



NEW LONDON
PUBLIC SCHOOLS



District Operations Team

Board of Education 2024



united in excellence

Operations Department Overview

- Facilities
- Construction
- Technology
- Transportation

Meet the team:

Miguel Gautier, Ricky Ledesma, Wendy Purvins and our Custodial and HVAC staff.

- Our focus continues to be efficiency and proactiveness.
- We built a schedule for preventative maintenance on building equipment but also on machinery and custodial equipment.
- We are tracking recycling and average about 1,200 pounds of recyclable materials per day, on average.
 - This average does not include C.O., Shaw's Cove or BPL.
- We recently acquired a key cutting machine and our Facilities Manager received training to cut keys. We have a new agreement with our locksmith where he will sell us the blanks and we can make copies of keys in-house. This saves us time as well as a \$95 trip charge and the hourly rates for key duplication. Key blanks range from \$1.25-\$2.00 instead of \$4.35-\$9.00.

EV Charging Stations



The average cost in kWh of charging an Electric Vehicle is 250 kWh, cost will be passed through as the idea is not to generate revenue but to offer this as a benefit for staff.

LED Lighting

- We have upgraded all light fixtures and light bulbs from incandescent to LED. The turnkey project cost is \$861,500. Through this project, we received an incentive of \$216,350 from Eversource and our savings are expected to be \$64,000 in overall Operations and Maintenance and \$111,000 a year in Energy.



LED Lighting (continued)

- Central Office January to April Savings of 13,600 kWh or \$3,053.

kWh Usage				
2023	kWh	2024	kWh	Mo. kWh Savings
Jan	20,400	Jan	18,280	2,120
Feb	19,640	Feb	16,360	3,280
Mar	19,200	Mar	15,240	3,960
Apr	18,600	Apr	14,360	4,240
			Total kWh Savings	13,600

HVAC Updates

- YTD we've saved over \$105,000 on parts and materials necessary for HVAC repairs, \$44,000 on preventative maintenance and \$130,680 on projects when compared to our previous contracts.

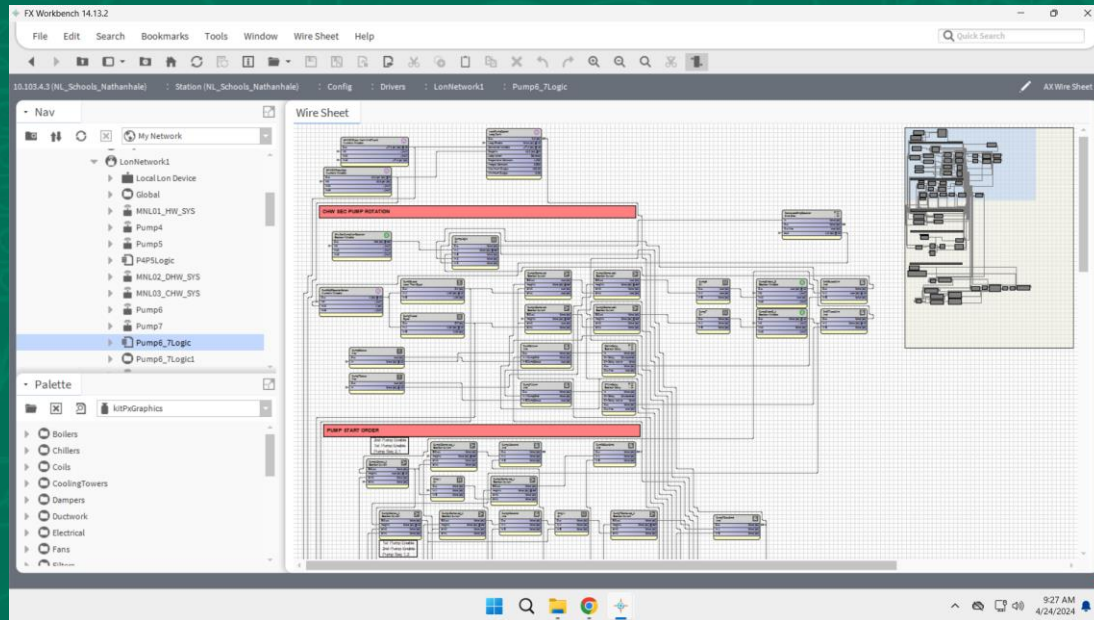
	COST	COST W/MARK-UP	SAVINGS
All Schools	\$ 619.88	\$ 1,192.08	\$ 572.20
BENNIE DOVER	\$ 211.63	\$ 406.98	\$ 195.35
B.P. LEARNED	\$ 43.63	\$ 83.90	\$ 40.27
CENTRAL OFFICES	\$ 1,241.61	\$ 2,387.71	\$ 1,146.10
HARBOR	\$ 7,346.61	\$ 14,128.10	\$ 6,781.49
HIGH SCHOOL	\$ 2,374.76	\$ 4,566.85	\$ 2,192.09
JENNINGS	\$ 11,934.19	\$ 22,950.37	\$ 11,016.18
NATHAN HALE	\$ 7,838.40	\$ 15,073.85	\$ 7,235.45
SHAW'S COVE	\$ 7,455.31	\$ 14,337.13	\$ 6,881.82
SCIENCE & TECHNOLOGY	\$ 8,328.37	\$ 16,016.10	\$ 7,687.73
WINTHROP	\$ 25,887.26	\$ 49,783.19	\$ 23,895.93
SUB TOTAL	\$ 73,281.65	\$ 140,926.25	\$ 67,644.60
PREVENTATIVE MAINTENANCE	\$ 35,681.37	\$ 43,455.71	\$ 20,858.74
TOOLS	\$ 19,470.49	\$ 37,443.25	\$ 17,972.76
TOTALS	\$ 128,433.51	\$ 221,825.21	\$ 106,476.10

