Temporary Erosion & Sediment Control	\$3,600	1	LS	\$3,600
3	6-inch and 2-inch PRV Station	\$100,000	1	LS	\$100,000
4	8-inch DI Pipe	\$170	200	LF	\$34,000
5	Connect to Existing Mains	\$10,000	2	EA	\$20,000
6	Misc. Yard Piping (water, vault drains, site SD)	\$6,000	1	LS	\$6,000
7	Minor Landscaping	\$5,000	1	LS	\$5,000
8	HMA Trench Patch	\$200	46	TN	\$9,111
9	Cement Concrete Curb and Gutter	\$81	50	LF	\$4,050
10	Traffic Control	\$3,600	1	LS	\$3,600
11	General Restoration	\$10,000	1	LS	\$10,000
Subtotal					\$213,161
Sales Tax					9.2%
					\$19,611
ESTIMATED CONSTRUCTION COST					\$232,772
Construction Contingency					35%
					\$81,470
TOTAL ESTIMATED CONSTRUCTION COST					\$314,000

Planning	5%	\$16,000
Design and Permitting	10%	\$31,000
Construction and Construction Management	15%	\$47,000

TOTAL ESTIMATED PROJECT COST **\$408,000**

Notes

- 1 Import backfill assumed to be 50%
- 2 Foundation Gravel assumed to be 100%
- 3 Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
- 4 Mobilization is assumed to be 10% of Construction
- 5 Yard pipe includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District
Water System Plan Update
Engineer's Planning Level Opinion of Probable Project Costs
CIP DF2 - Piping Improvements
Prepared by: L. Wright
Reviewed by: P. Cunningham
6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$35,000	1	LS	\$35,000
2	Temporary Erosion & Sediment Control	\$7,000	1	LS	\$7,000
3	Shoring	\$1,105	1	LF	\$1,105
4	Dewatering	\$7,000	1	LS	\$7,000
5	8-inch DI Water Main	\$170	1,105	LF	\$187,850
6	8-inch Gate Valve Assembly	\$3,000	6	EA	\$18,000
7	1-inch Water Service Connection	\$3,500	12	EA	\$42,000
8	2-inch Blow off Assembly	\$4,500	1	EA	\$4,500
9	Air Release/Vacuum Valve Assembly	\$5,200	1	EA	\$5,200
10	Connection to Existing Water Main	\$10,000	2	EA	\$20,000
11	Fire Hydrant	\$10,000	2	EA	\$20,000
12	HMA Trench Patch	\$200	252	TN	\$50,339
13	Traffic Control	\$7,000	1	LS	\$7,000
14	General Restoration	\$7,000	1	LS	\$7,000
Subtotal					\$411,994
Sales Tax					9.2% \$37,903
ESTIMATED CONSTRUCTION COST					\$449,897
Construction Contingency					35% \$157,464
TOTAL ESTIMATED CONSTRUCTION COST					\$607,000

Planning	5%	\$30,000
Design and Permitting	10%	\$61,000
Construction and Construction Management	15%	\$91,000
TOTAL ESTIMATED PROJECT COST		\$790,000

Notes

1. Import backfill assumed to be 100%
2. Foundation Gravel assumed to be 100%
3. Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
4. Mobilization is assumed to be 10% of Construction
5. Pipe costs includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.

Manchester Water District**Water System Plan****Engineer's Planning Level Estimate of Probable Project Costs****CIP DF2 - PRV Station**

Prepared by: L. Wright

Reviewed by: P. Cunningham

6/19/2025

Bid Item No.	Bid Item Description	Unit Bid Price	Quantity	Unit	Total
1	Mobilization	\$17,800	1	LS	\$17,800
2	Temporary Erosion & Sediment Control	\$3,600	1	LS	\$3,600
3	6-inch and 2-inch PRV Station	\$100,000	1	LS	\$100,000
4	8-inch DI Pipe	\$170	200	LF	\$34,000
5	Connect to Existing Mains	\$10,000	2	EA	\$20,000
6	Misc. Yard Piping (water, vault drains, site SD)	\$6,000	1	LS	\$6,000
7	Minor Landscaping	\$5,000	1	LS	\$5,000
8	HMA Trench Patch	\$200	46	TN	\$9,111
9	Cement Concrete Curb and Gutter	\$81	50	LF	\$4,050
10	Traffic Control	\$3,600	1	LS	\$3,600
11	General Restoration	\$10,000	1	LS	\$10,000
Subtotal					\$213,161
Sales Tax					9.2%
					\$19,611
ESTIMATED CONSTRUCTION COST					\$232,772
Construction Contingency					35%
					\$81,470
TOTAL ESTIMATED CONSTRUCTION COST					\$314,000

Planning	5%	\$16,000
Design and Permitting	10%	\$31,000
Construction and Construction Management	15%	\$47,000

TOTAL ESTIMATED PROJECT COST **\$408,000**

Notes

- 1 Import backfill assumed to be 50%
- 2 Foundation Gravel assumed to be 100%
- 3 Gen. Rest., Dewatering, Traffic Control, Erosion Control at 2% Construction Costs
- 4 Mobilization is assumed to be 10% of Construction
- 5 Yard pipe includes all fittings, pipe, bedding, excavation, haul, and pavement restoration

The opinion of probable cost herein is based on our perception of current conditions at the project location. This opinion reflects our professional opinion of costs at this time and is subject to change as the project design progresses. BHC Consultants has no control over variances in the cost of labor, materials, equipment; nor services provided by others, contractor's means and methods of executing the work or of determining prices, competitive bidding or market conditions, practices or bidding strategies. BHC Consultants cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the costs presented as shown.