

Board of Public Works
Amended Agenda
April 21, 2022
6:00 pm, City Council Chambers
Web access via Zoom:

<https://bristolct.gov.zoom.us/j/83849261433?pwd=K2Zic0NsU081Vnk2MTdha3Q5R05SZz09>

Meeting ID: 838 4926 1433

Passcode: 487039

1. Board Of Public Works Minutes Of The Previous Meeting

A. Board Of Public Works Meeting Minutes

Documents:

[March 2022 Meeting Minutes .pdf](#)

B. Special Meeting Minutes

Documents:

[Special Meeting Minutes .pdf](#)

2. Employee Recognition

A. Employee Anniversaries

Robert Belanger - 18 Years

Zachary Doty - 5 Years

Frank Nicastro - 32 Years

William Perrotti - 5 Years

Lindsey Rivers - 4 Years

3. Concerns And Petitions From The Public

4. Correspondence

5. Public Works Divisions Reports

A. Division Report

Documents:

[Division Report.pdf](#)

6. Public Works Project Schedule

A. April 2022 Project Report

Documents:

[April 2022 Project schedule.pdf](#)

7. Building Committee

A. Building Committee Project List

Documents:

[Building Committee Project List.pdf](#)

8. Director's Verbal Report

A. Directors Report

Documents:

[Director Report.pdf](#)

9. City Hall Renovation Project

A. City Hall Update

Documents:

[City Hall Update.pdf](#)

10. Review Of Public Works Budgets

A. YTD Budget Reports

Documents:

[YTD Budget Reports.pdf](#)

11. Unfinished Business

A. DOT West End Detour

Documents:

[DOT West End Detour.pdf](#)

12. New Business

A. Parking Garage

Documents:

[Parking Garage.pdf](#)

B. Fleet Maintenance Service List

Documents:

[Fleet Maintenance Service List.pdf](#)

C. Salt Brine

Documents:

[Salt Brine.pdf](#)

D. Eversource Access Agreements

Documents:

[Eversource Access Agreements.pdf](#)

E. Organic Food Waste Collection

Documents:

[Organic Food Waste Collection.pdf](#)

13. Addendum

14. Adjournment

15. Signature

Raymond A. Rogozinski, P.E.
Director of Public Works

16. Director's Report

17. Building Committee

Minutes of Board of Public Works
Regular Meeting
Thursday, March 17, 2022
6:00 p.m. Council Chambers, City Hall
With Zoom Access

Members Present: Mayor, Jeffrey Caggiano
Council Member, Jolene Lusitani
Council Member, Sebastian Panioto
Council Member, Cheryl Thibeault
Commissioner, Michael Dumas
Commissioner, David Hartley
Commissioner, Frank Stawski

Staff Present: Raymond A. Rogozinski, Director of Public Works

Absent: None.

Call to Order

Mayor Caggiano called the meeting to order at 6:00 p.m. There was a recitation of the Pledge of Allegiance.

1. Board of Public Works Minutes of the Previous Meetings

A. 02/17/2022 Regular Meeting Minutes Draft

Motion: made by Commissioner Hartley and seconded, to accept as presented and place on file.
Motion passed

2. Concerns & Petitions from the Public

Motion made by Commissioner Stawski to move #3 to #2

Tom Berrill and Debbie Berrill, 498 East Road, Bristol CT and spoke on flag policy.
Laura Minor, 88 Anderson Avenue, Bristol CT spoke via Zoom on flag policy.
Steve Poehler, 112 Fern Hill Road, Bristol CT was present but declined to speak.

3. New Business

Motion made by Commissioner Hartley to move #10A to #3

A. Authorize the Director of Public Works to amend the DPW FY2022-23 Street Division Overtime budget request to increase said account \$13,500 to support Special Event Roadside Barrier Road Closures.

Proposed MOU City/Local 233 & Local 1338 A copy of the proposed Memorandum of Understanding recommended to facilitate an amendment to the City's current labor agreement associated with roadside barrier special

event road closure barrier installation/removal and a proposed agreement to enable DPW assistance to the Police Department in the repairs of traffic signal equipment is attached. Please note the current practice of DPW installing street signs when the PD Fleet and Traffic Maintenance Technician is not available for work will remain as is.

Chief Brian Gould spoke on concerns on safety for road closure on events. Closing roads with wooden barriers offers no protection. For events, PD would like to evaluate robust barriers and will contact PW for Jersey Barriers.

Motion: made by Commissioner Hartley to move and seconded, to accept as presented and place on file. Motion passed

4. Unfinished Business

Motion made by Council Member Thibeault to move #9 to #4

A. Flag Policy

The American, State, and City flags are only flags to be flown over city properties. Motion made to adopt to the Berlin Policy through January 4, 2022. Include a reference to the Parks and Recreation Dept. for the Memorial Boulevard, because they are technically in charge of it, and where some Military Flags are flown under their Policy PWMIA. They would need to consult with the Veterans Council before we do. Move along to City Council as motioned

Motion: made by Commissioner Hartley and seconded, to accept as presented and place on file. Motion passed

5. Employee Recognition

A. March 2022 work anniversaries were recognized.

6. Director's Report

A. Director Rogozinski provided report on the Department.

Motion: made by Commissioner Stawski and seconded, to accept as presented and place on file. Motion passed

7. City Hall Renovation Project

A. City Hall Renovation Project: March 2022 Updates

Went over move to 150 Main Street, completion date for Court House. Reviewed bid phase renovations of City Hall.

Kenneth Romeo of Collier Inc. spoke about the upcoming move to Court House and move to 150 Main Street complete.

Frank of D' Amato/Downes Joint Venture spoke about specifics on the bidding phase.

Tom Arci (Architect) of QA+M spoke

Pete Fusco BOE spoke about asset management tool.

Motion: made by Commissioner Hartley and seconded, to accept as presented and place on file.
Motion passed.

8. Public Works Division Reports

A. The February 2022 Division Head Reports were presented.

Motion: made by Commissioner Dumas and seconded, to accept as presented and place on file.
Motion passed

9. Public Works Project Schedule

A. The March 2022 Project Schedule was presented and discussed.

Motion: made by Commissioner Hartley and seconded, to accept as presented and place on file.
Motion passed.

10. Building Committee

A. The March 2022 Project Schedule was presented and discussed.

Motion: made by Commissioner Strawski and seconded, to accept as presented and place on file.
Motion passed.

11. New Business

B. 2022 Pavement Management Program

Jason Morocco spoke on Pavement Management System and the work involved.

Motion: made by Commissioner Hartley and seconded, to accept as presented and place on file.
Motion passed.

C. Tree Warden Powers & Duties

Motion: made by Commissioner Dumas and seconded, to accept as presented and place on file.
Motion passed

Motion: made by Commissioner Dumas and seconded, to accept as presented and place on file.
Motion passed

12. Addendum

A. Motion made by Commissioner Hartley to bring the Board of Finance Transfer to the table.

Transferring \$45,000 to cover projected Diesel fuel cost increases. DPW is transferring from snow plow fees as we have limited use of contractors this winter.

Motion: made by Commissioner Stawski and seconded, to accept as presented and place on file.
Motion passed

B. Motion made by Commissioner Hartley to bring DPW Downs S Bridge to the table

Authorize the Director of Public Works to process a revised purchase order adjusting the contract amount 2P16-089 from \$267,000 to \$259,930. Said revision will also include a change in scope to eliminate construction inspection services and increase engineering services associated with the full bridge replacement.

Motion: made by Commissioner Hartley and seconded, to accept as presented and place on file.
Motion passed.

C. Motion made by Commissioner Hartley to bring DPW State Bridge Program to the table

Authorize the Department of Public Works to procure the engineering services of WMC Inc. to perform bridge inspections and prepare applications for the State/Local Bridge program for the Lave Ave Bridge Culvert (south of Glenn St) and Mellen St Culvert (between Mem Blvd & South St). Total cost of services shall be \$6,000.

Motion: Motion: made by Commissioner Stawski and seconded, to accept as presented and place on file. Motion passed.

D. Motion made by Commissioner Hartley to bring DPW Misc. Storm Drainage to the table

Recommend City Council authorize the Mayor or acting Mayor to execute an Amendment to Contract 2021-027A with Tabacco & Son Builders Inc. in the amount of \$450,000 to support DPW's spring and fall proposed paving program. Said work will be consistent with existing unit contract pricing. In addition, authorize the Department of Public Works to close the Purchase Order to B & W Inc. in the amount of \$400,000.

Motion: Motion: made by Commissioner Stawski and seconded, to accept as presented and place on file. Motion passed.

13. Adjournment

Motion: made by Commissioner Stawski and seconded, to adjourn. Motion passed.

Meeting adjourned at 7:57 p.m.

This meeting was recorded.

Respectfully submitted,

Raymond A. Rogozinski, P.E.
Director of Public Works

Minutes of Board of Public Works
Special Meeting
Tuesday, April 5, 2022
5:00 p.m. Council Chambers, City Hall
With Zoom Access

Members Present: Mayor, Jeffrey Caggiano
Council Member, Sebastian Panioto
Council Member, Cheryl Thibeault
Commissioner, Michael Dumas
Commissioner, David Hartley
Commissioner, Frank Stawski

Staff Present: Raymond A. Rogozinski, Director of Public Works
Roger Rousseau, Purchasing Agent
Nancy Levesque, City Engineer

Absent: Council Member, Jolene Lusitani

Call to Order:

Mayor Caggiano called the meeting to order at 5:00 p.m.

1. Concerns & Petitions from the Public:

None.

2. City Hall Renovation/Addition: Presentation and Preliminary Review/Update of Guaranteed Maximum Price(GMP) and Building Trade Bids:

Frank Tomcak, Project Executive, Downes Construction Company, reported to date the budget is 1.9 million dollars below the original projections. The scope review process is wrapping up. Allowances still to be addressed include: GPR scanning, possible ground contamination remediation, and lead remediation.

Council Member Thibeault questioned the integrity of a low bid contractor.

Purchasing Agent Rousseau, clarified the Downes Construction Company directly holds contracts for subcontractors, if issues arose it would be Downes's liability. He also remarked the company in question is under new management since previously reported issues from years ago.

Thomas Arcari, P.A., QA+M Architecture, 195 Scott Swamp Road, Farmington spoke to the impact of removing labor agreements in generating a significant cost saving, in part by increasing bid competition. He reporting receiving roughly equal submissions from of union and non-union bidders.

3. City Renovation: Review and Determination of Bid Alternates and Options and to Take Any Action Necessary:

Bid alternate No. 1: Replace existing polycarbonate panels at connector bridge was discussed.

Purchasing Agent Rousseau, confirmed existing panels in the connector bridge are polycarbonate, not glass.

Motion: made by Commissioner Hartley and seconded, to approve alternate No. 1 to: replace existing polycarbonate panels at the connector bridge, providing new straight and radiused polycarbonate panels in existing aluminum framing system. All in favor, motion passed.

Bid alternate No. 2: All scope of work at the maintenance garage

Purchasing Agent Rousseau, confirmed the construction affiliate of the Downes Construction Company would be unique and separate from staff and management employed in the role of construction management. He relayed he didn't not have reservations regarding a conflict of interest and provided examples when similar arrangements had been beneficial with previous projects.

Motion: made by Commissioner Hartley and seconded, to approve alternate No. 2 to: grant all scope of work at the maintenance garage including but not limited to new roofing, exterior painting, new overhead doors, new windows and new storefront assemblies, as per plans, contingent upon the construction team and related management being entirely separate from construction management staff. All in favor, motion passed.

Bid alternate No. 3: Install new stand pipes in existing stairwells

Motion: made by Commissioner Dumas and seconded, to approve alternate No. 3 to: provide new standpipes as shown on drawings within the existing stairwells in the event that the existing standpipes indicated to remain are deemed insufficient and cannot provide the required water pressure. All in favor, motion passed.

Thomas Arcari, P.A., QA+M Architecture, 195 Scott Swamp Road, Farmington, presented potential savings of \$177,000 if the City approved a combination bid for plumbing and HVAC line items from Ferguson, over the current low bid.

Motion: made by Commissioner Hartley and seconded, to approve the City to exercise a combined plumbing/HVAC. All in favor, motion passed.

4. City Hall Renovations – Review of Project Schedule

No action items.

5. Adjournment

Motion: made by Commissioner Stawski and seconded, to adjourn. Motion passed.

Meeting adjourned at 5:45 p.m.

This meeting was recorded.