PM Contract	\$85,220.00
In-House Labor	\$18,590.00
In-House Material	\$22,596.00
Savings	\$44,034.00

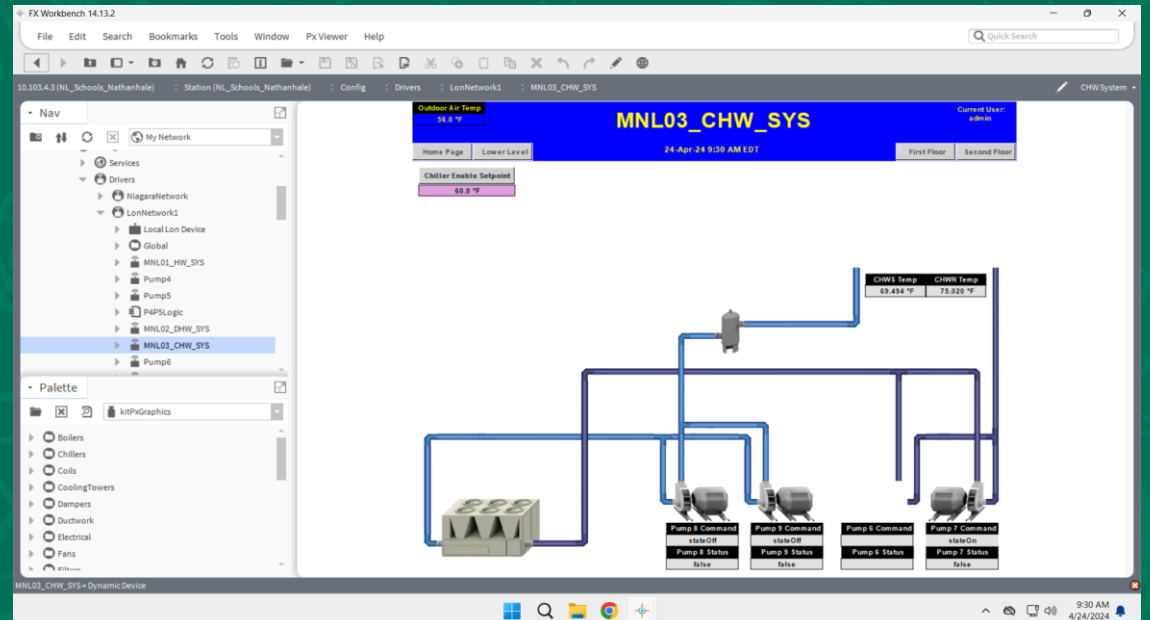
Winthrop HW Replacement	
Previous Contract	
Material w. Mark-Up	\$ 37,405.00
Labor	\$ 8,520.00
Total	\$ 45,925.00
In-House Setup	
Material	\$ 12,851.00
Labor	\$ 2,182.00
	\$ 15,033.00
Savings	\$ 30,892.00

HVAC Updates (continued)

- Controls Project
 - Having our own HVAC Team allows us to manage our controls logics.



