



City of Grand Island Utilities Department Annual Report for 2020



Utilities Department – Highlights for 2020

Production Division

Platte Generating Station

- The Powder Activated Carbon slide valve that controls which side of the silo and blower the pack is taken from was replaced.
- Issues with the boiler water treatment system were noticed, and staff members were able to make a temporary fix to the system until parts arrived.
- Platte Generating Station went off-line due to low market pricing in the Southwest Power Pool (SPP) on April 3, 2020. Plant staff then went into outage to spread out the contractors that were needed to complete outage items and separate personnel to minimize the risk of the spread of COVID 19. On April 29, operations went to shelter-in-place.
- Platte Generating Station spring outage was completed with careful scheduling of contractors and plant personnel. Work included:
 - Cleaning of the precipitator and ductwork
 - Cleaning the bottom ash system and condenser tubes
 - Minor work on the boiler was completed including repairing tube shields
 - Pad welding areas of soot blower erosion
 - Repairs were made to the cooling tower from ice damage to the fill
 - The cooling tower fan gear box was rebuilt
- Platte Generating Station was brought on-line on June 10, 2020.
- The Mercury RATA testing was completed to certify the continuous emissions monitor for mercury.
- Platte Generating Station fall outage was completed. Work included:
 - Cleaning the precipitator and ductwork
 - Inspecting and cleaning the boiler
 - Hydro blasting the bottom ash and spray dry absorber
 - Overhauling the steam turbine valves
 - Making repairs to the boiler, including replacing coal nozzle tips and air tips
 - Upgrading the precipitator controls
 - Refurbishing the precipitator by replacing rappers and sealing air leaks
 - Turbine valve overhaul
 - Precipitator controls upgrade and refurbish
 - The large control valves were rebuilt
 - The expansion joint between the turbine and condenser replacement
 - Chimney repairs
 - Coal conveyor belt inspections
- There were 3,638 preventative maintenance work orders and 983 corrective workorders completed in 2020 at PGS, Burdick and the Water production areas.

Burdick Station

- The air dryer was installed and placed into service on the gas turbine air compressors.
- The gas turbines were remotely operated from Platte Generating Station for the first time.
- The seismic probe was replaced on GT2.
- The new Burdick office/maintenance building was completed.

Water System

- The media was changed on the Uranium Removal System.
- The annual well cleaning of wells was completed on Wells 6, 7 and 8.
- Due to lower winter water demand, Rogers Reservoir #1 was taken out of service.

- Repairs were made to the transmission line at Bismark and Stuhr Roads when a flushing line connection pipe cracked. This repair required dewatering and hiring an outside contractor to complete the work.

Water Department

Statistics from the Water Shop Include:

- 303 - Work Orders Opened and Closed/Pending
- 42 - Trouble Calls responded to after hours
- 4 - New fire hydrants were installed/fire hydrants relocated by the Water Shop at:
 - 924 East 4th Street
 - South Blaine & Schimmer Drive
 - Walmart South – Northeast Corner
 - Kimball Reservoir
- 2,790 - Fall hydrant checks were completed
- 731 - Fire hydrants were painted
- 313+ - Dead end Fire Hydrants were flushed – Automatic flushers were placed on dead end mains on the outskirts of the system and moved weekly
- 7 - Hydrants were repaired or replaced that had been damaged by motor vehicles at:
 - 2663 St. Patrick
 - St. Patrick
 - 16th and Walnut
 - 1515 New Castle
 - Old Lincoln Highway & Carey Street
 - Capital Avenue and St. Paul Road
 - 2nd & Locust Streets
- 3 - Private fire hydrants were repaired/replaced at:
 - Americold – west side
 - Mainstay Suites on South Locust Street
 - Behind the old K-Mart
- 26 - Broken Water Mains were repaired – 2” through 12” at:
 - 11th & Ruby
 - 2417 Arrowhead
 - 2710 West 10th Street
 - 18th Street & St. Paul Road
 - 922 Pleasant View Drive
 - College & Houston
 - Cherry & Martin
 - 3rd & Grant
 - 2nd & Blaine
 - 21st & Sycamore
 - Vine & Sunset
 - 18th & Indiana
 - 1741 S. Blaine Street
 - 706 West Oklahoma
 - 1903 S. Sylvan
 - 1715 St. Paul Road
 - 2609 Del Monte
 - #19 Via Como
 - 3104 West 18th Street
 - 321 South Pine Street
 - 410 South Pine Street
 - 13th & Sheridan Place
 - Bismark & Stuhr (blow off hydrant)
 - Capital Avenue & Illinois
 - 2820 Brentwood Blvd.
 - Bismark & Oak Streets
- 1 - Water Main and Service that was damaged by Contractor was repaired in the 900 Block of North Howard Street

- 23 - 4" through 18" Line Valves added or broken/replaced with new valves at:
 - Bismark & Vine Streets
 - Piper & Isle Road
 - Charles & Clark (1-10", 1-8", 2-6")
 - John & Washington
 - John & Clark (2-6", 2-10")
 - Locust & Schuff
 - 9th & Broadwell
 - 8th & Broadwell
 - 10th & Broadwell
 - 10th & Howard
 - Webb & Rue De College
 - Cherry & Bischeld
 - Old Potash Highway & Claude Road (1-10", 1-16")
 - Capital & North Road (2-16")
- 72 ft. of 4" through 18" water main was installed at Burdick Station
- 734 - 4" through 24" main line valves were exercised
- 22 - Water mains/line valves were turned off and on for plumbers and contractors
- 43 - Broken water services were checked by the Water Department
- 13 - Backflow Preventors were tested for all City Departments
- 104 - Fire hydrant meters and backflow assemblies were set out for contractors
- 3 - Abandoned water mains had services capped at:
 - Bismark & Oak Street
 - The Hancock Well
 - Rogers Well on Old Potash Highway
- 8 - ¾" Service Taps were made - new/replacement
- 220 - 1" Service Taps were made – new/replacement
- 15 - 1 ½" Service taps were made
- 4 - 2" Water Mains were tapped
- 6 – 4" Water Mains were tapped
- 16 – 6" Water Mains were tapped
- 5 – 8" Water Mains were tapped
- 1 – 10" Water Main was tapped
- 1 – 12" Water Main was tapped
- 70 – 1" test taps were done for plumbers and contractors
- 3 – 2" test taps were made
- 150 – New water meters were installed - 5/8" through 6"
- 219 – Replacements meters were installed – 5/8" through 6"
- 25 – Meters were repaired/rebuilt
- 91,750 - gallons of water sold to contractors/trucking companies
- 5 – Private water services were located/traced
- 195 – Water services were turned on/off at the request of the customer service office
- 8,079 - Locates were performed that had been requested through Digger's Hotline of Nebraska

