



SEWER SYSTEM ASSET MANAGEMENT PLAN

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Prepared for:



City of Marion, NC
194 N Main Street
Marion, NC 28752
Phone: (828) 652-3551

Prepared by:



WithersRavenel, Inc.
84 Coxe Avenue Suite 260
Asheville, NC 28801
Phone: (828) 255-0313
License #: C-0832

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APPENDIX III – CIP Location Maps

1 Executive Summary

This Asset Management Plan (AMP) begins to inventory and assess the City of Marion's sewer collection system. The City's gravity sewer lines and manholes were partially inventoried in a City maintained Geographic Information System (GIS) database. This database contains key performance indicators (KPI), mainly age, material and geographical locations. These data were used to determine the Likelihood of Failure (LoF) and Consequence of Failure (CoF) for sewer system assets. The resulting LoF and CoF scores are on a 0 to 10 scale with a score of 10 corresponding to the most likely to fail or having the most severe consequences of failure, respectively. Once both scores were determined, the asset's Risk of Failure (RoF) was established within a 10 x 10 risk matrix with LoF and CoF on opposing axes. An asset's risk is determined by multiplying the LoF and CoF scores together. Scores can range from 0 to 100 with 100 having the highest RoF.

The scoring KPIs for both LoF and CoF were determined by senior members of the City of Marion's finance, planning, and public works departments. These individuals were selected based on their in-depth knowledge of the City's utility system as well as historical knowledge of the causes and impacts of previous system failures. Once assigned, the LoF/CoF scores are used to rank sewer attributes for replacement, repair or upgrade.

The project budget allowed for GPS location and condition assessment of roughly 80% of the system manholes. This information was used to generate much greater accuracy in approximately 80% of GIS mapping and data. An attribute field is included in the data to show which features are mapped to GPS accuracy. As is always the case with GIS and infrastructure management, mapping and data accuracy is an ongoing process. The effort leading to this GIS and AMP is a first step. City staff must continue the effort to capitalize on this first step.

This AMP is a guide to the City of Marion's continuing effort to maintain an inventory of sewer system assets and condition assessment of the assets and a capital improvement plan (CIP) with cost estimates and an operation and maintenance (O&M) plan for the sewer system. Approximate costs for CIP projects were determined for priority projects. Presented costs are in today's dollars.

This document is intended to be a living document that is reviewed and updated on a continual basis. It is recommended that the City continue capturing and validating data stored within GIS to ensure that the most relevant and accurate representation of the current system is captured.

2 Introduction and Background

The City of Marion is located in McDowell County, North Carolina, approximately 30 miles northeast of the City of Asheville. In 2019, Marion's population was estimated by the North Carolina Office of State Budget and Management at 8,454, which is approximately 18% of McDowell County's total estimated population of 46,373. The City owns and operates a water treatment facility and distribution system along with a wastewater treatment facility and collection system.

This AMP has been created to document, map, and assess the condition of the various assets in the City's sewer system, as well as prioritize the potential improvements. The goals of the AMP are to:

- Inventory the wastewater collection and treatment infrastructure
- Assess and document the condition of the sewer system assets
- Create a prioritized Capital Improvement Plan based on asset conditions and system needs
- Develop the system's Operation and Maintenance (O&M) Plan

The information provided in this report documents the location and condition for the gravity sewer portion and pump stations of the City of Marion's current sewer system infrastructure.

3 Sewer System Overview

The City of Marion's Public Works Department oversees water and wastewater operations and maintenance with highly trained and certified employees under a Council-Manager-Staff organization structure. Marion's wastewater collection system totals over 76 miles of gravity sewer lines and 9 miles of force main. The system also includes 22 sewer pump stations and approximately 1,500 manholes to transport an average daily flow of 0.89 million gallons per day (MGD) of wastewater to the City-owned and operated Corpening Creek Wastewater Treatment Plant.

The Corpening Creek Wastewater Treatment Plant has a capacity of 3 MGD and utilizes bar screening and grit removal, primary clarification, aeration basins, lime addition, secondary clarification, filtration, and chlorine disinfection to treat wastewater before it is discharged to Corpening Creek. Solids are digested through aerobic digestion and land-applied in a liquid form under permit WQ0019960.



**61 Miles of
8"-30"
Sanitary
Sewer**



**22 Sanitary
Sewer Pump
Stations**



**1,500
Sanitary
Sewer
Manholes**



**3 MGD
WWTP**

4 Critical Assets

4.1 Wastewater Treatment Plant

The City of Marion owns and operates one wastewater treatment plant, the Corpening Creek Wastewater Treatment Plant, located at 3982 Hwy 226 South in Marion, NC. The facility has a capacity of 3 MGD, and unit processes include screening and grit removal, primary clarification, aeration, lime addition, secondary clarification, chlorine disinfection, and sulfur dioxide dechlorination. Water is then discharged into Corpening Creek (Youngs Fork), which is part of the Catawba River Basin. Solids are thickened and treated by aerobic digestion before being stored and eventually land-applied under permit WQ0019960. **Table 1** shows each of the major unit processes at the plant and the number of each unit and **Figure 1** shows a flow chart of the treatment process.

Table 1. Summary of major treatment units at the Corpening Creek Wastewater Treatment Plant.

Treatment Unit	Number of Units	Year Constructed/Updated
Influent Screens	1	2010
Primary Clarification	2	2012
Aeration Basins	2	2009
Secondary Clarifiers	2	Rehabilitated in 2010
Chlorine Disinfection	2	2010
Dechlorination	2	2010
Aerobic Digesters	2	2010

The North Carolina Department of Environmental Quality (NCDEQ) regulates the City of Marion's effluent discharge under the National Pollutant Discharge Elimination System (NPDES). NCDEQ issued the City a NPDES permit, which includes water quality limits, sampling, and monitoring requirements.

The current average daily wastewater flow is 0.89 MGD, well under the plant's capacity. Each of the unit processes is within its useful lifetime. Identifying CIP projects related to the wastewater treatment plant was beyond the scope of this work. However, the CIP should be updated as such projects are identified.

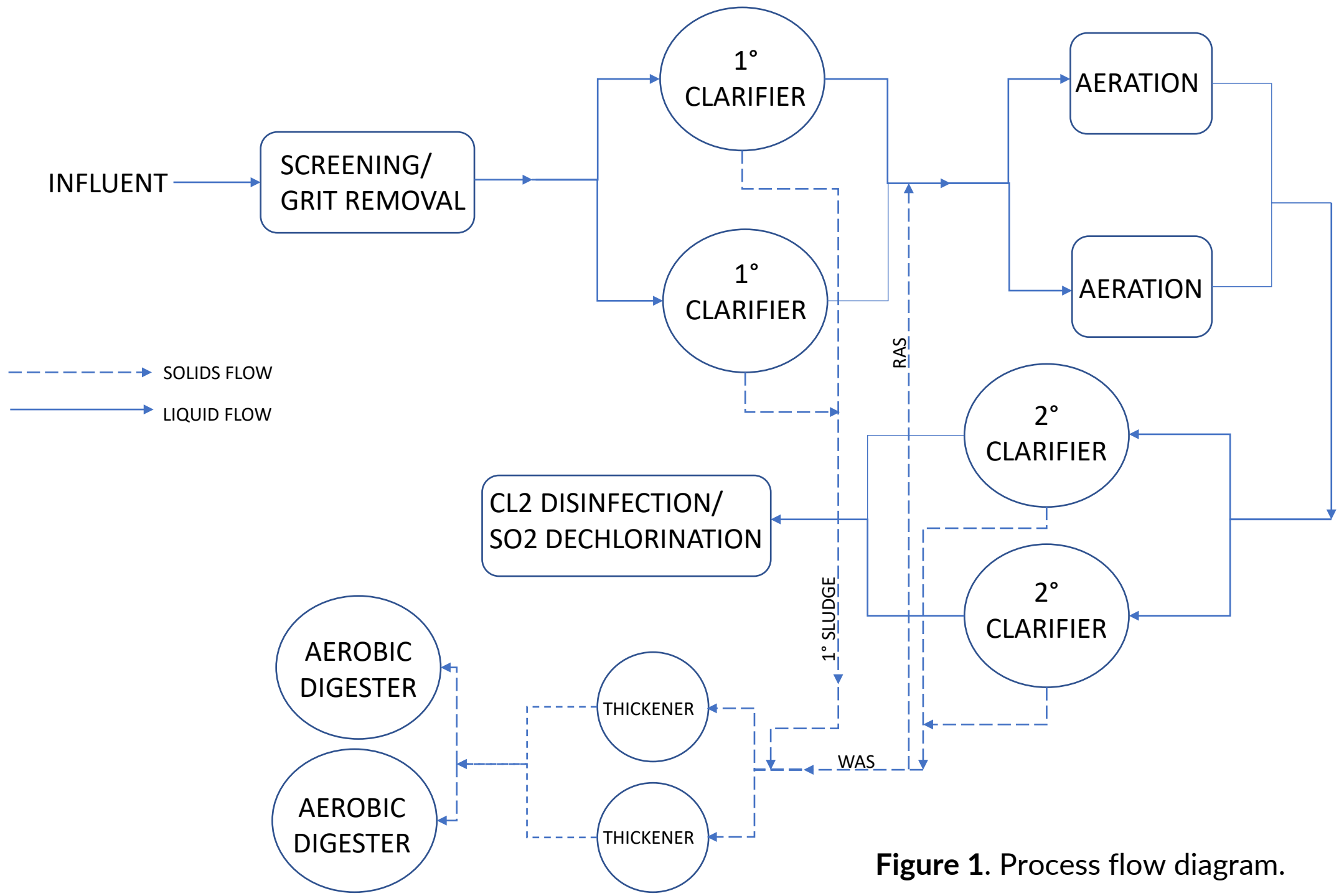


Figure 1. Process flow diagram.

4.2 Lift Stations

The City of Marion owns and operates 22 sewer pump stations. These pump stations are an integral part of the sewer collection infrastructure. Installation dates for the lift stations range from 1977 to 2016, and capacities range from 18 GPM to 2083 GPM. **Table 2** gives a summary of the lift stations owned and operated by the City.

Table 2. Summary of information for the collection system lift stations.

Lift Station Name	Year Built	Capacity of Pumps (GPM)	Power Reliability (kW)	Telemetry
Pilot Flying J PS	2016	300	50	Yes
Condrey Road PS	2010	124	60	Yes
I-40 (Walmart) PS	2010	200	60	Yes
Meadow Lane PS	2010	306	60	Yes
Rankin Drive (Hospital) PS	2009	330	180	Yes
Spaulding Road PS	1977, rehab 2017	70	80	Yes
YMCA PS	2007	80	30	Yes
Grayson Street PS	1978	70	Portable	Yes
Goodrum Drive PS	1978, rehab 2018	18	Portable	Yes
Finley Road PS	2010	540	225	Yes
Seagle Street PS	2005	125	25	Yes
Perry Street PS	2005	80	30	Yes
Prison PS	1990	400	100	Yes
Baldor PS	1985	125	200	Yes
PRP (Old US 221) PS	2000	110	200	Yes
Catawba River PS	2010	540	250	Yes
Clinchfield PS	1977	200	225	Yes
Hankins Road PS	2007	110	30	Yes
Clay Street PS	1978	40	Portable	Yes
PG (Hwy 70) PS	2002	125	25	Yes
Victory Drive PS	1977	24	Portable	Yes
Corpening Creek WWTP	2010	2,083	300	Yes

The locations of the lift stations are shown in **Appendix I**. The scope of this AMP focuses on gravity collection lines and manholes. As the City continues to evolve their AMP, attention should be given to in-depth condition assessment of pump stations and programming pump-related capital improvement projects into the budget. From simply an age standpoint, several of the pump stations may already be candidates for replacement or capital improvements.

4.3 Gravity Sewers and Manholes

4.3.1 Gravity Sewer

The City of Marion's collection system includes over 76 miles of gravity sewers which convey wastewater from the collection system to the wastewater treatment plant. Pipe diameters range from 4 to 30 inches and pipe ages range from 2 years to over 75 years. The pie charts in **Figures 2, 3, and 4** provide a summary of the diameters, materials, and ages of the gravity sewer pipes contained in City's collection system.

Pipe Diameter

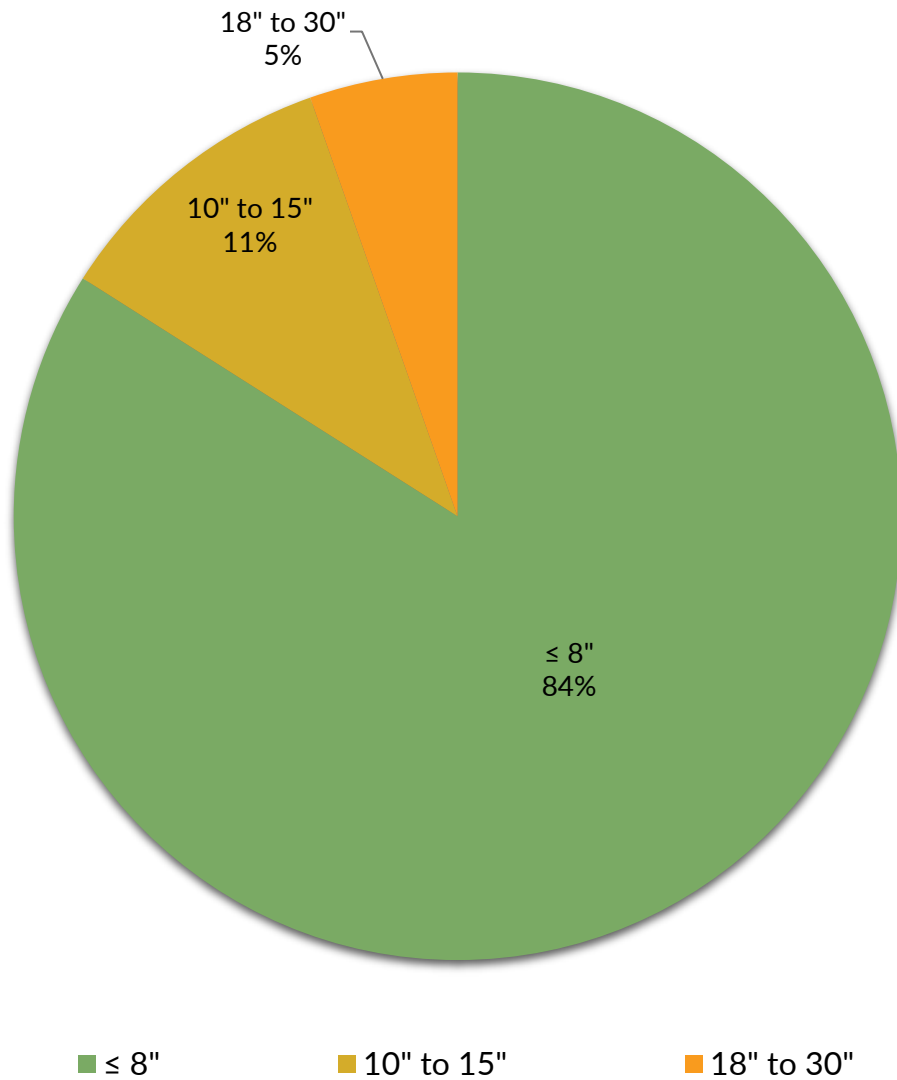


Figure 2. Diameters (inches) of gravity sewers in the collection system.

As shown in **Figure 2**, the vast majority of the sewer pipelines are 8-inch diameter. This is typical as these sizes are prominent for branch collectors which feed into larger trunk lines greater than 10-15 inches which make up just over 10% of the system. The remainder of the system is comprised of lines 18-30 inch sewers.

Pipe Age

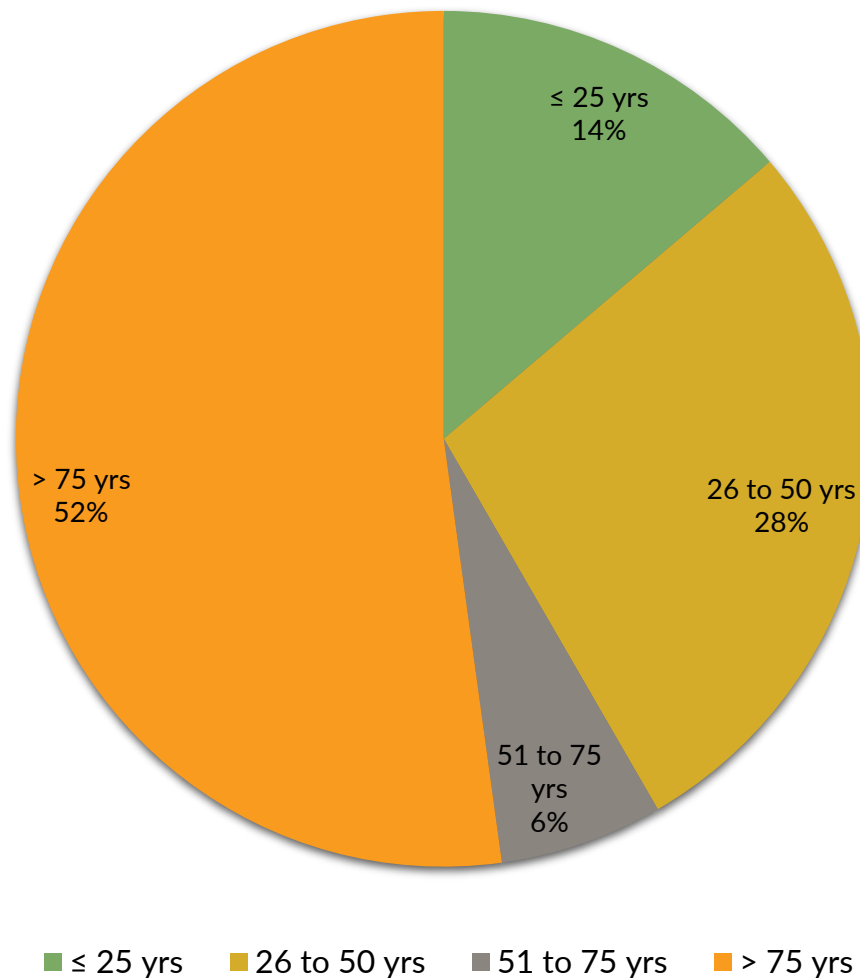


Figure 3. Ages (years) of gravity sewer pipes in the collection system.

Figure 3 illustrates the general age of the collection system pipes. Based on data provided, 86% of the lines have been in place for over 25 years. 58% of the system is over 50 years old. 14% have been installed within the last 25 years.

Pipe Material

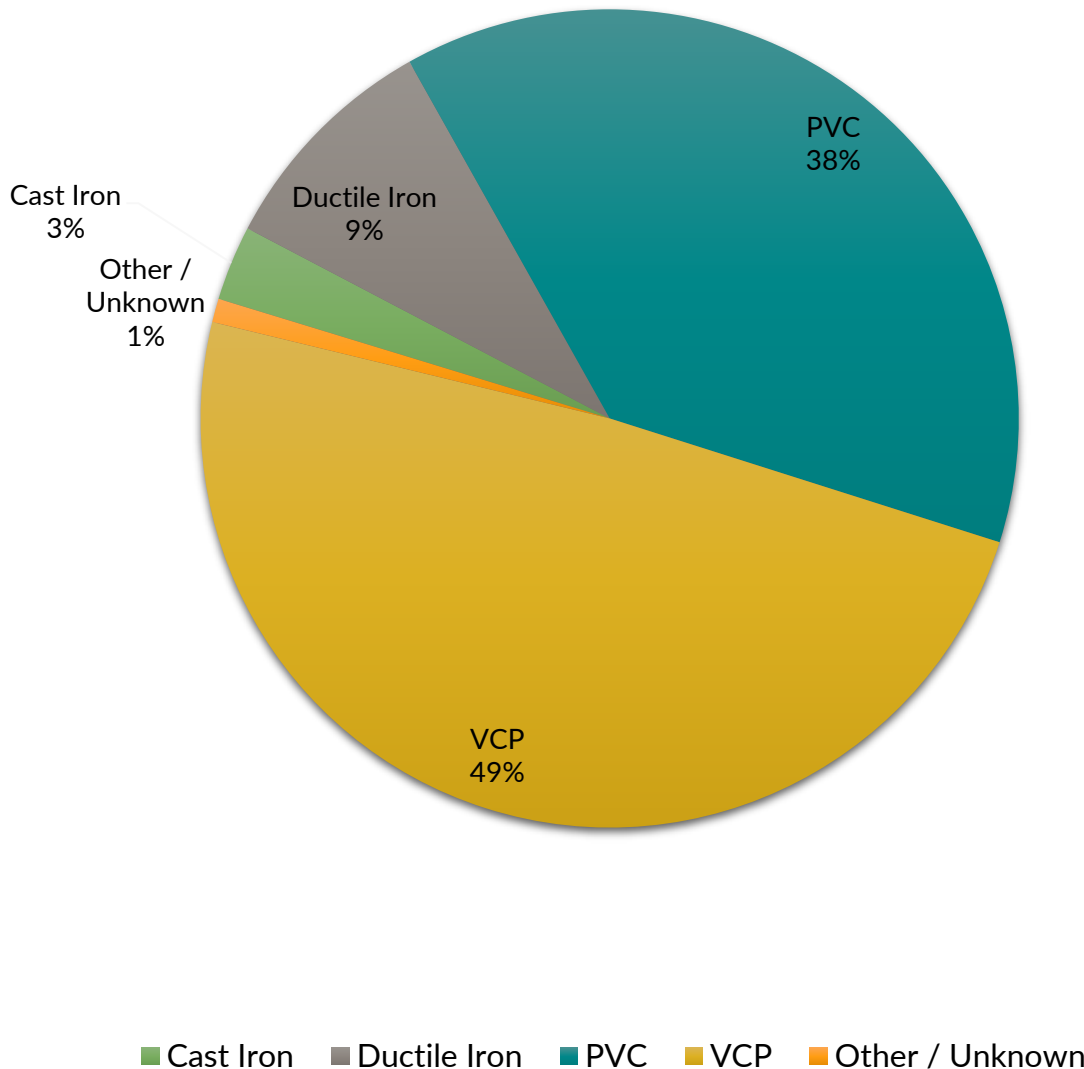


Figure 4. Material of gravity sewer pipes in the collection system.

Figure 4 represents the various pipe materials found in the gravity sewer portion of the City's collection system. Based on the best available information from City staff, vitrified clay pipe (VCP) represents 49% of the gravity sewers, and is typically the oldest and potentially most compromised piping. Ductile iron pipe (DIP) and polyvinyl chloride (PVC) represents 47% of the system, and are currently the only allowed materials for future expansion. 3% of the gravity sewer system is comprised of cast iron pipe, and the material is other/unknown for approximately 1% of the system.

4.3.2 Manholes

The City's sewer collection system consists of approximately 1,500 manholes. Manhole locations have been assigned a unique identifier and are stored in the City's GIS database along with the other data relevant to each manhole. This data typically includes depth, material and a 360° photograph inside the manhole (from which condition can be surmised). Because no detailed assessment of manholes has been made, manholes were assigned the LoF and CoF KPIs of their associated downstream sewer pipes. We recommend continue efforts to capture manhole data and populate it into the GIS.

5 Asset Condition Assessment, Ranking, and Prioritization

Each of the gravity sewer lines and manholes inventoried were prioritized for improvement or replacement. As discussed in Section 4, the manholes are populated with the same scores as the adjoining sewer. It is common for sewer rehabilitation projects to include manholes when adjoining sewer lines are repaired, so the costs associated with replacing the manholes are included in cost estimates.

Based on the asset KPIs currently stored in the GIS, each asset was assigned LoF and CoF scores which were used to calculate the Risk Score for each asset. Lower scores indicate less risk, while higher scores indicate greater risk. Subsequently, the overall risk rating indicates the relative priority for the repair/replacement of the asset. High risk assets should generally be replaced or rehabilitated before low risk assets.

5.1 Priority Ranking Methodology

For the sewer lines in the City's collection system, five separate KPIs, selected by City staff, were utilized to determine the LoF. These KPIs are weighted based on their impact on the system's LoF as described below and listed in **Table 3**:

- **Age** – Age is a typical indicator for LoF, as continued use and normal wear and tear leads to a higher likelihood of problems in older assets.
- **Material** – Materials that are known to be more likely to fail, such as vitrified clay pipe which is susceptible to cracking, are given higher scores.
- **Corrosion** – PVC pipes are not susceptible to corrosion, while almost all other pipe materials are. Therefore, PVC pipes were given a score of 0 in this category, while all other pipe types were given a score of 2.
- **Soil** – Pipes in hydric soils (those that stay saturated with water for a considerable amount of time) were given higher values due to observations of increased rates of pipe failure.
- **Pipe depth** – Pipes over 7 feet deep were assigned a higher value.

Table 3. Sewer Likelihood of Failure (LoF) scores are based on the following KPI factors:

Pipe Age (Years)	LoF Score
75+	4
51-75	3
26-50	2
1-25	1

Pipe Material	LoF Score
Vitrified Clay	3
Cast Iron	2.5
Unknown/Other	1.5
Polyvinyl Chloride	1.5
Ductile Iron	1

Corrosion	LoF Score
YES	2
NO	0

Hydric Soil	LoF Score
Yes	0.5
No	0

Depth (ft)	LoF Score
>7	0.5
0-7	0.25
Unknown	0.25

In addition, the CoF for sewer lines were calculated from five separate KPIs selected by City staff which are weighted based on the impact of the asset's failure. These KPIs are described below and corresponding scores are listed in **Table 4**:

- **Proximity to Surface Water** – Assets located close to surface waters were given higher CoF values because due to potential impacts to surface waters.
- **Proximity to Critical Infrastructure** – An asset impacting other critical infrastructure was assigned a higher CoF. These assets were defined as those within the industrial, office and institutional, central business, neighbor business, and general business zones of the City.
- **Return on Investment** – This KPI reflects the benefits that the City receives when they replace or rehabilitate this asset.
- **Property Damage** – Assets on private property were given higher CoF values due to the difficulty in accessing and repairing these assets.
- **Effects to Transportation** – Assets within a street were given higher CoF values because they require street closures and additional personnel for traffic control during repair, and because they impact the travelling public.