Respectfully submitted,

Raymond A. Rogozinski, P.E.
Director of Public Works



Department of Public Works | 860.584.6125

Board of Public Works
Public Works Department Activity Report: Administration – March 2022

Public Works Monthly Metrics:

Number of Residential Transfer Station Visitors	3187
Number of Bulk Collections	220

Current month activities:

- PAYT reporting and debt collection continues.
- Communications, press releases, social media, website maintenance and enhancements are ongoing.
- Management of Street Light repair requests and Shopping Cart ordinance compliance.
- Educational outreach for Reduce & Reuse and training for the Recycle Coach application, which currently has 5,234 users.
- Pursued 48 abandoned shopping carts, resulted in \$0.00 in fines.
- Welcome packets to new residents, which included recycling magnets and events we have scheduled, have been going out Monthly.
- Assisting Solid Waste with Illegal Bulk letters and fines. 26 complaints were received in February, resulting 8 fines.
- Three barrels were retrieved from non-renewing residents this month. We have renewed 3406 residents for the 2022 season.
- Preparing for move to the Courthouse.

Next month activities:

- Enforcement of Illegal Bulk, Street light repair requests, welcome letters with new materials, PAYT debt collections, and monitor illegal dumping areas.
- Continue outreach to increase awareness of the Reduce & Reuse program and the Recycle Coach app., due to being closed to the public.
- Continue work on the Department's webpage, Facebook, Instagram and Twitter accounts to enhance media presence. Everything is on our website and social media for residents to fill out or have their questions answered.
- Working with the schools for Reduce Reuse Recycle campaign.

- Working with the STEM after school program with the schools on Recycling composting and gardening.
- Working with the high school with their Earth day campaign.

Administration staff or concerns:

Administration Monthly OT Costs: \$245.79

Facilities – March 2022

Building Maintenance current month (March 2022) activities:

- Staff continued to provide ongoing support to Van Zelm, Downes/D'Amato and others for site access, building systems review and other tasks associated with the repurposing of the former Court House space for the future renovation of City Hall
- Staff coordinated with City Hall Departments moving to the former Webster Bank building at 150 Main Street, move dates of 3/1, 3/3 and 3/11 (Mayor's Office, Registrar, Corporation Counsel, Tax Assessor, Tax Collector, City Clerk, Human Resources & ECD) and also installed ancillary equipment associated with restrooms, keys for building and personal office access, fire panel activation with D'Amato staff
- Finalized the Park & Recreation Department task list of items for adjustment of office spaces at 51 High Street (monitor installations, hanging photos/plaques, shelving installations, sheetrock repairs, parking space numbering, etc...)
- Manager Oakes working with Grants Administrator Dawn Leger on securing a State Historic Preservation Office 50/50 grant of \$75,000 for the exterior woodwork repairs and painting of 51 High Street (incorporates lead-based paint EPA protocols and other SHPO bidding requirements)
- Manager Oakes provided final design document review and comment to Van Zelm staff with with respect to mechanical upgrades at Fire House #2, Fire House #5 and the Animal Control Facility
- Purchase order in the sum of \$10,686.30 issued to Dalene Flooring (of Southington) for the replacement of select areas of the basement carpet at the Main Library (via State Bid contract)
- Staff completed numerous tasks associated with fit out of 150 Main Street City Hall East office spaces per Department Head instruction
- Staff attending equipment training with Downes/D'Amato staff for electrical, plumbing, mechanical, fire safety equipment for new systems installed at City Hall West complex at 131 North Main Street
- Facilities Manager completed annual review of existing Lockout-Tag Out procedures with Senior Maintenance Technician and make changes as necessary. Blood Borne Pathogen policies will also reviewed/updated and staff training to be completed, fulfilling OSHA required guidelines
- Oakland LLC completed plumbing modifications to support the move of an ice machine into the boiler room to better aid Fire Department staff at Fire House #4 for emergency response events and decontamination processes
- Synergy Fire conducted fire system inspections at City Buildings including Parks & Recreation facilities
- Snow operations responses on 3/9, 3/10 & 3/12
- Begin the transition to Spring landscaping operations and preventative maintenance and storage of snow removal equipment
-

Building Maintenance next month (April 2022) activities:

- Continue to assist and coordinate with City Hall Departments and Bristol Police in preparation for transition to former Court House swing space related to City Hall renovation activities and provide access/assistance to Downes/D'Amato staff for build-out of new office spaces
- Staff to install numerous TV/monitors in conference rooms/offices, set up public meeting rooms, install restroom dispensers/fixtures at City Hall West complex, including the construction of (6) metal sheds on the 3rd level parking area for storage of equipment belonging to ECD Farmers Market, Emergency Management supplies and Building Maintenance equipment/supplies
- Complete final clean-out of City Hall offices, mechanical and electrical rooms and meeting rooms in advance of Downes/D'Amato renovations beginning in May 2022 (removal and relocation of UST monitoring system, camera systems, AED device, lock/lever hardware, AV systems and other equipment that can be repurposed to save costs)
- Replacement of cracked boiler section at Main Library
- Conversion of Fire House #4 Building Management System to the City Building standard of Schneider Structure, by SNE Building Systems
- AirTemp Mechanical to replace eroded section of paneling on Main Library chiller condensate tank in advance of the cooling season
- JCI to conduct regular maintenance and annual start-up of Police Complex chiller unit to maintain equipment warranty
- Spring landscaping clean-up activities at City facilities including parking lot curb damage repairs

Building Maintenance Staff or concerns:

- Anticipate low to moderate levels of Vacation/Miscellaneous time off during April
- Long term loss of Groundskeeper/Building Technician due to worker's comp injury sustained on 1/11/21 (temporary Custodian Giovanni Antonio taking on the landscaping during this absence)
- Vacancy of 2nd Shift Building Maintenance Technician position, temporary Custodial position posted on City Job Openings to help alleviate work order backlog and existing staff upgraded temporarily to fill during transition

Building Maintenance OT Costs:

\$11,508.05: Staffing coverage for after-hour maintenance issues, coverage for shift vacancies due to vacations/earned time off/observed holidays, snow removal operations, numerous tasks relating to the preparation of office spaces at 150 Main Street and 131 North Main Street for early March and early April move-ins, respectively

Land Use activities for March 2022:

Zoning Commission

Special Permit and Site Plan for fast food restaurants with drive-up facilities at 1444 Farmington Avenue; Assessor's Map 46, Lot 75A; BG (General Business) zone – APPROVED.

Alternative Signage Program – Pursuant to Section VIII.A.8. of the Zoning Regulations: Request for review/approval for: the Bristol Event Center; 42 Century Drive; Assessor's Map 4, Lot 1; IP-1 (Industrial Park) zone – APPROVED.

Public Act 21-29 Section 6 – Review and Discussion of the Opt-Out provisions for Accessory Dwelling Units (ADU's) pursuant to Public Act 21-29 – APPROVED OPT OUT.

Public Act 21-29 Section 4 – Review and Discussion of the Opt-Out provisions for Parking Space Requirements pursuant to Public Act 21-29 – APPROVED OPT OUT.

Inland Wetlands & Watercourses Commission

Wetlands boundary change application for the revision of the wetlands boundary based upon soil scientist survey at 16 Andrews Street; Assessor's Map 38, Lots 62-4, 62-4A, & 61-5; 16 Andrews Street LLC, applicant. – APPROVED.

Zoning Board of Appeals

Variance of minimum front yard to allow for the construction of a single-family home at 115 South Street Extension; Map 16, Lot 91/33; R-15 (Single-Family Residential) zone – APPROVED.

Variance of the build-to-line to allow for the construction of a 46,600 sq. ft. medical office building at east of North Main Street and south and west of Hope Street; Map 30, Lot 3 & 4; BD-1 (Downtown Business) zone – APPROVED WITH STIPULATIONS.

Certificate of Approval for general repairer at 292 Riverside Avenue; Assessor's Map 30A, Lot 12; BHC (Route 72 Corridor Business) zone – APPROVED.

Historic District Commission

The Commission did not meet in March.

Planning Commission

Proposed amendments to the Zoning Regulations: 1) to modify the off-street parking requirements for multi-family dwellings in Section VIII B.2.b.(2); 2) to remove subsections V.D.7.d. & V.D.7.e. from the general requirements of the A-Multi-Family Residential zone – POSITIVE REFERRAL.

1. C.G.S 8-24 Reviews:

a. Sale of municipal property:

- i. Map 30 Lot 4 – North Main Street – POSITIVE REFERRAL
- ii. Map 30 Lot 5 – North Main Street – POSITIVE REFERRAL
- iii. Map 26 Lot 6 – North Main Street – POSITIVE REFERRAL
- iv. Map 26 Lot 7 – North Main Street – POSITIVE REFERRAL
- v. Map 26 Lot 8 – North Main Street – POSITIVE REFERRAL

b. Substantial improvement of municipal property:

Map 26 Lot A-1 – 111 North Main Street

- i. City Hall Renovations – POSITIVE REFERRAL.
- ii. Revised Right of Way – POSITIVE REFERRAL.
- iii. Parking Garage – (Corner of Meadow Street and Kelley Street) – POSITIVE REFERRAL.

Land Use staff or concerns:

- o Monthly overtime costs (Board/Commission Secretaries at meeting; Assistant City Planner at meetings):
\$223.47

Solid Waste March 2022 Report

Solid Waste current month activities:

- Continued illegal bulk inspection and enforcement activities. We sent out 49 letters and picked up 6 illegal bulk stops.
- The bulk crew picked up 220 scheduled bulk stops.
- Continued the on-site management of barrels at the Transfer Station, disassembling, cleaning and reusing barrels.
- We currently have 1448 active yard waste residents.

- Continued auditing curbside recycling barrels with the intent to continue educating the residents on the do's and don'ts of recycling.
- Received order of new lids and wheels from Cascade Cart Solutions.
- Used vactor to clean out built up debris from under the Transfer Station scales.

Solid Waste next month activities

- Continue illegal bulk inspection and enforcement activities.
- Monitor manufacture and transportation process for additional rubbish, recycling and yard waste containers.
- Continue on-site yard waste management activities at Transfer Station and delivery of yard waste barrels to new customers.
- Continue auditing curbside recycling barrels.
- Receive shipment of new rubbish, recycling and yard waste barrels.
- Deliver event barrels for car show on Hope St.
- Start spring leaf and yard waste collection.
- Sending R-6, R-10 and R-15 to Sanitary Equipment to install new camera system.

Solid Waste staff or concerns:

- Manage Solid Waste Division staffing levels.
- Manage Division vehicle equipment needs.
- Continue to cross train Division employees.

<u>OT Costs/Revenue Generated:</u>	
Solid Waste OT =	\$4,294.27
Transfer Station OT =	\$4,129.29
TS Revenue (PAYT) =	\$23,223.20
Residential Permits =	\$6,060.00
Commercial Permits =	\$200.00
Yard Waste Revenue =	\$0.00
Murphy Road Rebate =	\$0.00
Iron Liberty Recycling =	\$3,815.00
Aluminum Liberty Rec =	\$0.00
Batteries Liberty Rec =	\$0.00
Electronics Take Two =	\$0.00
Compost Sale =	\$0.00
Bulk Pick-Up Revenue =	\$0.00
Book Box =	\$0.00
Misc. Revenue =	\$0.00
Border Street =	\$0.00
Illegal Bulk Fines =	\$122.80
Simple Recycling =	\$0.00
Barrel Sale =	\$2,635.00
Special Pick up – 2 nd	\$800.00

Streets March 2022 Report

Streets current month activities:

- Continued to provide all employees with cleaning supplies as well as masks due to COVID-19
- Finished making signs for City Hall West and East
- Continued with roadside maintenance of City properties, including litter and yard sign removal. This work will be on going throughout the seasons
- Preparing for winter with salt deliveries as well as liquid mag
- Started Installing concrete curb at the transfer station
- Serviced trees, including pruning, removals, and testing
 - Take downs (Birge Road-2, Putnam Street-2, Sherman Street, West Bristol School-6)
- Started installing mailboxes that were with in specs due to plow damage
- Pine Lake Parking Lot- (Waiting on sewer lateral to top coat)
- Milling and Paving- OFF SEASON
- Addressing Street Signs
- Stump Removals/ Loam
- Continuing small road repair
- Curb repair
- Vactor Work
- Cleaned out culverts throughout the city
- Milling and Paving
- Driveway Aprons
- Loam
- Patched Potholes
- Street Sweeping
- Storm Drainage
 - Completed Basin Repairs (Berkshire Drive-2, Sinkhole Fire House North Main, Sinkhole Bristol Easter HS)
 - Installing new poles and signage
- Winter Operations-
 - Had several storms throughout the month which resulted in snow removal (Intersections, downtown, dead ends, sight line issues)
 - Mailbox Repairs

Streets next month activities:

- Continue with roadside maintenance
 - Street Sweeping
 - Potholes
 - Curb repair
 - Loam
 - Driveway aprons
 - Catch basin repair
- Pine Lake Parking Lot
- Winter Operations
 - Plowed and treated roads
 - Service Requests
 - Curbing
 - Mailboxes
- Continue addressing street road name signage replacement
 - Installing new poles and or signage
 - Look into printing other road signage of other Departments
 - Fixing and installing signs for Police Department
- Maintenance of city properties
 - Litter clean up
 - Lawn Maintenance

- Bridge clean ups
- Continue tree take downs, trimming and stump grinding
- Continue to address seasonal maintenance activities, including preparation of seasonal operation equipment
- Assist other public work programs and departments as required

Streets staff or concerns:

Street Division is currently addressing service requests from the general public with our maintenance programs. We have been managing these requests throughout designated areas.