Backflow Program

2020 Backflow Prevention Device Testing Statistics:

- ✓ 4,820 First Notice reminders were mailed
- ✓ 1,131 Certified Letters Delivered
- ✓ 318 48 Hour Notices left at the door
- ✓ 15 Water Services shut off for failure to test

Transmission – Phelps Control Center

- Preparation began for the removal of Burdick Station by systematically removing the cabling between Burdick and Phelps Control and installing some new equipment at Phelps. This project was put “on hold” due to the pandemic.
- Crews spent long hours making repairs from ice and wind during a major Easter Sunday storm.
- An outside contractor installed new fiber optic communications around the entire transmission loop while checking and replacing hardware on every structure. This included a significant amount of fiber splicing work performed by City employees.
- New steel transmission poles were purchased and installed near the Faidley and Claude round-a-bout to accommodate current and future road changes.
- A new substation transformer was purchased and received to replace a failed transformer that was removed from service in 2019.
- A second fully operational dispatch desk was set up at Phelps Control that would allow separation of the day and night shift dispatchers. Each location has a separate bathroom and kitchen facilities. This was all done to prevent cross contamination due to the pandemic.
- A contractor was hired to perform routine maintenance on all substation transformers. This maintenance is performed every eight to ten years.
- Some remodeling of Phelps Control Center took place. This included a new drop ceiling, a new kitchen area and two new doors to divide larger offices into smaller offices for better separation of personnel.
- Grand Island Utilities became a registered Transmission Planner (TP) with the North American Electric Reliability Corporation (NERC). This was a required registration and was successfully completed using an outside contractor to perform the necessary services.
- Phelps Control Center was re-roofed to replace the 1991 roof.
- New cubicles were installed at Phelps Control Center to allow for more employee separation. An old electrical panel was removed to allow more room for the new cubicles.
- Transmission relay testing took place in order to meet our policy requirements.
- A new Outage Management System (OMS) was installed, configured, and put into operation. This system automatically takes smart meter outages and calls from the NPPD call center and determines what fuse is likely blown to cause the outage. This provides for a quicker response to outages. It also provides an online outage map for our customers.
- Executime time keeping software was implemented. This involved the installation of a time clock and the use of ID cards for hourly employees to clock in and out.
- Substation A was removed from service so new animal guards could be installed. This should help prevent bird related outages in the future.
- Changes were made to Substation H to simplify the substation with the retirement of Burdick Unit #3.
- A new field recloser was installed on F-31. This device will isolate a fault in the rural area of F-31 north of the City while maintaining power to the area of F-31 in town. This prevents the entire circuit from being de-energized due to a problem out in the country. The recloser can be controlled and monitored from Phelps Control via a new radio communications link.

Underground Division

Rebuild and service upgrades done by customers – combining the two when it met the need of customers and maintenance of the system:

- West Park Plaza on West Highway 30 and Kingswood Estates – 2323 Bellwood Drive. This is an ongoing project as the park owners, Ascentia, convert to park owned, all-electric housing
- Diamond Plastics – 1st phase of the project to provide additional production capacity

- Anderson Ford – Diers Avenue and Old Potash Highway
- JBS – 555 South Stuhr Road – New pen project and kill-floor addition
- Dramco Tool building expansion – 502 Claude Road
- Island Acres Subdivision in the area of Midway & Piper
- Ken's Appliance relocation to 2208 North Webb Road (Old Grand Island Mall)
- Imperial Village – area of 1300 North Howard Place
- 2805 Stagecoach – upgraded service for heated driveway
- Residence at 1108 S. Gunbarrel Road for a service upgrade for an additional structure

New Customer Services or Developing Areas

- Old Dominion Trucking facility – 4304 Gold Core Drive
- Medical Office Building – 3535 Prairieview Street – south of the new Regional Medical Center at Husker Highway and Highway 281
- Millennial Estates – north of 13th Street and east of Summerfield Estates.
- Orchard Subdivision – south of Capital Avenue, east of St. Paul Road
- The continuation of Talan Apartments at Highway 34 and South Locust Street
- 5th Street Subdivision – East 5th Street between Congdon and Willow
- Nova Tech – 3593 Gold Core Road
- Fire Station #4 relocation from State Street to North Road
- Construction Rental – 840 Bronze Road
- Old Dominion – 4304 Gold Core Drive
- Viaero Cell Tower at 2923 N. North Road
- 3990 West Capital Avenue – North Road and Capital Avenue lighting
- Northwest Gateway Subdivision – Montana Avenue
- Kramer's Iron and Metal (new compactor) – 3447 N. Highway 281
- Husker Storage additional storage units – 831 Bronze Road

Underground conduit and cable runs for open loop feeds

- Riverside Lodge facility – 404 Woodland Drive

Street lighting underground was installed or serviced at:

- State Street and Webb Road traffic signal and street lighting
- Locust Street and Highway 34 area
- Old Potash Highway Project – including Claude Road to Kaufman Street connection

Replaced transformers and cables due to degradation of the transformer cabinets and electrical components or incidents

- Jeffrey Oaks Subdivision along the south side of George Park
- Perkins Restaurant – 106 Wilmar Avenue
- Jeffery Subdivision – 4100 block of Norseman Avenue
- American Fence – 1605 North Shady Bend Road
- Rainbow Lake area – 1500 block of Bass Road