Table 4. Sewer Consequence of Failure (CoF) scores are based on the following KPI factors:

Proximity to Surface Water	CoF Score
5' – 50'	3
51' – 100'	2
101' – 300'	1
> 300'	0.5

Proximity to Critical Infrastructure	CoF Score
Yes	3
No	0

Return on Investment	CoF Score
5.1 - 8	2
3.1 - 5	1.5
0 - 3	1

Property Damage	CoF Score
Private Property	1.5
Public Property	0.5

Effects to Transportation	CoF Score
In 50' Roadway Buffer	0.5
Outside 50' Roadway Buffer	0

After the LoF and CoF scores were assigned to the gravity sewer lines and manholes, both scores were multiplied together to determine the overall risk score for each asset. Risk scores can range up to 100, with a low score meaning the asset is a low risk (and therefore a lower priority for repair/replacement) and a high score indicating the asset is a high risk (and therefore a higher priority for repair/replacement). **Figure 5** shows how LoF scores and CoF scores determine an asset's overall RoF score, and color codes the RoF scores to show their recommended year of replacement. Ideally, all extreme risk assets would be replaced within the next 5 years. To determine an asset's risk score, you would use the following formulas:

Total LoF Score = (LoF score, Age) + (LoF score, Material) + (LoF score, Corrosion) + (LoF score, Soil) + (LoF score, Depth)

Total CoF Score = (CoF score, Proximity to Surface Water) + (CoF score, Proximity to Critical Infrastructure) + (CoF score, Return on Investment) + (CoF score, Property Damage) + (CoF score, Effects to Transportation)

RoF Score = Total LoF Score * Total CoF Score

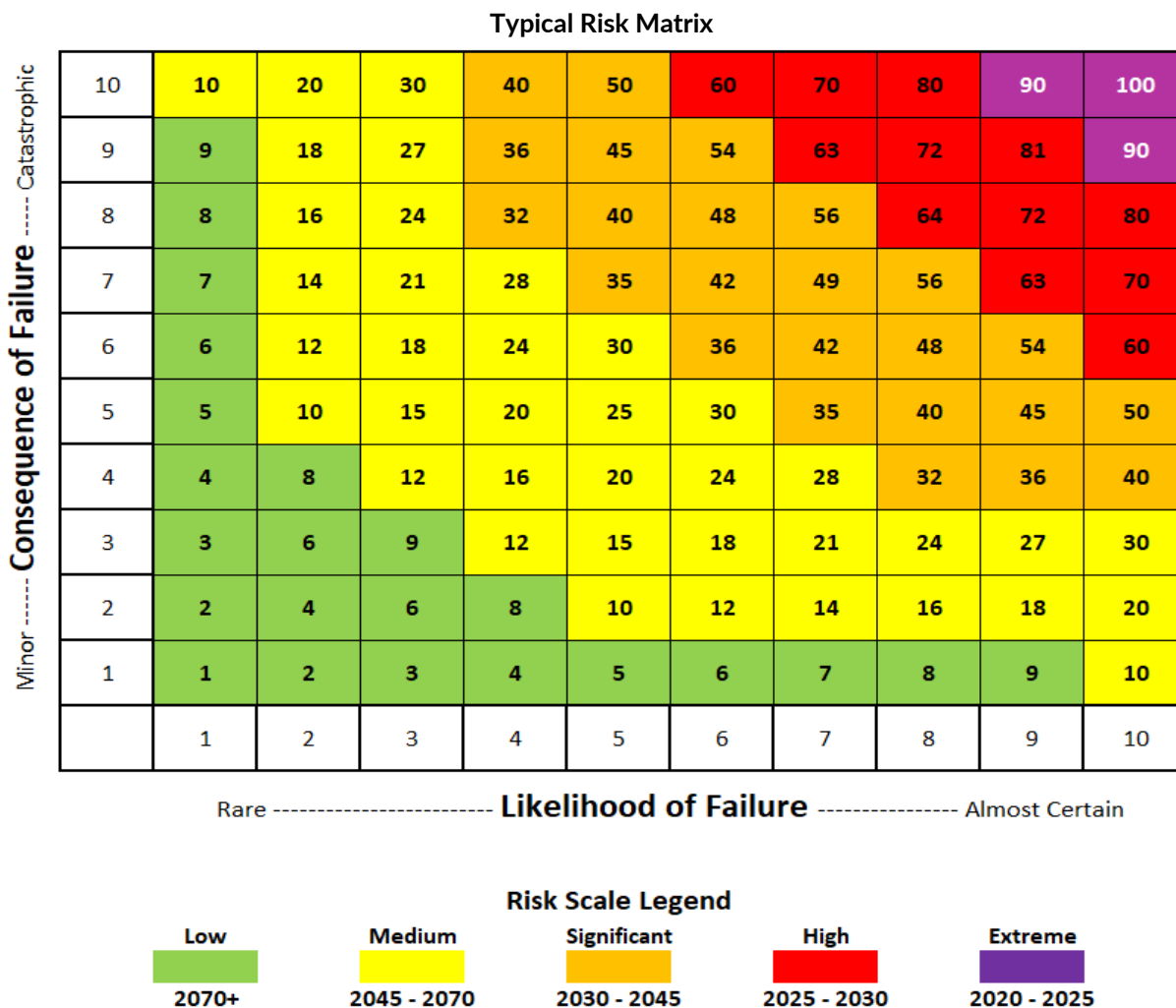


Figure 5. Typical risk matrix indicating possible risk scores and priority rankings for the sewer assets. Categories from “Low” to “Extreme” are based on an assumed time to failure. For example, the “Extreme” category is defined as anything scoring 90 or above and is assumed to require replacement by FY 2025.

5.2 Asset Prioritization Results

5.2.1 Sewer Assets

Using the ranking methodology described in **Section 5.1**, each of the gravity sewer pipes and manholes was assigned a risk score. As seen in **Figure 6** below, 4,111 LF of gravity sewer were placed in the “Extreme Risk” category and 34,812 LF of gravity sewer were placed in the “High Risk” category based on the LoF and CoF values assigned in Section 5.1.

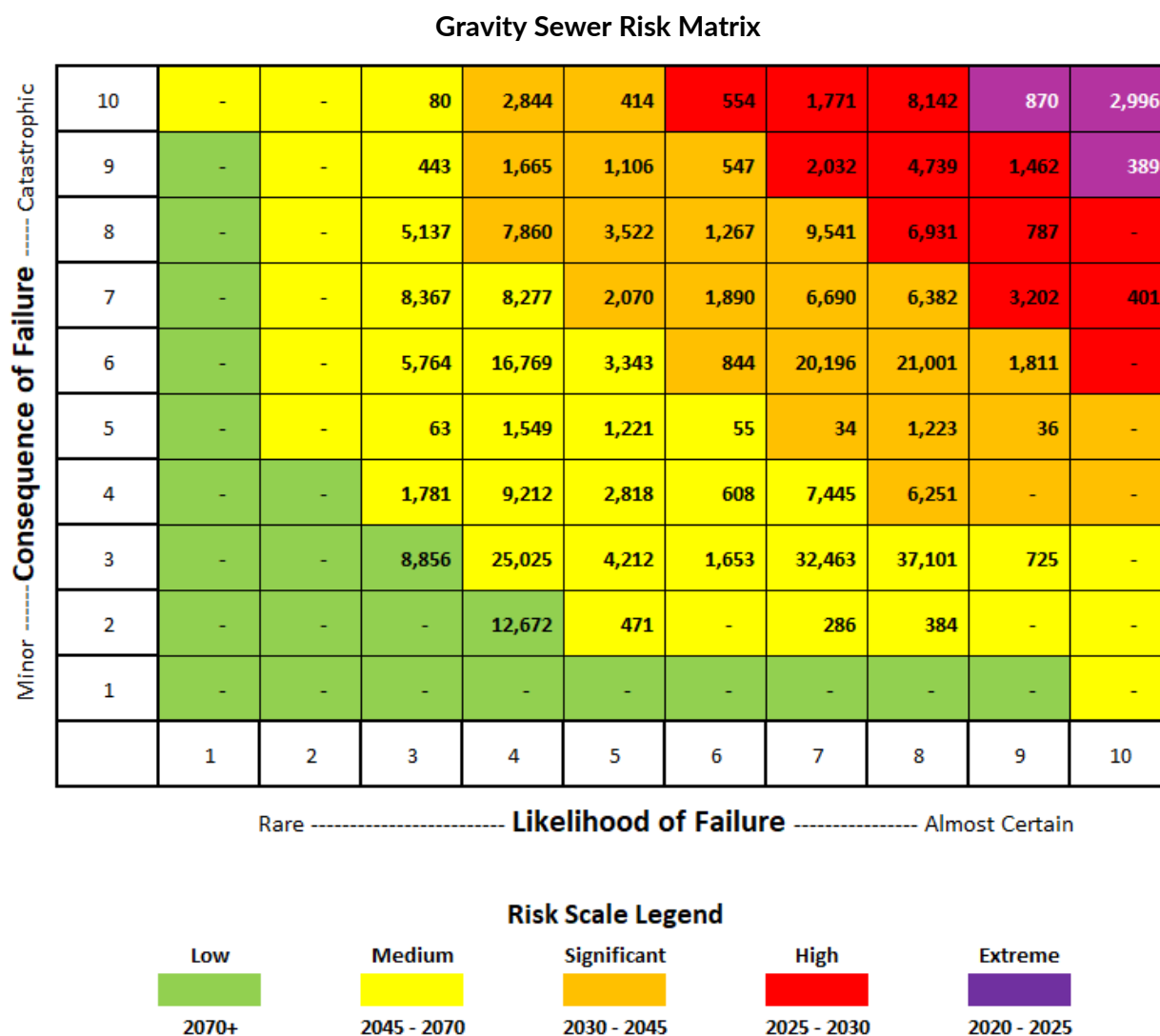


Figure 6. Risk Matrix illustrating the risk category for the gravity sewer pipes. The numbers in the matrix represent linear footage of pipe that received each risk score. The numbers in the legend represent the year range in which repair/replacement should be scheduled.

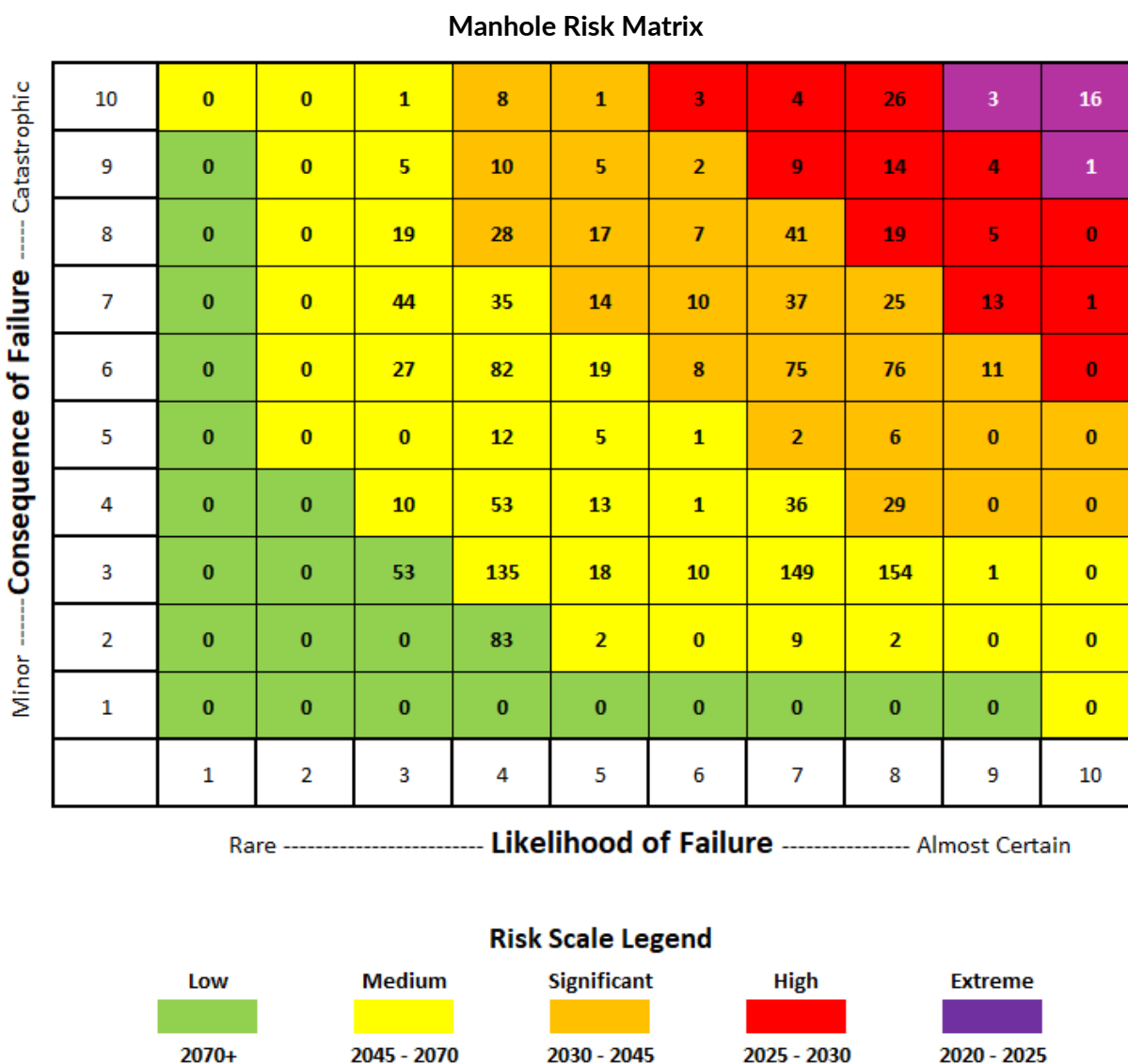


Figure 7. Risk Matrix illustrating the risk category for the sewer system manholes. The numbers in the risk matrix represent number of manholes that received each score. The numbers in the legend represent the year range in which repair/replacement should be scheduled.

Assets categorized as Extreme Risk should be evaluated for repair within the next 5 years. Some of the Capital Improvement Projects included below were identified because they scored high in the Risk Matrix. Others are included due to other known issues not specifically captured by the Risk Matrix. Based on Risk matrix scores, attention should be given to the outfall line to the Corpening Creek Wastewater Treatment Plant in the southern part of the City.

6 Sewer System Capital Improvement Plan

6.1 Gravity Sewer and Manhole Overview

With adequate data loaded into the GIS along with KPIs and their assigned scores, it is possible to automate a *broad, generalized* snapshot of prioritized replacement cost based on the results of the risk matrix.

To unitize gravity sewer replacement costs, each pipe segment is first converted to its inch-foot dimensions. As an example, 1,000 linear feet of 8-inch pipe is 8,000 inch-feet, whereas 1,000 linear feet of 12-inch pipe is 12,000 inch-feet.

Next, based on an evaluation of many construction bids across North Carolina, we calculated an average cost for combined sewer pipe and manhole replacement as \$23/inch-foot. Similarly, trenchless rehabilitation cost is calculated at \$12/inch-foot, including manholes. These values include “soft” costs such as engineering, permitting, and inspection.

Without extensive assessment and evaluation of the sewer system, it is not possible to differentiate assets that are candidates for replacement vs. trenchless rehabilitation. However, it is expected that a high percentage will qualify for less expensive and non-intrusive trenchless rehabilitation. For the purpose of this AMP, it is assumed that 85% of the system will qualify for the less expensive rehabilitation option.

Table 5 and Figure 8 below detail the total cost of replacement/rehabilitation based on an 85% rehabilitation weighted estimate. Based on the weighted estimates, the City of Marion would need to allot approximately \$41M (today’s dollars) to replace/rehabilitate the entire system. *The total present-day value of the system is approximately \$70M, based on the \$23/inch-foot estimate.*

Table 5. Total system replacement value/cost by category.

Risk Score	Proportion of System	Inch-Feet	\$23/Inch-Foot (Replacement)	\$12/Inch-Foot (Rehabilitation)	\$13.65/In-Foot (Weighted)
LOW	6%	171,531	\$3.95 M	\$2.06 M	\$2.34 M
MEDIUM	45%	1,386,319	\$31.89 M	\$16.64 M	\$18.92 M
SIGNIFICANT	30%	903,591	\$20.78 M	\$10.84 M	\$12.33 M
HIGH	17%	520,585	\$11.97 M	\$6.25 M	\$7.11 M
EXTREME	2%	54,730	\$1.26 M	\$0.66 M	\$0.75 M
TOTAL	100%	3,036,757	\$69.85 M	\$36.44 M	\$41.45 M

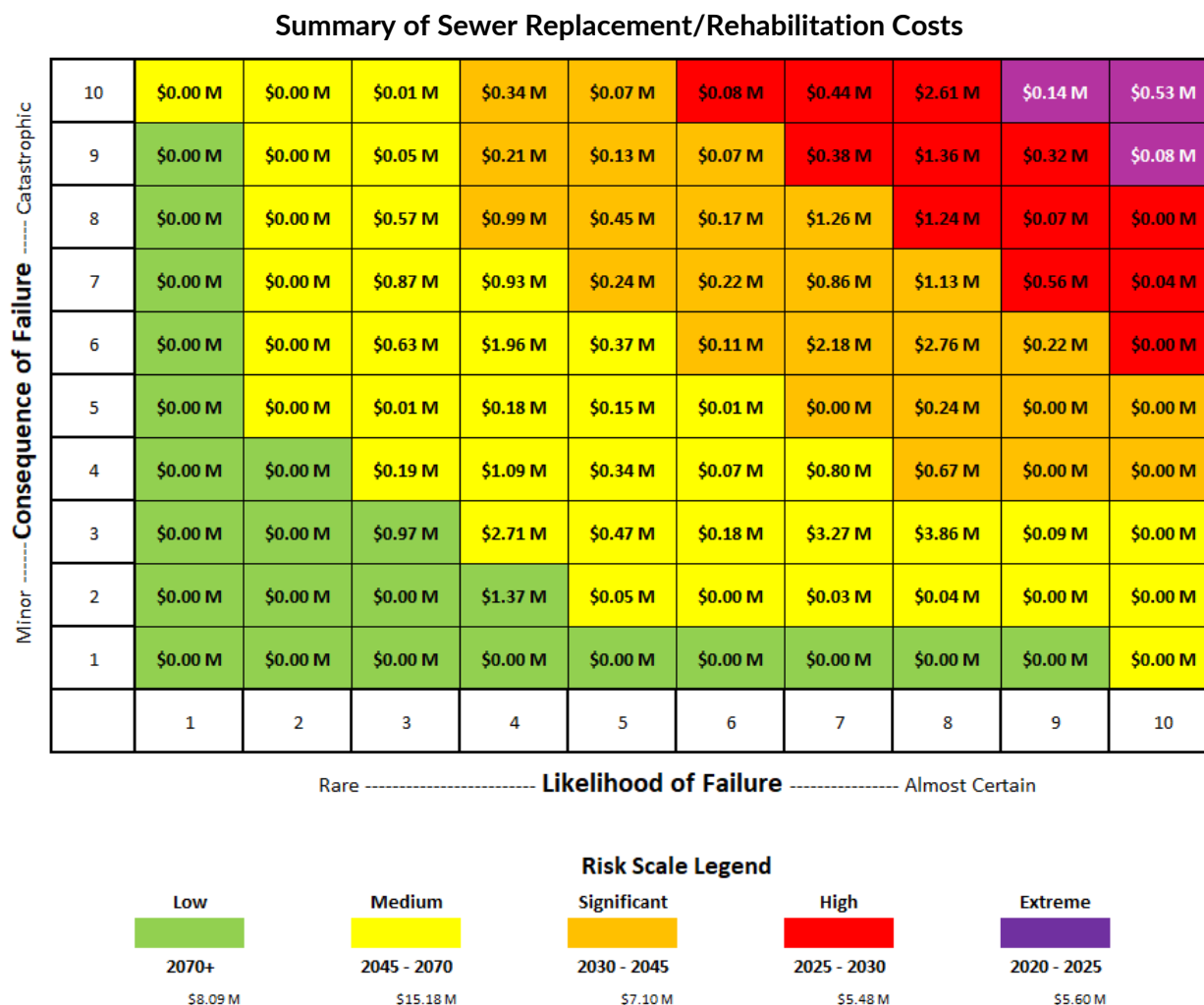


Figure 8. Summary of sewer replacement/rehabilitation with an 85% rehabilitation and 15% replacement weighted cost opinion.

6.2 Lift Station Improvements

Detailed lift station condition assessment was not included in this phase of asset management plan development. Condition assessment efforts to date have focused on the gravity collection system. Improved efforts in determining action items for lift stations can be made as the asset management plan and associated data mature over time. However, City knowledge indicates that the pump stations constructed in the 1970s and 1980s are all candidates for complete replacement due to normal wear and tear. These pump stations and approximate replacement costs are shown in **Table 6**.

Table 6. Priority lift stations for near-term consideration.

Lift Station Name	Capacity (GPM)	Approximate Replacement Cost	Construction/Rehab Year	Replacement Year
Clinchfield	200	\$380,000	1977	2020
Victory Drive	24	\$165,000	1977	2021
Clay Street	40	\$200,000	1978	2023
Baldor	125	\$275,000	1985	2024
Goodrum Drive	18	\$180,000	1978/2018	2026
Grayson Street	70	\$210,000	1978	2026
Spaulding Road	70	\$210,000	1977/2017	2025

6.3 Gravity Sewer Improvements

Based on input from City of Marion staff and the Risk Matrix scoring, the following projects are recommended for inclusion in the City of Marion CIP budget over the next 10 years. The locations for these projects are shown in **Appendix III**.

1. South Garden Street – \$223,000

This project involves replacing approximately 1,000 LF of existing undersized 6-inch VCP gravity sewer along South Garden Street with 8-inch sewer to bring the lines into compliance with current sewer design criteria and to address excessive inflow and infiltration in the area.

2. Marion Mills – \$483,000

This project involves rerouting an existing 10-inch gravity sewer line that currently passes directly under a building and through a cemetery along a 2,000 LF new alignment. The line under the building has partially collapsed and is preventing flow, resulting in backups & excessive inflow and infiltration.

3. East Court Street – \$1,086,000

This project will involve replacing approximately 4,200 LF of undersized, 8-inch gravity sewer. The existing gravity sewer carries flow from an 8-inch force main from the Clinchfield Pump Station. This has resulted to several SSOs and damages to businesses and private property. This project will increase the line size to 12 inches.

4. 221 Bypass – \$286,000

This project involves replacing approximately 1,300 LF of 8-inch gravity sewer line. The existing sewer line runs parallel to the creek bank and due to erosion and changes in the creek alignment,

the line is exposed in several places. This project will replace the existing line with 1,300 LF of new 8-inch DIP.

5. Morgan Street to Rutherford Road and South Main Street - \$311,000

This project approximately 1,400 LF of existing undersized 6-inch VCP gravity sewer along South Main Street and Morgan Street with 8-inch sewer to bring the lines into compliance with current sewer design criteria and to address excessive inflow and infiltration in the area.

6. Universal Building – \$438,000

This project involves replacing approximately 2,000 LF of 8-inch gravity sewer line. This line is generally in poor condition and is allowing excessive inflow and infiltration into the sewer system.

7. West Court/Logan Street Intersection – \$145,000

This project involves replacing one existing manhole in the intersection of East Court Street and Logan Street. The brick manhole in the center of the high-traffic intersection has lost structural integrity. The manhole and approximately 40 LF of each of the four pipes connected to the manhole need to be replaced.

8. Old Greenlee Road Aerial Sewer Crossing - \$1,046,000

This project involves replacing an existing aerial gravity sewer crossing that is approximately 20 years old. The crossing is an 8-inch line that is suspended above the Catawba River via concrete piers. It has been damaged numerous times during periods of high river level, resulting in wastewater discharges into the Catawba River. Most recently, this system was damaged by Hurricanes Florence and Michael. This project will investigate alternatives to the existing system, including relocation or elimination of the aerial crossing. The most practical approach appears to be the elimination of the aerial crossing through the construction of a new wastewater pump station and approximately 1,000 LF of new 4" force main under the Catawba River installed via horizontal directional drill that will connect to the existing gravity collection system downstream of the river crossing.

9. Cross Mill - \$1,035,000

This project involves rehabilitating approximately 4,000 LF of existing 8-inch VCP gravity sewer in the Cross Mill area with new 8-inch sewer line. The existing sewer in this area is in generally poor condition and is contributing a substantial amount of inflow and infiltration.

10. Clinchfield - \$845,000

This project involves replacing, and in some instances relocating, approximately 3,800 LF of existing 8-inch VCP gravity sewer with new 8-inch line. The existing system in this area is in generally poor condition and is contributing a substantial amount of inflow and infiltration. Additionally, a lot of the existing system runs through backyards, making normal maintenance on the system difficult because the system is difficult to access.

11. East Marion Mill Village - \$731,000

This project involves replacing, and in some instances relocating, approximately 3,300 LF of existing 8-inch VCP gravity sewer with new 8-inch line. The existing system in this area is in generally poor condition and is contributing a substantial amount of inflow and infiltration. Additionally, a lot of the existing system runs through backyards, making normal maintenance on the system difficult because the system is difficult to access.

6.4 Total CIP Estimates

The combination of sewer repairs/rehabilitation and lift station replacements results in the total CIP budget for the City of Marion for the next 10 years, as seen in **Table 7**.

Table 7. Detailed list of projects proposed for the first ten years.

Project Name	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Sewer Collection										
South Garden and South Main Street	\$223,000.00									
Marion Mills		\$483,000.00								
East Court Street			\$1,086,000.00							
221 Bypass				\$286,000.00						
Morgan Street to Rutherford Road and South Main Street					\$311,000.00					
Universal Building						\$438,000.00				
West Court/Logan Street Intersection							\$145,000.00			
Cross Mill								\$1,035,000.00		
Clinchfield									\$845,000.00	
East Marion Mill Village										\$731,000.00
Old Greenlee Road Aerial Sewer Crossing			\$1,046,000.00							
Lift Station										
Clinchfield	\$380,000.00									
Victory Drive		\$165,000.00								
Clay Street				\$200,000.00						
Baldor					\$275,000.00					
Goodrum Drive							\$180,000.00			
Grayson Street							\$210,000.00			
Spaulding Road						\$210,000.00				
CIP TOTAL	\$603,000.00	\$648,000.00	\$2,132,000.00	\$486,000.00	\$586,000.00	\$648,000.00	\$535,000.00	\$1,035,000.00	\$845,000.00	\$731,000.00

7 Operation and Maintenance (O&M) Plan

Operation and Maintenance for the City of Marion wastewater collection and treatment system focuses on upkeep of the gravity collection system, lift stations and force mains, and the wastewater treatment plant. Maintenance consists of “Emergency Maintenance,” which is corrective action needed quickly to keep the system operational, and “Preventative Maintenance,” which are routine, scheduled tasks in order to prevent problems before they arise. The items below represent routine maintenance items performed throughout the collection system.