February OT Totals:	\$ 1,720.59	Streets
	\$47,381.45	Snow

Fleet Maintenance Current Activities:

- Library Truck (L1) was diagnosed with a bad alternator. Truck was outfitted with a new one and is back in service. Truck also has a transmission leak. Was told vehicle is to be traded in this budget for a new one.
- Streets Div. (S24) Bucket truck is down due to engine failure as well as replacing the Hybrid transmission system. Truck will be shipped out to dealer for the extensive repair work.
- Streets Div. (S21) 2005 10 wheeled dump truck was brought in for a new muffler system. Truck also needed a new air compressor and dryer after diagnosing a faulty system. Truck is back in service.
- Streets Div. (S22) 2007 10 wheeled dump truck was sent to the Mack dealer for a hard steering issue. Awaiting results.
- Streets Div. (GC2) 2000 L90 front end loader was brought in for a new condenser, all engine belts and a new fuel pump system.
- Streets Div. (C7) 2006 Elgin street sweeper had the whole elevator rebuilt. New chains, flights and a whole new floor fabricated in. Machine also had the air dryer and compressor replaced as well as a fresh service. Machine is currently back in service.
- Fleet went through all rear loaders for upcoming leaf and yard waste collection.
- Fleet went through all street sweepers for upcoming season as well.
- Streets Div. received new 22' tilt deck trailer (C11) for operations. Trailer is much safer, stronger and more user friendly.
- Solid Waste Div. (R14) 2019 Automated rubbish truck was brought in for new lift arm chains and new rear tires.
- Solid Waste Div. (R27) 2014 Automated rubbish truck was brought in for new packer rollers, hydro leak and a rear door hydraulic transfer box. Truck also needed new lift arm chains upon inspection. Truck is back in service. Awaiting radiator replacement.
- Solid Waste Div. (R11) 2017 Automated rubbish truck was brought in for a failed lift cylinder for the arm. Truck also needed a new control panel to operate the body system. Repairs were made and vehicle is back in service.

- PW received their 1st out of 4 state vehicles. Great program and I expect this system to work out very well for the city. This saves the city around \$40,000 per vehicle purchased!

Fleet Maintenance Next Months Activities:

- Continue scheduled service to our Fleet vehicles.
- Continue scheduled services to our other divisions as well as our P.D.
- Continue to keep Streets Ops. Running strong.
- Continue to keep our Solid Waste running strong.
- Service and store winter equipment.

Fleet Maintenance Staff or Concerns:

- I still would like to put together a procedure to buy used equipment. (We currently have funds set aside for the purchase of 4 used vehicles at state cost)
- Concerns about vehicle availability for 2022-23 capital budget due to Covid related non production issues.
- Concerns about the inflation, availability and surplus costs on equipment, parts and materials.
- David Porter retired.
- Kenneth Guertin Quit.
- 2 Mechanics positions open.
- Overtime expenditures and totals \$4,294.72 (Holiday, Dispatch and Mechanic).

[illegible]



Department of Public Works | 860.584.6125

MEMORANDUM

DATE: April 4, 2022

TO: Raymond Rogozinski P.E., Public Works Director

FROM: David Oakes, Public Works Facilities & Energy Manager

RE: City Building Project List Updates

Main Library – Carpet Replacement - \$14,000

The basement level of the Main Library at 5 High Street has a green carpet border that is showing age and staining. A purchase order has been issued to Dalene Floor in the sum of \$10,686.30 (via State Contract pricing) to replace the border carpet as well as sections of the historic wing stairwell carpet.

Main Library – Chiller Panel Replacement - \$12,985.00

A rotting section of the chiller panel on the condensate tank was discovered by Staff previously at 5 High Street. Air Temp Mechanical replaced the eroded section on 4/4/22 and work has been completed well before the chiller will be put online for the cooling season.

51 High Street Window Trim Repairs & Painting - \$50,000

Grant Administrator Dawn Leger of ECD is working with Manager Oakes to submit the online SHPO application for this project and a request of \$75,000 in funding is submitted for consideration.

Fire House #2 AC System & Fire House #2 & #5 Generator Replacements - \$22,910

Van Zelm Engineers previously completed a HVAC study at Fire House #2 and electrical systems and generator evaluations at Fire House #2 and Fire House #5. Bid design documents from Van Zelm have been reviewed and comment has been provided to finalize the package for incorporating together with standard bid contract language. Bidding packages will go out in the next several weeks through the Purchasing Department.

Fire House #2 PO total: \$13,195.00

Fire House #5 PO total: \$9,715.00

Beals Center Hot Water Heater Replacement - \$16,500

SAV-MOR installed the hot water heater on March 17th and 18th at the Beals Community Center. The unit is currently operational and Staff have reported no issues since that time.

Fire House #4 – Building Management System Platform Integration - \$6,150

SNE Building Systems has been awarded a purchase order in the sum of \$6,150.00 to migrate the BMS to the existing Schneider BMS that supports City Hall, Police Complex, 51 High Street and both Libraries, which will allow better control and troubleshooting of HVAC issues in the future. A panel is on back-order



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until April 18th, but SNE staff have completed work in advance to speed up conversion when the panel arrives.

Animal Control Facility HVAC Evaluation Study - \$19,850

The Animal Control Facility HVAC and electrical systems are antiquated and in need of upgrades. Van Zelm Engineers have been contracted to conduct a Mechanical, Electrical & Plumbing (MEP) evaluation of the entire complex to provide recommendations for potential improvement, including the building envelope (windows, doors insulation and roof). The evaluation report will provide guidance on code requirements and future budget estimates to properly upgrade the building for the long-term future. The sum of the evaluation study is \$19,850.00.

Police Complex – HVAC1 Return Air Fan Replacement - \$17,700.00

The inline duct return air fan for HVAC1 air handler failed completely after 4 decades of dedicated service. Obtaining an exact replacement was impossible based on the age of the unit. The following quotes were received for the replacement of the unit with a similar specification:

Shaffer Beacon Mechanical: \$33,216.00

Air Temp Mechanical: \$22,300.00

SAV-MOR Heating & Cooling: \$17,700.00

A purchase order in the sum of \$17,700.00 was issued to SAV-MOR. The lead time on the RAF is approximately 18 weeks.

PUBLIC WORKS BOARD CITY BUILDING PROJECT LIST - APRIL 2022

Funding Year	Location	Project Name	Contractor Name	Current Budget	Construction Estimated % Complete	Schedule/ Completion Date	Comments/Recommendations	Original Budget
FY21-22	Main Library	Carpet Replacement - Lower Level	Dalene Flooring	\$10,686.30	0%	4/30/2022	PO issued on 4/1/22	\$14,000.00
FY21-22*	Main Library	Cooling Tower Tank Repairs	AirTemp	\$12,895.00	0%	5/31/2022	Replacement of condensing tank rotted panel	\$12,895.00
FY19-20	51 High Street	Window Trim Repairs/Exterior Painting		\$50,000.00	0%	6/30/2022	SHPO grant application in the process with ECD	\$50,000.00
FY21-22*	Fire Hosue #2	Electrical & AC Design	Van Zelm Engineers	\$13,195.00	75%	3/1/2022	Staff review of design documents completed	\$13,195.00
FY21-22*	Fire House #5	Electrical Design	Van Zelm Engineers	\$9,715.00	75%	3/1/2022	Staff review of design documents completed	\$9,715.00
FY21-22*	Beals Center	Hot Water Heater Replacement	SAV-MOR	\$16,500.00	100%	3/18/2022	Completed	\$16,500.00
FY21-22*	Fire House #4	BMS Plaform Integration	SNE Buildng Systems	\$6,615.00	25%	6/30/2022	Panel on back-order until 4/18/22	\$6,150.00
FY21-22*	Animal Control Facility	HVAC Evaluation Study	Van Zelm Engineers - Design	\$19,850.00	50%	5/31/2022	Evaluation of existing MEP systems/recommendations	\$19,850.00
FY21-22*	Police Complex	HVAC #1 RAF Replacement	SAV-MOR	\$17,700.00	0%	7/31/2022	18 week lead-time on replacement fan unit	\$17,700.00

\$139,456.30

Available as of July 2021	330,147.23
2022 Funding	176,000.00
Spent 2021-2022	176,247.50
Less committed contracts	109,091.81
Less committed projects	139,456.30
Net Available	81,351.62

CAPITAL IMPROVEMENT PROJECTS

Location	Project Name	Contractor Name	Current Budget	Comments	Original Budget
Fire Headquarters	Mechanical Improvements	SP&A/Millennium Builders	\$1,300,000.00	Hydronic heaters remain, sustainial completion/retainage held	\$1,300,000.00
Fire House #2	AC System Installation	Van Zelm Engineers - Design	FY22-23	To be funded under FY22-23 Project Budget	\$45,000.00
Fire House #2	Emergency Generator Replacement	Van Zelm Engineers - Design	FY22-23	To be funded under FY22-23 Project Budget	\$65,000.00
Fire House #5	Emergency Generator Replacement	Van Zelm Engineers - Design	FY22-23	To be funded under FY22-23 Project Budget	\$65,000.00

MAJOR CONCERNS & ISSUES

Location	Project Name	Contractor Name	Comments
City Yard	Salt Dome Lighiting Upgrades	TBD	Replacement of metal halide interor/exterior lighting with LED fixtures



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MEMORANDUM

DATE: April 11, 2022

TO: Mayor Jeffrey Caggiano
Board of Public Works

FROM: Raymond A. Rogozinski, P.E., Director of Public Works

RE: BPW April – Director's Report

Please find attached a summary report of the Department's activities, issues and concerns for the April Board of Public Works' meeting.

1. Staffing: **Building Maintenance Division:** Staff shortage persist. The evening shift maintenance tech position has been temporarily filled with a custodian and a posting for a temporary custodian has been advertised. Due to work load associated with City Hall office moves and the vacancies the Senior Maintenance Tech & other maintenance staff positions has worked increased overtime. Overtime associated with the City Hall move is being charged to the renovation project (approx. \$7,200). Once City Hall is vacated and temp space fully established current overtime associated with City hall renovation project will cease. **Fleet Division:** One of the two mechanic vacancies has been filled. A mechanic & mechanic helper position is currently vacant and has been posted. **Eng. Division** – Vacant position of Env. Tech which is anticipated to be filled from within the Department and will create a vacancy of a construction inspector. The Division's Civil Engineer has taken a position in the private sector. The position has been posting and the timing may be advantageous to recruit a recent college graduate. The loss of the Civil Engineer will impact the design schedule for Minor Road repaving/storm drainage (west of Hill St) and Maple Court reconstruction. **Covid:** No/limited loss time of DPW staff due to Covid.
2. Solid Waste Transfer Station: Due to cut over of the primary IT fiber connection at City Hall computer service was not available on Saturday April 9, 2022. As a result the transfer



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- station scale was non-operational. Large loads were recorded manually, however the estimated revenue loss is \$4,800.
3. Flag Policy: BPW voted at its March meeting to approve a policy subject to Corp Counsel review and forward a recommendation to City Council. Based on a review of the policy, Corp Counsel has forwarded the matter to the City's Ordinance Committee.
 4. Simple Reporting: DPW implemented an iPhone APP that allowed users to take a picture of a concern/complaint that automatically sent an email with the location to DPW. However, the APP is no longer compatible with iPhones. DPW will investigate alternative APPs and has stopped advertising Simple Reporting use.
 5. Mem Blvd Retaining: The City has been notified by the State and it appears City reimbursement of the \$1,200,000 grant associated with construction of the Mem Blvd retaining wall will be processed administratively. Mem Blvd trees scheduled to be planted along the wall disturbance area in May.
 6. Mem Blvd Bridge: Construction delayed due to supply chain issues associated with granite stone facing. Completion scheduled for June.
 7. Traffic Signal Training: City staff DPW & PD received two day of training for traffic signal repairs (common problems). The training was well received by staff and informative, however in order for DPW to provide benefit to PD period exposure / repair experience is required. Staff training that is not utilized will have minimal future benefit if not reinforced.
 8. Riverside Ave Streetscape: Design funding for Riverside Ave Streetscape/safety improvements (\$350,000) scheduled to be approved as part of DPW CIP FY2022-23 budget. Funding for construction estimated at \$4,300,000. The Mayor has written to the DOT Commission to request partnering on the project. Meeting anticipated.
 9. OSHA Training: Work zone safety training currently being scheduled for the Street Div. and Eng. Div. Training provided by ConnOSHA.
 10. Organic Food Waste Processing; A tour of Quantum Inc. an organic food waste processing facility in Southington has been scheduled for May 25, 2022 at 5:00 PM. Additional information will be provided.
 11. Solar Panel: DPW investigating installation/cost benefit of installing solar car/truck ports at DPW Vincent P Kelly garage facility.
 12. FEMA Reimbursement: City received a portion of DPW's FEMA cost reimbursement \$47,000 associated with tropical storm Isaias. Additional reimbursement of approx. \$120,000 anticipated.