Back end troubleshooting pump #6 at Nathan Hale



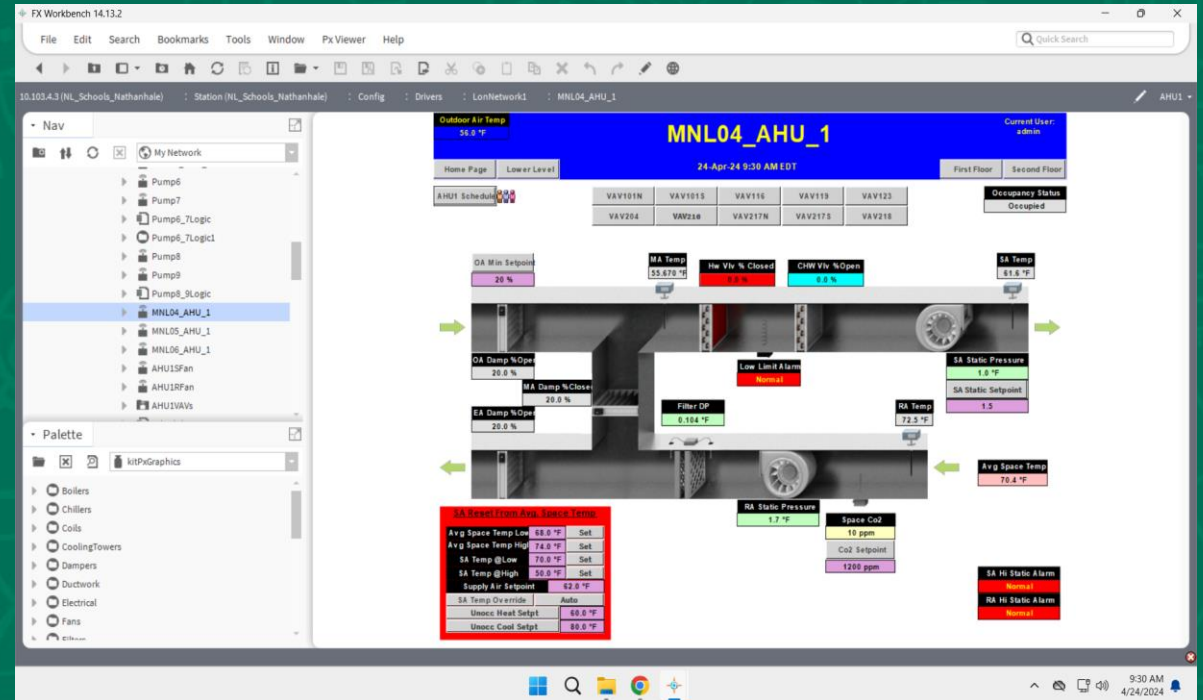
Front end troubleshooting pump #6 at Nathan Hale

HVAC Updates (continued)

- Air Handler Controls and Graphics

AHU 1		
Name		Value
AHU1GlobalVav_GlobalDisableReheatMin		Off
AHU1GlobalVav_OccUnocc		Occ
AHU1GlobalVav_VavClgWrmUpMode		On
AHU1RFan_CfmDiff_5e		.0
AHU1RFan_EF1Cfm		.0
AHU1RFan_Ef1Status_5e		Off
AHU1RFan_OaAirFlow_5e		125.0
AHU1RFan_RFanLowSelect		93.0
AHU1RFan_RaAirFlow_5e		1582.8
AHU1RFan_ReturnFan		On
AHU1RFan_SaAirFlow_5e		2271.4
AHU1RFan_VfdFault		Off
AHU1RFan_VfdStatus		On
AHU1RFan_nviDrvSpeedStpt		93.0
AHU1RFan_nvoDrvCmt		3.8
AHU1RFan_nvoDrvEnrgy		35310.0
AHU1RFan_nvoDrvPwr		1.2
AHU1RFan_nvoDrvRnHrs		65535.0
AHU1RFan_nvoDrvSpeed		79.0
AHU1SFan_FanAlarm		ALARM