7.1 Lift Station Maintenance

Routine Pump Station Inspection and Maintenance Program will include the following items:

- Inspecting, cleaning and removing debris from the pump station structure, outside perimeter and wet well.
- Inspecting and exercising all valves.
- Inspecting and lubricating pumps and other mechanical equipment.
- Verifying the proper operation of the alarms, telemetry system, and auxiliary equipment.
- Other testing procedures as recommended by the manufacturer.
- Annual flow meter calibration (at a minimum).
- NOTE: Pump stations not connected to telemetry systems must be inspected at least daily. Pump stations with telemetry must be inspected at least once per week.

In addition, a Pump Station Check List Form should be created and utilized for each inspection. The inspection form should cover the following items:

- Check wet well level periodically, more frequently when high flows expected or have occurred.
- Record hours of running time from elapsed time meters at least once per week and check for equal running times on each pump.
- Inspect control panel switches for proper positioning.
- Test alarms.
- Check valves for proper positioning.
 - Valves functioning, normally open valves are open, normally closed valves are closed.
- Confirm valve lever arms and weights are ok.
- Check for unusual pump noise or vibration.
- Check amp readings. Note discrepancies.
- Confirm pumps appear seated properly.
- Confirm no leakage observed.
- Confirm guide rails and brackets are aligned and fastened.
- Note any rust or loose parts.
- Confirm piping and valves not leaking, bolts and nuts are tight.
- Confirm any rusty parts have been replaced, cleaned, or painted.
- Record flow rate observed during site visit.

- Check and record pressure gauge readings during observed flow rate. Note any changes from normal readings.
- At least once per week, manually pump down the wet well to check for and remove debris.
- Inspect floats and transducer and cables and remove all debris to insure proper operation.
- Untangle twisted cables that may affect the automatic cycle operation.
- Check control settings.
- If a pump is removed, place the lead pump selector switch on the number of the pump remaining in operation.
- Inspect the pump hand/off/automatic selector switch. Turn to off. Fill up wet well with water until high water is activated. Turn to auto and check if both pumps operate automatically with slight delay between each. Pump until pump shuts off. Fill water until the lead pump starts. When the lead pump starts, shut off water. Allow pump to lower the wet well until the pump shuts off.
- Check pumps for blockage and any abnormalities in operation.
- Confirm generator is automatically exercising on schedule at start-up. Periodically manually throw main disconnect to check the Automatic Transfer Switch (ATS) and generator operation.
- Cut grass, pick up trash, remove debris, walk around perimeter, inspect fencing, landscaping, look for vandalism or evidence of trespassing/security concerns.

7.2 Wastewater Treatment Plant Maintenance

Preventative maintenance for the City's wastewater treatment plant will consist of a wide variety of tasks to keep the plant operational from day-to-day. The items below represent some of the major preventative maintenance items needed at the plant on an annual basis:

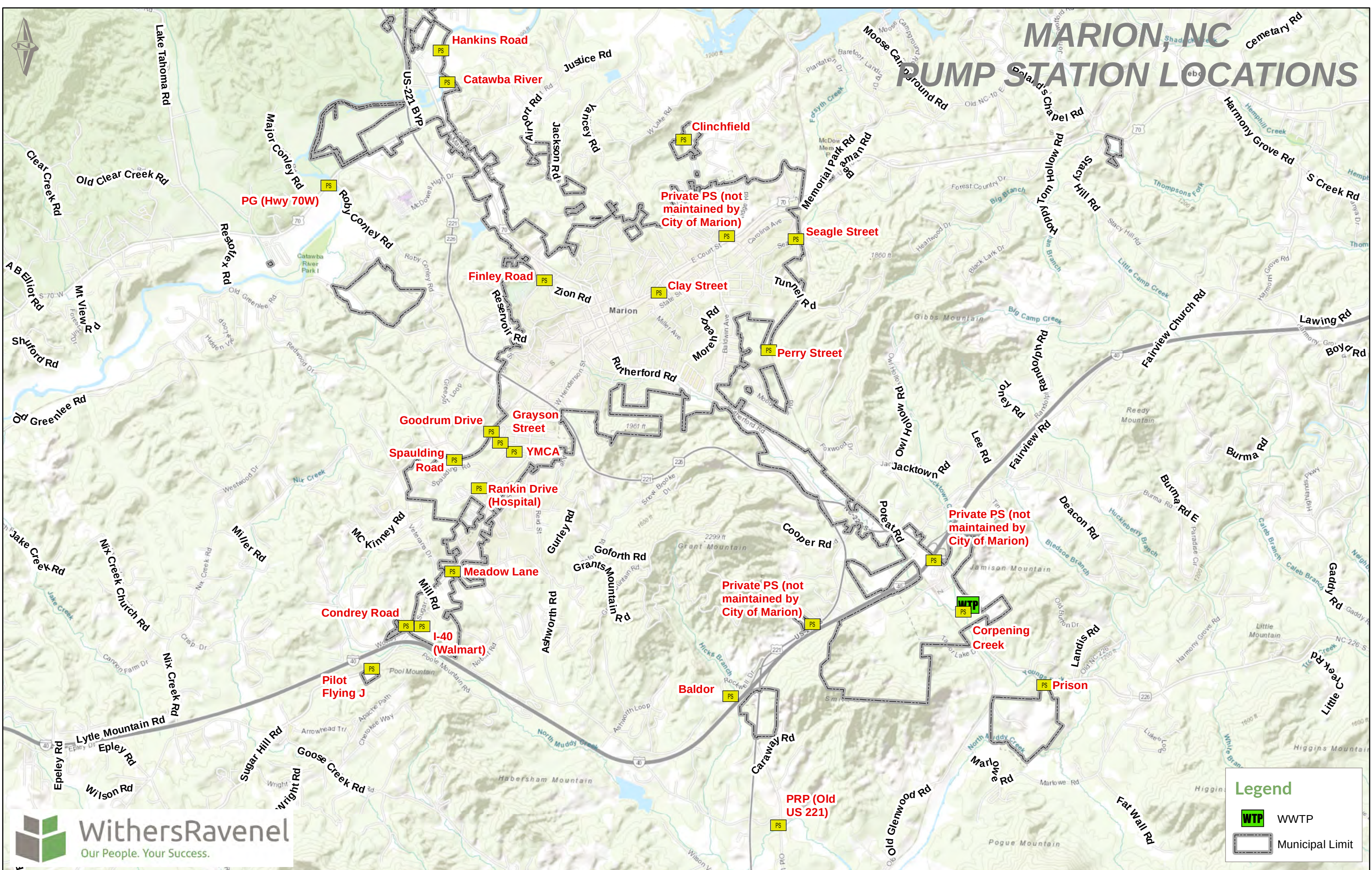
- Calibrate WWTP flow meters (annually)
- Perform pump maintenance based on manufacturer recommendations
- Drain, pressure wash, and visually inspect aeration basins (annually)
- Check secondary clarifier handrails for stability (annually)
- Drain, pressure wash, and visually inspect secondary clarifiers (annually)
- Inspect and perform maintenance on aerobic digesters (annually)
- Empty and clean sludge storage tanks (annually)

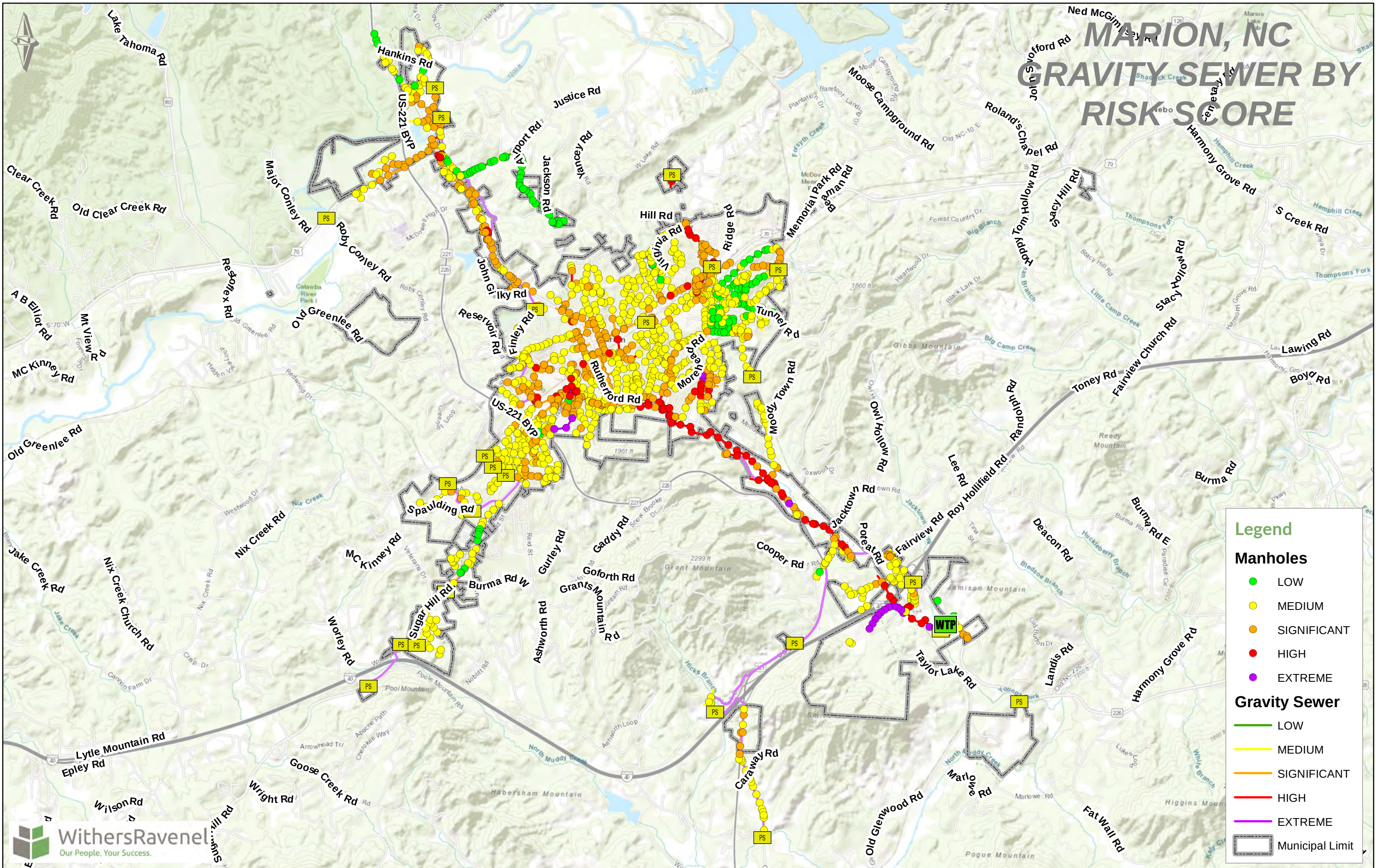
In addition, the items below represent some of the major maintenance items needed on a daily basis:

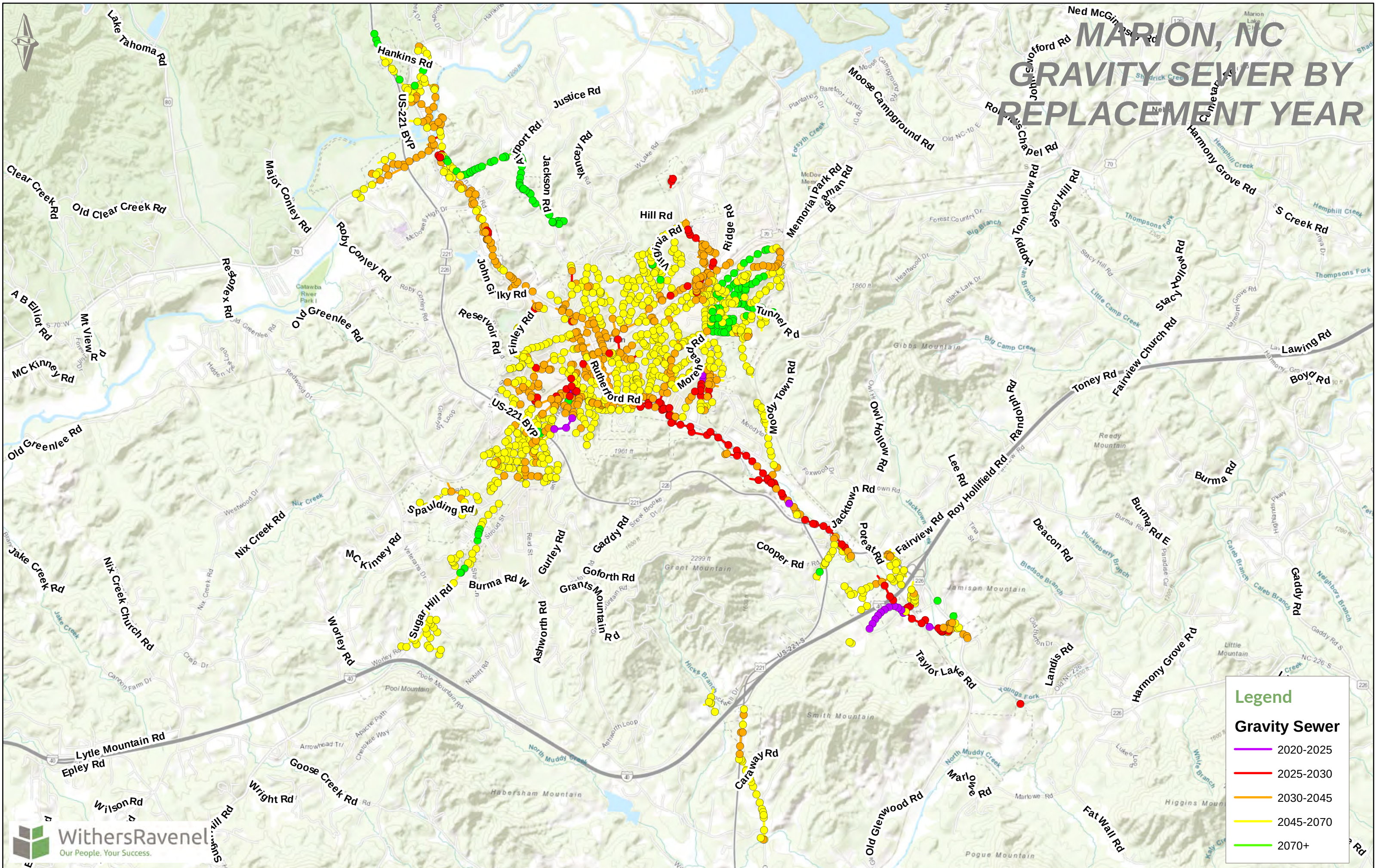
- Clean and inspect screens – perform repairs as needed
- Test valves on aeration basins
- Exercise valves to ensure proper operation
- Check disinfection chambers for leaks
- Inspect electrical control panels for defects and safety issues
- Check standby generator fuel and oil levels
- Inspect chemical feed pumps to ensure proper operation
- Perform walk-through of plant and visually inspect major treatment units
- Check recorder charts on flow meters

- Visually inspect airflow to nutrient removal basins
- Check sludge blanket on secondary clarifiers
- Check chemicals used and ensure storage areas are in good order
- Take grab samples as-needed of pH, dissolved oxygen, coliforms, etc.
- Visually inspect aerobic digesters
- Visually inspect sludge storage tanks
- Complete inspection checklists as required.

Appendix I – GIS Maps







MARION, NC

GRAVITY SEWER BY REPLACEMENT YEAR

Legend

Gravity Sewer

- 2020-2025
- 2025-2030
- 2030-2045
- 2045-2070
- 2070+



Appendix II – Lists of Sewer System Assets

MANHOLE ASSETS				
FACILITYID (WR CREATED)	INVERT OUT DIAMETER	YEAR INSTALLED	RISK SCORE	REPLACEMENT YEAR
WR0	6	1940	28	2045-2070
WR1	12	1980	36	2030-2045
WR2	6	1940	48	2030-2045
WR3	6	1940	49	2030-2045
WR4	6	1940	42	2030-2045
WR5	6	1940	24	2045-2070
WR6	6	1940	24	2045-2070
WR7	6	1940	24	2045-2070
WR8	6	1940	24	2045-2070
WR9	6	1940	42	2030-2045
WR10	8	1940	48	2030-2045
WR11	8	1940	48	2030-2045
WR12	8	1940	48	2030-2045
WR13	8	1940	49	2030-2045
WR14	8	1980	16	2045-2070
WR15	8	1940	24	2045-2070
WR16	8	1940	24	2045-2070
WR17	8	1940	42	2030-2045
WR18	8	1940	42	2030-2045
WR19	6	1940	21	2045-2070
WR20	6	1940	21	2045-2070
WR21	6	1940	24	2045-2070
WR22	6	1940	21	2045-2070
WR23	8	1940	21	2045-2070
WR24	8	1940	48	2030-2045
WR25	8	1940	24	2045-2070
WR26	8	1940	24	2045-2070
WR27	8	1940	24	2045-2070
WR28	8	1940	21	2045-2070
WR29	6	1940	24	2045-2070
WR30	6	1940	24	2045-2070
WR31	6	1940	24	2045-2070
WR32	8	1940	48	2030-2045
WR33	8	1940	42	2030-2045
WR34	8	1940	42	2030-2045
WR35	6	1940	42	2030-2045
WR36	6	1940	48	2030-2045
WR37	6	1940	48	2030-2045
WR38	6	1940	24	2045-2070
WR39	6	1940	24	2045-2070
WR40	6	1940	24	2045-2070
WR41	6	1940	21	2045-2070
WR42	8	1940	21	2045-2070
WR43	8	1980	12	2045-2070
WR44	8	1940	12	2045-2070
WR45	8	1940	24	2045-2070
WR46	6	1940	42	2030-2045

WR47	6	1940	42	2030-2045
WR48	6	1940	42	2030-2045
WR49	6	1940	42	2030-2045
WR50	6	1940	42	2030-2045
WR51	8	1940	56	2030-2045
WR52	6	1940	24	2045-2070
WR53	6	1940	24	2045-2070
WR54	8	1980	12	2045-2070
WR55	8	1980	35	2030-2045
WR56	8	1960	56	2030-2045
WR57	8	1980	35	2030-2045
WR58	8	1940	21	2045-2070
WR59	6	1940	24	2045-2070
WR60	8	1940	21	2045-2070
WR61	6	1980	16	2045-2070
WR62	8	1940	24	2045-2070
WR63	6	1940	21	2045-2070
WR64	8	1940	21	2045-2070
WR65	8	1940	24	2045-2070
WR66	10	1980	21	2045-2070
WR67	8	1980	24	2045-2070
WR68	12	1980	15	2045-2070
WR69	8	1940	24	2045-2070
WR70	15	1960	15	2045-2070
WR71	4	1940	12	2045-2070
WR72	12	1960	21	2045-2070
WR73	12	1960	21	2045-2070
WR74	6	1960	12	2045-2070
WR75	6	1940	24	2045-2070
WR76	6	1940	21	2045-2070
WR77	6	1940	24	2045-2070
WR78	6	1940	24	2045-2070
WR79	6	1940	24	2045-2070
WR80	6	1940	24	2045-2070
WR81	6	1940	21	2045-2070
WR82	8	1940	20	2045-2070
WR83	30	1940	56	2030-2045
WR84	8	1980	12	2045-2070
WR85	8	1980	12	2045-2070
WR86	8	1980	16	2045-2070
WR87	8	1980	24	2045-2070
WR88	8	1940	21	2045-2070
WR89	8	1940	21	2045-2070
WR90	30	1940	56	2030-2045
WR91	8	1940	56	2030-2045
WR92	8	1940	32	2030-2045
WR93	8	1940	16	2045-2070
WR94	8	1980	16	2045-2070
WR95	8	1940	24	2045-2070
WR96	8	1940	24	2045-2070

WR97	8	1940	24	2045-2070
WR98	8	1940	24	2045-2070
WR99	8	1940	24	2045-2070
WR100	8	1940	24	2045-2070
WR101	10	1940	32	2030-2045
WR102	30	1940	20	2045-2070
WR103	8	1940	56	2030-2045
WR104	30	1940	48	2030-2045
WR105	8	1940	21	2045-2070
WR106	4	1940	21	2045-2070
WR107	8	1940	24	2045-2070
WR108	8	1940	24	2045-2070
WR109	8	1940	21	2045-2070
WR110	8	1940	21	2045-2070
WR111	10	1940	25	2045-2070
WR112	30	1940	25	2045-2070
WR113	8	1940	40	2030-2045
WR114	10	1940	40	2030-2045
WR115	30	1940	40	2030-2045
WR116	8	1940	21	2045-2070
WR117	8	1940	24	2045-2070
WR118	8	1940	24	2045-2070
WR119	8	1940	28	2045-2070
WR120	8	1940	21	2045-2070
WR121	8	1940	42	2030-2045
WR122	8	1940	42	2030-2045
WR123	8	1940	28	2045-2070
WR124	8	1940	21	2045-2070
WR125	8	1940	80	2025-2030
WR126	8	1960	80	2025-2030
WR127	6	1940	56	2030-2045
WR128	8	1940	56	2030-2045
WR129	8	1940	32	2030-2045
WR130	6	1940	48	2030-2045
WR131	6	1940	48	2030-2045
WR132	8	1940	42	2030-2045
WR133	8	1940	24	2045-2070
WR134	6	1980	15	2045-2070
WR135	8	1940	21	2045-2070
WR136	8	1980	15	2045-2070
WR137	8	1940	21	2045-2070
WR138	8	1940	21	2045-2070
WR139	8	1940	21	2045-2070
WR140	6	1940	42	2030-2045
WR141	6	1940	42	2030-2045
WR142	6	1940	42	2030-2045
WR143	6	1940	48	2030-2045
WR144	12	1940	49	2030-2045
WR145	18	1940	49	2030-2045
WR146	6	1940	49	2030-2045

WR147	18	1920	100	2020-2025
WR148	20	1940	49	2030-2045
WR149	6	1940	49	2030-2045
WR150	8	1940	49	2030-2045
WR151	8	1940	48	2030-2045
WR152	8	1980	16	2045-2070
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WR156	8	1940	24	2045-2070
WR157	8	1940	24	2045-2070
WR158	8	1940	21	2045-2070
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WR160	8	1940	21	2045-2070
WR161	8	1940	21	2045-2070
WR162	8	1940	21	2045-2070
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WR173	8	1940	21	2045-2070
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WR184	8	1920	49	2030-2045
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WR189	6	1940	48	2030-2045
WR190	6	1940	32	2030-2045
WR191	6	1940	24	2045-2070
WR192	6	1940	24	2045-2070
WR193	6	1940	24	2045-2070
WR194	8	1940	32	2030-2045
WR195	8	1940	24	2045-2070
WR196	8	1940	24	2045-2070

WR197	8	1940	24	2045-2070
WR198	8	1940	16	2045-2070
WR199	8	1940	28	2045-2070
WR200	8	1940	21	2045-2070
WR201	8	1940	24	2045-2070
WR202	8	1980	12	2045-2070
WR203	8	1980	12	2045-2070
WR204	8	1980	12	2045-2070
WR205	8	1940	28	2045-2070
WR206	8	1940	28	2045-2070
WR207	8	1940	21	2045-2070
WR208	8	1940	48	2030-2045
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WR210	12	1940	48	2030-2045
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WR213	8	1980	12	2045-2070
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WR215	8	1980	12	2045-2070
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WR217	8	1980	12	2045-2070
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WR221	8	1940	24	2045-2070
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WR223	15	1940	49	2030-2045
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WR238	8	1980	12	2045-2070
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WR240	8	1980	12	2045-2070
WR241	8	1980	12	2045-2070
WR242	8	1980	12	2045-2070
WR243	8	1980	18	2045-2070
WR244	8	1980	12	2045-2070
WR245	8	1980	12	2045-2070
WR246	8	1980	12	2045-2070

WR247	8	1980	8	2070+
WR248	8	1980	8	2070+
WR249	8	1980	8	2070+
WR250	8	1980	8	2070+
WR251	8	1980	8	2070+
WR252	8	1980	16	2045-2070
WR253	8	1980	35	2030-2045
WR254	8	1980	24	2045-2070
WR255	8	1980	24	2045-2070
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WR258	8	1980	20	2045-2070
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WR260	8	1980	30	2045-2070
WR261	8	1980	32	2030-2045
WR262	8	1940	32	2030-2045
WR263	8	1980	12	2045-2070
WR264	8	1980	8	2070+
WR265	8	1980	8	2070+
WR266	8	1980	8	2070+
WR267	8	1980	8	2070+
WR268	8	1980	12	2045-2070
WR269	8	1980	12	2045-2070
WR270	8	1980	8	2070+
WR271	8	1980	8	2070+
WR272	8	1980	8	2070+
WR273	8	1980	8	2070+
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WR275	8	1980	12	2045-2070
WR276	8	1980	24	2045-2070
WR277	8	1980	20	2045-2070
WR278	8	1980	20	2045-2070
WR279	8	1980	12	2045-2070
WR280	8	1980	12	2045-2070
WR281	8	1980	8	2070+
WR282	8	1980	8	2070+
WR283	8	1980	8	2070+
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WR285	8	1960	36	2030-2045
WR286	8	1960	36	2030-2045
WR287	8	1960	42	2030-2045
WR288	8	1960	42	2030-2045
WR289	8	1980	12	2045-2070
WR290	8	1980	16	2045-2070
WR291	8	1980	12	2045-2070
WR292	8	1980	12	2045-2070
WR293	8	1980	8	2070+
WR294	8	1980	12	2045-2070
WR295	8	1980	12	2045-2070
WR296	8	1980	12	2045-2070