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13. Litter: DPW picked up litter on Waterbury Road, Clark Road and James P Casey Road.
14. Woodchip: DPW woodchips currently being disposed of at Shepard Meadow Horse Farm on Hill Street. The nonprofit requested the wood chips for bedding. DPW typically disposes of the woodchips at the transfer station. Disposing of the chips at Shepard Meadow Horse Farms save the Department a minimal charge of disposing at the transfer station.
15. Trash to Treasure: DPW anticipates continuation of the Trash to Treasure program conducted at the Farmers Market. The container is currently empty. Items damaged over winter due container leaks, however we are currently identifying items.
16. Construction Material Processing: DPW scheduled to rent a rock crusher to process asphalt and concrete. In addition, as previously approved by the BPW in 2021 a portion of the general fill note used by DPW approx. 3100 CY will be provided to Business Park Drive builder of Lot 2.
17. Landfill Stewardship Program: Draft CT DEEP permit provided. Currently being reviewed by DPW.
18. Vehicles: DPW received 2/4 State surplus vehicles to date (1 vehicle delivered this month).
19. Storm Water Trust: Required deposit of \$64,000 into storm water trust for maintenance of the Corbin Ridge detention received by Sachem Capital. Based on deposit Corbin Ridge Extension will proceed with process to be accepted as a City road.

Feel free to contact me with any question or concerns at 860-584-6113.



Department of Public Works | 860.584.6125

MEMORANDUM

DATE: April 11, 2022

TO: Mayor Jeffrey Caggiano
Board of Public Works

FROM: Raymond A. Rogozinski, P.E., Director of Public Works

RE: City Hall – Renovations Project Update (April)

The City's construction manager D'Amato/Downes Joint Venture ("DDJV") continues to meet with apparent low bidders for trade contracts and review/establish allowances to finalize the construction GMP (Guaranteed Maximum Price). The latest update of the GMP is attached. As previously reported, the GMP represents the total construction cost for the renovated City Hall & addition, and is the sum of trade packages, DDJV general conditions cost & management fee (1.85 % of construction cost), along with allowances. The GMP does not include FF&E (furniture/AV), design, moving the cost of temporary office space being used during construction, and other soft costs.

As indicated in the GMP summary, the project is currently \$1,506,248 below the budget. The attached GMP summary is based on utilizing all apparent low bidders as well as exercising bid alternate options associated with renovating the maintenance garage, skywalk, stairwell fire stand pipe and a combined plumbing/HVAC trades contract.

City Council is scheduled to receive a presentation of the preliminary GMP and the attached project schedule at the April 12, 2022 Council meeting. In order to maintain the schedule, a special City Council meeting is proposed for the week of April 24, 2022 (anticipated 4/28/22) to authorize the Mayor to execute the final GMP.

DPW is scheduled to cut down the City Hall trees during the first week of May. The trees have been posted for removal in accordance with State Statute. The primary reason for DPW to complete the work is to keep sizeable sections of the sycamore trees for potential reintroduction back into the renovated City Hall as a bench or design feature.

As of this writing, all City departments are moving out of City Hall into temporary space at City Hall East and West. Once the department move outs are complete, City Hall will be locked during

the day and will be reopened for evening meetings (the last ones are scheduled for May 4, 2022). Items left by departments still remain in City Hall such as pictures and furniture. All departments will be notified to perform a final inspection and all departments will be afforded an opportunity to claim items. However, the movers are scheduled to remove and dispose of all remaining items from City Hall during the first week of May. DPW will provide a dumpster for metal and for general debris, as well as a truck to dispose of remaining documents that will be transported directly to Covanta for destruction.

The initial phase of construction will consist of installing a perimeter fence around City Hall site which will be followed by interior building demolition and site excavation. The existing flag pole and Police monument will be relocated to an area in front of the Police Complex.

The furniture supplier who has been working with the architect QAM is currently preparing a cost estimate based on State contract pricing. In addition, a separate AV and security bid package is being prepared (base bid includes conduits). DPW will schedule the AV consultant to provide a presentation to the Board at its May meeting.

All City Hall meetings have been rescheduled off site (i.e. out of City Hall) at the library, BOE Church Street Administration building (City Council & Land Use meetings) and the meeting room located at City Hall West (Court space). The City Hall West meeting room has a capacity of 50 including Board/Commission members, and will be the location of the BPW's May 19, 202 meeting.

Design drawings of the proposed construction can be accessed via the link below:

<http://ct-bristol2.civicplus.com/578/Documents>

I would like to close by indicating that each department and all City Hall employees have been very cooperative during the move. I understand that change is difficult, moving has been an added task to their work, and that the temporary space is not as nice/efficient as City Hall. With that said, City employees have embraced the change and support the temporary conditions that this project requires.

Project consultants from QA+M, Colliers Inc. and D'Amato/Downes Joint Venture will be present at the Board of Public Works meeting to address any questions or concerns that you may have. In addition, please feel free to contact me at 860-584-6113 to discuss.

AMENDMENT #2.0
A.1.1.2 - GUARANTEED MAXIMUM PRICE

BRISTOL CITY HALL RENOVATIONS / ADDITIONS
EXHIBIT A - GMP - ATTACHMENT #01

4/06/22 - DRAFT

NOT SCOPED
SCOPED



Provided below is an itemized statement of the Guaranteed Maximum Price organized by trade categories, allowances, contingencies, alternates, the Construction Manager’s Fee, and other items that comprise the Guaranteed Maximum Price.

AS OF								
NUMBER	DESCRIPTION	CONTRACTOR	CURRENT CONTRACT	Amendment #1.0 IT & SWING SPACE ONLY	Amendment #2.0 RENO/ADDITION	Amendment #2.0 Accepted Alternates	Amendment #2.0 Total w/Alternates	Total Value as of this Amendment (GMP)
011000	TEMP FACILITIES & CONTROLS	DDJV		\$ 67,224				\$ 67,224
024100	DEMOLITION	DDJV		\$ 117,196				\$ 117,196
061500	GENERAL TRADES & CARPENTRY	DDJV		\$ 160,097				\$ 160,097
064020	ARCHITECTURAL WOODWORK	BP #1.6.1 Petrunti Millwork		\$ 33,000				\$ 33,000
081110	HOLLOW METAL DOORS/FRAMES/WOOD DOORS & HARDWARE	BP #1.8.1 Builders Hardware		\$ 31,500				\$ 31,500
092100	GYPSUM BOARD ASSEMBLIES/CEILINGS	BP #1.9.1 Acoustics Inc		\$ 171,673				\$ 171,673
096560	RESILIENT FLOORING & TILE CARPETING	BP #1.9.4 R&B Flooring		\$ 66,000				\$ 66,000
099000	PAINTING	BP #1.9.5 Professional Painting		\$ 23,400				\$ 23,400
101400	SPECIALTIES	DDJV		\$ 22,986				\$ 22,986
210000	FIRE SUPPRESSION	BP #1.21.1 HHS Mechanical		\$ 34,228				\$ 34,228
220000	PLUMBING	BP #1.22.1 JB Mechanical		\$ 54,500				\$ 54,500
230000	HVAC	BP #23.1 Elite Mechanical		\$ 113,300				\$ 113,300
260000	ELECTRICAL	BP #26.1 Masotti Electrical		\$ 317,557				\$ 317,557
	TEMP FACILITIES & CONTROLS	DDJV			\$ 980,911		\$ 980,911	\$ 980,911
2.2.1	SELECTIVE DEMOLITION & ABATEMENT	Accurate			\$ 1,741,922	\$ 13,650	\$ 1,755,572	\$ 1,755,572
2.3.1	CONCRETE FOUNDATIONS	D'Amato			\$ 317,703		\$ 317,703	\$ 317,703
2.4.1	MASONRY	CT Mason			\$ 527,000	\$ 5,230	\$ 532,230	\$ 532,230
2.5.1	STRUCTURAL STEEL & MISC. METALS	Steeltech			\$ 877,600		\$ 877,600	\$ 877,600
2.6.1	GENERAL TRADES & CARPENTRY	Downes			\$ 748,478	\$ 93,850	\$ 842,328	\$ 842,328
2.6.2	ARCHITECTURAL WOODWORK (FURNISH & INSTALL)	Downes			\$ 735,076		\$ 735,076	\$ 735,076
2.7.1	ROOFING SYSTEM	Silktown			\$ 829,000	\$ 71,200	\$ 900,200	\$ 900,200
2.8.1	ALUMINUM WINDOWS & METAL PANEL SYSTEMS	Cherry Hill Glass			\$ 2,152,425	\$ 148,421	\$ 2,300,846	\$ 2,300,846
2.8.2	DOORS, FRAMES, HARDWARE (FURNISH & INSTALL)	Downes			\$ 480,544	\$ 2,760	\$ 483,304	\$ 483,304
2.9.1	GYPSUM DRYWALL	Acoustics			\$ 1,985,000	\$ 1,040	\$ 1,986,040	\$ 1,986,040
2.9.4	TILE	Spectrum			\$ 78,132		\$ 78,132	\$ 78,132
2.9.2	ACOUSTICAL CEILINGS	Central Conn Acoustics			\$ 363,900		\$ 363,900	\$ 363,900
2.9.3	FLOORING	MF Higgins			\$ 881,198		\$ 881,198	\$ 881,198
2.9.5	PAINTING & WALL COVERINGS (INCL. RESINOUS FLRG)	M&P Painting			\$ 278,000	\$ 10,000	\$ 288,000	\$ 288,000
2.14.1	ELEVATOR	OTIS			\$ 197,000		\$ 197,000	\$ 197,000
2.21.1	FIRE SUPPRESSION	Synergy Systems			\$ 412,274	\$ 15,295	\$ 427,569	\$ 427,569
2.22.1	PLUMBING SYSTEM	Ferguson			w/HVAC		\$ -	\$ -
2.23.1	HVAC SYSTEM	Ferguson			\$ 3,592,000	\$ 6,700	\$ 3,598,700	\$ 3,598,700
2.26.1	ELECTRICAL SYSTEM	Ferguson			\$ 2,267,000		\$ 2,267,000	\$ 2,267,000
2.27.1	COMMUNICATIONS	Net Services			\$ 238,000		\$ 238,000	\$ 238,000
2.28.1	FIRE ALARM SYSTEM	JE Shea			\$ 131,000		\$ 131,000	\$ 131,000
2.31.1	SITWORK	D'Amato			\$ 1,511,177		\$ 1,511,177	\$ 1,511,177
ALLOW	FORENSIC DEMOLITION ALLOWANCE	DDJV	\$ 75,000	\$ -				\$ 75,000
ALLOW	MISC PATCH REQUIRED IN EXISTING BATHROOMS FOR PLUMBING	DDJV		\$ 2,500.00				\$ 2,500
ALLOW	CARPET REPLACEMENT	DDJV		\$ 2,500.00				\$ 2,500
ALLOW	SPLINE CEILING REPLACEMENT	DDJV		\$ 5,000.00				\$ 5,000
ALLOW	CHASE FOR LINEAR GRILLES AT COUNTERS	DDJV		\$ 5,000.00				\$ 5,000
ALLOW	PREMIUM TIME ALLOWANCE	DDJV		\$ 12,000.00				\$ 12,000
ALLOW	WEEKEND/OFF-HOUR SUPERVISION ALLOWANCE	DDJV		\$ 8,000.00				\$ 8,000
ALLOW	HAZARDOUS ABATEMENT	TBD		\$ 20,000				\$ 20,000
ALLOW	Hazardous Soils at USTs				TBD			TBD
ALLOW	GPR Scanning				TBD			TBD

NUMBER	DESCRIPTION	CONTRACTOR	CURRENT CONTRACT	Amendment #1.0 IT & SWING SPACE ONLY	Amendment #2.0 RENO/ADDITION	Amendment #2.0 Accepted Alternates	Amendment #2.0 Total w/Alternates	Total Value as of this Amendment (GMP)
ALLOW	Video Inspection Underground Utilities				TBD			TBD
ALLOW	Possible Polluted Soils Dipsosal at Yard Drain Area				TBD			TBD
ALLOW	Mudset for Bathrooms 009 & 010 RFI 183				TBD			TBD
ALLOW	Additional Floor Patch / Leveling				TBD			TBD
ALLOW	Weekend Supervision				TBD			TBD
ALLOW	Additional Lead Paint Removal at Existing Steel / Decking				TBD			TBD
ALLOW	Values for GMP allowances to follow upon conclusion of scope reviews				\$ 500,000			\$ 500,000
	TRADE PACKAGE TOTAL			\$ 1,267,661	\$ 21,825,340			\$ 23,536,147
0.026%	STATE EDUCATION FEE			w/Building Permit	\$ 5,675			\$ 5,770
	BUILDING PERMIT FEE			\$ 34,937	Waived			\$ 34,937
	GENERAL CONDITIONS (Not including Bond & Insurance)			\$ 155,298	\$ 1,977,138			\$ 2,132,436
	MEP COORDINATION			\$ -	\$ 337,168			\$ 337,168
0.75%	GENERAL INSURANCE			\$ 11,655	\$ 191,590			\$ 206,202
0.80%	CM P & P BONDS			\$ 12,426	\$ 204,322			\$ 219,898
0.00%	BUILDERS RISK			BY OWNER	BY OWNER			BY OWNER
3%	CONTINGENCY - (CM Construction - GMP)			\$ 46,709	\$ 750,337			\$ 808,532
1.85%	CMR FEE			\$ 29,668	\$ 467,894			\$ 504,701
	PRECONSTRUCTION SERVICES		\$ 100,770	\$ -	\$ 63,817			\$ 164,587
			TOTALS: \$ 175,770	\$ 1,558,355	\$ 25,823,281			\$ 27,950,378
	OWNER ITEMS:							
	OWNERS SOFT COSTS (MANAGED BY OWNER)							BY OWNER
	OWNERS CONTINGENCY (MANAGED BY OWNER)							BY OWNER
	TOTAL PROJECT COST							
	APPROVED CD BUDGET							\$ 29,459,089
	OVER / (UNDER) CD BUDGET							\$ (1,508,711)

MILESTONE SCHEDULE

Bristol, CT - 22-05-06 Rev.