Before



After

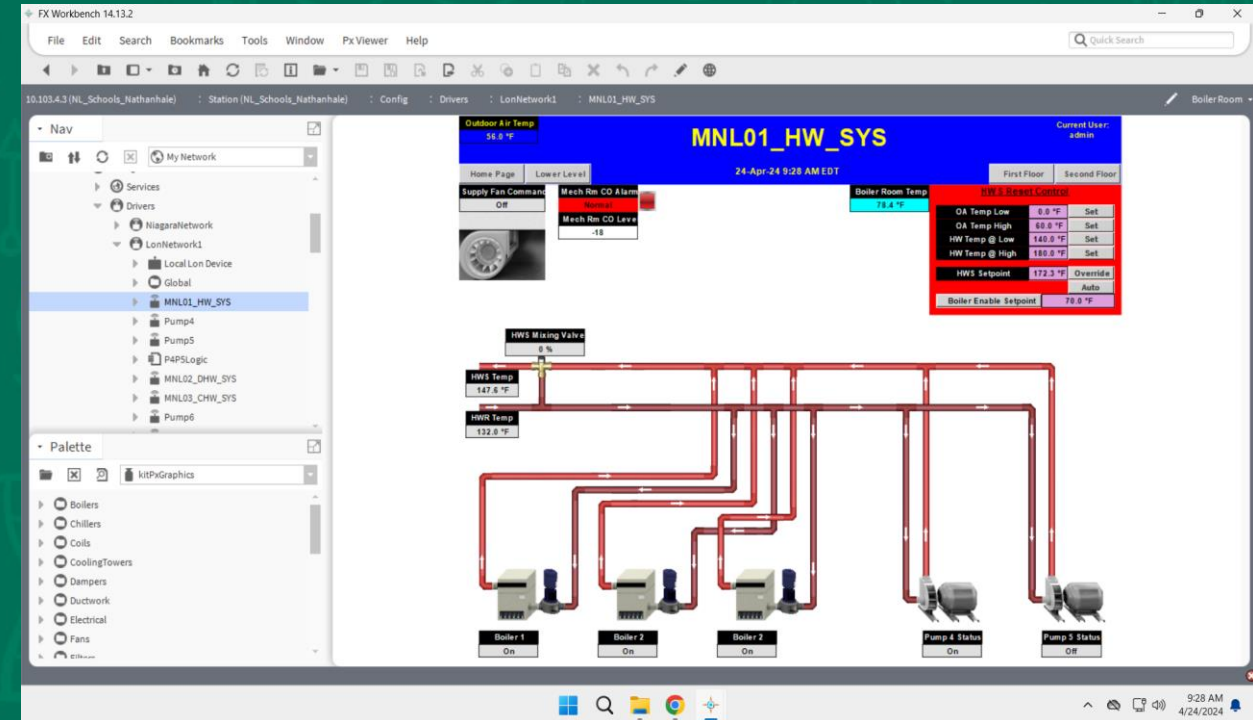
HVAC Updates (continued)

- Hot Water System Controls and Graphics

HW System

Name	Value
Global_CHWSystemEnableOvrd	Off
Global_ChwSystemEnableSetpt	60.0
Global_DisableReHeat2Unc2GlobalLogic_2estatusinB	Off
Global_EconoEnable	On
Global_FrzPumpEnableSetpt	40.0
Global_HWSysSystemEnableOvrd	On
Global_HwSystemEnableSetpt	70.0
Global_Lighting_200vds	Off
Global_OATempFromHWSys	55.3
Global_OaHumidity	100.0
MNL01_HW_SYS_BldgPumpStatus	On
MNL01_HW_SYS_Device	Unc-1 Mnl-1
MNL01_HW_SYS_HWTmpHigh	180.0
MNL01_HW_SYS_HWTmpLow	140.0
MNL01_HW_SYS_OATempHigh	60.0
MNL01_HW_SYS_OATempLow	0.0
MNL01_HW_SYS_Serves	HotWaterSystem
MNL01_HW_SYS_UI3Boiler1Alarm	Normal
MNL01_HW_SYS_UI4Boiler2Alarm	Normal
MNL01_HW_SYS_UI6Boiler3Alarm	Normal
MNL01_HW_SYS_nviBoilerSetpt	176.8
MNL01_HW_SYS_nviHwsSetpt	171.9
MNL01_HW_SYS_nviAo1HwsValve	0
MNL01_HW_SYS_nviAo4BoilerMo	86.7