WR297	8	1980	24	2045-2070
WR298	8	1980	24	2045-2070
WR299	8	1980	24	2045-2070
WR300	8	1980	24	2045-2070
WR301	8	1980	24	2045-2070
WR302	8	1960	42	2030-2045
WR303	8	1980	14	2045-2070
WR304	8	1980	8	2070+
WR305	8	1980	8	2070+
WR306	8	1980	8	2070+
WR307	8	1980	12	2045-2070
WR308	8	1960	14	2045-2070
WR309	8	1980	12	2045-2070
WR310	8	1980	12	2045-2070
WR311	8	1980	8	2070+
WR312	8	1980	8	2070+
WR313	8	1980	8	2070+
WR314	8	1980	12	2045-2070
WR315	8	1980	8	2070+
WR316	8	1980	8	2070+
WR317	8	1980	8	2070+
WR318	8	1980	8	2070+
WR319	8	1980	8	2070+
WR320	8	1980	24	2045-2070
WR321	8	1980	24	2045-2070
WR322	8	1980	32	2030-2045
WR323	8	1980	32	2030-2045
WR324	8	1980	32	2030-2045
WR325	8	1980	45	2030-2045
WR326	8	1980	45	2030-2045
WR327	8	1980	8	2070+
WR328	8	1980	8	2070+
WR329	8	1980	8	2070+
WR330	8	1980	8	2070+
WR331	8	1980	8	2070+
WR332	8	1980	8	2070+
WR333	8	1980	8	2070+
WR334	8	1980	8	2070+
WR335	8	1980	8	2070+
WR336	8	1980	8	2070+
WR337	8	1980	8	2070+
WR338	8	1980	12	2045-2070
WR339	8	1980	12	2045-2070
WR340	8	1980	8	2070+
WR341	8	1980	8	2070+
WR342	8	1980	8	2070+
WR343	8	1980	12	2045-2070
WR344	8	1980	8	2070+
WR345	8	1980	8	2070+
WR346	8	1980	28	2045-2070

WR347	8	1980	24	2045-2070
WR348	8	1980	24	2045-2070
WR349	8	1980	24	2045-2070
WR350	8	1980	24	2045-2070
WR351	8	1940	21	2045-2070
WR352	8	1940	21	2045-2070
WR353	8	1940	21	2045-2070
WR354	8	1940	49	2030-2045
WR355	8	1940	21	2045-2070
WR356	8	1940	32	2030-2045
WR357	8	1940	24	2045-2070
WR358	8	1940	24	2045-2070
WR359	8	1940	28	2045-2070
WR360	8	1940	21	2045-2070
WR361	8	1940	12	2045-2070
WR362	6	1980	12	2045-2070
WR363	8	1940	24	2045-2070
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WR365	6	1940	24	2045-2070
WR366	8	1940	42	2030-2045
WR367	8	1980	24	2045-2070
WR368	8	1980	24	2045-2070
WR369	8	1980	24	2045-2070
WR370	8	1980	24	2045-2070
WR371	8	1960	56	2030-2045
WR372	8	1980	8	2070+
WR373	8	1980	8	2070+
WR374	8	1980	8	2070+
WR375	6	1980	16	2045-2070
WR376	6	1940	21	2045-2070
WR377	6	1940	24	2045-2070
WR378	6	1940	24	2045-2070
WR379	8	1940	28	2045-2070
WR380	6	1940	24	2045-2070
WR381	6	1940	21	2045-2070
WR382	6	1980	16	2045-2070
WR383	8	1920	90	2020-2025
WR384	8	1960	80	2025-2030
WR385	8	1940	64	2025-2030
WR386	8	1940	56	2030-2045
WR387	8	1940	56	2030-2045
WR388	8	1940	56	2030-2045
WR389	8	1940	56	2030-2045
WR390	8	1940	80	2025-2030
WR391	8	1920	90	2020-2025
WR392	8	2003	40	2030-2045
WR393	6	1940	24	2045-2070
WR394	6	1940	28	2045-2070
WR395	8	1940	28	2045-2070
WR396	8	1940	64	2025-2030

WR397	6	1940	21	2045-2070
WR398	6	1940	42	2030-2045
WR399	8	1940	49	2030-2045
WR400	8	1940	49	2030-2045
WR401	8	1940	80	2025-2030
WR402	8	1980	24	2045-2070
WR403	8	1980	24	2045-2070
WR404	8	1980	24	2045-2070
WR405	8	1980	8	2070+
WR406	8	1980	8	2070+
WR407	8	1980	8	2070+
WR408	8	1980	8	2070+
WR409	8	1980	24	2045-2070
WR410	8	1980	12	2045-2070
WR411	8	2012	18	2045-2070
WR412	8	2012	18	2045-2070
WR413	8	2012	27	2045-2070
WR414	8	2012	18	2045-2070
WR415	8	2012	18	2045-2070
WR416	8	1980	12	2045-2070
WR417	8	1980	8	2070+
WR418	8	1980	8	2070+
WR419	8	2012	8	2070+
WR420	8	1980	24	2045-2070
WR421	8	1980	24	2045-2070
WR422	8	1980	28	2045-2070
WR423	8	1980	28	2045-2070
WR424	8	1980	24	2045-2070
WR425	8	1980	30	2045-2070
WR426	8	1940	42	2030-2045
WR427	6	1940	21	2045-2070
WR428	6	1940	42	2030-2045
WR429	8	1940	42	2030-2045
WR430	6	1940	32	2030-2045
WR431	6	1940	21	2045-2070
WR432	6	1940	21	2045-2070
WR433	6	1940	21	2045-2070
WR434	6	1940	21	2045-2070
WR435	8	1940	24	2045-2070
WR436	6	1940	21	2045-2070
WR437	8	1940	24	2045-2070
WR438	8	1940	24	2045-2070
WR439	8	1940	21	2045-2070
WR440	6	1940	21	2045-2070
WR441	6	1940	21	2045-2070
WR442	6	1940	21	2045-2070
WR443	6	1940	21	2045-2070
WR444	6	1940	24	2045-2070
WR445	6	1940	24	2045-2070
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WR447	6	1940	21	2045-2070
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WR492	8	1940	48	2030-2045
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WR494	6	1940	28	2045-2070
WR495	8	1960	42	2030-2045
WR496	8	1960	42	2030-2045

WR497	8	1960	42	2030-2045
WR498	8	1960	42	2030-2045
WR499	12	1960	42	2030-2045
WR500	12	1960	36	2030-2045
WR501	12	1960	36	2030-2045
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WR505	8	1960	36	2030-2045
WR506	8	1960	42	2030-2045
WR507	12	1960	42	2030-2045
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WR533	8	1940	42	2030-2045
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WR542	8	1980	12	2045-2070
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WR544	8	1980	12	2045-2070
WR545	8	1980	12	2045-2070
WR546	8	1980	16	2045-2070

WR547	8	1960	28	2045-2070
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WR549	8	1980	12	2045-2070
WR550	8	1980	12	2045-2070
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WR563	6	1920	72	2025-2030
WR564	8	1940	42	2030-2045
WR565	8	1940	56	2030-2045
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WR569	8	1940	28	2045-2070
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WR577	8	1940	21	2045-2070
WR578	8	1940	24	2045-2070
WR579	8	1940	21	2045-2070
WR580	18	1920	63	2025-2030
WR581	18	1920	63	2025-2030
WR582	18	1920	63	2025-2030
WR583	18	1940	56	2030-2045
WR584	8	1940	48	2030-2045
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WR592	4	1940	28	2045-2070
WR593	6	1980	24	2045-2070
WR594	4	1980	28	2045-2070
WR595	8	1920	72	2025-2030
WR596	12	1980	72	2025-2030

WR597	12	1940	72	2025-2030
WR598	12	1940	24	2045-2070
WR599	15	1940	32	2030-2045
WR600	8	1940	42	2030-2045
WR601	8	1940	42	2030-2045
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WR606	8	1960	42	2030-2045
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WR619	8	1980	16	2045-2070
WR620	8	1980	12	2045-2070
WR621	8	1980	12	2045-2070
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WR623	8	1980	12	2045-2070
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WR625	8	1980	12	2045-2070
WR626	12	1980	36	2030-2045
WR627	12	1960	56	2030-2045
WR628	8	2009	24	2045-2070
WR629	8	2009	24	2045-2070
WR630	8	2009	30	2045-2070
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WR632	8	2009	28	2045-2070
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WR640	12	1988	24	2045-2070
WR641	12	1988	24	2045-2070
WR642	12	1988	24	2045-2070
WR643	12	1988	24	2045-2070
WR644	8	1980	63	2025-2030
WR645	30	1940	80	2025-2030
WR646	15	1920	81	2025-2030

WR647	15	1940	42	2030-2045
WR648	15	1960	48	2030-2045
WR649	8	1980	16	2045-2070
WR650	12	1994	25	2045-2070
WR651	12	1994	20	2045-2070
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WR655	8	1940	21	2045-2070
WR656	8	1940	24	2045-2070
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WR664	18	1940	24	2045-2070
WR665	8	1940	24	2045-2070
WR666	15	2002	24	2045-2070
WR667	8	2002	24	2045-2070
WR668	8	2002	24	2045-2070
WR669	8	2002	24	2045-2070
WR670	12	2002	24	2045-2070
WR671	12	1988	24	2045-2070
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WR682	8	1940	24	2045-2070
WR683	8	1940	24	2045-2070
WR684	8	1940	21	2045-2070
WR685	10	1940	32	2030-2045
WR686	10	1940	32	2030-2045
WR687	8	1940	21	2045-2070
WR688	8	1946	20	2045-2070
WR689	6	2003	21	2045-2070
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WR692	8	2003	21	2045-2070
WR693	8	2003	21	2045-2070
WR694	8	2003	21	2045-2070
WR695	8	1940	63	2025-2030
WR696	8	2003	21	2045-2070

WR697	8	2003	21	2045-2070
WR698	18	1940	27	2045-2070
WR699	8	1940	49	2030-2045
WR700	8	1940	49	2030-2045
WR701	12	1940	49	2030-2045
WR702	12	1940	49	2030-2045
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WR705	12	1940	56	2030-2045
WR706	12	1940	49	2030-2045
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WR718	8	1940	64	2025-2030
WR719	8	1920	81	2025-2030
WR720	8	1920	81	2025-2030
WR721	18	1920	100	2020-2025
WR722	8	2003	21	2045-2070
WR723	8	2003	21	2045-2070
WR724	4	2003	21	2045-2070
WR725	8	2003	21	2045-2070
WR726	8	2003	21	2045-2070
WR727	8	2003	21	2045-2070
WR728	8	2003	40	2030-2045
WR729	8	2003	40	2030-2045
WR730	8	2003	35	2030-2045
WR731	8	2003	30	2045-2070
WR732	8	2003	24	2045-2070
WR733	8	2003	30	2045-2070
WR734	8	2003	32	2030-2045
WR735	8	2003	21	2045-2070
WR736	8	2003	18	2045-2070
WR737	8	1980	28	2045-2070
WR738	8	1980	28	2045-2070
WR739	12	1940	21	2045-2070
WR740	30	1940	64	2025-2030
WR741	30	1940	64	2025-2030
WR742	30	1940	48	2030-2045
WR743	10	1960	48	2030-2045
WR744	10	1980	24	2045-2070
WR745	10	1980	12	2045-2070
WR746	10	1980	12	2045-2070

WR747	8	1980	21	2045-2070
WR748	8	2003	21	2045-2070
WR749	8	2003	21	2045-2070
WR750	8	2003	20	2045-2070
WR751	8	2003	20	2045-2070
WR752	8	2003	20	2045-2070
WR753	8	2003	24	2045-2070
WR754	8	2003	36	2030-2045
WR755	8	2003	30	2045-2070
WR756	8	2003	24	2045-2070
WR757	8	2003	18	2045-2070
WR758	8	2003	18	2045-2070
WR759	8	2003	18	2045-2070
WR760	8	2003	40	2030-2045
WR761	8	2003	18	2045-2070
WR762	8	2003	18	2045-2070
WR763	8	2003	35	2030-2045
WR764	8	2003	35	2030-2045
WR765	8	2009	18	2045-2070
WR766	8	2009	18	2045-2070
WR767	8	2009	24	2045-2070
WR768	8	2012	21	2045-2070
WR769	8	2009	21	2045-2070
WR770	8	2012	18	2045-2070
WR771	8	2009	21	2045-2070
WR772	12	2009	24	2045-2070
WR773	12	2012	24	2045-2070
WR774	12	2009	24	2045-2070
WR775	12	2009	21	2045-2070
WR776	12	2009	21	2045-2070
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WR778	12	2009	21	2045-2070
WR779	10	2009	21	2045-2070
WR780	12	2009	21	2045-2070
WR781	12	2009	21	2045-2070
WR782	8	2009	21	2045-2070
WR783	8	2009	21	2045-2070
WR784	8	2009	24	2045-2070
WR785	12	2009	24	2045-2070
WR786	12	2009	21	2045-2070
WR787	12	2009	18	2045-2070
WR788	12	2012	18	2045-2070
WR789	12	2012	18	2045-2070
WR790	8	2012	9	2070+
WR791	12	2012	18	2045-2070
WR792	12	1980	12	2045-2070
WR793	12	1980	16	2045-2070
WR794	12	1980	16	2045-2070
WR795	12	1980	12	2045-2070
WR796	12	1980	12	2045-2070

WR797	18	1980	16	2045-2070
WR798	8	1980	32	2030-2045
WR799	15	1980	28	2045-2070
WR800	15	1980	28	2045-2070
WR801	15	1980	24	2045-2070
WR802	15	1980	24	2045-2070
WR803	15	1980	28	2045-2070
WR804	15	1980	28	2045-2070
WR805	8	1980	28	2045-2070
WR806	15	2001	21	2045-2070
WR807	12	2001	40	2030-2045
WR808	15	2001	18	2045-2070
WR809	12	1980	40	2030-2045
WR810	8	1980	40	2030-2045
WR811	8	1980	40	2030-2045
WR812	8	1980	32	2030-2045
WR813	8	2009	27	2045-2070
WR814	8	1980	36	2030-2045
WR815	8	2009	35	2030-2045
WR816	8	2009	40	2030-2045
WR817	8	2009	40	2030-2045
WR818	8	2009	24	2045-2070
WR819	8	2009	24	2045-2070
WR820	8	2009	16	2045-2070
WR821	8	2009	12	2045-2070
WR822	12	2009	24	2045-2070
WR823	12	2009	21	2045-2070
WR824	8	2009	21	2045-2070
WR825	8	2009	24	2045-2070
WR826	8	2009	24	2045-2070
WR827	8	2009	18	2045-2070
WR828	8	2009	18	2045-2070
WR829	8	2009	15	2045-2070
WR830	8	2009	24	2045-2070
WR831	8	2009	24	2045-2070
WR832	8	2009	24	2045-2070
WR833	8	2009	9	2070+
WR834	8	2009	8	2070+
WR835	8	2009	8	2070+
WR836	8	1988	28	2045-2070
WR837	8	1988	28	2045-2070
WR838	8	1988	32	2030-2045
WR839	8	1988	28	2045-2070
WR840	8	1988	28	2045-2070
WR841	8	2001	18	2045-2070
WR842	8	2001	18	2045-2070
WR843	8	2001	24	2045-2070
WR844	15	2001	24	2045-2070
WR845	8	2001	18	2045-2070
WR846	8	1980	28	2045-2070

WR847	8	1980	28	2045-2070
WR848	8	1960	42	2030-2045
WR849	8	1988	42	2030-2045
WR850	8	1980	28	2045-2070
WR851	8	1980	35	2030-2045
WR852	8	1960	42	2030-2045
WR853	8	1960	28	2045-2070
WR854	8	1960	42	2030-2045
WR855	8	1960	42	2030-2045
WR856	12	1980	32	2030-2045
WR857	12	1960	56	2030-2045
WR858	6	1980	16	2045-2070
WR859	12	1980	32	2030-2045
WR860	8	1980	16	2045-2070
WR861	8	1980	16	2045-2070
WR862	12	1980	12	2045-2070
WR863	12	1980	12	2045-2070
WR864	6	1940	56	2030-2045
WR865	6	1940	56	2030-2045
WR866	6	1940	56	2030-2045
WR867	8	1940	80	2025-2030
WR868	8	2017	9	2070+
WR869	8	2017	9	2070+
WR870	8	2017	9	2070+
WR871	8	2017	9	2070+
WR872	8	2017	9	2070+
WR873	8	2017	9	2070+
WR874	8	2017	9	2070+
WR875	8	2017	9	2070+
WR876	8	2017	9	2070+
WR877	8	2017	9	2070+
WR878	8	2017	9	2070+
WR879	8	2017	9	2070+
WR880	8	2017	9	2070+
WR881	8	2017	9	2070+
WR882	8	2017	9	2070+
WR883	8	2017	9	2070+
WR884	8	2017	9	2070+
WR885	8	2017	9	2070+
WR886	8	2017	9	2070+
WR887	8	2017	9	2070+
WR888	8	2017	9	2070+
WR889	8	2017	9	2070+
WR890	12	2017	9	2070+
WR891	12	2017	9	2070+
WR892	12	2017	9	2070+
WR893	8	2017	9	2070+
WR894	8	2017	9	2070+
WR895	8	2017	9	2070+
WR896	8	2017	9	2070+

WR897	8	2017	12	2045-2070
WR898	8	2017	12	2045-2070
WR899	8	2017	9	2070+
WR900	8	2017	12	2045-2070
WR901	8	2017	9	2070+
WR902	8	2017	9	2070+
WR903	8	2017	9	2070+
WR904	8	2017	9	2070+
WR905	8	2017	9	2070+
WR906	8	2017	9	2070+
WR907	8	2017	9	2070+
WR908	8	2017	9	2070+
WR909	8	2017	9	2070+
WR910	8	2017	9	2070+
WR911	8	2017	9	2070+
WR912	8	2017	9	2070+
WR913	8	2009	24	2045-2070
WR914	12	1980	56	2030-2045
WR915	15	1960	56	2030-2045
WR916	15	1960	36	2030-2045
WR917	8	1988	63	2025-2030
WR918	8	2017	12	2045-2070
WR919	8	2017	9	2070+
WR920	15	1988	24	2045-2070
WR921	15	1988	45	2030-2045
WR922	15	1988	45	2030-2045
WR923	12	1988	40	2030-2045
WR924	15	1960	16	2045-2070
WR925	8	1940	42	2030-2045
WR926	18	1920	90	2020-2025
WR927	8	2003	40	2030-2045
WR928	8	2003	16	2045-2070
WR929	8	2003	20	2045-2070
WR930	8	2003	20	2045-2070
WR931	8	2003	24	2045-2070
WR932	8	2003	24	2045-2070
WR933	6	2003	21	2045-2070
WR934	8	2003	21	2045-2070
WR935	8	2003	24	2045-2070
WR936	8	2003	24	2045-2070
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WR938	8	2003	24	2045-2070
WR939	8	2003	24	2045-2070
WR940	8	2003	18	2045-2070
WR941	12	1994	20	2045-2070
WR942	12	1994	20	2045-2070
WR943	8	1980	8	2070+
WR944	8	1960	21	2045-2070
WR945	8	1980	21	2045-2070
WR946	10	1980	12	2045-2070

WR947	10	1980	12	2045-2070
WR948	30	1940	72	2025-2030
WR949	30	1940	72	2025-2030
WR950	8	1940	72	2025-2030
WR951	30	1940	72	2025-2030
WR952	30	1940	80	2025-2030
WR953	30	1960	48	2030-2045
WR954	8	1940	48	2030-2045
WR955	30	1940	48	2030-2045
WR956	30	1940	72	2025-2030
WR957	30	1940	80	2025-2030
WR958	30	1980	63	2025-2030
WR959	30	1960	63	2025-2030
WR960	8	1980	32	2030-2045
WR961	8	1980	40	2030-2045
WR962	8	1980	24	2045-2070
WR963	8	1980	25	2045-2070
WR964	8	1920	48	2030-2045
WR965	8	1920	90	2020-2025
WR966	8	1980	28	2045-2070
WR967	12	1940	20	2045-2070
WR968	30	1980	20	2045-2070
WR969	8	1960	40	2030-2045
WR970	8	1980	28	2045-2070
WR971	8	1980	24	2045-2070
WR972	8	1980	24	2045-2070
WR973	8	1980	30	2045-2070
WR974	8	1980	30	2045-2070
WR975	8	1980	20	2045-2070
WR976	8	1980	30	2045-2070
WR977	8	1980	24	2045-2070
WR978	8	1980	30	2045-2070
WR979	8	2003	21	2045-2070
WR980	8	2003	21	2045-2070
WR981	6	1940	56	2030-2045
WR982	6	2003	21	2045-2070
WR983	8	1920	63	2025-2030
WR984	30	2003	27	2045-2070
WR985	8	2003	21	2045-2070
WR986	8	2003	21	2045-2070
WR987	8	2003	30	2045-2070
WR988	8	2003	35	2030-2045
WR989	8	2009	9	2070+
WR990	6	2009	12	2045-2070
WR991	8	2009	12	2045-2070
WR992	8	2009	15	2045-2070
WR993	8	1940	40	2030-2045
WR994	8	2009	9	2070+
WR995	8	2009	9	2070+
WR996	8	2009	35	2030-2045

WR997	8	2009	35	2030-2045
WR998	8	2009	30	2045-2070
WR999	8	2009	21	2045-2070
WR1000	6	2009	16	2045-2070
WR1001	8	2009	8	2070+
WR1002	8	2009	8	2070+
WR1003	8	2009	21	2045-2070
WR1004	8	2009	21	2045-2070
WR1005	8	2009	27	2045-2070
WR1006	8	1980	32	2030-2045
WR1007	8	1980	36	2030-2045
WR1008	8	1980	36	2030-2045
WR1009	8	1960	56	2030-2045
WR1010	8	1980	16	2045-2070
WR1011	8	1980	28	2045-2070
WR1012	8	1960	32	2030-2045
WR1013	8	1980	32	2030-2045
WR1014	8	1980	28	2045-2070
WR1015	8	2009	35	2030-2045
WR1016	10	2003	9	2070+
WR1017	12	2003	64	2025-2030
WR1018	12	1940	64	2025-2030
WR1019	12	1940	49	2030-2045
WR1020	8	1940	15	2045-2070
WR1021	8	2003	15	2045-2070
WR1022	8	1940	21	2045-2070
WR1023	8	2003	9	2070+
WR1024	8	1988	16	2045-2070
WR1025	12	1988	40	2030-2045
WR1026	6	1988	40	2030-2045
WR1027	12	1980	32	2030-2045
WR1028	6	1980	24	2045-2070
WR1029	8	1980	28	2045-2070
WR1030	8	2003	40	2030-2045
WR1031	8	2003	24	2045-2070
WR1032	8	2003	24	2045-2070
WR1033	8	2003	30	2045-2070
WR1034	8	2003	18	2045-2070
WR1035	8	2003	18	2045-2070
WR1036	8	2003	45	2030-2045
WR1037	12	2003	21	2045-2070
WR1038	8	2009	12	2045-2070
WR1039	8	1940	49	2030-2045
WR1040	8	1940	56	2030-2045
WR1041	15	2017	12	2045-2070
WR1042	18	1940	12	2045-2070
WR1043	8	1988	63	2025-2030
WR1044	8	1940	63	2025-2030
WR1045	8	2017	9	2070+
WR1046	8	2017	12	2045-2070

WR1047	8	1988	28	2045-2070
WR1048	8	1988	24	2045-2070
WR1049	8	1988	42	2030-2045
WR1050	12	1988	24	2045-2070
WR1051	12	1988	32	2030-2045
WR1052	8	1988	40	2030-2045
WR1053	8	1988	15	2045-2070
WR1054	8	1988	24	2045-2070
WR1055	8	1988	36	2030-2045
WR1056	12	1988	24	2045-2070
WR1057	8	1960	42	2030-2045
WR1058	8	1960	42	2030-2045
WR1059	8	1960	60	2025-2030
WR1060	8	1960	60	2025-2030
WR1061	8	2017	9	2070+
WR1062	8	2017	9	2070+
WR1063	12	1960	36	2030-2045
WR1064	12	1960	32	2030-2045
WR1065	15	1940	56	2030-2045
WR1066	6	1940	42	2030-2045
WR1067	30	1940	80	2025-2030
WR1068	8	1980	30	2045-2070
WR1069	8	1980	24	2045-2070
WR1070	8	1980	30	2045-2070
WR1071	8	1980	30	2045-2070
WR1072	8	1940	24	2045-2070
WR1073	8	1940	24	2045-2070
WR1074	8	1980	16	2045-2070
WR1075	8	1940	24	2045-2070
WR1076	6	1980	12	2045-2070
WR1077	30	1940	56	2030-2045
WR1078	15	1940	48	2030-2045
WR1079	8	1940	20	2045-2070
WR1080	12	1980	20	2045-2070
WR1081	30	1940	48	2030-2045
WR1082	8	1940	48	2030-2045
WR1083	8	1940	48	2030-2045
WR1084	8	1940	28	2045-2070
WR1085	8	1940	24	2045-2070
WR1086	8	1980	16	2045-2070
WR1087	30	1920	100	2020-2025
WR1088	30	1940	48	2030-2045
WR1089	8	1940	32	2030-2045
WR1090	8	1946	20	2045-2070
WR1091	8	1940	32	2030-2045
WR1092	8	1940	24	2045-2070
WR1093	8	1940	24	2045-2070
WR1094	8	1940	24	2045-2070
WR1095	8	1940	24	2045-2070
WR1096	8	1940	32	2030-2045

WR1097	8	1940	12	2045-2070
WR1098	8	1960	70	2025-2030
WR1099	8	1940	56	2030-2045
WR1100	8	1940	48	2030-2045
WR1101	8	1940	24	2045-2070
WR1102	8	1940	24	2045-2070
WR1103	8	1940	24	2045-2070
WR1104	8	1940	21	2045-2070
WR1105	8	1940	28	2045-2070
WR1106	8	1940	24	2045-2070
WR1107	8	1940	21	2045-2070
WR1108	6	1940	49	2030-2045
WR1109	8	1960	49	2030-2045
WR1110	8	1960	49	2030-2045
WR1111	8	1940	8	2070+
WR1112	8	1940	56	2030-2045
WR1113	8	1940	56	2030-2045
WR1114	8	1940	56	2030-2045
WR1115	8	1940	56	2030-2045
WR1116	8	1940	56	2030-2045
WR1117	8	1980	28	2045-2070
WR1118	8	1940	24	2045-2070
WR1119	18	1940	64	2025-2030
WR1120	8	1940	48	2030-2045
WR1121	8	1940	24	2045-2070
WR1122	8	1940	24	2045-2070
WR1123	8	1940	32	2030-2045
WR1124	8	1940	24	2045-2070
WR1125	8	1940	24	2045-2070
WR1126	8	1940	8	2070+
WR1127	8	1980	8	2070+
WR1128	8	1940	24	2045-2070
WR1129	8	1940	24	2045-2070
WR1130	8	1940	24	2045-2070
WR1131	8	1940	24	2045-2070
WR1132	8	1940	24	2045-2070
WR1133	8	1940	24	2045-2070
WR1134	8	1940	24	2045-2070
WR1135	8	1940	21	2045-2070
WR1136	8	1940	48	2030-2045
WR1137	8	1940	42	2030-2045
WR1138	8	1940	48	2030-2045
WR1139	8	1940	42	2030-2045
WR1140	8	1940	42	2030-2045
WR1141	8	1940	16	2045-2070
WR1142	8	1980	12	2045-2070
WR1143	8	1980	12	2045-2070
WR1144	8	1920	63	2025-2030
WR1145	6	1980	12	2045-2070
WR1146	8	1940	24	2045-2070