City Hall

- Owner Meeting
◆ Major Milestone

I.	Programming Phase		
II.	Schematic Design Phase		4/6/2021 thru 7/23/2021
III.	Design Development Phase		8/12/2021 thru 9/16/2021
IV.	Construction Documents Phase		10/22/2021 thru 1/28/2022
6	Swing Space Fit Outs - Court and Webster Start		1/13/2022 DDJV new schedule 1/28/2022
24	Begin Lease for Webster Swing Space		~3/1/2022
25	Issue CD 100% Conformed Set	◆	1/28/2022 1/6/22: QA+M noted 1/14/22 internal coord.; 11/4/21 Rev. date from DDJV
V.	Bidding Phase		1/5/2022 thru 4/15/2022
2	DDJV Courthouse Swing Space, IT & Emergency Management GMP Submission		1/6/2022 was 12/28/21
3	Courthouse Swing Space, IT & Emergency Management GMP Review		1/7/2022 was 1/4/22
4	GMP Approval & DDJV Courthouse Swing Space, IT & Emergency Management NTP		1/11/2022
5	Courthouse Swing Space DDJV issue NTP to subcontractors		1/12/2022
6	Courthouse Swing Space Start Construction		1/13/2022
7	Courthouse IT & Emergency Management Start Construction		1/13/2022
8	City Hall Bid Start		1/31/2022 End by 2/25/2022 if Addenda needed
10	Bi-Weekly Team Meeting	○	1/20/2022
11	Board of Public Works Meeting 6PM	○	1/20/2022
12	Board of Finance Meeting 5:30PM	○	1/25/2022
13	Bi-Weekly Team Meeting	○	2/3/2022
14	Joint Board/City Council Meeting		2/8/2022
15	Pre-Bid Meeting Site Walk City Hall		2/13/2022
16	Bi-Weekly Team Meeting	○	2/17/2022
17	Board of Public Works Meeting 6PM		2/17/2022
18	Swing Space Fit Outs Complete		2/21/2022
19	Board of Finance Meeting		2/22/2021
20	Full Bid Packages Due		2/25/2022 if Addenda needed
21	City Hall Bid Scoping		2/28/2022 end by 3/18/2022
22	Bi-Weekly Team Meeting - Review Bid Results for City Hall	○	3/3/2022
23	Joint Board/ City Council Meeting		3/8/2022
24	Move to offsite storage		3/14/2022 End by 4/8/2022
25	Move Departments to Swing Space		3/15/2022 April 11, 2022
26	Bi-Weekly Team Meeting	○	3/24/2022
27	Board of Finance		3/22/2022
28	City Hall GMP Submission by DDJV	◆	3/25/2022
29	City and Corp. Counsel Review City Hall GMP		3/26/2022 Review complete by 4/5/2022
29	Courthouse IT & Emergency Management Construction Complete		3/29/2022 Fiber & switches need to be active prior to move over of any department
30	Board of Public Works Meeting 6PM -Review Bid Recommendations and GMP	◆	3/31/2022
31	Move IT to Permanent Location	◆	4/7/2022
32	Bi-Weekly Team Meeting	○	4/7/2022
33	Joint Board/ City Council Meeting -Approve and Award Bids	◆	4/5/2022
34	Present City Hall GMP to City Council for Approval	◆	4/27/2022
35	Award Construction Contracts	◆	4/28/2021
VI.	Construction Phase - 18 Month		4/1/2022 thru 11/18/2023
1	Bi-Weekly Project Team Meeting	○	4/14/2022
2	Bi-Weekly Project Team Meeting	○	4/28/2022
3	City Hall Mobilization	◆	5/4/2022
4	Weekly Project Team Meetings Start	○	5/5/2022
5	Weekly Project Team Meetings	○	5/12/2022
6	Substantial Completion	◆	10/15/2023

4/6/2022

FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
001 GENERAL FUND							
0013010 PUBLIC WORKS ADMINISTRATION							
0013010 442008 EXCAVATION	-10,000	0	-10,000	-3,320.00	.00	-6,680.00	33.2%*
0013010 450003 SERVICEFEE	-370,000	0	-370,000	-192,935.00	.00	-177,065.00	52.1%*
0013010 450208 OTHRECYCLN	-13,200	0	-13,200	-8,877.16	.00	-4,322.84	67.3%*
0013010 450300 ENG MAPS	-200	0	-200	-817.50	.00	617.50	408.8%
0013010 450303 BULK FEES	-11,000	0	-11,000	-11,300.84	.00	300.84	102.7%
0013010 450309 SALE EQUIP	0	0	0	-988.00	.00	988.00	100.0%
0013010 450400 CHG SERVIC	-1,600	0	-1,600	-117.00	.00	-1,483.00	7.3%*
0013010 514000 REG WAGES	367,365	0	367,365	260,215.18	.00	107,149.82	70.8%
0013010 515100 OVERTIME	2,450	0	2,450	2,445.59	.00	4.41	99.8%
0013010 515200 PARTTIME	22,435	0	22,435	16,379.82	.00	6,055.18	73.0%
0013010 517000 OTHER WAGE	2,605	0	2,605	.00	.00	2,605.00	.0%
0013010 531000 PROF FEES	3,500	0	3,500	2,750.18	171.82	578.00	83.5%
0013010 553100 POSTAGE	3,500	0	3,500	3,094.70	.00	405.30	88.4%
0013010 569000 OFFIC SUPL	2,200	0	2,200	1,785.91	443.62	-29.53	101.3%*
0013010 581120 CONF MEMB	4,500	0	4,500	388.75	.00	4,111.25	8.6%
0013010 581135 SCHOOLING	5,500	0	5,500	4,750.00	200.00	550.00	90.0%
0013010 581145 EMPL RECOG	1,500	0	1,500	153.70	491.00	855.30	43.0%
0013010 581150 BOND	800	0	800	709.00	.00	91.00	88.6%
TOTAL PUBLIC WORKS ADMINISTRATION	10,355	0	10,355	74,317.33	1,306.44	-65,268.77	730.3%
TOTAL GENERAL FUND	10,355	0	10,355	74,317.33	1,306.44	-65,268.77	730.3%
TOTAL REVENUES	-406,000	0	-406,000	-218,355.50	.00	-187,644.50	
TOTAL EXPENSES	416,355	0	416,355	292,672.83	1,306.44	122,375.73	
GRAND TOTAL	10,355	0	10,355	74,317.33	1,306.44	-65,268.77	730.3%

** END OF REPORT - Generated by Gerri Montambault **

FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
001 GENERAL FUND							
0013013 BUILDING MAINTENANCE DIVISION							
0013013 514000 REG WAGES	533,860	0	533,860	390,884.21	5,824.99	137,150.80	74.3%
0013013 515100 OVERTIME	45,000	0	45,000	44,078.14	.00	921.86	98.0%
0013013 517000 OTHER WAGE	16,765	0	16,765	10,936.83	.00	5,828.17	65.2%
0013013 518000 WORKERCOMP	0	0	0	1,579.67	.00	-1,579.67	100.0%*
0013013 531000 PROF FEES	2,000	0	2,000	345.00	705.00	950.00	52.5%
0013013 541000 UTILITIES	275,000	0	275,000	164,996.70	95,003.30	15,000.00	94.5%
0013013 541100 WATER SEWR	12,500	0	12,500	7,455.36	4,544.64	500.00	96.0%
0013013 543000 REP & MAIN	165,000	-50,000	115,000	51,444.01	40,842.61	22,713.38	80.2%
0013013 553000 TELEPHONE	500	0	500	.00	.00	500.00	.0%
0013013 561400 MAINT SUPL	28,000	0	28,000	24,924.52	13,181.98	-10,106.50	136.1%*
0013013 562200 NATURALGAS	90,000	0	90,000	67,195.81	20,804.19	2,000.00	97.8%
0013013 581120 CONF MEMB	500	0	500	.00	.00	500.00	.0%
TOTAL BUILDING MAINTENANCE DIVISION	1,169,125	-50,000	1,119,125	763,840.25	180,906.71	174,378.04	84.4%
TOTAL GENERAL FUND	1,169,125	-50,000	1,119,125	763,840.25	180,906.71	174,378.04	84.4%
TOTAL EXPENSES	1,169,125	-50,000	1,119,125	763,840.25	180,906.71	174,378.04	
GRAND TOTAL	1,169,125	-50,000	1,119,125	763,840.25	180,906.71	174,378.04	84.4%

** END OF REPORT - Generated by Gerri Montambault **

FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
001 GENERAL FUND							
0013011 ENGINEERING							
0013011 514000 REG WAGES	845,650	-5,000	840,650	578,392.63	.00	262,257.37	68.8%
0013011 515100 OVERTIME	6,000	5,000	11,000	7,902.08	.00	3,097.92	71.8%
0013011 531000 PROF FEES	50,000	14,630	64,630	27,992.88	23,233.06	13,404.06	79.3%
0013011 543000 REP & MAIN	1,500	0	1,500	.00	1,500.00	.00	100.0%
0013011 555000 PRINT/BIND	300	0	300	.00	.00	300.00	.0%
0013011 561800 PROG SUPPL	6,700	1,200	7,900	985.95	6,001.97	912.08	88.5%
0013011 581120 CONF MEMB	1,500	0	1,500	225.00	.00	1,275.00	15.0%
TOTAL ENGINEERING	911,650	15,830	927,480	615,498.54	30,735.03	281,246.43	69.7%
TOTAL GENERAL FUND	911,650	15,830	927,480	615,498.54	30,735.03	281,246.43	69.7%
TOTAL EXPENSES	911,650	15,830	927,480	615,498.54	30,735.03	281,246.43	
GRAND TOTAL	911,650	15,830	927,480	615,498.54	30,735.03	281,246.43	69.7%

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FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
001 GENERAL FUND							
0013026 PUBLIC WORKS FLEET							
0013026 570400 22003 3 SALT SPR	19,000	0	19,000	17,754.00	.00	1,246.00	93.4%
0013026 570400 22005 DUMP BODY	45,000	12,975	57,975	.00	57,975.00	.00	100.0%
0013026 570400 22006 SPREADER	22,000	4,890	26,890	26,890.00	.00	.00	100.0%
0013026 570400 22007 TILT TRAIL	10,000	3,770	13,770	9,999.00	.00	3,771.00	72.6%
0013026 570500 21003 REPUR TRK	0	104,923	104,923	104,923.01	.00	.00	100.0%
0013026 570500 21004 MASON DUMP	0	56,945	56,945	56,945.24	.00	.00	100.0%
0013026 570500 22001 BULK TRUC	200,000	6,513	206,513	.00	206,512.84	.16	100.0%
0013026 570500 22002 2- DUMP TR	170,000	0	170,000	92,132.34	39,890.00	37,977.66	77.7%
0013026 570500 22004 1 TON PU	68,000	0	68,000	58,980.36	.00	9,019.64	86.7%
0013026 570500 22020 4 PICKUPS	0	24,000	24,000	.00	.00	24,000.00	.0%
TOTAL PUBLIC WORKS FLEET	534,000	214,016	748,016	367,623.95	304,377.84	76,014.46	89.8%
TOTAL GENERAL FUND	534,000	214,016	748,016	367,623.95	304,377.84	76,014.46	89.8%
TOTAL EXPENSES	534,000	214,016	748,016	367,623.95	304,377.84	76,014.46	
GRAND TOTAL	534,000	214,016	748,016	367,623.95	304,377.84	76,014.46	89.8%