Equipment and Building & Grounds Maintenance

- Received, located, and followed up electronically as needed, 8,154 locates that had been requested through Digger's Hotline of Nebraska per State Statutes 76-2301 through 76-2332

Overhead to Underground Conversion Projects

- Old Potash Highway from North Road to Webb Road – 1st of two phases
- Nebraska State Patrol office – Potash Highway and Highway 281

Assisted other Departments or Divisions

- Crews assisted with the lifting of various pumps, motors and screens at Platte Generating Station
- Assisted with the annual off-site generation of the Mobile Generating Station (MGS)

- Cable runs were re-terminated on a medium voltage motor run at Platte Generating Station
- Crews assisted with the replacement of cables and termination at the veterans Hospital facility

Overhead Division

- In 2020, the Overhead Division maintained and upgraded the overhead distribution lines which entailed 3,070 linear feet of single-phase line, and 4,944 linear feet of 3-phase line being rebuilt. These upgrades eliminated old primary lines and secondary service wires to provide safer and more reliable service to utility customers and kept the interruption indices (SAIDI) and (SAIFI) well below national averages.
- In addition to normal line maintenance, 8,950 linear feet of 336.4 ACSR wire was converted to 4/0 T2 on Feeders C23 and C33 to prevent galloping during icing conditions.
- There were two ice storms in April which contributed to a series of outages. Most of the outages were related to galloping of the primary conductors and the damage of related hardware and cross-arms. A windstorm in July caused related damages to secondary services.
- In November Mutual Aid was provided to help to Hastings Utilities and the City of Fremont due to their system damages in the November 10th ice storm.
- Crews removed 1,340 linear feet of primary 3-phase line this past year as the result of converting areas to underground.
- A 3-phase line upgrade was completed from Adams Street to Pine Street between 7th and 8th Streets which allowed for an additional feeder tie between Feeders G-23 and H-23 and replaced old #6 copper primary.
- Crews relocated 2,100 linear feet of 3-phase primary on Old Potash Highway for road expansion and converted the conductor to T2.
- During 2020, crews had the major task of relocating primary lines and installing 17 primary riser poles to allow for primary underground to be relocated on the Old Potash Highway and North Road street projects.
- Four transmission line poles were relocated for the new Claude Road expansion project.
- Three laminate poles were installed at the intersection of Webb Road and Old Potash Highway to allow for the intersection to be widened.
- Three transmission line poles on line 1062, and three transmission line poles on line 1063B were replaced due to deterioration.
- Three 277/480-volt banks were installed for new irrigation wells.
- Fourteen secondary pedestals were installed and 13 new poles with secondary pedestals were installed for service upgrades.
- Crews relocated 3,600 feet of ADSS fiber along Old Potash Highway for road expansion.
- In cooperation with the Grow Grand Island Foundation, and to support our community, 94 banners were installed on streetlight poles.
- Six deteriorated services poles and five deteriorated streetlight poles were replaced.
- In an ongoing effort to maintain reliability with primary feeders, 23 switches/fuse disconnects were installed or upgraded.
- Six primary poles and 16 streetlight poles were replaced that had been damaged by motor vehicles.
- The Overhead Division continued its efforts to keep vegetation clear of power lines. This was accomplished with the division's own tree trimming crew and the use of a contractor clearing ten sections of lines and removing approximately 171 trees.
- In 2020, 869 high pressure sodium lights were converted to LED lights in our service area. In addition to the conversions, ten new LED fixtures and poles were installed in the new Orchard Subdivision; five new poles and lights in the Millennial Estates Subdivision, and three new

LOCAL GENERATION	2020
SUB E SOLAR FARM	2,116.400 MWh

BURDICK STATION, STEAM UNIT AUXILIARIES	
GROFF ST. SUB. RESERVE SUPPLY	274.477 MWh
UNIT #3 RESERVE SUPPLY	203.000 MWh
BURDICK COOLING WATER	35.960 MWh
OIL FACILITIES	0
BURDICK STEAM NET TOTAL:	-513.437 MWh

BURDICK STATION, COMBUSTION TURBINES:	
GT-1, PCC METER	313.700 MWh
GT-2, PCC METER	1,154.200 MWh
GT-3, PCC METER	1,538.100 MWh

BURDICK STATION, COMBUSTION TURBINE AUXILIARIES	
GT-1, AUXILIARIES	119.680 MWh
GT-2 & GT-3 AUXILIARIES	1595.8
BURDICK COMBUSTION TURBINE NET TOTAL:	1,290.520 MWh

PLATTE GENERATING STATION:	
UNIT #1, SUB D METER	362,023.300 MWh

PLATTE GENERATING STATION AUXILIARIES	
RESERVE SUPPLY TRANSFORMER	4,076.600 MWh
WAREHOUSE	225.760 MWh
PGS COOLING WATER	260.711 MWh
PLATTE GENERATING STATION NET TOTAL:	357,460.229 MWh

Copies:

Tim Luchsinger	Keith Pobanz
Ryan Schmitz	Travis Burdett
Lynn Mayhew	Jeff Mead
Ryan Kruse	Jeff Hiegel
Tylor Robinson	Darren Buettner
Larry Keown	Pat Gericke
Karen Nagel	Kathy Nelson
Cindy Martin	Phelps Control

PARTICIPATION SHARES	2020
WAPA HYDRO	34,528.406 MWh
WIND PROJECTS	118,684.100 MWh
NEBRASKA CITY UNIT #2	224,114.000 MWh
WHELEN UNIT #2	48,552.600 MWh

INTERCHANGE & CITY DEMAND	
INTEGRATED MARKETPLACE	
IMPORT	739,172.300 MWh
EXPORT	365,000.400 MWh
NET MARKET IMPORT	374,171.900 MWh