WR1147	8	1980	12	2045-2070
WR1148	8	1980	12	2045-2070
WR1149	8	1980	12	2045-2070
WR1150	8	1940	48	2030-2045
WR1151	8	1940	80	2025-2030
WR1152	8	1940	21	2045-2070
WR1153	8	1940	21	2045-2070
WR1154	8	1940	24	2045-2070
WR1155	8	1980	30	2045-2070
WR1156	8	1940	24	2045-2070
WR1157	8	1980	16	2045-2070
WR1158	6	1980	24	2045-2070
WR1159	8	1940	24	2045-2070
WR1160	6	1940	21	2045-2070
WR1161	8	1980	12	2045-2070
WR1162	8	1940	21	2045-2070
WR1163	8	1940	24	2045-2070
WR1164	6	1940	49	2030-2045
WR1165	8	1940	21	2045-2070
WR1166	8	1940	24	2045-2070
WR1167	8	1940	21	2045-2070
WR1168	8	1940	56	2030-2045
WR1169	8	1940	24	2045-2070
WR1170	8	1940	24	2045-2070
WR1171	8	1940	32	2030-2045
WR1172	8	1940	32	2030-2045
WR1173	8	1940	24	2045-2070
WR1174	8	1940	24	2045-2070
WR1175	8	1940	21	2045-2070
WR1176	8	1940	32	2030-2045
WR1177	8	1940	21	2045-2070
WR1178	8	1940	32	2030-2045
WR1179	8	1980	24	2045-2070
WR1180	8	1940	24	2045-2070
WR1181	8	1980	18	2045-2070
WR1182	8	1940	21	2045-2070
WR1183	8	1940	21	2045-2070
WR1184	8	1940	21	2045-2070
WR1185	8	1940	32	2030-2045
WR1186	8	1940	21	2045-2070
WR1187	8	1940	28	2045-2070
WR1188	8	1940	21	2045-2070
WR1189	8	1940	48	2030-2045
WR1190	8	1940	48	2030-2045
WR1191	8	1940	49	2030-2045
WR1192	8	1940	24	2045-2070
WR1193	8	1980	12	2045-2070
WR1194	8	1940	28	2045-2070
WR1195	8	1960	63	2025-2030
WR1196	18	1960	63	2025-2030

WR1197	18	1940	80	2025-2030
WR1198	8	1920	63	2025-2030
WR1199	8	1940	72	2025-2030
WR1200	8	1940	49	2030-2045
WR1201	6	1940	49	2030-2045
WR1202	8	1940	21	2045-2070
WR1203	8	1940	21	2045-2070
WR1204	6	1980	16	2045-2070
WR1205	8	1980	35	2030-2045
WR1206	8	1940	48	2030-2045
WR1207	8	1980	12	2045-2070
WR1208	8	1940	21	2045-2070
WR1209	6	1940	21	2045-2070
WR1210	8	1940	48	2030-2045
WR1211	8	1940	48	2030-2045
WR1212	6	1940	24	2045-2070
WR1213	8	1940	32	2030-2045
WR1214	8	1940	24	2045-2070
WR1215	8	1940	16	2045-2070
WR1216	8	1940	16	2045-2070
WR1217	8	1940	24	2045-2070
WR1218	8	1940	32	2030-2045
WR1219	8	1940	21	2045-2070
WR1220	8	1940	24	2045-2070
WR1221	8	1980	12	2045-2070
WR1222	8	1940	21	2045-2070
WR1223	8	1940	35	2030-2045
WR1224	8	1940	21	2045-2070
WR1225	8	1940	35	2030-2045
WR1226	8	1940	16	2045-2070
WR1227	8	1920	54	2030-2045
WR1228	8	1920	54	2030-2045
WR1229	8	1920	54	2030-2045
WR1230	8	1940	48	2030-2045
WR1231	8	1980	12	2045-2070
WR1232	8	1980	12	2045-2070
WR1233	8	1980	16	2045-2070
WR1234	8	1980	21	2045-2070
WR1235	8	1960	21	2045-2070
WR1236	8	1940	56	2030-2045
WR1237	6	1940	56	2030-2045
WR1238	8	1920	49	2030-2045
WR1239	8	1980	12	2045-2070
WR1240	8	1980	12	2045-2070
WR1241	8	1980	16	2045-2070
WR1242	8	1980	12	2045-2070
WR1243	8	1980	16	2045-2070
WR1244	8	1980	12	2045-2070
WR1245	8	1980	18	2045-2070
WR1246	8	1980	18	2045-2070

WR1247	8	1980	18	2045-2070
WR1248	8	1980	12	2045-2070
WR1249	8	1940	42	2030-2045
WR1250	8	1960	24	2045-2070
WR1251	8	1940	49	2030-2045
WR1252	6	1960	16	2045-2070
WR1253	8	1940	30	2045-2070
WR1254	8	1960	42	2030-2045
WR1255	8	1940	24	2045-2070
WR1256	8	1940	24	2045-2070
WR1257	8	1940	48	2030-2045
WR1258	8	1980	18	2045-2070
WR1259	8	1980	18	2045-2070
WR1260	8	1940	21	2045-2070
WR1261	8	1940	24	2045-2070
WR1262	8	1980	18	2045-2070
WR1263	8	1940	64	2025-2030
WR1264	15	1960	14	2045-2070
WR1265	8	1960	14	2045-2070
WR1266	8	1980	14	2045-2070
WR1267	6	1980	15	2045-2070
WR1268	15	1980	15	2045-2070
WR1269	6	1940	24	2045-2070
WR1270	15	1980	16	2045-2070
WR1271	6	1940	16	2045-2070
WR1272	8	1940	21	2045-2070
WR1273	6	1980	12	2045-2070
WR1274	8	1940	32	2030-2045
WR1275	6	1940	24	2045-2070
WR1276	6	1960	42	2030-2045
WR1277	8	1940	32	2030-2045
WR1278	8	1940	40	2030-2045
WR1279	6	1980	12	2045-2070
WR1280	6	1940	24	2045-2070
WR1281	6	1940	24	2045-2070
WR1282	6	1940	21	2045-2070
WR1283	6	1940	56	2030-2045
WR1284	8	1980	16	2045-2070
WR1285	6	1980	32	2030-2045
WR1286	6	1980	30	2045-2070
WR1287	8	1980	8	2070+
WR1288	8	1980	24	2045-2070
WR1289	8	1980	12	2045-2070
WR1290	8	1980	16	2045-2070
WR1291	8	1980	40	2030-2045
WR1292	8	1980	40	2030-2045
WR1293	8	1980	40	2030-2045
WR1294	8	1980	8	2070+
WR1295	8	1980	24	2045-2070
WR1296	8	1980	8	2070+

WR1297	8	1980	8	2070+
WR1298	8	1980	12	2045-2070
WR1299	8	1980	28	2045-2070
WR1300	8	1980	28	2045-2070
WR1301	8	1980	8	2070+
WR1302	8	1980	8	2070+
WR1303	8	1980	12	2045-2070
WR1304	8	1980	12	2045-2070
WR1305	8	1980	12	2045-2070
WR1306	8	1980	12	2045-2070
WR1307	8	1980	12	2045-2070
WR1308	8	1980	12	2045-2070
WR1309	8	1980	8	2070+
WR1310	8	1940	48	2030-2045
WR1311	8	1940	24	2045-2070
WR1312	8	1980	18	2045-2070
WR1313	6	1940	24	2045-2070
WR1314	8	1940	21	2045-2070
WR1315	6	1940	21	2045-2070
WR1316	6	1940	21	2045-2070
WR1317	6	1940	28	2045-2070
WR1318	6	1940	28	2045-2070
WR1319	8	1940	21	2045-2070
WR1320	8	1940	14	2045-2070
WR1321	8	1940	14	2045-2070
WR1322	8	1940	21	2045-2070
WR1323	8	1980	16	2045-2070
WR1324	8	1980	12	2045-2070
WR1325	8	1980	8	2070+
WR1326	8	1980	10	2045-2070
WR1327	8	1980	10	2045-2070
WR1328	8	1940	63	2025-2030
WR1329	8	1960	36	2030-2045
WR1330	8	1980	32	2030-2045
WR1331	8	1940	42	2030-2045
WR1332	8	1940	49	2030-2045
WR1333	8	1920	42	2030-2045
WR1334	8	1920	70	2025-2030
WR1335	8	1960	14	2045-2070
WR1336	8	1980	24	2045-2070
WR1337	8	1980	40	2030-2045
WR1338	8	1980	40	2030-2045
WR1339	8	1980	40	2030-2045
WR1340	8	1980	28	2045-2070
WR1341	8	1940	28	2045-2070
WR1342	8	1940	24	2045-2070
WR1343	6	1940	48	2030-2045
WR1344	8	1960	14	2045-2070
WR1345	8	1980	8	2070+
WR1346	8	1980	8	2070+

WR1347	8	1980	12	2045-2070
WR1348	8	1980	12	2045-2070
WR1349	8	1980	12	2045-2070
WR1350	8	1980	12	2045-2070
WR1351	8	1980	12	2045-2070
WR1352	8	1980	8	2070+
WR1353	8	1980	8	2070+
WR1354	8	1980	8	2070+
WR1355	8	1980	12	2045-2070
WR1356	8	1980	12	2045-2070
WR1357	8	1980	12	2045-2070
WR1358	8	1980	8	2070+
WR1359	8	1940	48	2030-2045
WR1360	8	1960	56	2030-2045
WR1361	8	1980	28	2045-2070
WR1362	8	1960	49	2030-2045
WR1363	8	1980	15	2045-2070
WR1364	8	1980	15	2045-2070
WR1365	8	1980	12	2045-2070
WR1366	8	1980	16	2045-2070
WR1367	8	1980	24	2045-2070
WR1368	8	1980	12	2045-2070
WR1369	8	1980	8	2070+
WR1370	8	1980	8	2070+
WR1371	8	1980	12	2045-2070
WR1372	8	1980	12	2045-2070
WR1373	8	1980	12	2045-2070
WR1374	8	1980	12	2045-2070
WR1375	8	1980	8	2070+
WR1376	8	1980	24	2045-2070
WR1377	8	1980	20	2045-2070
WR1378	8	1920	72	2025-2030
WR1379	8	1940	56	2030-2045
WR1380	8	1940	56	2030-2045
WR1381	8	1940	42	2030-2045
WR1382	8	1940	42	2030-2045
WR1383	12	1960	48	2030-2045
WR1384	8	1980	24	2045-2070
WR1385	8	1980	28	2045-2070
WR1386	8	1980	28	2045-2070
WR1387	8	1980	8	2070+
WR1388	8	1980	20	2045-2070
WR1389	8	1980	24	2045-2070
WR1390	8	1980	20	2045-2070
WR1391	8	1980	24	2045-2070
WR1392	8	1980	12	2045-2070
WR1393	8	1980	12	2045-2070
WR1394	8	1980	12	2045-2070
WR1395	8	1980	12	2045-2070
WR1396	8	1940	28	2045-2070

WR1397	8	1980	16	2045-2070
WR1398	8	1980	16	2045-2070
WR1399	8	1940	28	2045-2070
WR1400	6	1980	16	2045-2070
WR1401	8	1940	64	2025-2030
WR1402	8	1940	24	2045-2070
WR1403	8	1940	21	2045-2070
WR1404	8	1980	16	2045-2070
WR1405	8	1980	12	2045-2070
WR1406	8	1980	16	2045-2070
WR1407	12	1960	24	2045-2070
WR1408	12	1940	24	2045-2070
WR1409	12	1940	24	2045-2070
WR1410	6	1940	48	2030-2045
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WR1412	8	1940	49	2030-2045
WR1413	8	1940	49	2030-2045
WR1414	15	1940	56	2030-2045
WR1415	8	1940	56	2030-2045
WR1416	12	1940	56	2030-2045
WR1417	8	1940	42	2030-2045
WR1418	12	1940	64	2025-2030
WR1419	12	1940	80	2025-2030
WR1420	8	1980	12	2045-2070
WR1421	8	1980	12	2045-2070
WR1422	8	1980	16	2045-2070
WR1423	8	1980	12	2045-2070
WR1424	8	1980	8	2070+
WR1425	8	1980	21	2045-2070
WR1426	8	1960	21	2045-2070
WR1427	8	1980	8	2070+
WR1428	8	1980	8	2070+
WR1429	8	1980	12	2045-2070
WR1430	8	1980	12	2045-2070
WR1431	10	1940	48	2030-2045
WR1432	6	1940	48	2030-2045
WR1433	8	1940	48	2030-2045
WR1434	8	1980	16	2045-2070
WR1435	12	1940	24	2045-2070
WR1436	12	1940	24	2045-2070
WR1437	15	1940	24	2045-2070
WR1438	15	1940	24	2045-2070
WR1439	30	1940	21	2045-2070
WR1440	30	1940	21	2045-2070
WR1441	15	1940	80	2025-2030
WR1442	30	1940	72	2025-2030
WR1443	30	1940	80	2025-2030
WR1444	30	1940	80	2025-2030
WR1445	30	1940	80	2025-2030
WR1446	15	1940	64	2025-2030

WR1447	15	1940	48	2030-2045
WR1448	15	1940	48	2030-2045
WR1449	15	1920	63	2025-2030
WR1450	15	1940	80	2025-2030
WR1451	8	1920	63	2025-2030
WR1452	8	1920	63	2025-2030
WR1453	8	1920	54	2030-2045
WR1454	8	1920	63	2025-2030
WR1455	8	1940	48	2030-2045
WR1456	8	1940	48	2030-2045
WR1457	8	1940	56	2030-2045
WR1458	6	1940	21	2045-2070
WR1459	8	1940	21	2045-2070
WR1460	8	1940	28	2045-2070
WR1461	6	1920	63	2025-2030
WR1462	8	1920	81	2025-2030
WR1463	8	1940	42	2030-2045
WR1464	8	1940	42	2030-2045
WR1465	10	1940	70	2025-2030
WR1466	10	1960	28	2045-2070
WR1467	10	1960	28	2045-2070
WR1468	15	1940	72	2025-2030
WR1469	10	1940	80	2025-2030
WR1470	30	1940	72	2025-2030
WR1471	10	1940	80	2025-2030
WR1472	6	1940	21	2045-2070
WR1473	8	1940	28	2045-2070
WR1474	8	1940	56	2030-2045
WR1475	8	1940	56	2030-2045
WR1476	8	1940	49	2030-2045
WR1477	8	1940	56	2030-2045
WR1478	8	1940	56	2030-2045
WR1479	10	1960	48	2030-2045
WR1480	10	1960	48	2030-2045
WR1481	10	1960	60	2025-2030
WR1482	6	1940	28	2045-2070
WR1483	10	1940	32	2030-2045
WR1484	6	1940	24	2045-2070
WR1485	6	1940	24	2045-2070
WR1486	6	1940	21	2045-2070
WR1487	8	1980	24	2045-2070
WR1488	6	1980	28	2045-2070
WR1489	8	2002	24	2045-2070
WR1490	8	1980	35	2030-2045
WR1491	8	1940	21	2045-2070
WR1492	12	1940	56	2030-2045
WR1493	12	1940	80	2025-2030
WR1494	12	1940	72	2025-2030
WR1495	8	2003	21	2045-2070
WR1496	15	UNKNOWN	100	2020-2025

WR1497	15	UNKNOWN	100	2020-2025
WR1498	15	UNKNOWN	100	2020-2025
WR1499	15	UNKNOWN	100	2020-2025
WR1500	15	UNKNOWN	100	2020-2025
WR1501	15	UNKNOWN	100	2020-2025
WR1502	15	UNKNOWN	100	2020-2025
WR1503	15	UNKNOWN	100	2020-2025
WR1504	15	UNKNOWN	100	2020-2025
WR1505	15	UNKNOWN	100	2020-2025
WR1506	8	UNKNOWN	100	2020-2025
WR1507	8	UNKNOWN	100	2020-2025
WR1508	8	UNKNOWN	100	2020-2025
WR1509	30	UNKNOWN	80	2025-2030
WR1510	30	UNKNOWN	80	2025-2030
WR1511	30	UNKNOWN	80	2025-2030
WR1512	30	UNKNOWN	80	2025-2030
WR1513	30	UNKNOWN	80	2025-2030
WR1514	30	UNKNOWN	80	2025-2030

GRAVITY SEWER ASSETS					
FACILITYID (WR CREATED)	DIAMETER	MATERIAL	YEAR INSTALLED	RISK SCORE	REPLACEMENT YEAR
WR0	8	PVC	2003	18	2045-2070
WR1	8	PVC	2003	18	2045-2070
WR2	6	DIP	2003	40	2030-2045
WR3	8	DIP	2003	35	2030-2045
WR4	8	PVC	2003	18	2045-2070
WR5	8	DIP	2003	40	2030-2045
WR6	8	DIP	2003	40	2030-2045
WR7	8	DIP	2003	20	2045-2070
WR8	8	DIP	2003	20	2045-2070
WR9	8	DIP	2003	20	2045-2070
WR10	8	DIP	2003	20	2045-2070
WR11	8	PVC	2003	12	2045-2070
WR12	8	DIP	2003	20	2045-2070
WR13	8	DIP	2003	16	2045-2070
WR14	8	PVC	2003	18	2045-2070
WR15	8	PVC	2003	18	2045-2070
WR16	8	PVC	2003	21	2045-2070
WR17	8	PVC	2003	21	2045-2070
WR18	6	PVC	2003	21	2045-2070
WR19	6	PVC	2003	21	2045-2070
WR20	8	PVC	2003	18	2045-2070
WR21	6	PVC	2003	21	2045-2070
WR22	6	PVC	2003	21	2045-2070
WR23	6	PVC	2003	21	2045-2070
WR24	8	PVC	2003	21	2045-2070
WR25	8	DIP	2003	30	2045-2070
WR26	8	PVC	2003	21	2045-2070
WR27	8	PVC	2003	18	2045-2070
WR28	8	PVC	2003	18	2045-2070
WR29	8	PVC	2003	24	2045-2070
WR30	8	PVC	2003	24	2045-2070
WR31	8	PVC	2003	24	2045-2070
WR32	8	PVC	2003	24	2045-2070
WR33	8	PVC	2003	24	2045-2070
WR34	8	PVC	2003	24	2045-2070
WR35	8	PVC	2003	24	2045-2070
WR36	8	PVC	2003	24	2045-2070
WR37	8	PVC	2003	24	2045-2070
WR38	12	DIP	1994	20	2045-2070
WR39	12	DIP	1994	20	2045-2070
WR40	12	DIP	1994	20	2045-2070
WR41	12	DIP	1994	25	2045-2070
WR42	8	DIP	1994	20	2045-2070
WR43	12	DIP	1994	28	2045-2070
WR44	8	PVC	1980	16	2045-2070
WR45	8	PVC	1980	8	2070+
WR46	8	PVC	1980	8	2045-2070
WR47	8	DIP	1960	21	2045-2070
WR48	8	PVC	1980	12	2045-2070
WR49	10	PVC	1980	12	2045-2070
WR50	10	PVC	1980	12	2045-2070
WR51	10	PVC	1980	12	2045-2070
WR52	10	PVC	1980	24	2045-2070
WR53	10	PVC	1980	28	2045-2070
WR54	12	DIP	1960	48	2030-2045
WR55	30	VCP	1940	64	2025-2030
WR56	30	VCP	1940	72	2025-2030
WR57	30	VCP	1940	70	2025-2030

WR58	30	VCP	1940	72	2025-2030
WR59	30	VCP	1940	72	2025-2030
WR60	30	VCP	1940	80	2025-2030
WR61	30	VCP	1940	64	2025-2030
WR62	15	DIP	1960	48	2030-2045
WR63	30	VCP	1940	48	2030-2045
WR64	30	VCP	1940	72	2025-2030
WR65	30	VCP	1940	80	2025-2030
WR66	30	VCP	1940	48	2030-2045
WR67	30	VCP	1940	56	2030-2045
WR68	8	PVC	1980	28	2045-2070
WR69	30	DIP	1960	70	2025-2030
WR70	30	DIP	1960	63	2025-2030
WR71	8	PVC	1980	32	2030-2045
WR72	8	PVC	1980	32	2030-2045
WR73	8	PVC	1980	40	2030-2045
WR74	8	PVC	1980	24	2045-2070
WR75	8	PVC	1980	25	2045-2070
WR76	30	VCP	1940	80	2025-2030
WR77	15	CAS	1920	81	2025-2030
WR78	15	CAS	1920	90	2020-2025
WR79	8	PVC	1980	28	2045-2070
WR80	8	VCP	1940	21	2045-2070
WR81	12	PVC	1980	20	2045-2070
WR82	8	VCP	1940	28	2045-2070
WR83	30	VCP	1940	40	2030-2045
WR84	30	VCP	1940	64	2025-2030
WR85	30	DIP	1960	63	2025-2030
WR86	8	PVC	1980	24	2045-2070
WR87	8	PVC	1980	24	2045-2070
WR88	8	PVC	1980	28	2045-2070
WR89	8	PVC	1980	35	2030-2045
WR90	8	PVC	1980	30	2045-2070
WR91	8	PVC	1980	30	2045-2070
WR92	8	PVC	1980	20	2045-2070
WR93	8	PVC	1980	24	2045-2070
WR94	8	PVC	2003	21	2045-2070
WR95	8	PVC	2003	21	2045-2070
WR96	8	PVC	2003	21	2045-2070
WR97	6	VCP	1940	56	2030-2045
WR98	8	PVC	2003	21	2045-2070
WR99	8	PVC	2003	21	2045-2070
WR100	8	RPM	2003	21	2045-2070
WR101	8	PVC	2003	21	2045-2070
WR102	6	CAS	2003	21	2045-2070
WR103	8	VCP	1940	42	2030-2045
WR104	8	CAS	1920	63	2025-2030
WR105	8	PVC	2003	21	2045-2070
WR106	8	PVC	2003	27	2045-2070
WR107	18	VCP	1940	80	2025-2030
WR108	8	PVC	2003	24	2045-2070
WR109	30	VCP	1940	72	2025-2030
WR110	30	VCP	1940	80	2025-2030
WR111	8	DIP	2003	12	2045-2070
WR112	8	PVC	2003	21	2045-2070
WR113	8	PVC	2003	21	2045-2070
WR114	8	PVC	2003	21	2045-2070
WR115	18	CAS	1920	100	2020-2025
WR116	8	DIP	2003	30	2045-2070
WR117	8	PVC	2003	18	2045-2070
WR118	8	DIP	2003	24	2045-2070

WR119	8	DIP	2003	30	2045-2070
WR120	8	DIP	2003	35	2030-2045
WR121	8	DIP	2003	30	2045-2070
WR122	8	DIP	2003	40	2030-2045
WR123	8	DIP	2003	35	2030-2045
WR124	6	PVC	2003	21	2045-2070
WR125	6	PVC	2003	21	2045-2070
WR126	8	PVC	2009	9	2070+
WR127	8	DIP	2009	8	2070+
WR128	8	DIP	2009	8	2070+
WR129	8	DIP	2009	15	2045-2070
WR130	8	DIP	2009	24	2045-2070
WR131	8	DIP	2009	24	2045-2070
WR132	8	DIP	2009	12	2045-2070
WR133	8	PVC	2009	12	2045-2070
WR134	8	DIP	2009	15	2045-2070
WR135	8	DIP	2009	15	2045-2070
WR136	8	PVC	2009	9	2070+
WR137	8	PVC	2009	18	2045-2070
WR138	8	PVC	2009	18	2045-2070
WR139	8	PVC	2009	9	2070+
WR140	8	DIP	2009	24	2045-2070
WR141	8	DIP	2009	28	2045-2070
WR142	8	DIP	2009	24	2045-2070
WR143	8	PVC	2009	24	2045-2070
WR144	8	PVC	2009	24	2045-2070
WR145	8	PVC	2009	24	2045-2070
WR146	8	PVC	2009	16	2045-2070
WR147	8	PVC	2009	32	2030-2045
WR148	8	DIP	2009	35	2030-2045
WR149	8	DIP	2009	35	2030-2045
WR150	8	DIP	2009	40	2030-2045
WR151	8	DIP	2009	30	2045-2070
WR152	8	DIP	2009	40	2030-2045
WR153	8	PVC	2009	21	2045-2070
WR154	8	DIP	2009	24	2045-2070
WR155	8	PVC	2009	12	2045-2070
WR156	8	PVC	2009	24	2045-2070
WR157	8	PVC	2009	21	2045-2070
WR158	8	PVC	2009	16	2045-2070
WR159	8	PVC	2009	8	2070+
WR160	8	PVC	2009	12	2045-2070
WR161	8	PVC	2009	28	2045-2070
WR162	8	PVC	2009	21	2045-2070
WR163	8	PVC	2009	21	2045-2070
WR164	8	PVC	2009	21	2045-2070
WR165	8	PVC	2009	32	2030-2045
WR166	8	PVC	2009	27	2045-2070
WR167	8	PVC	1980	32	2030-2045
WR168	8	PVC	1980	32	2030-2045
WR169	8	PVC	1980	36	2030-2045
WR170	8	PVC	1980	36	2030-2045
WR171	8	PVC	1980	45	2030-2045
WR172	8	PVC	1980	40	2030-2045
WR173	8	PVC	1980	40	2030-2045
WR174	8	DIP	1960	56	2030-2045
WR175	8	PVC	1980	16	2045-2070
WR176	8	PVC	1980	40	2030-2045
WR177	8	PVC	1980	32	2030-2045
WR178	8	DIP	1960	56	2030-2045
WR179	8	PVC	1980	28	2045-2070