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FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
001 GENERAL FUND							
0013017 FLEET MAINTENANCE							
0013017 514000 REG WAGES	653,970	0	653,970	413,783.86	.00	240,186.14	63.3%
0013017 515100 OVERTIME	45,000	0	45,000	32,442.73	.00	12,557.27	72.1%
0013017 517000 OTHER WAGE	3,600	0	3,600	1,288.80	.00	2,311.20	35.8%
0013017 518000 WORKERCOMP	0	0	0	2,000.00	.00	-2,000.00	100.0%*
0013017 541000 UTILITIES	24,000	0	24,000	15,945.47	8,054.53	.00	100.0%
0013017 541100 WATER SEWE	2,000	0	2,000	1,112.87	387.13	500.00	75.0%
0013017 543000 REP & MAIN	42,000	0	42,000	8,572.73	5,118.13	28,309.14	32.6%
0013017 543100 MV SERVICE	320,000	-30,513	289,487	50,437.02	137,416.20	101,633.78	64.9%
0013017 544400 RENT/LEASE	10,000	0	10,000	.00	.00	10,000.00	.0%
0013017 561400 MAINT SUPL	8,000	0	8,000	4,965.19	3,176.16	-141.35	101.8%*
0013017 561800 PROG SUPPL	23,000	19,850	42,850	29,980.75	11,652.71	1,216.54	97.2%
0013017 562100 HEATINGOIL	4,000	0	4,000	.00	500.00	3,500.00	12.5%
0013017 562200 NATURALGAS	18,000	0	18,000	14,477.54	3,522.46	.00	100.0%
0013017 562600 MOT FUELS	330,000	0	330,000	327,993.73	107,367.34	-105,361.07	131.9%*
0013017 563000 MV PARTS	350,000	-21,635	328,365	248,179.55	121,278.19	-41,092.74	112.5%*
0013017 563100 TIRES	85,000	0	85,000	52,243.38	5,256.62	27,500.00	67.6%
0013017 581120 CONF MEMB	250	0	250	.00	.00	250.00	.0%
TOTAL FLEET MAINTENANCE	1,918,820	-32,298	1,886,522	1,203,423.62	403,729.47	279,368.91	85.2%
TOTAL GENERAL FUND	1,918,820	-32,298	1,886,522	1,203,423.62	403,729.47	279,368.91	85.2%
TOTAL EXPENSES	1,918,820	-32,298	1,886,522	1,203,423.62	403,729.47	279,368.91	
GRAND TOTAL	1,918,820	-32,298	1,886,522	1,203,423.62	403,729.47	279,368.91	85.2%

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FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
001 GENERAL FUND							
0013012 LAND USE							
0013012 422011 SURCHARGE	0	0	0	-4,851.35	.00	4,851.35	100.0%
0013012 442009 FEES/PERMI	-18,000	0	-18,000	-22,975.00	.00	4,975.00	127.6%
0013012 514000 REG WAGES	237,180	0	237,180	170,967.26	.00	66,212.74	72.1%
0013012 515100 OVERTIME	9,140	-2,000	7,140	6,440.38	.00	699.62	90.2%
0013012 515200 PARTTIME	0	0	0	81.87	.00	-81.87	100.0%*
0013012 517000 OTHER WAGE	0	0	0	859.50	.00	-859.50	100.0%*
0013012 531000 21035 PROF FEES	0	19,000	19,000	5,000.00	10,000.00	4,000.00	78.9%
0013012 553100 POSTAGE	1,200	0	1,200	834.37	.00	365.63	69.5%
0013012 557700 ADVERTIS	9,000	3,000	12,000	10,072.22	1,927.78	.00	100.0%
0013012 569000 OFFIC SUPL	500	0	500	142.69	357.31	.00	100.0%
0013012 581120 CONF MEMB	3,000	-1,000	2,000	867.00	.00	1,133.00	43.4%
TOTAL LAND USE	242,020	19,000	261,020	167,438.94	12,285.09	81,295.97	68.9%
TOTAL GENERAL FUND	242,020	19,000	261,020	167,438.94	12,285.09	81,295.97	68.9%
TOTAL REVENUES	-18,000	0	-18,000	-27,826.35	.00	9,826.35	
TOTAL EXPENSES	260,020	19,000	279,020	195,265.29	12,285.09	71,469.62	
GRAND TOTAL	242,020	19,000	261,020	167,438.94	12,285.09	81,295.97	68.9%

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FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
001 GENERAL FUND							
0013021 OTHER CITY BUILDINGS							
0013021 541000 UTILITIES	1,000	0	1,000	1,136.54	738.47	-875.01	187.5%*
0013021 541100 WATER SEWR	1,000	0	1,000	.00	.00	1,000.00	.0%
0013021 543000 REP & MAIN	100,000	50,000	150,000	110,869.52	42,481.40	-3,350.92	102.2%*
0013021 561400 MAINT SUPL	4,000	0	4,000	1,828.21	921.79	1,250.00	68.8%
TOTAL OTHER CITY BUILDINGS	106,000	50,000	156,000	113,834.27	44,141.66	-1,975.93	101.3%
TOTAL GENERAL FUND	106,000	50,000	156,000	113,834.27	44,141.66	-1,975.93	101.3%
TOTAL EXPENSES	106,000	50,000	156,000	113,834.27	44,141.66	-1,975.93	
GRAND TOTAL	106,000	50,000	156,000	113,834.27	44,141.66	-1,975.93	101.3%

** END OF REPORT - Generated by Gerri Montambault **

FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
001 GENERAL FUND							
0013016 SOLID WASTE DIVISION							
0013016 450324 BARRELSALE	-15,000	0	-15,000	-13,221.00	.00	-1,779.00	88.1%*
0013016 514000 REG WAGES	1,031,480	0	1,031,480	748,724.43	.00	282,755.57	72.6%
0013016 515100 OVERTIME	83,000	0	83,000	48,976.96	.00	34,023.04	59.0%
0013016 517000 OTHER WAGE	4,100	0	4,100	1,228.00	.00	2,872.00	30.0%
0013016 518000 WORKERCOMP	0	0	0	781.44	.00	-781.44	100.0%*
0013016 531000 PROF FEES	1,000	0	1,000	800.00	.00	200.00	80.0%
0013016 534200 ENVIRON	30,000	0	30,000	30,795.50	3,931.73	-4,727.23	115.8%*
0013016 542110 HAZ WASTE	14,000	0	14,000	16,800.00	.00	-2,800.00	120.0%*
0013016 542120 TIP FEE	1,140,400	0	1,140,400	1,140,400.00	.00	.00	100.0%
0013016 561800 PROG SUPPL	52,000	27,140	79,140	36,475.32	41,098.61	1,566.32	98.0%
0013016 581120 CONF MEMB	800	0	800	733.00	.00	67.00	91.6%
0013016 590000 XFR TO 121	-1,140,400	0	-1,140,400	-1,140,400.00	.00	.00	100.0%
TOTAL SOLID WASTE DIVISION	1,201,380	27,140	1,228,520	872,093.65	45,030.34	311,396.26	74.7%
TOTAL GENERAL FUND	1,201,380	27,140	1,228,520	872,093.65	45,030.34	311,396.26	74.7%
TOTAL REVENUES	-15,000	0	-15,000	-13,221.00	.00	-1,779.00	
TOTAL EXPENSES	1,216,380	27,140	1,243,520	885,314.65	45,030.34	313,175.26	
GRAND TOTAL	1,201,380	27,140	1,228,520	872,093.65	45,030.34	311,396.26	74.7%

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FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
001 GENERAL FUND							
0013015 STREETS DIVISION							
0013015 514000 REG WAGES	1,970,000	0	1,970,000	1,433,575.81	.00	536,424.19	72.8%
0013015 515100 OVERTIME	40,000	0	40,000	32,230.80	.00	7,769.20	80.6%
0013015 517000 OTHER WAGE	4,000	0	4,000	2,929.35	.00	1,070.65	73.2%
0013015 518000 WORKERCOMP	0	0	0	1,503.87	.00	-1,503.87	100.0%*
0013015 531000 PROF FEES	1,000	0	1,000	640.16	331.84	28.00	97.2%
0013015 543000 REP & MAIN	16,500	0	16,500	6,725.96	115.85	9,658.19	41.5%
0013015 543050 SSCAPEMAIN	15,000	20,490	35,490	22,772.70	2,912.30	9,805.00	72.4%
0013015 544400 RENT/LEASE	10,000	0	10,000	.00	10,650.00	-650.00	106.5%*
0013015 561800 PROG SUPPL	130,000	4,400	134,400	64,401.61	42,420.51	27,577.88	79.5%
0013015 581120 CONF MEMB	800	0	800	.00	.00	800.00	.0%
0013015 589200 SIGNS	17,500	0	17,500	8,040.61	1,839.39	7,620.00	56.5%
TOTAL STREETS DIVISION	2,204,800	24,890	2,229,690	1,572,820.87	58,269.89	598,599.24	73.2%
TOTAL GENERAL FUND	2,204,800	24,890	2,229,690	1,572,820.87	58,269.89	598,599.24	73.2%
TOTAL EXPENSES	2,204,800	24,890	2,229,690	1,572,820.87	58,269.89	598,599.24	
GRAND TOTAL	2,204,800	24,890	2,229,690	1,572,820.87	58,269.89	598,599.24	73.2%

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FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
001 GENERAL FUND							
0013018 SNOW REMOVAL							
0013018 515100 SNOW O.T.	270,000	0	270,000	271,540.40	.00	-1,540.40	100.6%*
0013018 531000 PROF FEES	4,500	0	4,500	4,761.16	59.84	-321.00	107.1%*
0013018 543000 REP & MAIN	4,000	0	4,000	2,341.32	1,401.72	256.96	93.6%
0013018 544410 SNOWPLW FE	320,000	-50,000	270,000	139,735.00	75,265.00	55,000.00	79.6%
0013018 561800 PROG SUPPL	480,000	50,000	530,000	439,305.48	19,694.52	71,000.00	86.6%
0013018 563000 MOT VEH PT	9,000	0	9,000	5,692.22	1,457.78	1,850.00	79.4%
0013018 563100 CHAINS	5,000	0	5,000	.00	5,000.00	.00	100.0%
0013018 570400 20038 TANKS	0	60,480	60,480	.00	60,480.00	.00	100.0%
TOTAL SNOW REMOVAL	1,092,500	60,480	1,152,980	863,375.58	163,358.86	126,245.56	89.1%
TOTAL GENERAL FUND	1,092,500	60,480	1,152,980	863,375.58	163,358.86	126,245.56	89.1%
TOTAL EXPENSES	1,092,500	60,480	1,152,980	863,375.58	163,358.86	126,245.56	
GRAND TOTAL	1,092,500	60,480	1,152,980	863,375.58	163,358.86	126,245.56	89.1%