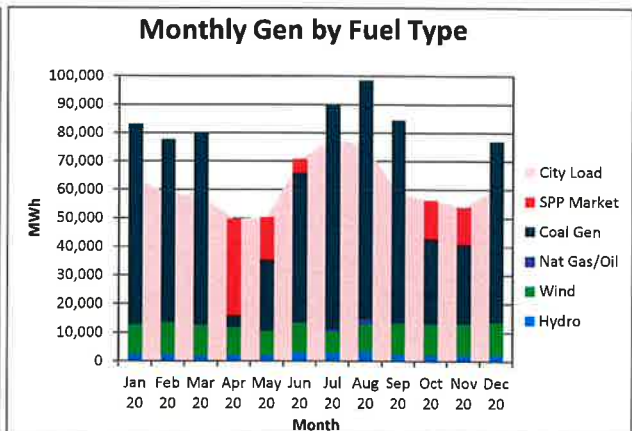
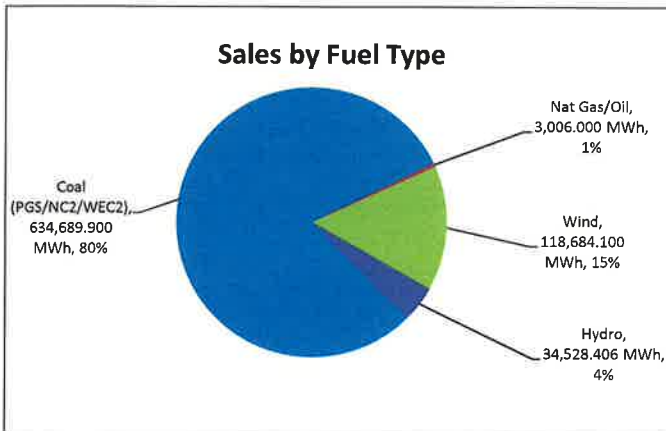
METERED ENERGY IMPORT TO GRAND ISLAND	
LINE 1093	326,976.192 MWh
LINE 1145A	100,021.400 MWh
LINE 1145B	100,929.200 MWh
LINE 1149	6,561.576 MWh
LINE 1369	101,818.380 MWh
TOTAL TO GRAND ISLAND	636,306.748 MWh

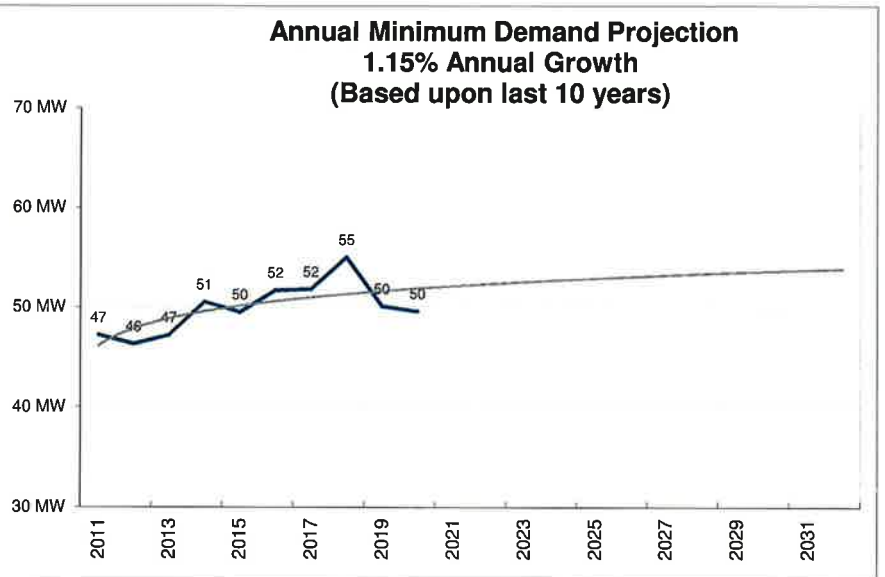
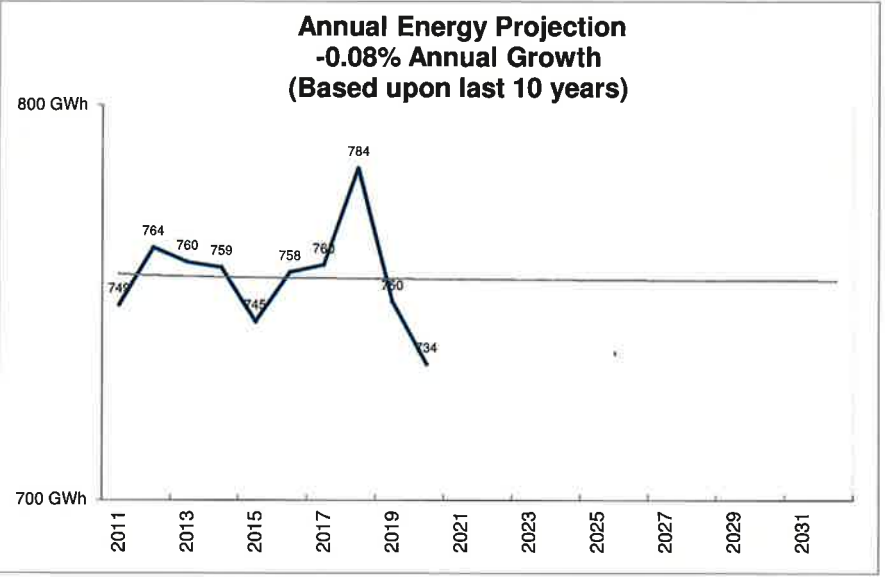
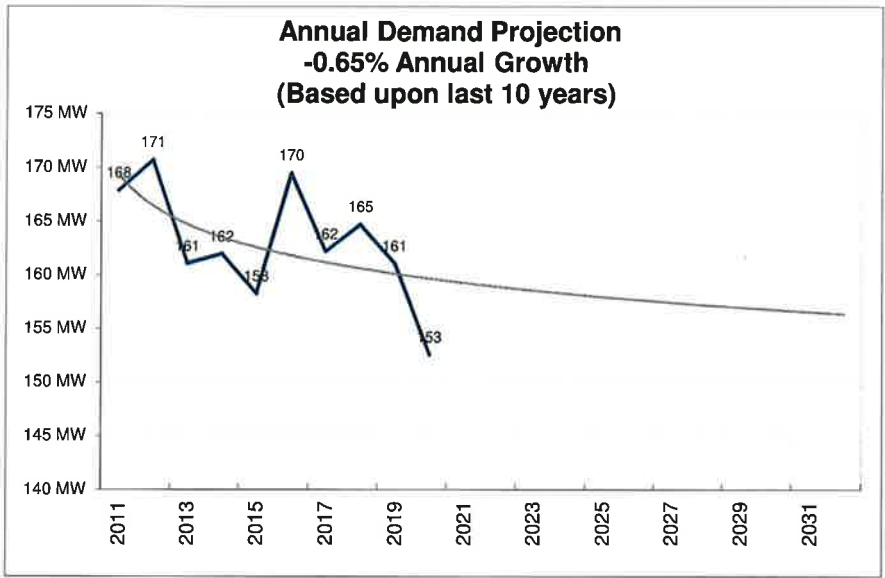
METERED ENERGY EXPORT FROM GRAND ISLAND	
LINE 1093	46.272 MWh
LINE 1145A	50,917.900 MWh
LINE 1145B	47,178.100 MWh
LINE 1149	148,789.196 MWh
LINE 1369	15,304.320 MWh
TOTAL FROM GRAND ISLAND	262,235.788 MWh