WR180	8	PVC	2009	24	2045-2070
WR181	8	PVC	2009	24	2045-2070
WR182	8	DIP	2009	35	2030-2045
WR183	8	DIP	2009	30	2045-2070
WR184	8	DIP	2009	30	2045-2070
WR185	8	DIP	2009	30	2045-2070
WR186	12	VCP	1940	49	2030-2045
WR187	12	VCP	1940	49	2030-2045
WR188	12	VCP	1940	49	2030-2045
WR189	12	VCP	1940	56	2030-2045
WR190	12	VCP	1940	56	2030-2045
WR191	8	DIP	2003	35	2030-2045
WR192	10	PVC	2003	24	2045-2070
WR193	12	VCP	1940	64	2025-2030
WR194	8	DIP	2003	32	2030-2045
WR195	12	VCP	1940	56	2030-2045
WR196	8	DIP	2003	15	2045-2070
WR197	8	VCP	1940	21	2045-2070
WR198	8	PVC	2003	9	2070+
WR199	12	VCP	1940	49	2030-2045
WR200	12	VCP	1940	56	2030-2045
WR201	12	VCP	1940	64	2025-2030
WR202	12	VCP	1940	56	2030-2045
WR203	8	DIP	2003	40	2030-2045
WR204	12	VCP	1940	64	2025-2030
WR205	12	VCP	1940	64	2025-2030
WR206	8	PVC	2003	9	2070+
WR207	12	VCP	1940	56	2030-2045
WR208	12	VCP	1940	56	2030-2045
WR209	12	VCP	1940	64	2025-2030
WR210	12	VCP	1940	64	2025-2030
WR211	12	VCP	1940	64	2025-2030
WR212	12	VCP	1940	56	2030-2045
WR213	12	VCP	1940	64	2025-2030
WR214	12	VCP	1940	64	2025-2030
WR215	18	CAS	1920	90	2020-2025
WR216	18	CAS	1920	81	2025-2030
WR217	15	PVC	1988	24	2045-2070
WR218	15	PVC	1988	16	2045-2070
WR219	15	PVC	1988	16	2045-2070
WR220	15	PVC	1988	40	2030-2045
WR221	15	PVC	1988	45	2030-2045
WR222	15	PVC	1988	40	2030-2045
WR223	12	PVC	1988	40	2030-2045
WR224	12	DIP	1988	48	2030-2045
WR225	15	DIP	1960	70	2025-2030
WR226	12	DIP	1960	56	2030-2045
WR227	6	PVC	1980	32	2030-2045
WR228	12	DIP	1960	56	2030-2045
WR229	15	PVC	1980	32	2030-2045
WR230	12	PVC	1980	32	2030-2045
WR231	12	RPM	1980	36	2030-2045
WR232	6	PVC	1980	32	2030-2045
WR233	8	DIP	1960	42	2030-2045
WR234	8	DIP	1960	42	2030-2045
WR235	8	DIP	1960	49	2030-2045
WR236	8	PVC	1980	28	2045-2070
WR237	6	PVC	1980	24	2045-2070
WR238	6	PVC	1980	24	2045-2070
WR239	6	PVC	1980	28	2045-2070
WR240	6	PVC	1980	28	2045-2070

WR241	8	PVC	1980	28	2045-2070
WR242	8	PVC	1980	28	2045-2070
WR243	8	DIP	1960	42	2030-2045
WR244	12	DIP	1960	56	2030-2045
WR245	8	DIP	1960	56	2030-2045
WR246	6	PVC	1980	35	2030-2045
WR247	12	RPM	1980	28	2045-2070
WR248	12	RPM	1980	24	2045-2070
WR249	4	PVC	1980	36	2030-2045
WR250	12	PVC	1980	32	2030-2045
WR251	12	PVC	1980	12	2045-2070
WR252	12	PVC	1980	16	2045-2070
WR253	12	PVC	1980	16	2045-2070
WR254	12	PVC	1980	32	2030-2045
WR255	12	PVC	1980	40	2030-2045
WR256	6	PVC	1980	16	2045-2070
WR257	8	PVC	2003	21	2045-2070
WR258	8	PVC	2003	18	2045-2070
WR259	8	DIP	2003	30	2045-2070
WR260	8	PVC	2003	24	2045-2070
WR261	8	PVC	2003	24	2045-2070
WR262	8	DIP	2003	40	2030-2045
WR263	8	DIP	2003	40	2030-2045
WR264	8	DIP	2003	45	2030-2045
WR265	8	PVC	2003	21	2045-2070
WR266	8	PVC	2003	24	2045-2070
WR267	12	DIP	2003	50	2030-2045
WR268	8	PVC	2009	12	2045-2070
WR269	8	PVC	1980	16	2045-2070
WR270	8	PVC	2017	9	2070+
WR271	8	PVC	2017	12	2045-2070
WR272	15	VCP	1940	32	2030-2045
WR273	8	PVC	2017	9	2070+
WR274	8	PVC	2017	12	2045-2070
WR275	8	PVC	2017	12	2045-2070
WR276	8	PVC	2017	9	2070+
WR277	8	PVC	2017	12	2045-2070
WR278	8	PVC	2017	12	2045-2070
WR279	8	PVC	2017	9	2070+
WR280	12	PVC	1988	32	2030-2045
WR281	12	PVC	1988	40	2030-2045
WR282	8	PVC	2017	18	2045-2070
WR283	12	PVC	1988	24	2045-2070
WR284	8	PVC	1988	28	2045-2070
WR285	8	DIP	1988	42	2030-2045
WR286	6	PVC	1988	24	2045-2070
WR287	8	DIP	1988	54	2030-2045
WR288	8	PVC	1988	32	2030-2045
WR289	8	PVC	1988	28	2045-2070
WR290	8	DIP	1988	42	2030-2045
WR291	12	PVC	1988	24	2045-2070
WR292	12	PVC	1988	32	2030-2045
WR293	12	PVC	1988	24	2045-2070
WR294	12	PVC	1988	24	2045-2070
WR295	12	PVC	1988	40	2030-2045
WR296	12	PVC	1988	36	2030-2045
WR297	12	PVC	1988	32	2030-2045
WR298	12	PVC	1988	32	2030-2045
WR299	12	PVC	1988	24	2045-2070
WR300	8	DIP	1988	40	2030-2045
WR301	8	DIP	1988	15	2045-2070

WR302	8	PVC	1988	24	2045-2070
WR303	8	DIP	1988	42	2030-2045
WR304	8	PVC	2017	9	2070+
WR305	8	PVC	2017	9	2070+
WR306	8	PVC	2017	9	2070+
WR307	8	PVC	2017	9	2070+
WR308	8	PVC	2017	9	2070+
WR309	8	PVC	2017	9	2070+
WR310	8	PVC	2017	9	2070+
WR311	8	PVC	2017	9	2070+
WR312	8	PVC	2017	9	2070+
WR313	8	PVC	2017	9	2070+
WR314	8	PVC	2017	9	2070+
WR315	8	PVC	2017	9	2070+
WR316	8	PVC	2017	9	2070+
WR317	8	PVC	2017	9	2070+
WR318	8	DIP	2017	15	2045-2070
WR319	8	DIP	1988	36	2030-2045
WR320	12	DIP	1960	56	2030-2045
WR321	12	DIP	1960	63	2025-2030
WR322	4	PVC	1980	32	2030-2045
WR323	12	DIP	1960	42	2030-2045
WR324	12	DIP	1960	42	2030-2045
WR325	8	PVC	2017	9	2070+
WR326	8	PVC	2017	9	2070+
WR327	8	PVC	2017	9	2070+
WR328	8	PVC	2017	9	2070+
WR329	8	PVC	2017	9	2070+
WR330	8	DIP	1960	42	2030-2045
WR331	8	DIP	1960	42	2030-2045
WR332	12	DIP	1960	42	2030-2045
WR333	15	VCP	1940	72	2025-2030
WR334	6	VCP	1940	42	2030-2045
WR335	6	VCP	1940	42	2030-2045
WR336	6	VCP	1940	42	2030-2045
WR337	6	VCP	1940	48	2030-2045
WR338	6	VCP	1940	48	2030-2045
WR339	6	VCP	1940	24	2045-2070
WR340	6	VCP	1940	24	2045-2070
WR341	12	DIP	1960	21	2045-2070
WR342	12	DIP	1960	21	2045-2070
WR343	15	VCP	1940	63	2025-2030
WR344	15	VCP	1940	56	2030-2045
WR345	15	VCP	1940	56	2030-2045
WR346	15	VCP	1940	49	2030-2045
WR347	6	VCP	1940	48	2030-2045
WR348	8	VCP	1940	42	2030-2045
WR349	8	DIP	1960	48	2030-2045
WR350	12	DIP	1960	36	2030-2045
WR351	12	DIP	1960	42	2030-2045
WR352	12	DIP	1960	42	2030-2045
WR353	12	PVC	1980	24	2045-2070
WR354	12	DIP	1960	42	2030-2045
WR355	12	DIP	1960	36	2030-2045
WR356	12	DIP	1960	42	2030-2045
WR357	8	PVC	2017	9	2070+
WR358	8	DIP	1960	42	2030-2045
WR359	8	VCP	1940	24	2045-2070
WR360	8	VCP	1940	24	2045-2070
WR361	8	VCP	1940	24	2045-2070
WR362	4	VCP	1940	24	2045-2070

WR363	8	VCP	1940	24	2045-2070
WR364	8	VCP	1940	24	2045-2070
WR365	15	CP	1960	49	2030-2045
WR366	8	VCP	1940	24	2045-2070
WR367	4	VCP	1940	24	2045-2070
WR368	8	VCP	1940	24	2045-2070
WR369	8	VCP	1940	24	2045-2070
WR370	8	VCP	1940	32	2030-2045
WR371	8	VCP	1940	72	2025-2030
WR372	8	VCP	1940	80	2025-2030
WR373	8	VCP	1940	21	2045-2070
WR374	4	PVC	1980	12	2045-2070
WR375	8	PVC	1980	16	2045-2070
WR376	8	VCP	1940	24	2045-2070
WR377	8	PVC	1980	12	2045-2070
WR378	8	VCP	1940	80	2025-2030
WR379	8	PVC	1980	16	2045-2070
WR380	8	PVC	1980	12	2045-2070
WR381	30	VCP	1940	80	2025-2030
WR382	8	VCP	1940	24	2045-2070
WR383	6	PVC	1980	50	2030-2045
WR384	8	PVC	1980	12	2045-2070
WR385	12	DIP	1960	70	2025-2030
WR386	8	PVC	1980	28	2045-2070
WR387	30	VCP	1940	56	2030-2045
WR388	30	VCP	1940	56	2030-2045
WR389	8	VCP	1940	48	2030-2045
WR390	8	VCP	1940	21	2045-2070
WR391	12	PVC	1980	12	2045-2070
WR392	8	VCP	1940	56	2030-2045
WR393	12	PVC	1980	20	2045-2070
WR394	8	VCP	1940	48	2030-2045
WR395	8	VCP	1940	32	2030-2045
WR396	10	PVC	1980	20	2045-2070
WR397	10	PVC	1980	40	2030-2045
WR398	10	VCP	1940	80	2025-2030
WR399	8	VCP	1940	56	2030-2045
WR400	8	VCP	1940	40	2030-2045
WR401	30	VCP	1940	48	2030-2045
WR402	30	VCP	1940	56	2030-2045
WR403	8	PVC	1946	30	2045-2070
WR404	8	CAS	1920	54	2030-2045
WR405	8	PVC	1946	40	2030-2045
WR406	8	CAS	1920	54	2030-2045
WR407	8	VCP	1940	56	2030-2045
WR408	12	PVC	1980	20	2045-2070
WR409	10	PVC	1980	16	2045-2070
WR410	8	CAS	1920	72	2025-2030
WR411	8	CAS	1920	27	2045-2070
WR412	8	CAS	1920	54	2030-2045
WR413	8	VCP	1940	24	2045-2070
WR414	8	VCP	1940	40	2030-2045
WR415	10	PVC	1980	25	2045-2070
WR416	8	VCP	1940	21	2045-2070
WR417	8	VCP	1940	24	2045-2070
WR418	8	VCP	1940	48	2030-2045
WR419	30	VCP	1940	48	2030-2045
WR420	30	VCP	1940	48	2030-2045
WR421	30	VCP	1940	56	2030-2045
WR422	8	VCP	1940	56	2030-2045
WR423	10	VCP	1940	48	2030-2045

WR424	8	VCP	1940	24	2045-2070
WR425	8	VCP	1940	21	2045-2070
WR426	8	VCP	1940	21	2045-2070
WR427	30	VCP	1940	48	2030-2045
WR428	8	VCP	1940	48	2030-2045
WR429	8	VCP	1940	28	2045-2070
WR430	8	VCP	1940	21	2045-2070
WR431	8	VCP	1940	28	2045-2070
WR432	8	PVC	1946	20	2045-2070
WR433	8	PVC	1946	15	2045-2070
WR434	8	PVC	1946	15	2045-2070
WR435	8	VCP	1940	21	2045-2070
WR436	8	CAS	1920	54	2030-2045
WR437	8	CAS	1920	27	2045-2070
WR438	8	VCP	1940	42	2030-2045
WR439	8	VCP	1940	28	2045-2070
WR440	8	PVC	1980	16	2045-2070
WR441	8	VCP	1940	24	2045-2070
WR442	8	VCP	1940	24	2045-2070
WR443	8	VCP	1940	24	2045-2070
WR444	8	VCP	1940	32	2030-2045
WR445	8	VCP	1940	24	2045-2070
WR446	8	VCP	1940	24	2045-2070
WR447	8	VCP	1940	24	2045-2070
WR448	8	VCP	1940	24	2045-2070
WR449	8	VCP	1940	24	2045-2070
WR450	8	VCP	1940	21	2045-2070
WR451	18	CAS	1920	100	2020-2025
WR452	8	VCP	1940	24	2045-2070
WR453	24	VCP	1940	80	2025-2030
WR454	8	VCP	1940	21	2045-2070
WR455	30	VCP	1940	48	2030-2045
WR456	8	VCP	1940	21	2045-2070
WR457	8	PVC	1946	15	2045-2070
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WR459	8	VCP	1940	56	2030-2045
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WR464	8	PVC	1946	15	2045-2070
WR465	8	PVC	1946	15	2045-2070
WR466	8	VCP	1940	32	2030-2045
WR467	8	VCP	1940	24	2045-2070
WR468	8	VCP	1940	21	2045-2070
WR469	8	VCP	1940	48	2030-2045
WR470	8	VCP	1940	48	2030-2045
WR471	8	VCP	1940	64	2025-2030
WR472	8	VCP	1940	24	2045-2070
WR473	8	VCP	1940	24	2045-2070
WR474	8	VCP	1940	24	2045-2070
WR475	8	VCP	1940	42	2030-2045
WR476	8	VCP	1940	56	2030-2045
WR477	8	VCP	1940	21	2045-2070
WR478	4	PVC	1980	12	2045-2070
WR479	4	VCP	1940	32	2030-2045
WR480	4	VCP	1940	32	2030-2045
WR481	8	VCP	1940	24	2045-2070
WR482	8	VCP	1940	48	2030-2045
WR483	8	VCP	1940	32	2030-2045
WR484	8	VCP	1940	24	2045-2070

WR485	8	VCP	1940	28	2045-2070
WR486	8	VCP	1940	56	2030-2045
WR487	8	VCP	1940	56	2030-2045
WR488	8	VCP	1940	42	2030-2045
WR489	8	VCP	1940	48	2030-2045
WR490	30	VCP	1940	80	2025-2030
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WR495	6	VCP	1940	56	2030-2045
WR496	8	VCP	1940	21	2045-2070
WR497	6	VCP	1940	42	2030-2045
WR498	8	VCP	1940	42	2030-2045
WR499	6	VCP	1940	56	2030-2045
WR500	6	VCP	1940	42	2030-2045
WR501	6	CAS	1920	72	2025-2030
WR502	6	PVC	1980	24	2045-2070
WR503	6	CAS	1920	54	2030-2045
WR504	8	VCP	1940	48	2030-2045
WR505	6	VCP	1940	48	2030-2045
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WR516	8	VCP	1940	24	2045-2070
WR517	8	VCP	1940	24	2045-2070
WR518	6	PVC	1980	24	2045-2070
WR519	8	VCP	1940	32	2030-2045
WR520	8	VCP	1940	21	2045-2070
WR521	8	VCP	1940	28	2045-2070
WR522	8	VCP	1940	21	2045-2070
WR523	8	DIP	1980	15	2045-2070
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WR526	8	VCP	1940	21	2045-2070
WR527	8	VCP	1940	24	2045-2070
WR528	6	VCP	1940	48	2030-2045
WR529	8	VCP	1940	21	2045-2070
WR530	8	VCP	1940	24	2045-2070
WR531	8	VCP	1940	32	2030-2045
WR532	8	VCP	1940	24	2045-2070
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WR541	6	VCP	1940	56	2030-2045
WR542	8	VCP	1940	48	2030-2045
WR543	8	VCP	1940	48	2030-2045
WR544	8	VCP	1940	48	2030-2045
WR545	8	DIP	1960	49	2030-2045

WR546	8	DIP	1960	49	2030-2045
WR547	8	DIP	1960	49	2030-2045
WR548	8	VCP	1940	49	2030-2045
WR549	4	PVC	1980	8	2070+
WR550	6	CAS	1920	72	2025-2030
WR551	6	CAS	1920	72	2025-2030
WR552	4	VCP	1940	48	2030-2045
WR553	8	VCP	1940	48	2030-2045
WR554	8	VCP	1940	56	2030-2045
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WR561	4	PVC	1980	28	2045-2070
WR562	8	PVC	1980	28	2045-2070
WR563	8	VCP	1940	24	2045-2070
WR564	8	VCP	1940	56	2030-2045
WR565	8	PVC	1980	24	2045-2070
WR566	18	VCP	1940	64	2025-2030
WR567	10	CAS	1920	27	2045-2070
WR568	4	VCP	1940	28	2045-2070
WR569	8	VCP	1940	42	2030-2045
WR570	8	VCP	1940	64	2025-2030
WR571	8	PVC	1980	24	2045-2070
WR572	8	CAS	1920	54	2030-2045
WR573	8	VCP	1940	56	2030-2045
WR574	8	VCP	1940	56	2030-2045
WR575	8	VCP	1940	48	2030-2045
WR576	8	VCP	1940	48	2030-2045
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WR578	8	VCP	1940	21	2045-2070
WR579	8	VCP	1940	24	2045-2070
WR580	8	VCP	1940	24	2045-2070
WR581	8	VCP	1940	32	2030-2045
WR582	8	VCP	1940	24	2045-2070
WR583	8	VCP	1940	24	2045-2070
WR584	8	VCP	1940	24	2045-2070
WR585	8	VCP	1940	24	2045-2070
WR586	8	PVC	1980	8	2070+
WR587	8	PVC	1980	8	2070+
WR588	8	VCP	1940	24	2045-2070
WR589	8	VCP	1940	24	2045-2070
WR590	8	VCP	1940	24	2045-2070
WR591	8	VCP	1940	24	2045-2070
WR592	8	VCP	1940	24	2045-2070
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WR601	8	PVC	1980	28	2045-2070
WR602	8	DIP	1980	30	2045-2070
WR603	8	VCP	1940	48	2030-2045
WR604	8	VCP	1940	42	2030-2045
WR605	8	VCP	1940	42	2030-2045
WR606	8	PVC	1980	24	2045-2070

WR607	8	VCP	1940	42	2030-2045
WR608	8	VCP	1940	64	2025-2030
WR609	8	VCP	1940	42	2030-2045
WR610	8	VCP	1940	56	2030-2045
WR611	18	CAS	1920	63	2025-2030
WR612	18	CAS	1920	63	2025-2030
WR613	18	CAS	1920	63	2025-2030
WR614	8	VCP	1940	56	2030-2045
WR615	18	CAS	1920	63	2025-2030
WR616	8	VCP	1940	56	2030-2045
WR617	8	VCP	1940	32	2030-2045
WR618	8	VCP	1940	42	2030-2045
WR619	8	VCP	1940	24	2045-2070
WR620	8	VCP	1940	21	2045-2070
WR621	8	VCP	1940	21	2045-2070
WR622	6	VCP	1940	42	2030-2045
WR623	6	VCP	1940	42	2030-2045
WR624	6	VCP	1940	48	2030-2045
WR625	6	VCP	1940	48	2030-2045
WR626	6	VCP	1940	48	2030-2045
WR627	18	VCP	1940	56	2030-2045
WR628	18	VCP	1940	80	2025-2030
WR629	6	PVC	1980	24	2045-2070
WR630	8	VCP	1940	42	2030-2045
WR631	8	VCP	1940	48	2030-2045
WR632	8	PVC	1980	28	2045-2070
WR633	8	PVC	1980	28	2045-2070
WR634	8	VCP	1940	21	2045-2070
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WR636	8	VCP	1940	21	2045-2070
WR637	8	VCP	1940	24	2045-2070
WR638	6	VCP	1940	42	2030-2045
WR639	8	VCP	1940	28	2045-2070
WR640	6	VCP	1940	21	2045-2070
WR641	8	VCP	1940	42	2030-2045
WR642	6	VCP	1940	21	2045-2070
WR643	6	VCP	1940	32	2030-2045
WR644	6	VCP	1940	24	2045-2070
WR645	8	DIP	1980	36	2030-2045
WR646	8	DIP	1980	35	2030-2045
WR647	6	VCP	1940	21	2045-2070
WR648	6	VCP	1940	21	2045-2070
WR649	8	PVC	1980	32	2030-2045
WR650	6	VCP	1940	21	2045-2070
WR651	6	VCP	1940	21	2045-2070
WR652	6	VCP	1940	24	2045-2070
WR653	6	VCP	1940	21	2045-2070
WR654	8	PVC	1980	28	2045-2070
WR655	8	PVC	1980	28	2045-2070
WR656	8	PVC	1980	32	2030-2045
WR657	6	VCP	1940	21	2045-2070
WR658	8	PVC	1980	12	2045-2070
WR659	8	PVC	1980	16	2045-2070
WR660	8	DIP	1980	15	2045-2070
WR661	8	VCP	1940	24	2045-2070
WR662	8	PVC	1980	12	2045-2070
WR663	8	VCP	1940	24	2045-2070
WR664	10	VCP	1940	32	2030-2045
WR665	10	VCP	1940	32	2030-2045
WR666	10	VCP	1940	24	2045-2070
WR667	8	VCP	1940	24	2045-2070

WR668	8	VCP	1940	48	2030-2045
WR669	6	PVC	1980	12	2045-2070
WR670	8	VCP	1940	21	2045-2070
WR671	8	PVC	1980	12	2045-2070
WR672	8	PVC	1980	12	2045-2070
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WR681	8	VCP	1940	21	2045-2070
WR682	8	VCP	1940	21	2045-2070
WR683	8	VCP	1940	21	2045-2070
WR684	6	VCP	1940	28	2045-2070
WR685	6	VCP	1940	21	2045-2070
WR686	6	VCP	1940	49	2030-2045
WR687	6	VCP	1940	56	2030-2045
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WR690	8	VCP	1940	21	2045-2070
WR691	6	VCP	1940	24	2045-2070
WR692	6	VCP	1940	21	2045-2070
WR693	6	VCP	1940	48	2030-2045
WR694	6	VCP	1940	48	2030-2045
WR695	6	VCP	1940	24	2045-2070
WR696	6	VCP	1940	24	2045-2070
WR697	6	VCP	1940	24	2045-2070
WR698	8	VCP	1940	32	2030-2045
WR699	6	VCP	1940	24	2045-2070
WR700	8	VCP	1940	24	2045-2070
WR701	8	VCP	1940	21	2045-2070
WR702	6	VCP	1940	42	2030-2045
WR703	6	VCP	1940	42	2030-2045
WR704	8	VCP	1940	24	2045-2070
WR705	6	VCP	1940	48	2030-2045
WR706	6	VCP	1940	42	2030-2045
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WR713	8	VCP	1940	21	2045-2070
WR714	8	VCP	1940	24	2045-2070
WR715	8	VCP	1940	32	2030-2045
WR716	8	VCP	1940	28	2045-2070
WR717	8	VCP	1940	32	2030-2045
WR718	8	VCP	1940	21	2045-2070
WR719	8	VCP	1940	28	2045-2070
WR720	6	PVC	1980	12	2045-2070
WR721	6	PVC	1980	12	2045-2070
WR722	8	PVC	1980	8	2070+
WR723	8	VCP	1940	24	2045-2070
WR724	8	VCP	1940	48	2030-2045
WR725	8	VCP	1940	24	2045-2070
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WR727	8	VCP	1940	24	2045-2070
WR728	8	VCP	1940	42	2030-2045

WR729	8	VCP	1940	42	2030-2045
WR730	8	VCP	1940	49	2030-2045
WR731	8	VCP	1940	42	2030-2045
WR732	8	VCP	1940	28	2045-2070
WR733	8	VCP	1940	28	2045-2070
WR734	8	VCP	1940	21	2045-2070
WR735	8	VCP	1940	80	2025-2030
WR736	8	VCP	1940	28	2045-2070
WR737	8	VCP	1940	21	2045-2070
WR738	8	DIP	1960	63	2025-2030
WR739	8	DIP	1960	63	2025-2030
WR740	8	DIP	1960	63	2025-2030
WR741	8	VCP	1940	40	2030-2045
WR742	8	VCP	1940	72	2025-2030
WR743	8	VCP	1940	80	2025-2030
WR744	8	CAS	1920	63	2025-2030
WR745	8	VCP	1940	42	2030-2045
WR746	8	VCP	1940	72	2025-2030
WR747	18	VCP	1940	49	2030-2045
WR748	18	VCP	1940	49	2030-2045
WR749	18	CAS	1920	63	2025-2030
WR750	8	VCP	1940	21	2045-2070
WR751	8	VCP	1940	21	2045-2070
WR752	8	PVC	1980	30	2045-2070
WR753	8	PVC	1980	30	2045-2070
WR754	8	PVC	1980	24	2045-2070
WR755	8	PVC	1980	30	2045-2070
WR756	8	VCP	1940	48	2030-2045
WR757	8	VCP	1940	42	2030-2045
WR758	4	VCP	1940	21	2045-2070
WR759	4	VCP	1940	24	2045-2070
WR760	6	VCP	1940	24	2045-2070
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WR767	8	VCP	1940	24	2045-2070
WR768	8	PVC	1980	12	2045-2070
WR769	8	VCP	1940	48	2030-2045
WR770	6	PVC	1980	16	2045-2070
WR771	6	PVC	1980	16	2045-2070
WR772	8	DIP	1960	56	2030-2045
WR773	8	PVC	1980	35	2030-2045
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WR781	8	PVC	1980	12	2045-2070
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WR784	8	VCP	1940	21	2045-2070
WR785	8	VCP	1940	24	2045-2070
WR786	8	PVC	1980	12	2045-2070
WR787	8	VCP	1940	21	2045-2070
WR788	8	VCP	1940	21	2045-2070
WR789	8	VCP	1940	21	2045-2070