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FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
136 TRANSFER STATION FUND							
1363016 TRANSFER STATION FUND							
1363016 422020 RESIDENTIA	-45,000	0	-45,000	-80,950.00	.00	35,950.00	179.9%
1363016 422021 COMM PERM	-2,200	0	-2,200	-1,775.00	.00	-425.00	80.7%*
1363016 450303 RECYCLING	-12,000	0	-12,000	-3,705.95	.00	-8,294.05	30.9%*
1363016 450350 CLOTHING	-250	0	-250	-6,000.00	.00	5,750.00	2400.0%
1363016 450351 ALUMINUM	-3,000	0	-3,000	-1,817.02	.00	-1,182.98	60.6%*
1363016 450352 IRONMETAL	-56,000	0	-56,000	-64,423.55	.00	8,423.55	115.0%
1363016 450353 BATTERIES	-4,000	0	-4,000	-2,385.43	.00	-1,614.57	59.6%*
1363016 450354 COMPOST	-2,000	0	-2,000	.00	.00	-2,000.00	.0%*
1363016 450356 PAYT	-250,000	0	-250,000	-171,570.20	.00	-78,429.80	68.6%*
1363016 460000 INT INCOME	-1,000	0	-1,000	-198.80	.00	-801.20	19.9%*
1363016 480023 RECLY REB	-300	0	-300	.00	.00	-300.00	.0%*
1363016 490001 TRANS GEN	-464,040	0	-464,040	-464,040.00	.00	.00	100.0%
1363016 514000 REG WAGES	316,180	0	316,180	227,921.07	.00	88,258.93	72.1%
1363016 515100 OVERTIME	60,000	0	60,000	46,974.24	.00	13,025.76	78.3%
1363016 517000 OTHER WAGE	2,500	0	2,500	.00	.00	2,500.00	.0%
1363016 520100 LIFE INS	500	0	500	315.00	.00	185.00	63.0%
1363016 520500 DISABILITY	150	0	150	90.00	.00	60.00	60.0%
1363016 520700 FICA	22,030	0	22,030	15,766.27	.00	6,263.73	71.6%
1363016 520750 MED INSUR	5,155	0	5,155	3,687.26	.00	1,467.74	71.5%
1363016 531000 PROF FEES	65,000	2,500	67,500	63,322.93	1,676.25	2,500.82	96.3%
1363016 534200 ENVIRON	1,400	0	1,400	168.15	15.20	1,216.65	13.1%
1363016 541000 UTILITIES	6,300	0	6,300	3,235.22	3,064.78	.00	100.0%
1363016 541100 WATER SEWR	400	0	400	193.51	106.49	100.00	75.0%
1363016 542101 DISPOSAL	3,500	0	3,500	3,572.21	2,427.79	-2,500.00	171.4%*
1363016 542105 TIRE DISP	4,400	0	4,400	5,100.00	100.00	-800.00	118.2%*
1363016 542110 FREON	2,200	0	2,200	1,096.00	1,104.00	.00	100.0%
1363016 542115 BULK WASTE	23,000	0	23,000	12,928.83	2,071.17	8,000.00	65.2%
1363016 542120 TIP FEE	145,000	0	145,000	140,621.23	4,378.77	.00	100.0%
1363016 543000 REP & MAIN	10,000	0	10,000	4,855.90	1,150.60	3,993.50	60.1%
1363016 561400 MAINT SUPL	400	0	400	387.73	.00	12.27	96.9%
1363016 561800 PROG SUPPL	26,000	0	26,000	685.13	545.67	24,769.20	4.7%
1363016 570400 22018 GROUND TAN	6,200	0	6,200	.00	6,179.00	21.00	99.7%
1363016 589000 CONTINGEN	7,000	0	7,000	.00	.00	7,000.00	.0%
1363016 591500 TFR ISFUND	132,475	0	132,475	98,008.43	.00	34,466.57	74.0%
TOTAL TRANSFER STATION FUND	0	2,500	2,500	-167,936.84	22,819.72	147,617.12	-5804.7%
TOTAL TRANSFER STATION FUND	0	2,500	2,500	-167,936.84	22,819.72	147,617.12	-5804.7%
TOTAL REVENUES	-839,790	0	-839,790	-796,865.95	.00	-42,924.05	
TOTAL EXPENSES	839,790	2,500	842,290	628,929.11	22,819.72	190,541.17	

**PCT
USED**

** END OF REPORT - Generated by Gerri Montambault **

FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
001 GENERAL FUND							
0013027 LINE PAINTING							
0013027 515100 OVERTIME	525	0	525	.00	.00	525.00	.0%
0013027 531000 PROF FEES	100,000	0	100,000	44,868.40	5,131.60	50,000.00	50.0%
0013027 561800 PROG SUPPL	1,500	0	1,500	.00	.00	1,500.00	.0%
TOTAL LINE PAINTING	102,025	0	102,025	44,868.40	5,131.60	52,025.00	49.0%
TOTAL GENERAL FUND	102,025	0	102,025	44,868.40	5,131.60	52,025.00	49.0%
TOTAL EXPENSES	102,025	0	102,025	44,868.40	5,131.60	52,025.00	
GRAND TOTAL	102,025	0	102,025	44,868.40	5,131.60	52,025.00	49.0%

** END OF REPORT - Generated by Gerri Montambault **

FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
306 ROAD IMPROVEMENTS FUND							
3063019 MAJOR ROAD IMPROVEMENTS							
3063019 432020 TOWNAID RD	-662,850	0	-662,850	-663,205.76	.00	355.76	100.1%
3063019 432059 MUNICIP GR	-3,709,995	0	-3,709,995	.00	.00	-3,709,995.00	.0%*
3063019 470000 CONTRIBUTN	0	0	0	-20,000.00	.00	20,000.00	100.0%
3063019 490001 TRANS GEN	-300,000	0	-300,000	-300,000.00	.00	.00	100.0%
3063019 531000 PROF FEES	25,000	0	25,000	.00	.00	25,000.00	.0%
3063019 561800 PROG SUPPL	40,000	0	40,000	36,160.04	.00	3,839.96	90.4%
3063019 570300 IMP OTH	4,570,895	1,110,553	5,681,448	3,109,345.11	987,518.61	1,584,583.92	72.1%
3063019 570300 22C12 DMAC PARK	0	90,000	90,000	49,392.86	310.94	40,296.20	55.2%
3063019 570400 22013 SKID ATTAC	27,450	0	27,450	.00	.00	27,450.00	.0%
3063019 570400 22014 BROOM COLL	9,500	0	9,500	.00	.00	9,500.00	.0%
TOTAL MAJOR ROAD IMPROVEMENTS	0	1,200,553	1,200,553	2,211,692.25	987,829.55	-1,998,969.16	266.5%
TOTAL ROAD IMPROVEMENTS FUND	0	1,200,553	1,200,553	2,211,692.25	987,829.55	-1,998,969.16	266.5%
TOTAL REVENUES	-4,672,845	0	-4,672,845	-983,205.76	.00	-3,689,639.24	
TOTAL EXPENSES	4,672,845	1,200,553	5,873,398	3,194,898.01	987,829.55	1,690,670.08	
GRAND TOTAL	0	1,200,553	1,200,553	2,211,692.25	987,829.55	-1,998,969.16	266.5%

** END OF REPORT - Generated by Gerri Montambault **

FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
001 GENERAL FUND							
0013020 RAILROAD MAINTENANCE							
0013020 541000 UTILITIES	300	0	300	256.14	43.86	.00	100.0%
0013020 543000 REP & MAIN	9,000	0	9,000	5,200.00	3,800.00	.00	100.0%
0013020 544400 RENT/LEASE	5,000	0	5,000	8,961.78	19.11	-3,980.89	179.6%*
0013020 589100 RR UPKEEP	50,000	42,000	92,000	30,133.40	52,083.50	9,783.10	89.4%
TOTAL RAILROAD MAINTENANCE	64,300	42,000	106,300	44,551.32	55,946.47	5,802.21	94.5%
TOTAL GENERAL FUND	64,300	42,000	106,300	44,551.32	55,946.47	5,802.21	94.5%
TOTAL EXPENSES	64,300	42,000	106,300	44,551.32	55,946.47	5,802.21	
GRAND TOTAL	64,300	42,000	106,300	44,551.32	55,946.47	5,802.21	94.5%

** END OF REPORT - Generated by Gerri Montambault **

FOR 2022 09

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
001 GENERAL FUND							
0013040 STREET LIGHTING							
0013040 541200 ST LGHTG	150,000	0	150,000	108,523.85	31,582.74	9,893.41	93.4%
0013040 543000 REP & MAIN	55,000	0	55,000	27,756.35	27,615.17	-371.52	100.7%*
TOTAL STREET LIGHTING	205,000	0	205,000	136,280.20	59,197.91	9,521.89	95.4%
TOTAL GENERAL FUND	205,000	0	205,000	136,280.20	59,197.91	9,521.89	95.4%
TOTAL EXPENSES	205,000	0	205,000	136,280.20	59,197.91	9,521.89	
GRAND TOTAL	205,000	0	205,000	136,280.20	59,197.91	9,521.89	95.4%

** END OF REPORT - Generated by Gerri Montambault **



Department of Public Works | 860.584.6125

MEMORANDUM

DATE: April 8, 2022

TO: Mayor Jeffrey Caggiano
Board of Public Works

FROM: Raymond A. Rogozinski, P.E., Director of Public Works

RE: DOT West End Intersection Project – CT Route 72/69
Detour/ Phasing Plan

As the Board of Public Works is aware the DOT is scheduled to reconstruct the West End CT Route 72/69 intersection starting this fall of 2022. One of the critical components to the project is the proposed detour and phasing plan. The DOT's proposed West End project will improve traffic flow once completed. However, during the scheduled 2 year construction, traffic flow will be impacted.

DPW has met with Bristol Police Department representatives to review the attached proposed DOT Phasing plan. The DOT is still determining the time duration for each phase. However, the phasing and traffic control plan will establish the configuration of the flow of traffic through the intersection during construction. DPW & PD have expressed concerns with the impact to West End businesses and requested the construction and allocation of a portion of the proposed parking lot in the south-west corner of the intersection (Wah Lung). To date, the DOT has stated that the area has been reserved for construction staging. DPW/PD also indicated, and the DOT has acknowledged, that specific traffic construction signs may need to be revised based on actual traffic conditions during construction. In addition, the DOT indicated that once a contractor is hired for the project components of the phasing/traffic control plan may be revised.

Based on the current DOT plan, the project will be completed in ten (10) stages. The initial construction will consist of the extension to Platt Street that will connect Divinity St. to Park St. Once the interconnecting roadway between Divinity St. and Park St. is complete, the portion of Park Street from the existing intersection of Park & Divinity 600 ft. south will be constructed. Work on the following stages of construction will be completed on a night shift and will consist of work within the actual roadway intersection and extend east to Orchard St., north toward Laurel St. and south to Chestnut St. During construction the existing West End parking lot will not be available, and parking will consist of the three existing spaces in front of Café Real. The DOT's



Department of Public Works | 860.584.6125

traffic control plan also includes retiming the existing traffic signal plan throughout the project. The work completed in stages will have a binder course of pavement. The final roadway pavement course will be completed as a single task for each roadway.

Utility relocation of water and sewer pipes will be incorporated directly into the DOT project and will be completed by the DOT contractor working under DOT staging and traffic control plans. Work on the overhead electrical and communication lines along with potentially the work completed by Eversource Gas will be completed prior to the DOT contractor's work.

A link to the DOT design documents is provided below. However, the best source for summary information on the project is the previously provided attached DOT presentation.

DPW Website – Intersection Improvement Route 72/69 (See HIGHWAY, TRAFFIC & LANDSCAPING for project plans)

<http://ct-bristol2.civicplus.com/1041/Intersection-Improvements-Rt-72-at-Rt-69>

The DOT has obtained all formal right of way required for construction. However, three of the six buildings scheduled for demolition currently have “squatters” in them that are impacting the demolition schedule.

Representatives of the DOT are scheduled to attend this month's Board of Public Works meeting to present the DOT's proposed West End Phasing/traffic control plan.

Please feel free to contact me with any questions at 860-584-6113.

- 1- ALL SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE ADJUSTED AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- 2- EXISTING SIGNS AND PAVEMENT MARKINGS SHALL BE ADJUSTED AS NEEDED TO MEET FIELD CONDITIONS DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- 3- BARRICADE WARNING LIGHTS TO BE PLACED ON POST MOUNTED DIAMOND SHAPED CONSTRUCTION SIGNS.
- 4- CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH TRAFFIC STANDARD SHEET TR-1220 02 - CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES.
- 5- CONTRACTOR TO COORDINATE ANY TEMPORARY DRIVEWAY CLOSINGS WITH RESIDENTS AND BUSINESSES. ACCESS TO DRIVEWAYS TO BE MAINTAINED AT ALL OTHER TIMES.
- 6- CONTRACTOR TO MAINTAIN ACCESSIBLE PEDESTRIAN ROUTES THROUGH OR AROUND CONSTRUCTION ZONES.
- 7- SIGN 80-9928 WITH A LEGEND OF "BUSINESSES OPEN DURING CONSTRUCTION" TO BE PLACED NEAR THE BEGINNING OF WORK ZONES.

8- SIGN NO. 50-5934 - BUSINESS ACCESS (VARIABLE ARROW) TO BE PLACED WHEN NEEDED ACCORDING TO FIELD CONDITIONS.

TEMPORARY TRAFFIC PATTERNS TO BE USED DURING
ALLOWABLE PERIODS AT END OF CONSTRUCTION ZONE.