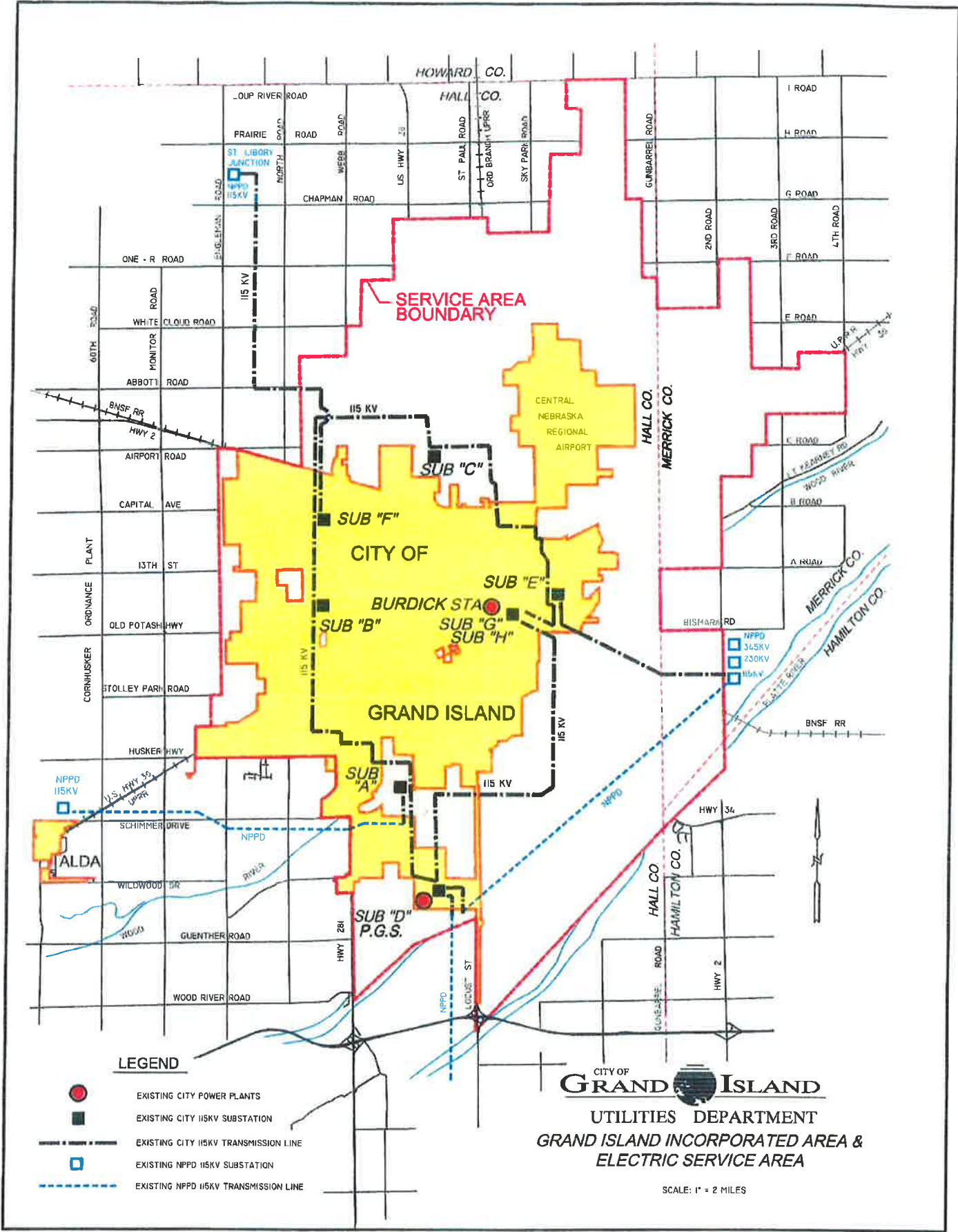
SPP Meter Calibration / Station Aux (Record Only)	100.940 MWh
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HOURLY PEAK DEMAND:	152.600 MW
DATE & TIME OF PEAK:	Aug 27, 1800
HOURLY MINIMUM DEMAND:	49.600 MW
DATE & TIME OF MINIMUM:	May 17, 0400

SYSTEM NET GENERATION:	360,353.712 MWh
NET METERED IMPORT:	374,070.960 MWh
SYSTEM NET DISTRIBUTION:	734,424.672 MWh







HOWARD CO.

HALL CO.

SERVICE AREA BOUNDARY

SUB "C"

SUB "F"

CITY OF

SUB "E"

BURDICK STA

SUB "B"

SUB "G"

SUB "H"

GRAND ISLAND

SUB "A"

SUB "D"

P.G.S.