WR790	8	CAS	1920	63	2025-2030
WR791	8	VCP	1940	24	2045-2070
WR792	4	PVC	1980	16	2045-2070
WR793	4	PVC	1980	12	2045-2070
WR794	4	VCP	1940	21	2045-2070
WR795	8	VCP	1940	28	2045-2070
WR796	8	VCP	1940	21	2045-2070
WR797	8	VCP	1940	21	2045-2070
WR798	8	VCP	1940	21	2045-2070
WR799	8	VCP	1940	24	2045-2070
WR800	8	VCP	1940	21	2045-2070
WR801	8	VCP	1940	21	2045-2070
WR802	8	VCP	1940	21	2045-2070
WR803	6	VCP	1940	42	2030-2045
WR804	6	VCP	1940	42	2030-2045
WR805	6	PVC	1980	24	2045-2070
WR806	8	VCP	1940	48	2030-2045
WR807	8	VCP	1940	48	2030-2045
WR808	8	VCP	1940	21	2045-2070
WR809	8	VCP	1940	21	2045-2070
WR810	8	VCP	1940	21	2045-2070
WR811	8	VCP	1940	21	2045-2070
WR812	6	VCP	1940	24	2045-2070
WR813	8	VCP	1940	24	2045-2070
WR814	8	VCP	1940	21	2045-2070
WR815	8	VCP	1940	32	2030-2045
WR816	8	VCP	1940	16	2045-2070
WR817	8	VCP	1940	16	2045-2070
WR818	8	VCP	1940	24	2045-2070
WR819	8	VCP	1940	24	2045-2070
WR820	8	VCP	1940	24	2045-2070
WR821	8	VCP	1940	21	2045-2070
WR822	8	VCP	1940	32	2030-2045
WR823	8	VCP	1940	24	2045-2070
WR824	8	VCP	1940	21	2045-2070
WR825	8	VCP	1940	24	2045-2070
WR826	8	PVC	1980	12	2045-2070
WR827	8	VCP	1940	56	2030-2045
WR828	8	VCP	1940	24	2045-2070
WR829	8	VCP	1940	24	2045-2070
WR830	4	PVC	1980	12	2045-2070
WR831	8	VCP	1940	24	2045-2070
WR832	8	VCP	1940	21	2045-2070
WR833	8	PVC	1980	12	2045-2070
WR834	8	PVC	1980	12	2045-2070
WR835	8	PVC	1980	12	2045-2070
WR836	4	PVC	1980	12	2045-2070
WR837	8	VCP	1940	24	2045-2070
WR838	8	VCP	1940	28	2045-2070
WR839	8	VCP	1940	21	2045-2070
WR840	4	PVC	1980	16	2045-2070
WR841	8	VCP	1940	21	2045-2070
WR842	8	VCP	1940	24	2045-2070
WR843	8	VCP	1940	24	2045-2070
WR844	8	VCP	1940	21	2045-2070
WR845	8	VCP	1940	21	2045-2070
WR846	8	VCP	1940	21	2045-2070
WR847	8	VCP	1940	42	2030-2045
WR848	8	VCP	1940	35	2030-2045
WR849	8	VCP	1940	48	2030-2045
WR850	8	PVC	1980	16	2045-2070

WR851	8	VCP	1940	24	2045-2070
WR852	8	VCP	1940	42	2030-2045
WR853	8	CAS	1920	54	2030-2045
WR854	8	CAS	1920	54	2030-2045
WR855	8	CAS	1920	54	2030-2045
WR856	8	CAS	1920	63	2025-2030
WR857	8	VCP	1940	28	2045-2070
WR858	8	VCP	1940	28	2045-2070
WR859	4	PVC	1980	12	2045-2070
WR860	8	VCP	1940	21	2045-2070
WR861	4	VCP	1940	48	2030-2045
WR862	4	VCP	1940	48	2030-2045
WR863	6	CAS	1920	45	2030-2045
WR864	6	VCP	1940	48	2030-2045
WR865	8	VCP	1940	24	2045-2070
WR866	6	VCP	1940	32	2030-2045
WR867	8	VCP	1940	48	2030-2045
WR868	8	PVC	1980	12	2045-2070
WR869	8	PVC	1980	12	2045-2070
WR870	8	PVC	1980	12	2045-2070
WR871	8	DIP	1980	18	2045-2070
WR872	4	PVC	1980	12	2045-2070
WR873	4	PVC	1980	16	2045-2070
WR874	8	PVC	1980	12	2045-2070
WR875	8	PVC	1980	12	2045-2070
WR876	8	PVC	1980	12	2045-2070
WR877	8	PVC	1980	12	2045-2070
WR878	8	RPM	1980	12	2045-2070
WR879	8	PVC	1980	12	2045-2070
WR880	8	PVC	1980	12	2045-2070
WR881	8	OTH	1940	56	2030-2045
WR882	8	VCP	1940	72	2025-2030
WR883	8	VCP	1940	49	2030-2045
WR884	8	CAS	1920	54	2030-2045
WR885	8	PVC	1980	12	2045-2070
WR886	8	PVC	1980	16	2045-2070
WR887	8	PVC	1980	16	2045-2070
WR888	30	VCP	1940	80	2025-2030
WR889	30	VCP	1940	80	2025-2030
WR890	8	PVC	1980	12	2045-2070
WR891	8	PVC	1980	12	2045-2070
WR892	8	PVC	1980	12	2045-2070
WR893	8	PVC	1980	12	2045-2070
WR894	8	PVC	1980	12	2045-2070
WR895	8	PVC	1980	12	2045-2070
WR896	8	PVC	1980	12	2045-2070
WR897	8	OTH	1980	18	2045-2070
WR898	8	DIP	1980	18	2045-2070
WR899	8	PVC	1980	12	2045-2070
WR900	8	PVC	1980	12	2045-2070
WR901	8	PVC	1980	12	2045-2070
WR902	8	VCP	1940	21	2045-2070
WR903	8	VCP	1940	21	2045-2070
WR904	6	VCP	1940	28	2045-2070
WR905	8	VCP	1940	21	2045-2070
WR906	4	PVC	1980	12	2045-2070
WR907	8	VCP	1940	28	2045-2070
WR908	6	VCP	1940	49	2030-2045
WR909	6	VCP	1940	42	2030-2045
WR910	6	VCP	1940	42	2030-2045
WR911	8	PVC	1980	28	2045-2070

WR912	8	DIP	1960	21	2045-2070
WR913	8	DIP	1960	24	2045-2070
WR914	8	DIP	1960	30	2045-2070
WR915	8	VCP	1940	49	2030-2045
WR916	8	PVC	1980	16	2045-2070
WR917	8	PVC	1980	16	2045-2070
WR918	8	DIP	1960	24	2045-2070
WR919	8	DIP	1960	42	2030-2045
WR920	8	DIP	1960	42	2030-2045
WR921	10	VCP	1940	42	2030-2045
WR922	18	VCP	1940	49	2030-2045
WR923	8	VCP	1940	24	2045-2070
WR924	8	VCP	1940	24	2045-2070
WR925	8	VCP	1940	21	2045-2070
WR926	8	DIP	1980	18	2045-2070
WR927	8	DIP	1980	24	2045-2070
WR928	8	DIP	1980	18	2045-2070
WR929	6	VCP	1940	32	2030-2045
WR930	8	VCP	1940	21	2045-2070
WR931	8	VCP	1940	21	2045-2070
WR932	8	VCP	1940	32	2030-2045
WR933	8	VCP	1940	24	2045-2070
WR934	8	VCP	1940	24	2045-2070
WR935	8	PVC	1980	12	2045-2070
WR936	8	DIP	1980	18	2045-2070
WR937	8	VCP	1940	24	2045-2070
WR938	6	VCP	1940	21	2045-2070
WR939	6	VCP	1940	21	2045-2070
WR940	6	VCP	1940	42	2030-2045
WR941	6	VCP	1940	48	2030-2045
WR942	6	VCP	1940	64	2025-2030
WR943	6	VCP	1940	49	2030-2045
WR944	8	VCP	1940	21	2045-2070
WR945	6	VCP	1940	48	2030-2045
WR946	6	VCP	1940	24	2045-2070
WR947	8	VCP	1940	24	2045-2070
WR948	8	VCP	1940	24	2045-2070
WR949	8	DIP	1960	21	2045-2070
WR950	8	PVC	1980	15	2045-2070
WR951	10	PVC	1980	15	2045-2070
WR952	8	PVC	1980	15	2045-2070
WR953	6	PVC	1980	15	2045-2070
WR954	12	DIP	1960	28	2045-2070
WR955	6	VCP	1940	32	2030-2045
WR956	15	DIP	1960	28	2045-2070
WR957	15	DIP	1960	14	2045-2070
WR958	15	PVC	1980	15	2045-2070
WR959	6	DIP	1960	21	2045-2070
WR960	15	PVC	1980	10	2045-2070
WR961	8	VCP	1940	24	2045-2070
WR962	4	PVC	1980	12	2045-2070
WR963	6	VCP	1940	24	2045-2070
WR964	6	VCP	1940	24	2045-2070
WR965	15	PVC	1980	12	2045-2070
WR966	6	VCP	1940	24	2045-2070
WR967	6	VCP	1940	24	2045-2070
WR968	15	PVC	1980	16	2045-2070
WR969	6	VCP	1940	32	2030-2045
WR970	6	DIP	1960	28	2045-2070
WR971	6	VCP	1940	21	2045-2070
WR972	8	PVC	1980	32	2030-2045

WR973	6	VCP	1940	21	2045-2070
WR974	6	VCP	1940	21	2045-2070
WR975	6	VCP	1940	24	2045-2070
WR976	6	PVC	1980	12	2045-2070
WR977	6	VCP	1940	21	2045-2070
WR978	8	DIP	1960	21	2045-2070
WR979	8	DIP	1960	21	2045-2070
WR980	6	VCP	1940	24	2045-2070
WR981	4	VCP	1940	24	2045-2070
WR982	6	VCP	1940	24	2045-2070
WR983	6	VCP	1940	48	2030-2045
WR984	6	VCP	1940	48	2030-2045
WR985	6	VCP	1940	32	2030-2045
WR986	8	VCP	1940	24	2045-2070
WR987	6	VCP	1940	24	2045-2070
WR988	6	VCP	1940	64	2025-2030
WR989	6	VCP	1940	49	2030-2045
WR990	6	VCP	1940	64	2025-2030
WR991	6	DIP	1960	42	2030-2045
WR992	6	VCP	1940	48	2030-2045
WR993	6	VCP	1940	48	2030-2045
WR994	6	DIP	1960	56	2030-2045
WR995	8	VCP	1940	32	2030-2045
WR996	6	VCP	1940	64	2025-2030
WR997	6	VCP	1940	64	2025-2030
WR998	8	VCP	1940	40	2030-2045
WR999	8	VCP	1940	40	2030-2045
WR1000	6	PVC	1980	16	2045-2070
WR1001	6	VCP	1940	24	2045-2070
WR1002	6	VCP	1940	24	2045-2070
WR1003	8	VCP	1940	32	2030-2045
WR1004	8	PVC	1980	12	2045-2070
WR1005	8	VCP	1940	24	2045-2070
WR1006	8	VCP	1940	48	2030-2045
WR1007	6	VCP	1940	48	2030-2045
WR1008	6	VCP	1940	42	2030-2045
WR1009	6	VCP	1940	42	2030-2045
WR1010	8	VCP	1940	24	2045-2070
WR1011	8	VCP	1940	24	2045-2070
WR1012	6	PVC	1980	12	2045-2070
WR1013	8	VCP	1940	24	2045-2070
WR1014	8	VCP	1940	24	2045-2070
WR1015	8	VCP	1940	24	2045-2070
WR1016	6	PVC	1980	12	2045-2070
WR1017	8	VCP	1940	21	2045-2070
WR1018	8	VCP	1940	24	2045-2070
WR1019	8	VCP	1940	24	2045-2070
WR1020	8	VCP	1940	28	2045-2070
WR1021	4	PVC	1980	16	2045-2070
WR1022	6	VCP	1940	24	2045-2070
WR1023	6	VCP	1940	21	2045-2070
WR1024	6	VCP	1940	24	2045-2070
WR1025	6	VCP	1940	24	2045-2070
WR1026	6	VCP	1940	24	2045-2070
WR1027	6	VCP	1940	24	2045-2070
WR1028	6	VCP	1940	24	2045-2070
WR1029	6	VCP	1940	28	2045-2070
WR1030	4	VCP	1940	21	2045-2070
WR1031	4	PVC	1980	16	2045-2070
WR1032	6	VCP	1940	32	2030-2045
WR1033	6	VCP	1940	56	2030-2045

WR1034	6	VCP	1940	80	2025-2030
WR1035	6	CAS	1920	90	2020-2025
WR1036	8	CAS	1920	90	2020-2025
WR1037	8	CIPP	1960	63	2025-2030
WR1038	8	VCP	1940	80	2025-2030
WR1039	4	VCP	1940	72	2025-2030
WR1040	8	PVC	1980	25	2045-2070
WR1041	8	PVC	1980	30	2045-2070
WR1042	8	VCP	1940	32	2030-2045
WR1043	8	PVC	1980	16	2045-2070
WR1044	8	PVC	1980	16	2045-2070
WR1045	8	PVC	1980	16	2045-2070
WR1046	8	PVC	1980	24	2045-2070
WR1047	8	PVC	1980	30	2045-2070
WR1048	8	PVC	1980	24	2045-2070
WR1049	8	PVC	1980	12	2045-2070
WR1050	8	CAS	1920	27	2045-2070
WR1051	4	PVC	1980	12	2045-2070
WR1052	4	PVC	1980	12	2045-2070
WR1053	8	PVC	1980	35	2030-2045
WR1054	8	PVC	1980	16	2045-2070
WR1055	8	PVC	1980	8	2070+
WR1056	8	PVC	1980	8	2070+
WR1057	8	PVC	1980	8	2070+
WR1058	8	PVC	1980	8	2070+
WR1059	8	PVC	1980	8	2070+
WR1060	8	DIP	1960	56	2030-2045
WR1061	8	PVC	1980	8	2070+
WR1062	8	PVC	1980	28	2045-2070
WR1063	8	PVC	1980	12	2045-2070
WR1064	8	PVC	1980	16	2045-2070
WR1065	8	PVC	1980	8	2070+
WR1066	8	PVC	1980	8	2070+
WR1067	8	PVC	1980	24	2045-2070
WR1068	8	PVC	1980	24	2045-2070
WR1069	8	PVC	1980	28	2045-2070
WR1070	8	PVC	1980	32	2030-2045
WR1071	8	PVC	1980	32	2030-2045
WR1072	8	PVC	1980	45	2030-2045
WR1073	8	PVC	1980	45	2030-2045
WR1074	8	PVC	1980	40	2030-2045
WR1075	8	PVC	1980	40	2030-2045
WR1076	8	PVC	1980	40	2030-2045
WR1077	8	DIP	1960	70	2025-2030
WR1078	8	PVC	1980	8	2070+
WR1079	8	PVC	1980	8	2070+
WR1080	8	PVC	1980	8	2070+
WR1081	4	PVC	1980	12	2045-2070
WR1082	4	PVC	1980	8	2070+
WR1083	8	PVC	1980	8	2070+
WR1084	8	PVC	1980	8	2070+
WR1085	8	PVC	1980	8	2070+
WR1086	8	PVC	1980	8	2070+
WR1087	8	PVC	1980	8	2070+
WR1088	8	PVC	1980	8	2070+
WR1089	8	PVC	1980	8	2070+
WR1090	8	PVC	1980	12	2045-2070
WR1091	8	PVC	1980	12	2045-2070
WR1092	8	PVC	1980	20	2045-2070
WR1093	4	PVC	1980	12	2045-2070
WR1094	8	PVC	1980	20	2045-2070

WR1095	8	PVC	1980	24	2045-2070
WR1096	8	PVC	1980	40	2030-2045
WR1097	8	PVC	1980	24	2045-2070
WR1098	8	PVC	1980	24	2045-2070
WR1099	8	PVC	1980	28	2045-2070
WR1100	4	PVC	1980	8	2070+
WR1101	8	PVC	1980	8	2070+
WR1102	8	PVC	1980	8	2070+
WR1103	8	PVC	1980	12	2045-2070
WR1104	8	PVC	1980	8	2070+
WR1105	8	PVC	1980	24	2045-2070
WR1106	8	PVC	1980	8	2070+
WR1107	8	PVC	1980	28	2045-2070
WR1108	8	PVC	1980	12	2045-2070
WR1109	8	PVC	1980	24	2045-2070
WR1110	8	PVC	1980	28	2045-2070
WR1111	8	PVC	1980	12	2045-2070
WR1112	8	PVC	1980	12	2045-2070
WR1113	8	PVC	1980	12	2045-2070
WR1114	8	PVC	1980	12	2045-2070
WR1115	8	PVC	1980	12	2045-2070
WR1116	8	PVC	1980	12	2045-2070
WR1117	8	PVC	1980	8	2070+
WR1118	8	PVC	1980	8	2070+
WR1119	4	PVC	1980	8	2070+
WR1120	8	PVC	1980	8	2070+
WR1121	8	PVC	1980	8	2070+
WR1122	8	PVC	1980	8	2070+
WR1123	8	PVC	1980	12	2045-2070
WR1124	8	PVC	1980	12	2045-2070
WR1125	4	PVC	1980	8	2070+
WR1126	8	PVC	1980	8	2070+
WR1127	8	PVC	1980	12	2045-2070
WR1128	8	PVC	1980	12	2045-2070
WR1129	8	PVC	1980	8	2070+
WR1130	8	DIP	1980	18	2045-2070
WR1131	6	PVC	1980	12	2045-2070
WR1132	8	VCP	1940	21	2045-2070
WR1133	8	VCP	1940	24	2045-2070
WR1134	4	PVC	1980	12	2045-2070
WR1135	8	VCP	1940	24	2045-2070
WR1136	6	VCP	1940	24	2045-2070
WR1137	6	VCP	1940	24	2045-2070
WR1138	6	VCP	1940	24	2045-2070
WR1139	6	VCP	1940	24	2045-2070
WR1140	6	VCP	1940	21	2045-2070
WR1141	8	VCP	1940	21	2045-2070
WR1142	6	VCP	1940	21	2045-2070
WR1143	6	VCP	1940	28	2045-2070
WR1144	6	VCP	1940	21	2045-2070
WR1145	6	VCP	1940	21	2045-2070
WR1146	8	VCP	1940	21	2045-2070
WR1147	8	VCP	1940	21	2045-2070
WR1148	8	VCP	1940	24	2045-2070
WR1149	8	VCP	1940	24	2045-2070
WR1150	8	VCP	1940	48	2030-2045
WR1151	6	VCP	1940	21	2045-2070
WR1152	6	VCP	1940	24	2045-2070
WR1153	6	VCP	1940	28	2045-2070
WR1154	6	VCP	1940	21	2045-2070
WR1155	6	VCP	1940	21	2045-2070

WR1156	6	VCP	1940	21	2045-2070
WR1157	6	VCP	1940	21	2045-2070
WR1158	6	VCP	1940	28	2045-2070
WR1159	6	VCP	1940	24	2045-2070
WR1160	6	VCP	1940	21	2045-2070
WR1161	6	VCP	1940	21	2045-2070
WR1162	8	VCP	1940	21	2045-2070
WR1163	8	VCP	1940	14	2045-2070
WR1164	8	VCP	1940	24	2045-2070
WR1165	6	VCP	1940	21	2045-2070
WR1166	8	VCP	1940	21	2045-2070
WR1167	8	VCP	1940	24	2045-2070
WR1168	6	VCP	1940	24	2045-2070
WR1169	8	DIP	1960	36	2030-2045
WR1170	8	DIP	1960	36	2030-2045
WR1171	8	DIP	1960	42	2030-2045
WR1172	8	DIP	1960	42	2030-2045
WR1173	8	PVC	1980	12	2045-2070
WR1174	8	PVC	1980	16	2045-2070
WR1175	8	PVC	1980	12	2045-2070
WR1176	8	PVC	1980	12	2045-2070
WR1177	8	PVC	1980	10	2045-2070
WR1178	8	PVC	1980	8	2070+
WR1179	8	PVC	1980	12	2045-2070
WR1180	8	PVC	1980	24	2045-2070
WR1181	8	PVC	1980	24	2045-2070
WR1182	8	PVC	1980	24	2045-2070
WR1183	8	DIP	1960	42	2030-2045
WR1184	8	VCP	1940	56	2030-2045
WR1185	8	DIP	1960	36	2030-2045
WR1186	8	CAS	1920	63	2025-2030
WR1187	8	PVC	1980	32	2030-2045
WR1188	8	PVC	1980	24	2045-2070
WR1189	8	PVC	1980	12	2045-2070
WR1190	8	PVC	1980	12	2045-2070
WR1191	8	VCP	1940	42	2030-2045
WR1192	8	VCP	1940	49	2030-2045
WR1193	8	CAS	1920	70	2025-2030
WR1194	8	CAS	1920	70	2025-2030
WR1195	8	DIP	1960	18	2045-2070
WR1196	8	PVC	1980	8	2070+
WR1197	8	DIP	1960	14	2045-2070
WR1198	8	PVC	1980	15	2045-2070
WR1199	8	PVC	1980	8	2070+
WR1200	8	PVC	1980	8	2070+
WR1201	8	PVC	1980	8	2070+
WR1202	8	PVC	1980	8	2070+
WR1203	8	PVC	1980	12	2045-2070
WR1204	8	PVC	1980	12	2045-2070
WR1205	8	PVC	1980	24	2045-2070
WR1206	8	PVC	1980	40	2030-2045
WR1207	8	PVC	1980	40	2030-2045
WR1208	8	PVC	1980	40	2030-2045
WR1209	8	VCP	1940	28	2045-2070
WR1210	8	VCP	1940	21	2045-2070
WR1211	8	VCP	1940	24	2045-2070
WR1212	6	VCP	1940	24	2045-2070
WR1213	6	VCP	1940	48	2030-2045
WR1214	6	VCP	1940	64	2025-2030
WR1215	8	PVC	1980	8	2070+
WR1216	8	DIP	1960	14	2045-2070

WR1217	8	PVC	1980	12	2045-2070
WR1218	8	PVC	1980	12	2045-2070
WR1219	8	PVC	1980	12	2045-2070
WR1220	8	PVC	1980	12	2045-2070
WR1221	8	PVC	1980	12	2045-2070
WR1222	8	PVC	1980	12	2045-2070
WR1223	8	PVC	1980	12	2045-2070
WR1224	8	PVC	1980	12	2045-2070
WR1225	8	PVC	1980	12	2045-2070
WR1226	8	PVC	1980	12	2045-2070
WR1227	8	PVC	1980	12	2045-2070
WR1228	8	PVC	1980	8	2070+
WR1229	8	PVC	1980	8	2070+
WR1230	8	PVC	1980	8	2070+
WR1231	8	PVC	1980	12	2045-2070
WR1232	8	PVC	1980	12	2045-2070
WR1233	8	PVC	1980	12	2045-2070
WR1234	8	PVC	1980	8	2070+
WR1235	8	PVC	1980	12	2045-2070
WR1236	8	PVC	1980	12	2045-2070
WR1237	10	VCP	1940	48	2030-2045
WR1238	8	DIP	1960	56	2030-2045
WR1239	8	PVC	1980	28	2045-2070
WR1240	8	PVC	1980	28	2045-2070
WR1241	8	DIP	1960	49	2030-2045
WR1242	8	DIP	1960	49	2030-2045
WR1243	8	PVC	1980	8	2070+
WR1244	8	PVC	1980	15	2045-2070
WR1245	8	PVC	1980	15	2045-2070
WR1246	8	PVC	1980	10	2045-2070
WR1247	8	PVC	1980	10	2045-2070
WR1248	8	PVC	1980	35	2030-2045
WR1249	8	PVC	1980	8	2070+
WR1250	8	PVC	1980	8	2070+
WR1251	8	PVC	1980	8	2070+
WR1252	8	PVC	1980	12	2045-2070
WR1253	8	PVC	1980	16	2045-2070
WR1254	8	PVC	1980	24	2045-2070
WR1255	8	PVC	1980	8	2070+
WR1256	8	PVC	1980	8	2070+
WR1257	8	PVC	1980	8	2070+
WR1258	8	PVC	1980	12	2045-2070
WR1259	8	PVC	1980	12	2045-2070
WR1260	8	PVC	1980	12	2045-2070
WR1261	8	PVC	1980	12	2045-2070
WR1262	8	PVC	1980	8	2070+
WR1263	8	CAS	1920	72	2025-2030
WR1264	8	VCP	1940	56	2030-2045
WR1265	8	VCP	1940	48	2030-2045
WR1266	8	VCP	1940	42	2030-2045
WR1267	8	VCP	1940	48	2030-2045
WR1268	8	VCP	1940	48	2030-2045
WR1269	8	PVC	1980	32	2030-2045
WR1270	8	DIP	1960	48	2030-2045
WR1271	8	PVC	1980	30	2045-2070
WR1272	8	VCP	1940	21	2045-2070
WR1273	8	VCP	1940	21	2045-2070
WR1274	8	VCP	1940	42	2030-2045
WR1275	6	VCP	1940	24	2045-2070
WR1276	8	PVC	1980	24	2045-2070
WR1277	8	PVC	1980	24	2045-2070