Before



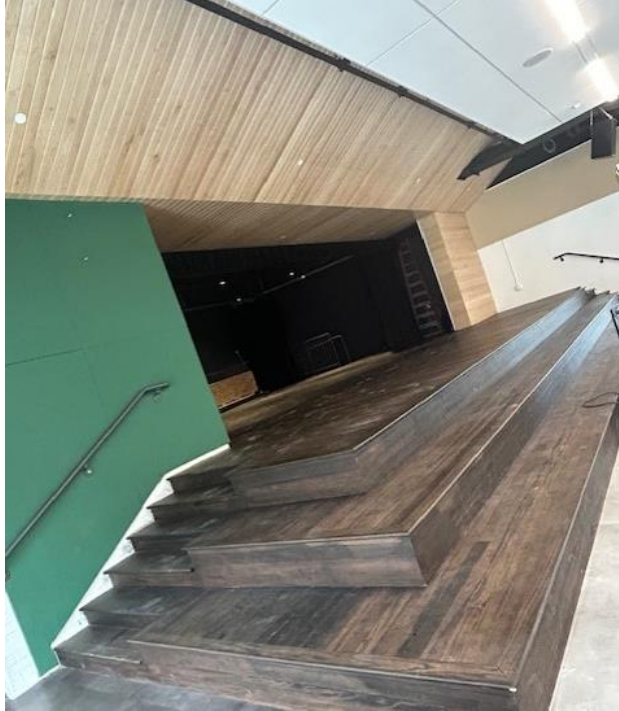
After

North Campus

- Construction was completed December 2023; on-time and under budget.
- The team is working on tracking punch list items. Main issues are stairwell doors and water fountains.
- The team is working on closeout documents.
 - Outside of the project, the Facilities Team is working on integrating access control and cameras in the STEM Building.

South Campus

- The team at the South Campus has completed the new addition which hosts Arts, Music, Science and the new student drop-off. Work has begun on the last phase of the project which turns the old Band Room into the UN Debate Room, as well as the renovation of 3 classrooms and 2 office spaces.
- The project is currently on schedule and slated to be complete August of 2024.



- South Campus Photos
- (BDJ Multi-Magnet Middle School Campus)

Two Teams Working in Tandem...

- General Technology & Support

- Device distribution and management
- Office 365 and Active Directory
- Tech support for teachers, students, and families
- Maintain main infrastructures (internet, phones, servers, cameras etc.)

- PowerSchool/Software Team

- Manages and maintains student database systems (PowerSchool)
- Internal and external reporting i.e., state, dashboards, attendance, discipline, etc.
- Report cards and transcripts
- Multiple syncs between PowerSchool and student/staff utilized software

Technology

The Technology Department's focus on customer service has resulted in an improved response and resolution time. To further improve the customer experience, PowerSchool and related software are now integrated into the technology helpdesk.

2023-2024	September	October	November	December	January	February	March	April 1st to 16th	Total
Tickets closed	1,413	700	470	424	629	409	561	233	4,839
Response time	5.9 hours	1.4 days	2.7 hours	2.5 hours	2.3 hours	2.5 hours	1.9 hours	3.4 hours	
Resolution	1 day	1.6 days	5.5 hours	5.8 hours	3.6 hours	5.8 hours	4.1 hours	5.6 hours	
2022-2023									
Tickets closed	1165	495	465	464	406	479	485	101	4060
Response time	1.5 Days	1.4 Days	3 Days	3.5 Days	2.7 Days	1.8 Days	7.9 Days	1.6 Days	
Resolution	3.8 Days	3.6 Days	6.6 Days	9.9 Days	5.7 Days	5 Days	1.5 Days	5.3 Days	

Recent Accomplishments

- 100% of students and staff are assigned, or have access to, a district-issued device.
- 40+ different software programs are supported and/or synced through our student database system (PowerSchool).
- Certified multiple state reports/requests including enrollment and attendance.
- Supporting the middle and high school construction projects in phasing.
- Developing dashboards to provide real-time data for decision-making.
- Developed systems to ensure efficiency and accountability including a customer service survey for every ticket entered and completed.



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Transportation

The Transportation Department has worked closely with our Transportation provider, First Student, during these ever-changing times. First Student has done everything possible to ensure students get to and from school in a timely fashion, while operating with 25% less staff to start the school year.

The transportation department continues to accommodate changing schedules from choice and private school that we provide busing for daily. As the calendar soon turns to May, we transition to pre-planning for summer school transportation. Once summer enrichment programs assignment are finalized we will create bus routes for Elementary and Secondary levels as well as the Year-round program. ESY assignments and routes are completed. We have also had a huge influx of field trip requests over the past month as schools are finally able to get out and enjoy the outdoors.

We applied for the Active Transportation Microgrant this year. The goal of the grant program is to provide equitable, safe, accessible, and sustainable access to transportation by making it safer for people of all ages to walk, bike and roll, thereby encouraging more people to use these healthy and environmentally sustainable modes of travel. Finally, we have assisted in the completion of the ED 021 for out of district magnet transportation for the spring.





New London Public Schools
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