NPPD 115KV

ALDA

BISHOP RD

NPPD 345KV

NPPD 230KV

NPPD 115KV



LEGEND

- EXISTING CITY POWER PLANTS
- EXISTING CITY 115KV SUBSTATION
- EXISTING CITY 115KV TRANSMISSION LINE
- EXISTING NPPD 115KV SUBSTATION
- EXISTING NPPD 115KV TRANSMISSION LINE

CITY OF
Grand Island
 UTILITIES DEPARTMENT
 GRAND ISLAND INCORPORATED AREA &
 ELECTRIC SERVICE AREA

SCALE: 1" = 2 MILES

poles and lights were installed in the Rodney Leon Subdivision. In addition, three new poles and lights were installed in the Sterling Estates Subdivision.

- Three new poles were installed at Diamond Plastics to allow for primary metering of the plant from two separate feeders and for the plant to be served from both Feeders B24 and B-22. With this addition, an added extra 900 KVAR capacitor bank was installed to improve the power quality at Diamond Plastics.
- Fifteen streetlight poles were relocated for street/driveway construction projects.
- Line crews installed or replaced 213 transformers. This has improved system reliability and power quality for utility customers as load continues to increase.
- The automated meter infrastructure project continues to be a success. There are currently 11,537 electric AMI meters in the system. The daily read percentage has been 99.5%. The system has been useful for meter readings, performing disconnects, and troubleshooting for both water and electric service.
- In 2020, 1,548 AMI meters were installed of which 258 were installed on delinquent accounts. In the process, 3,004 disconnect/connect commands were performed without rolling a truck.
-

Utility Warehouse Division

- In 2020, the Utility Storeroom quoted, purchased, received, and stocked \$3,097,287.73 worth of materials. This represents only the material that is on the inventory system.
- The Storeroom issued \$3,569,214.54 worth of materials while salvaging, cleaning, and restocking \$576,175.74.
- During the past year the Storeroom purchased \$1,587,324.78 worth of items that are not on the inventory system for the Overhead Underground and Storeroom divisions.
- The Storeroom processed, weighed, stored, and sold 122,701 pounds of scrap aluminum, copper wire, electrical brass, and ACSR wire for \$73,422.22.
- The division cataloged, quoted, and sold 160 Pole and Pad-mount obsolete/junk transformers for \$14,498.20.
- There were no issues with the 2020 audit.

Utilities Engineering Division

The Utilities Engineering Division provided full engineering services for the department's electrical and water infrastructure projects. The work involves research, design, plans and specifications, construction surveys, inspection, observation, and maintaining accurate maps and data records of the related infrastructure activities. Over the past year, work consisted of the following:

- Over 36 separate overhead and underground power line projects to provide service for upgrades, new residential and commercial developments
- Eleven public and 16 commercial water system projects were placed in service after being inspected and tested for compliance by the division's staff. These projects totaled approximately 9,770 linear feet of new water mains and service lines.
- Prepared over 20 easements, easement vacates or permit documents for department projects.
- Prepared eight contracts and/or requests for proposals.
- Reviewed plans for 13 public water main projects and nine commercial water service projects.
- Performed project related construction surveys using high-accuracy GPS.
- Assisted in planning the fiber run to the Wellfield.
- Drafted, edited, and revised CAD files and GIS related database files.
- Maintained mobile technology resources for the Electric Overhead and Underground Divisions, and the Water Division.
- Developed the internal Electric/Streetlight/Water combined base GIS map.



Utilities Department

2020 Electrical Feeder Summary

Distribution Lines

Line Types	Total (ft)		Total (mi)
Overhead 3 Phase	15,602,756.8	Pole Miles	2,924.8
Overhead 1 Phase	4,595,939.1	Pole Miles	870.4
Underground 3 Phase	3,853,354.4		729.8
Underground 1 Phase	5,297,397.5		1,003.3

Transformers

Pole Mount	Count	KVA
3 Phase Banks	7,613	54,885.5
Delta Banks	430	1,420.0
1 Phase Banks	36,770	97,171.5
	44,813	1,706,320.0
Padmount	Count	KVA
3 Phase	8,240	3,654,865.0
1 Phase	19,140	696,050.0
	27,380	4,350,915.0
Total Connected KVA		5,948,135.0

Capactor Banks

Bank Type	Count
Switched	640
Fixed	580
	1,220

Utilities Department
 Platte Generating Station
 Fiscal Year Water Summary
October 1, 2019 - September 30, 2020

Report Totals

Water From Wellfield	4,097,441,391.07 Gals
High Pressure Wells	18,140,347.47 Gals
Burdick Wells	103,050,945.16 Gals
PGS Wells	577,251,178.00 Gals
Cleburn Well	0.00 Gals
Burdick Pumping Station	1,058,877,225.01 Gals
Pine Street Pumping Station	895,888,873.09 Gals
Rogers Pumping Station	2,067,329,409.08 Gals
Water Distributed to City	4,040,235,854.65 Gals
Water to Burdick Station	103,050,945.16 Gals
Water to PGS	577,797,978.00 Gals
Water Pumped - Permit 10266	4,097,441,391.07 Gals
Water Pumped - Permit 10267	698,442,470.63 Gals
Total Water Distributed	4,721,084,777.81 Gals
Total Groundwater Pumped	4,795,883,861.70 Gals
Water Unaccounted For	1.56%
Burdick Station City Water Use	9,518,300.00 Gals
Pine Street Station City Water Use	226,644.00 Gals

Daily Maximum

Permit No. 10266 (Wellfield)	23,452,928.86 Gals	on	6/25/2020
Permit No. 10302 (In-Town Wells)	4,017,462.20 Gals	on	10/21/2019
Total Groundwater Pumped	25,134,927.53 Gals	on	6/17/2020
Water Distributed to City	22,508,288.51 Gals	on	6/26/2020

Utilities Department
Platte Generating Station
Fiscal Year Fuel Summary
October 1, 2019 - September 30, 2020

Coal

Beginning Inventory	October 1, 2019	72,800.00 Tons
Total Coal Received		315,344.33 Tons
Total Coal Fired		-290,070.70 Tons
Total Cost Monthly Adjustments		-6,306.88 Tons
Coal Adjustments (Fiscal)		-10,417.75 Tons
Final Coal Inventory	September 30, 2020	81,349.00 Tons
Average Coal Heat Value		8457 BTU/LB
Average Coal Sulfur		29.27%