WR1278	8	PVC	1980	24	2045-2070
WR1279	8	PVC	1980	24	2045-2070
WR1280	8	PVC	1980	24	2045-2070
WR1281	8	PVC	1980	24	2045-2070
WR1282	8	PVC	1980	28	2045-2070
WR1283	8	PVC	1980	24	2045-2070
WR1284	8	PVC	1980	8	2070+
WR1285	8	PVC	1980	28	2045-2070
WR1286	8	PVC	1980	28	2045-2070
WR1287	8	PVC	1980	8	2070+
WR1288	8	PVC	1980	12	2045-2070
WR1289	8	PVC	1980	12	2045-2070
WR1290	8	PVC	1980	24	2045-2070
WR1291	8	PVC	1980	12	2045-2070
WR1292	8	PVC	1980	24	2045-2070
WR1293	8	PVC	1980	12	2045-2070
WR1294	8	PVC	1980	12	2045-2070
WR1295	8	PVC	1980	12	2045-2070
WR1296	6	VCP	1940	24	2045-2070
WR1297	8	VCP	1940	21	2045-2070
WR1298	8	PVC	1980	32	2030-2045
WR1299	8	PVC	1980	12	2045-2070
WR1300	8	PVC	1980	20	2045-2070
WR1301	8	PVC	1980	24	2045-2070
WR1302	8	PVC	1980	20	2045-2070
WR1303	8	PVC	1980	24	2045-2070
WR1304	8	PVC	1980	20	2045-2070
WR1305	8	PVC	1980	24	2045-2070
WR1306	8	PVC	1980	12	2045-2070
WR1307	8	PVC	1980	24	2045-2070
WR1308	8	VCP	1940	42	2030-2045
WR1309	8	VCP	1940	48	2030-2045
WR1310	8	VCP	1940	42	2030-2045
WR1311	8	VCP	1940	42	2030-2045
WR1312	8	VCP	1940	21	2045-2070
WR1313	8	PVC	1980	12	2045-2070
WR1314	8	PVC	1980	12	2045-2070
WR1315	8	PVC	1980	12	2045-2070
WR1316	8	PVC	1980	12	2045-2070
WR1317	8	VCP	1940	24	2045-2070
WR1318	8	VCP	1940	24	2045-2070
WR1319	8	VCP	1940	42	2030-2045
WR1320	8	VCP	1940	21	2045-2070
WR1321	8	PVC	1980	16	2045-2070
WR1322	12	VCP	1940	24	2045-2070
WR1323	12	VCP	1940	24	2045-2070
WR1324	12	VCP	1940	24	2045-2070
WR1325	8	DIP	1960	28	2045-2070
WR1326	8	PVC	1980	16	2045-2070
WR1327	8	PVC	1980	12	2045-2070
WR1328	8	PVC	1980	12	2045-2070
WR1329	8	VCP	1940	48	2030-2045
WR1330	6	OTH	1940	48	2030-2045
WR1331	6	VCP	1940	56	2030-2045
WR1332	8	VCP	1940	56	2030-2045
WR1333	8	VCP	1940	56	2030-2045
WR1334	8	VCP	1940	49	2030-2045
WR1335	8	VCP	1940	49	2030-2045
WR1336	8	VCP	1940	56	2030-2045
WR1337	12	VCP	1940	56	2030-2045
WR1338	15	VCP	1940	56	2030-2045

WR1339	8	DIP	1960	42	2030-2045
WR1340	8	VCP	1940	42	2030-2045
WR1341	8	DIP	1960	56	2030-2045
WR1342	12	VCP	1940	64	2025-2030
WR1343	8	VCP	1940	80	2025-2030
WR1344	8	PVC	1980	16	2045-2070
WR1345	8	PVC	1980	12	2045-2070
WR1346	8	PVC	1980	12	2045-2070
WR1347	8	PVC	1980	12	2045-2070
WR1348	8	PVC	1980	12	2045-2070
WR1349	8	PVC	1980	12	2045-2070
WR1350	8	PVC	1980	12	2045-2070
WR1351	8	PVC	1980	12	2045-2070
WR1352	8	PVC	1980	12	2045-2070
WR1353	8	PVC	1980	12	2045-2070
WR1354	8	PVC	1980	12	2045-2070
WR1355	8	PVC	1980	12	2045-2070
WR1356	8	PVC	1980	16	2045-2070
WR1357	8	PVC	1980	16	2045-2070
WR1358	6	VCP	1940	64	2025-2030
WR1359	30	VCP	1940	80	2025-2030
WR1360	8	PVC	1980	12	2045-2070
WR1361	8	PVC	1980	12	2045-2070
WR1362	8	PVC	1980	12	2045-2070
WR1363	8	DIP	1960	21	2045-2070
WR1364	8	PVC	1980	12	2045-2070
WR1365	8	DIP	1960	21	2045-2070
WR1366	8	PVC	1980	8	2070+
WR1367	8	PVC	1980	12	2045-2070
WR1368	8	PVC	1980	8	2070+
WR1369	8	PVC	1980	12	2045-2070
WR1370	8	PVC	1980	12	2045-2070
WR1371	8	PVC	1980	15	2045-2070
WR1372	8	VCP	1940	28	2045-2070
WR1373	8	VCP	1940	28	2045-2070
WR1374	8	VCP	1940	32	2030-2045
WR1375	10	VCP	1940	48	2030-2045
WR1376	6	PVC	1980	16	2045-2070
WR1377	8	VCP	1940	48	2030-2045
WR1378	8	PVC	1980	12	2045-2070
WR1379	8	PVC	1980	12	2045-2070
WR1380	8	PVC	1980	16	2045-2070
WR1381	8	PVC	1980	12	2045-2070
WR1382	12	VCP	1940	24	2045-2070
WR1383	12	VCP	1940	24	2045-2070
WR1384	12	VCP	1940	32	2030-2045
WR1385	8	PVC	1980	8	2070+
WR1386	8	PVC	1980	16	2045-2070
WR1387	12	OTH	1980	60	2025-2030
WR1388	12	VCP	1940	72	2025-2030
WR1389	12	DIP	1960	70	2025-2030
WR1390	12	VCP	1940	24	2045-2070
WR1391	12	OTH	1940	63	2025-2030
WR1392	15	VCP	1940	32	2030-2045
WR1393	15	VCP	1940	80	2025-2030
WR1394	15	VCP	1940	72	2025-2030
WR1395	15	VCP	1940	80	2025-2030
WR1396	30	VCP	1940	80	2025-2030
WR1397	30	VCP	1940	80	2025-2030
WR1398	30	VCP	1940	64	2025-2030
WR1399	30	VCP	1940	56	2030-2045

WR1400	30	VCP	1940	48	2030-2045
WR1401	30	VCP	1940	80	2025-2030
WR1402	15	CAS	1920	63	2025-2030
WR1403	15	CAS	1920	63	2025-2030
WR1404	15	CAS	1920	54	2030-2045
WR1405	15	CAS	1920	63	2025-2030
WR1406	8	VCP	1940	48	2030-2045
WR1407	8	VCP	1940	64	2025-2030
WR1408	8	VCP	1940	42	2030-2045
WR1409	8	VCP	1940	42	2030-2045
WR1410	8	BR	1940	48	2030-2045
WR1411	8	VCP	1940	42	2030-2045
WR1412	8	VCP	1940	42	2030-2045
WR1413	8	VCP	1940	48	2030-2045
WR1414	8	VCP	1940	64	2025-2030
WR1415	8	VCP	1940	42	2030-2045
WR1416	8	VCP	1940	42	2030-2045
WR1417	8	VCP	1940	42	2030-2045
WR1418	8	VCP	1940	48	2030-2045
WR1419	8	VCP	1940	21	2045-2070
WR1420	8	VCP	1940	48	2030-2045
WR1421	8	VCP	1940	48	2030-2045
WR1422	8	VCP	1940	24	2045-2070
WR1423	8	VCP	1940	24	2045-2070
WR1424	8	VCP	1940	42	2030-2045
WR1425	6	VCP	1940	42	2030-2045
WR1426	8	VCP	1940	42	2030-2045
WR1427	6	VCP	1940	48	2030-2045
WR1428	6	VCP	1940	48	2030-2045
WR1429	6	VCP	1940	48	2030-2045
WR1430	8	VCP	1940	48	2030-2045
WR1431	8	VCP	1940	48	2030-2045
WR1432	8	VCP	1940	48	2030-2045
WR1433	8	VCP	1940	48	2030-2045
WR1434	8	VCP	1940	48	2030-2045
WR1435	8	VCP	1940	48	2030-2045
WR1436	8	VCP	1940	48	2030-2045
WR1437	8	VCP	1940	21	2045-2070
WR1438	8	VCP	1940	21	2045-2070
WR1439	8	VCP	1940	48	2030-2045
WR1440	8	VCP	1940	21	2045-2070
WR1441	8	VCP	1940	64	2025-2030
WR1442	8	VCP	1940	64	2025-2030
WR1443	8	VCP	1940	56	2030-2045
WR1444	8	VCP	1940	42	2030-2045
WR1445	8	VCP	1940	42	2030-2045
WR1446	8	VCP	1940	21	2045-2070
WR1447	6	VCP	1940	28	2045-2070
WR1448	6	VCP	1940	21	2045-2070
WR1449	6	VCP	1940	21	2045-2070
WR1450	8	VCP	1940	21	2045-2070
WR1451	8	VCP	1940	49	2030-2045
WR1452	15	CAS	1920	63	2025-2030
WR1453	15	CAS	1920	81	2025-2030
WR1454	15	CAS	1920	81	2025-2030
WR1455	8	PVC	1980	24	2045-2070
WR1456	8	PVC	1980	30	2045-2070
WR1457	8	VCP	1940	48	2030-2045
WR1458	6	VCP	1940	42	2030-2045
WR1459	8	VCP	1940	64	2025-2030
WR1460	8	VCP	1940	64	2025-2030

WR1461	8	PVC	1980	24	2045-2070
WR1462	8	PVC	1980	24	2045-2070
WR1463	8	VCP	1940	48	2030-2045
WR1464	8	VCP	1940	48	2030-2045
WR1465	8	VCP	1940	42	2030-2045
WR1466	8	VCP	1940	42	2030-2045
WR1467	8	PVC	1980	32	2030-2045
WR1468	6	VCP	1940	21	2045-2070
WR1469	8	VCP	1940	42	2030-2045
WR1470	8	VCP	1940	42	2030-2045
WR1471	8	VCP	1940	42	2030-2045
WR1472	8	VCP	1940	42	2030-2045
WR1473	8	VCP	1940	42	2030-2045
WR1474	8	VCP	1940	42	2030-2045
WR1475	8	VCP	1940	56	2030-2045
WR1476	8	VCP	1940	56	2030-2045
WR1477	8	VCP	1940	56	2030-2045
WR1478	8	CAS	1920	90	2020-2025
WR1479	8	VCP	1940	56	2030-2045
WR1480	8	VCP	1940	56	2030-2045
WR1481	8	VCP	1940	56	2030-2045
WR1482	8	VCP	1940	70	2025-2030
WR1483	8	VCP	1940	63	2025-2030
WR1484	8	VCP	1940	49	2030-2045
WR1485	10	DIP	1960	60	2025-2030
WR1486	10	DIP	1960	28	2045-2070
WR1487	10	VCP	1940	64	2025-2030
WR1488	15	VCP	1940	72	2025-2030
WR1489	30	VCP	1940	80	2025-2030
WR1490	30	VCP	1940	72	2025-2030
WR1491	30	VCP	1940	80	2025-2030
WR1492	15	VCP	1940	56	2030-2045
WR1493	6	VCP	1940	28	2045-2070
WR1494	6	VCP	1940	21	2045-2070
WR1495	8	VCP	1940	28	2045-2070
WR1496	8	VCP	1940	28	2045-2070
WR1497	8	VCP	1940	21	2045-2070
WR1498	8	VCP	1940	49	2030-2045
WR1499	8	VCP	1940	56	2030-2045
WR1500	8	VCP	1940	49	2030-2045
WR1501	8	VCP	1940	56	2030-2045
WR1502	8	VCP	1940	49	2030-2045
WR1503	8	VCP	1940	56	2030-2045
WR1504	8	VCP	1940	42	2030-2045
WR1505	10	DIP	1960	48	2030-2045
WR1506	10	DIP	1960	48	2030-2045
WR1507	10	DIP	1960	54	2030-2045
WR1508	8	VCP	1940	80	2025-2030
WR1509	8	VCP	1940	80	2025-2030
WR1510	8	VCP	1940	21	2045-2070
WR1511	8	VCP	1940	56	2030-2045
WR1512	6	VCP	1940	21	2045-2070
WR1513	6	VCP	1940	28	2045-2070
WR1514	6	VCP	1940	24	2045-2070
WR1515	6	VCP	1940	32	2030-2045
WR1516	8	VCP	1940	24	2045-2070
WR1517	6	VCP	1940	24	2045-2070
WR1518	6	VCP	1940	24	2045-2070
WR1519	8	VCP	1940	28	2045-2070
WR1520	8	VCP	1940	80	2025-2030
WR1521	6	VCP	1940	56	2030-2045

WR1522	8	VCP	1940	56	2030-2045
WR1523	6	VCP	1940	48	2030-2045
WR1524	6	VCP	1940	42	2030-2045
WR1525	8	VCP	1940	24	2045-2070
WR1526	8	PVC	1980	16	2045-2070
WR1527	8	PVC	1980	20	2045-2070
WR1528	8	PVC	1980	24	2045-2070
WR1529	8	PVC	1980	24	2045-2070
WR1530	12	RPM	1980	35	2030-2045
WR1531	15	VCP	1940	56	2030-2045
WR1532	15	DIP	1960	42	2030-2045
WR1533	12	VCP	1940	56	2030-2045
WR1534	15	VCP	1940	63	2025-2030
WR1535	15	VCP	1940	63	2025-2030
WR1536	12	PVC	1988	36	2030-2045
WR1537	8	PVC	2009	21	2045-2070
WR1538	8	PVC	2009	24	2045-2070
WR1539	8	PVC	2009	21	2045-2070
WR1540	8	PVC	2009	24	2045-2070
WR1541	8	PVC	2009	21	2045-2070
WR1542	8	PVC	2009	21	2045-2070
WR1543	8	PVC	2009	21	2045-2070
WR1544	8	PVC	2009	21	2045-2070
WR1545	8	PVC	2009	21	2045-2070
WR1546	8	PVC	2009	21	2045-2070
WR1547	8	PVC	2009	24	2045-2070
WR1548	8	PVC	2009	21	2045-2070
WR1549	8	PVC	2009	24	2045-2070
WR1550	8	PVC	2009	24	2045-2070
WR1551	8	PVC	2009	24	2045-2070
WR1552	8	PVC	2009	21	2045-2070
WR1553	8	PVC	2009	18	2045-2070
WR1554	8	PVC	2009	18	2045-2070
WR1555	8	PVC	2009	24	2045-2070
WR1556	8	PVC	2012	21	2045-2070
WR1557	8	PVC	2012	18	2045-2070
WR1558	8	PVC	2009	21	2045-2070
WR1559	8	PVC	2012	18	2045-2070
WR1560	8	PVC	2012	18	2045-2070
WR1561	8	PVC	2012	9	2070+
WR1562	8	PVC	2012	12	2045-2070
WR1563	8	PVC	2012	18	2045-2070
WR1564	8	PVC	2012	15	2045-2070
WR1565	8	PVC	2012	15	2045-2070
WR1566	8	PVC	1980	24	2045-2070
WR1567	8	PVC	1980	24	2045-2070
WR1568	8	PVC	1980	24	2045-2070
WR1569	8	PVC	1980	24	2045-2070
WR1570	8	PVC	1980	24	2045-2070
WR1571	8	PVC	1980	8	2070+
WR1572	8	PVC	1980	8	2070+
WR1573	8	PVC	1980	8	2070+
WR1574	8	PVC	1980	24	2045-2070
WR1575	8	PVC	1980	24	2045-2070
WR1576	8	PVC	1980	24	2045-2070
WR1577	8	PVC	1980	12	2045-2070
WR1578	8	PVC	1980	28	2045-2070
WR1579	8	PVC	1980	8	2070+
WR1580	8	PVC	1980	8	2070+
WR1581	8	PVC	1980	8	2070+
WR1582	8	PVC	2012	18	2045-2070

WR1583	8	PVC	2012	18	2045-2070
WR1584	8	PVC	2012	27	2045-2070
WR1585	8	PVC	2012	27	2045-2070
WR1586	8	PVC	1980	16	2045-2070
WR1587	8	PVC	1980	12	2045-2070
WR1588	8	PVC	1980	16	2045-2070
WR1589	8	PVC	1980	12	2045-2070
WR1590	8	PVC	1980	16	2045-2070
WR1591	8	PVC	2002	24	2045-2070
WR1592	8	PVC	2002	18	2045-2070
WR1593	8	PVC	2002	18	2045-2070
WR1594	8	PVC	2002	24	2045-2070
WR1595	8	PVC	2002	24	2045-2070
WR1596	8	PVC	1988	28	2045-2070
WR1597	8	PVC	1988	32	2030-2045
WR1598	8	PVC	1988	32	2030-2045
WR1599	8	PVC	1988	24	2045-2070
WR1600	8	PVC	1988	28	2045-2070
WR1601	8	PVC	1988	28	2045-2070
WR1602	8	PVC	1988	40	2030-2045
WR1603	8	PVC	1988	40	2030-2045
WR1604	8	PVC	2001	18	2045-2070
WR1605	8	PVC	2001	18	2045-2070
WR1606	8	PVC	2001	24	2045-2070
WR1607	8	PVC	2001	24	2045-2070
WR1608	8	PVC	2001	18	2045-2070
WR1609	8	PVC	2001	21	2045-2070
WR1610	8	PVC	2001	24	2045-2070
WR1611	8	PVC	1980	28	2045-2070
WR1612	8	PVC	1980	24	2045-2070
WR1613	8	PVC	1980	28	2045-2070
WR1614	8	PVC	1980	28	2045-2070
WR1615	8	VCP	1940	49	2030-2045
WR1616	8	VCP	1940	28	2045-2070
WR1617	8	PVC	1980	32	2030-2045
WR1618	8	VCP	1940	42	2030-2045
WR1619	8	PVC	2017	9	2070+
WR1620	8	PVC	2017	9	2070+
WR1621	8	PVC	2017	9	2070+
WR1622	8	PVC	2017	9	2070+
WR1623	8	PVC	2017	9	2070+
WR1624	8	PVC	2017	9	2070+
WR1625	8	PVC	2017	9	2070+
WR1626	8	PVC	2017	9	2070+
WR1627	8	PVC	2017	9	2070+
WR1628	8	PVC	2017	9	2070+
WR1629	8	PVC	2017	9	2070+
WR1630	8	PVC	2017	9	2070+
WR1631	8	PVC	2017	9	2070+
WR1632	8	PVC	2017	9	2070+
WR1633	8	PVC	2017	9	2070+
WR1634	8	PVC	2017	9	2070+
WR1635	8	PVC	2017	9	2070+
WR1636	8	PVC	2017	9	2070+
WR1637	8	PVC	2017	9	2070+
WR1638	8	PVC	2017	9	2070+
WR1639	8	PVC	2017	9	2070+
WR1640	8	PVC	2017	9	2070+
WR1641	8	PVC	2017	9	2070+
WR1642	30	VCP	1940	72	2025-2030
WR1643	30	VCP	1940	72	2025-2030

WR1644	15	VCP	1940	72	2025-2030
WR1645	18	CAS	1920	81	2025-2030
WR1646	12	VCP	1940	72	2025-2030
WR1647	12	VCP	1940	72	2025-2030
WR1648	12	VCP	1940	72	2025-2030
WR1649	12	VCP	1940	72	2025-2030
WR1650	12	VCP	1940	49	2030-2045
WR1651	30	VCP	1940	40	2030-2045
WR1652	8	PVC	1980	36	2030-2045
WR1653	8	PVC	1980	36	2030-2045
WR1654	8	PVC	2003	30	2045-2070
WR1655	8	PVC	2003	36	2030-2045
WR1656	8	PVC	2003	24	2045-2070
WR1657	8	PVC	1980	12	2045-2070
WR1658	12	VCP	1940	24	2045-2070
WR1659	12	VCP	1940	24	2045-2070
WR1660	12	VCP	1940	21	2045-2070
WR1661	8	PVC	1980	16	2045-2070
WR1662	8	PVC	1980	12	2045-2070
WR1663	8	DIP	1960	60	2025-2030
WR1664	8	DIP	1960	54	2030-2045
WR1665	4	PVC	1980	36	2030-2045
WR1666	12	DIP	1960	42	2030-2045
WR1667	12	PVC	1980	24	2045-2070
WR1668	8	DIP	1960	70	2025-2030
WR10000	15	VCP	UNKNOWN	100	2020-2025
WR10001	15	VCP	UNKNOWN	100	2020-2025
WR10002	15	VCP	UNKNOWN	100	2020-2025
WR10003	15	VCP	UNKNOWN	100	2020-2025
WR10004	15	VCP	UNKNOWN	100	2020-2025
WR10005	15	VCP	UNKNOWN	100	2020-2025
WR10006	15	VCP	UNKNOWN	100	2020-2025
WR10007	15	VCP	UNKNOWN	100	2020-2025
WR10008	15	VCP	UNKNOWN	100	2020-2025
WR10009	8	PVC	UNKNOWN	100	2020-2025
WR10010	8	PVC	UNKNOWN	100	2020-2025
WR1680	30	VCP	UNKNOWN	80	2025-2030
WR1681	30	VCP	UNKNOWN	80	2025-2030
WR1682	30	VCP	UNKNOWN	80	2025-2030
WR1683	30	VCP	UNKNOWN	80	2025-2030
WR1684	30	VCP	UNKNOWN	80	2025-2030

APPENDIX III – CIP Location Maps



MARION, NC
CIP PROJECT #1
S. GARDEN ST. & S. MAIN ST.

Legend

- CIP Gravity
- CIP Manhole
- Gravity Sewer
- Manhole
- Municipal Limit



MARION, NC CIP PROJECT #2 MARION MILLS



MARION, NC CIP PROJECT #3 EAST COURT STREET



Legend

- CIP Gravity
- CIP Manhole
- Gravity Sewer
- Manhole
- Municipal Limit



MARION, NC
CIP PROJECT #4
221 BYPASS



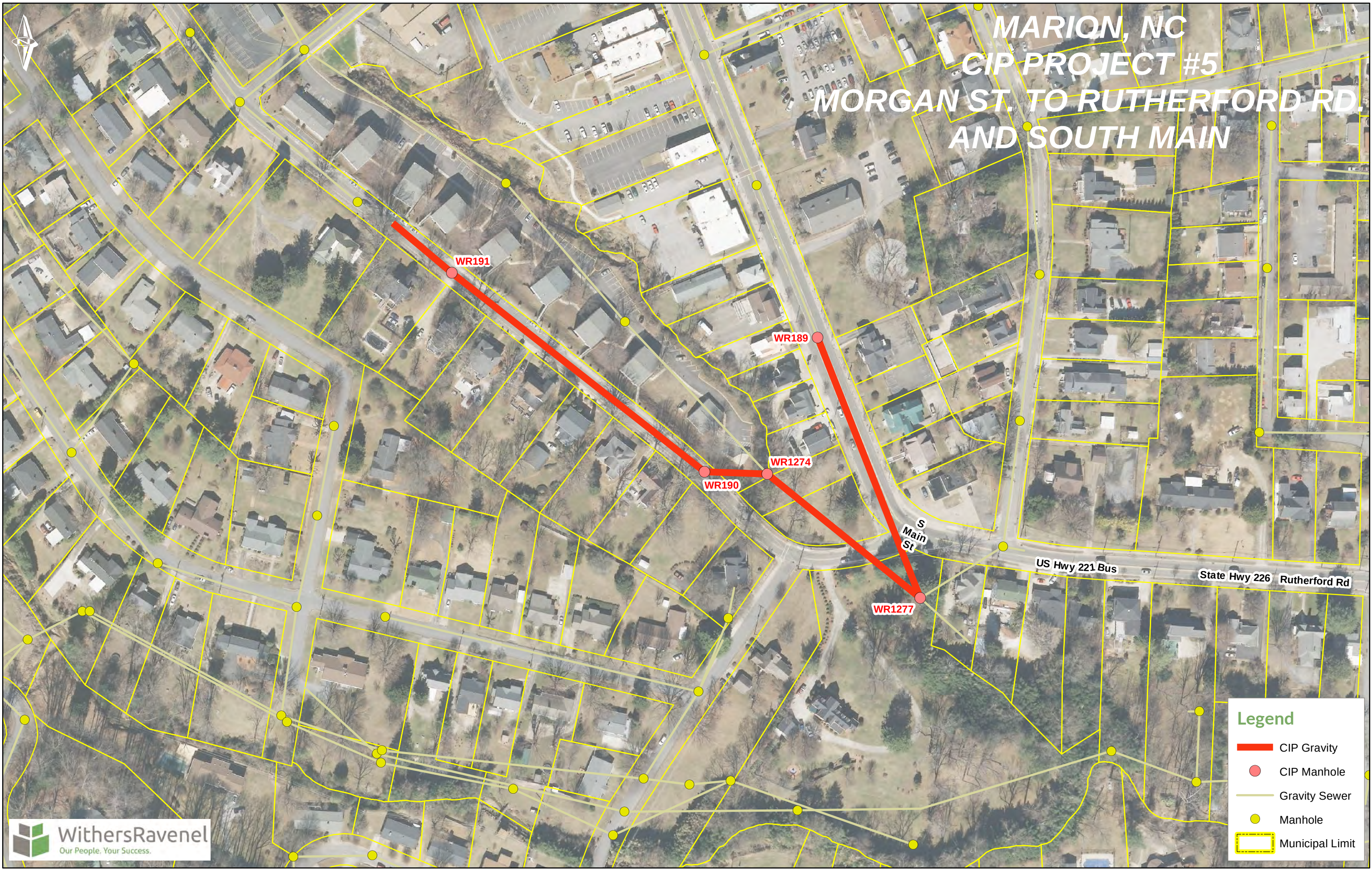
Legend

- CIP Gravity
- CIP Manhole
- Gravity Sewer
- Manhole
- Municipal Limit





MARION, NC CIP PROJECT #5 MORGAN ST. TO RUTHERFORD RD. AND SOUTH MAIN



MARION, NC
CIP PROJECT #6
UNIVERSAL BUILDING





MARION, NC CIP PROJECT #7 WEST COURT/ LOGAN INTERSECTION



Legend

- CIP Gravity
- CIP Manhole
- Gravity Sewer
- Manhole
- Municipal Limit



MARION, NC
CIP PROJECT #8
OLD GREENLEE ROAD
AERIAL SEWER CROSSING



Legend

- Manhole
- CIP Manhole
- Gravity Sewer
- CIP Crossing
- Municipal Limit