PGS No. 2 Fuel Oil

Beginning Inventory	October 1, 2019	157,378.20 Gals
Total Fuel Oil Received		126,622.00 Gals
Total Fuel Oil Fired		-37,527.00 Gals
Other Fuel Oil Used		-6,470.00 Gals
Total Fuel Oil Adjustment		-819.50 Gals
Final Fuel Oil Inventory	September 30, 2020	239,183.70 Gals

BURDICK STATION

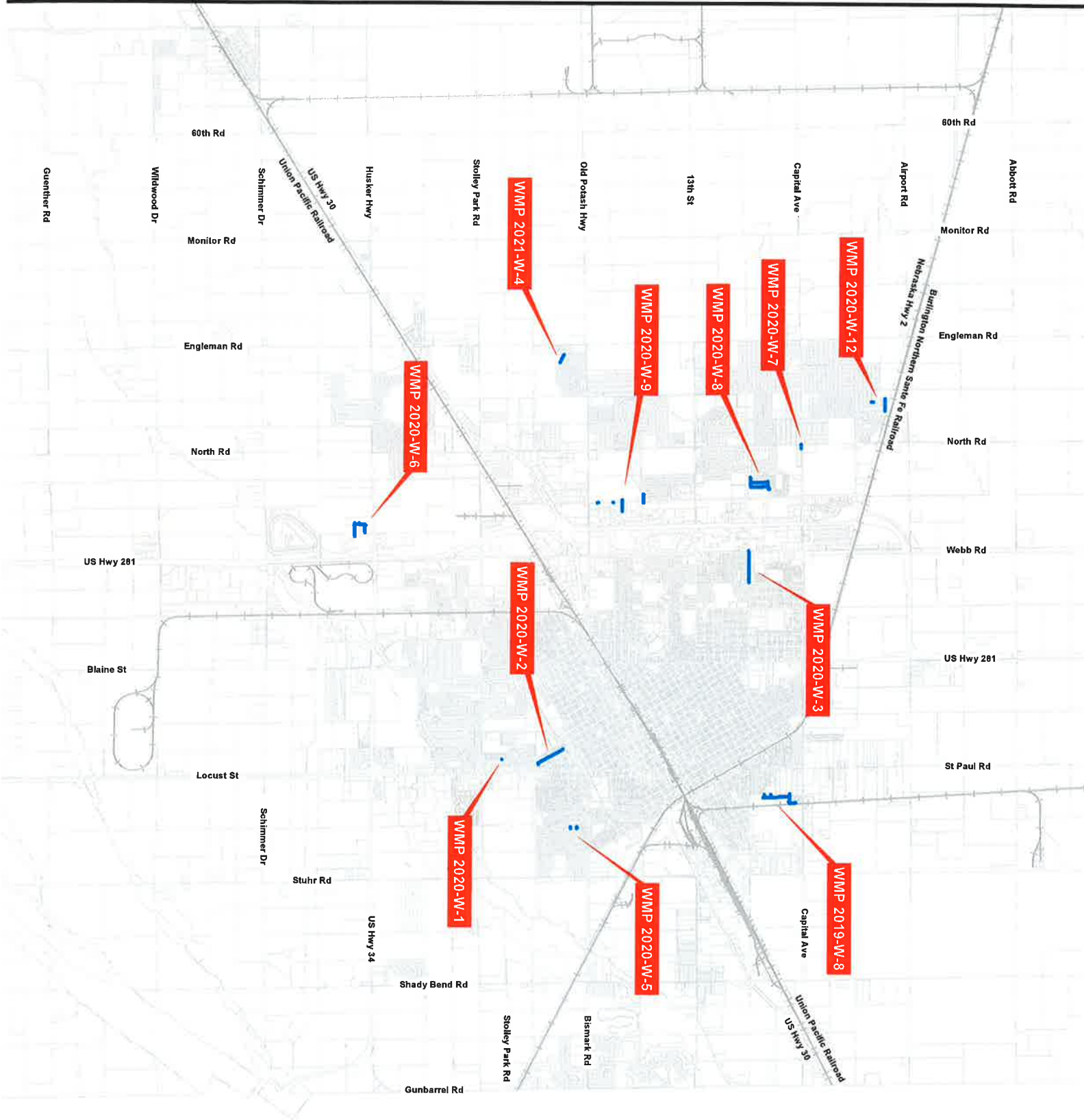
No. 2 Fuel Oil

Beginning Inventory	October 1, 2019	159,667.20 Gals
Total Fuel Oil Received		108,826.00 Gals
Total Fuel Oil Fired Gas Turbines		-4,266.00 Gals
Other Fuel Oil Used		0.00 Gals
Total Fuel Oil Adjustment		-45,041.20 Gals
Final Fuel Oil Inventory	September 30, 2020	219,186.00 Gals

Natural Gas

Total Gas Fired Unit 1	0.00 MCF
Total Gas Fired Unit2	0.00 MCF
Total Gas Fired Unit 3	0.00 MCF
Total Gas Turbine GT1	6,971.00 MCF
Total Gas Turbine GT2	19,140.00 MCF
Total Gas Turbine GT 3	24,719.00 MCF
Total Gas Fired	50,830.00 MCF

Revised 10/9/2020
Lynn M/Darrell D-PGS
Darren B-Finance
Pat G-Utilities Admin
Travis B/Keith P
Ryan Schmitz
Larry K/Cindy-Burdick



City of Grand Island
 Utilities Department

LEGEND

- 2020 Piping
- Property Lines

2020
 Districts/Projects
 12/30/2020



Pipe Totals (4" and Larger)
City

30-Dec-20

Distribution Length by Diameter (Includes Hydrant Assembly)		Transmission Length by Diameter		Reservoir Length by Diameter		Well Header Length by Diameter		Total D-I-R-R-W		Fire Protection Only/Service Length by Diameter		Private		Total	Percent Growth
Year	4	5	8	10	12	14	16	18	20	24	30	36	Total	Percent Growth	
2015	24,745	719,963	221,431	119,711	197,813	17,284	115,557	54,135	71,645	7,335	787	11	1,550,471	N/A	
2016	24,939	752,141	229,610	121,272	200,540	17,244	115,557	53,788	74,060	7,222	787	11	1,597,121	3.02%	
2017	25,461	754,284	230,955	122,372	204,276	17,245	115,526	53,965	76,489	7,222	787	11	1,608,592	0.72%	
2018	25,461	754,204	232,674	122,185	208,177	17,242	115,420	53,958	76,613	6,877	787	11	1,619,109	0.65%	
2019	25,403	748,452	244,561	123,005	210,170	17,246	115,613	54,281	76,622	6,909	733	11	1,628,806	0.60%	
2020	24,882	747,671	254,273	128,561	209,876	17,336	115,604	54,278	76,733	6,896	731	15	1,636,856	0.49%	
Total	4	5	8	10	12	14	16	18	20	24	30	36	Total	Percent Growth	
2015	0	0	0	0	0	0	0	0	0	0	0	0	78,425	12	
2016	0	0	0	0	0	0	0	0	0	0	0	0	78,514	12	
2017	0	0	0	0	0	0	0	0	0	0	0	0	78,496	12	
2018	0	0	0	0	0	0	0	0	0	270	78,508	12	78,780	12	
2019	0	0	0	0	0	0	0	0	0	270	78,508	23	78,801	23	
2020	0	0	0	0	0	0	0	0	0	270	77,886	23	78,179	23	
Total	4	5	8	10	12	14	16	18	20	24	30	36	Total	Percent Growth	
2015	0	0	0	0	0	0	0	0	0	932	0	805	1,737	858	
2016	0	0	0	0	0	0	0	0	0	932	0	858	1,790	858	
2017	0	0	0	0	0	0	0	0	98	925	0	858	1,888	858	
2018	0	0	0	0	0	0	0	0	384	925	0	858	2,167	858	
2019	0	0	0	0	0	0	0	0	386	778	0	835	2,065	835	
2020	0	0	0	0	0	0	0	0	386	778	0	831	2,061	831	
Total	4	5	8	10	12	14	16	18	20	24	30	36	Total	Percent Growth	
2015	0	139	0	17,749	913	3,233	0	7,856	3,553	5,974	3,440	2,049	44,506	2,049	
2016	0	139	0	17,754	913	3,233	1,670	7,856	3,553	5,974	3,440	2,049	46,581	2,049	
2017	0	131	0	17,754	913	3,233	1,670	7,856	3,553	5,974	3,440	2,049	46,573	2,049	
2018	0	226	0	17,752	913	3,233	1,670	7,856	3,553	5,974	3,440	2,049	46,655	2,049	
2019	0	154	65	22,740	927	3,315	1,689	7,784	3,510	6,053	3,441	2,036	51,894	2,036	
2020	0	87	65	20,340	24	3,120	0	7,863	3,510	6,018	3,441	1,936	46,404	1,936	
Total	4	5	8	10	12	14	16	18	20	24	30	36	Total	Percent Growth	
2015	1,675,497	317	0	17,749	913	3,233	0	7,856	3,553	5,974	3,440	2,049	44,506	2,049	
2016	1,724,056	327	0	17,754	913	3,233	1,670	7,856	3,553	5,974	3,440	2,049	46,581	2,049	
2017	1,735,582	329	0	17,754	913	3,233	1,670	7,856	3,553	5,974	3,440	2,049	46,573	2,049	
2018	1,746,720	331	0	17,752	913	3,233	1,670	7,856	3,553	5,974	3,440	2,049	46,655	2,049	
2019	1,761,566	334	65	22,740	927	3,315	1,689	7,784	3,510	6,053	3,441	2,036	51,894	2,036	
2020	1,763,500	334	65	20,340	24	3,120	0	7,863	3,510	6,018	3,441	1,936	46,404	1,936	
Total	4	5	8	10	12	14	16	18	20	24	30	36	Total	Percent Growth	
2015	27,830	88,036	59,509	24,103	17,243	0	0	0	6	0	0	0	216,727	N/A	
2016	28,242	89,372	60,480	25,467	17,243	0	0	0	0	0	0	0	220,804	1.88%	
2017	28,327	90,556	60,858	25,467	17,243	0	0	0	0	0	0	0	222,451	0.75%	
2018	28,711	92,728	63,686	25,467	17,293	0	0	0	0	0	0	0	227,885	2.44%	
2019	28,872	94,128	63,686	25,467	17,293	0	0	0	0	0	0	0	229,446	0.68%	
2020	29,111	94,752	64,449	17,287	0	0	0	0	0	0	0	0	231,165	0.75%	
Total	4	5	8	10	12	14	16	18	20	24	30	36	Total	Percent Growth	
2015	1,892,224	358	0	0	0	0	0	0	0	0	0	0	1,892,224	0	
2016	1,944,860	368	0	0	0	0	0	0	0	0	0	0	1,944,860	2.72%	
2017	1,958,013	371	0	0	0	0	0	0	0	0	0	0	1,958,013	0.67%	
2018	1,974,605	374	0	0	0	0	0	0	0	0	0	0	1,974,605	0.83%	
2019	1,991,012	377	0	0	0	0	0	0	0	0	0	0	1,991,012	0.83%	
2020	1,994,665	378	0	0	0	0	0	0	0	0	0	0	1,994,665	0.18%	
Total	4	5	8	10	12	14	16	18	20	24	30	36	Total	Percent Growth	
2015	1,892,224	358	0	0	0	0	0	0	0	0	0	0	1,892,224	0	
2016	1,944,860	368	0	0	0	0	0	0	0	0	0	0	1,944,860	2.72%	
2017	1,958,013	371	0	0	0	0	0	0	0	0	0	0	1,958,013	0.67%	
2018	1,974,605	374	0	0	0	0	0	0	0	0	0	0	1,974,605	0.83%	
2019	1,991,012	377	0	0	0	0	0	0	0	0	0	0	1,991,012	0.83%	
2020	1,994,665	378	0	0	0	0	0	0	0	0	0	0	1,994,665	0.18%	