- 1 - POST MOUNTED SIGN
- 1 - DOUBLE POST MOUNTED SIGN
- 1 - BARRICADE MOUNTED SIGN
- 1 - TYPE III BARRICADE
- 1 - DETECTABLE BARRICADE MOUNTED SIGN
- 1 - DETECTABLE BARRICADE
- o - TRAFFIC DRUM
- - OPPOSING TRAFFIC LANE DIVIDER

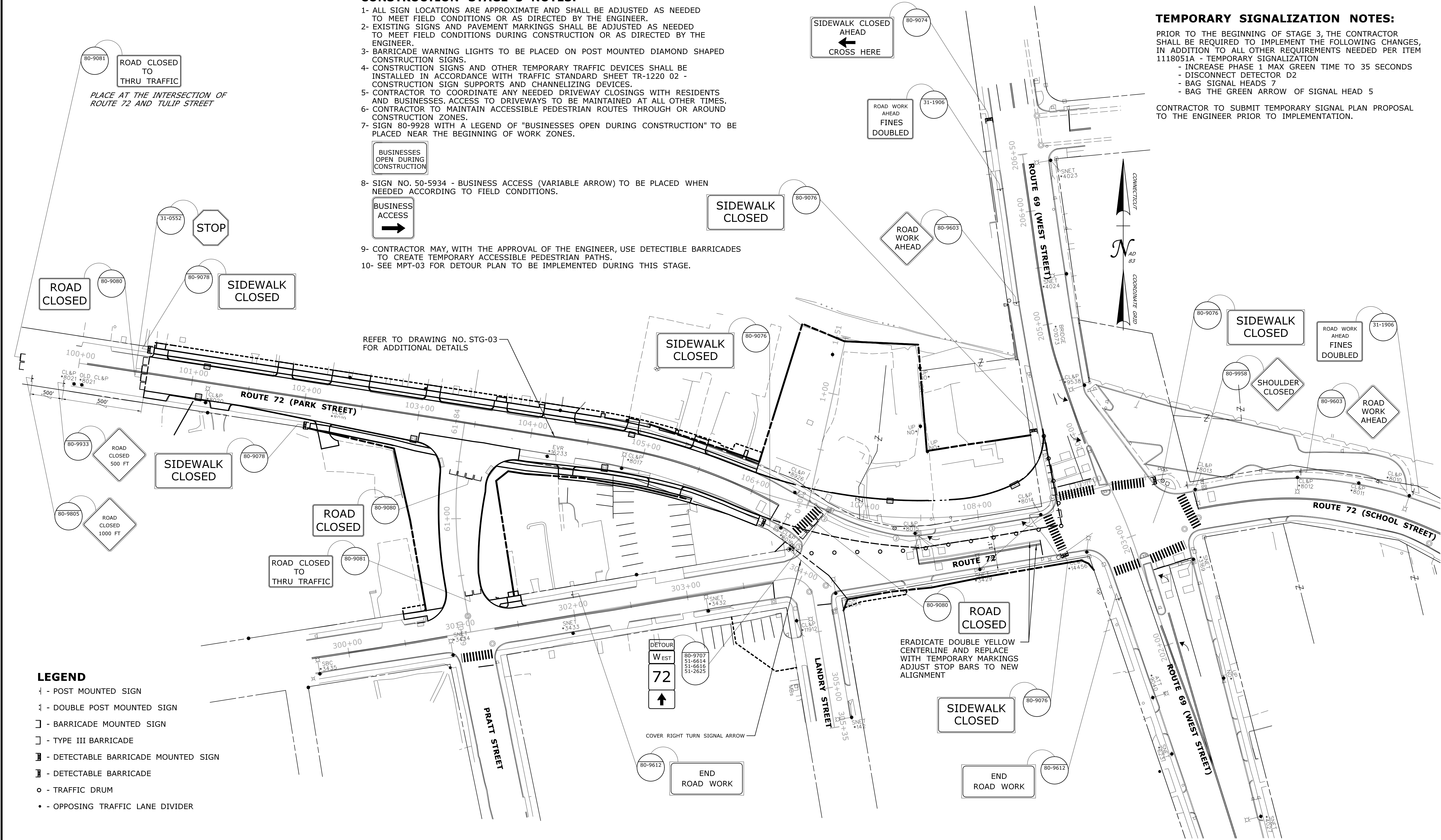
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CONSTRUCTION STAGE 3 NOTES:

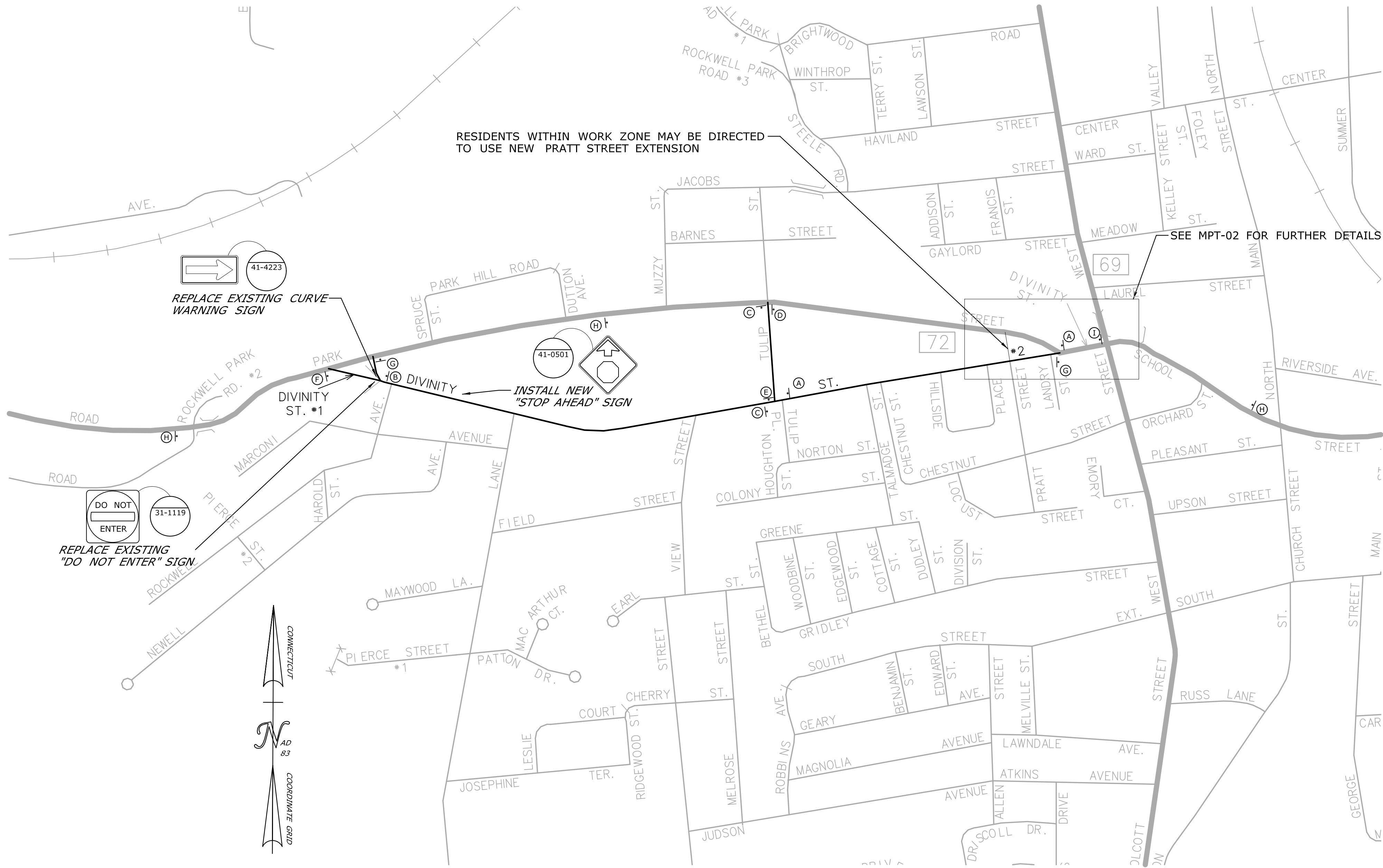
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- 3- BARRICADE WARNING LIGHTS TO BE PLACED ON POST MOUNTED DIAMOND SHAPED CONSTRUCTION SIGNS.
- 4- CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH TRAFFIC STANDARD SHEET TR-1220 02 - CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES.
- 5- CONTRACTOR TO COORDINATE ANY NEEDED DRIVEWAY CLOSINGS WITH RESIDENTS AND BUSINESSES. ACCESS TO DRIVEWAYS TO BE MAINTAINED AT ALL OTHER TIMES.
- 6- CONTRACTOR TO MAINTAIN ACCESSIBLE PEDESTRIAN ROUTES THROUGH OR AROUND CONSTRUCTION ZONES.
- 7- SIGN 80-9928 WITH A LEGEND OF "BUSINESSES OPEN DURING CONSTRUCTION" TO BE PLACED NEAR THE BEGINNING OF WORK ZONES.
- 8- SIGN NO. 50-5934 - BUSINESS ACCESS (VARIABLE ARROW) TO BE PLACED WHEN NEEDED ACCORDING TO FIELD CONDITIONS.
- 9- CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, USE DETECTIBLE BARRICADES TO CREATE TEMPORARY ACCESSIBLE PEDESTRIAN PATHS.
- 10- SEE MPT-03 FOR DETOUR PLAN TO BE IMPLEMENTED DURING THIS STAGE.

TEMPORARY SIGNALIZATION NOTES:

- PRIOR TO THE BEGINNING OF STAGE 3, THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT THE FOLLOWING CHANGES, IN ADDITION TO ALL OTHER REQUIREMENTS NEEDED PER ITEM 1118051A - TEMPORARY SIGNALIZATION
- INCREASE PHASE 1 MAX GREEN TIME TO 35 SECONDS
 - DISCONNECT DETECTOR D2
 - BAG SIGNAL HEADS 7
 - BAG THE GREEN ARROW OF SIGNAL HEAD 5
- CONTRACTOR TO SUBMIT TEMPORARY SIGNAL PLAN PROPOSAL TO THE ENGINEER PRIOR TO IMPLEMENTATION.



				THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: KRM		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	 OFFICE OF ENGINEERING	SIGNATURE/ BLOCK:	PROJECT TITLE: MAJOR INTERSECTION IMPROVEMENTS ON ROUTE 72 AT ROUTE 69	TOWN: BRISTOL	PROJECT NO. 0017-0187			
				CHECKED BY: BMS		SCALE IN FEET  SCALE 1"=40'								APPROVED BY:	DRAWING TITLE: MAINTENANCE AND PROTECTION OF TRAFFIC	DRAWING NO. MPT-02
						Filename: ...\\TR_MSH_MPT_0017_0187_02 (1).dgn										
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/28/2022												



NOTES

- 1- ALL SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE ADJUSTED AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- 2- EXISTING SIGNS AND PAVEMENT MARKINGS SHALL BE ADJUSTED AS NEEDED TO MEET FIELD CONDITIONS DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- 3- BARRICADE WARNING LIGHTS TO BE PLACED ON POST MOUNTED DIAMOND SHAPED CONSTRUCTION SIGNS.
- 4- CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH TRAFFIC STANDARD SHEET TR-1220 02 - CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES.
- 5- CONTRACTOR TO COORDINATE ANY NEEDED DRIVEWAY CLOSINGS WITH RESIDENTS AND BUSINESSES. ACCESS TO DRIVEWAYS TO BE MAINTAINED AT ALL OTHER TIMES.
- 6- CONTRACTOR TO MAINTAIN ACCESSIBLE ROUTES THROUGH OR AROUND CONSTRUCTION ZONES.
- 7- SIGN 80-9928 WITH A LEGEND OF "BUSINESSES OPEN DURING CONSTRUCTION" TO BE PLACED NEAR THE BEGINNING OF WORK ZONES.



- 8- SIGN NO. 50-5934 - BUSINESS ACCESS (VARIABLE ARROW) TO BE PLACED WHEN NEEDED ACCORDING TO FIELD CONDITIONS.



- 9- SIGN NUMBERS 31-1119, 41-0501, AND 41-4223 ARE PERMANENT SIGNS THAT SHALL BE INSTALLED PRIOR TO THE IMPLEMENTATION OF THE DETOUR AND SHALL REMAIN AFTER THE COMPLETION OF THE DETOUR.

- 10- TWO WEEKS PRIOR TO INITIATING THE DETOUR THE CONTRACTOR SHALL INFORM THE CITY OF BRISTOL AND EMERGENCY SERVICES. THE CONTRACTOR SHALL INSTALL CHANGEABLE MESSAGE BOARDS NEAR THE ENDS OF THE STAGE 2 WORK ZONE WITH THE FOLLOWING LEGEND:



SIGN LEGEND

Ⓐ 80-9707 51-6614 51-6616 51-2625	DETOUR WEST 72 ↑	Ⓑ 80-9707 51-6614 51-6616 51-2626R	DETOUR WEST 72 →
Ⓒ 80-9707 51-6612 51-6616 51-2625	DETOUR EAST 72 ↑	Ⓓ 80-9707 51-6612 51-6616 51-2626R	DETOUR EAST 72 →
Ⓔ 80-9707 51-6612 51-6616 51-2626L	DETOUR EAST 72 ←	Ⓕ 80-9707 51-6612 51-6616 51-2628	DETOUR EAST 72 ↖
Ⓖ 80-9708	END DETOUR	Ⓖ 80-9805	DETOUR 1000 FT
Ⓘ 80-9933	DETOUR AHEAD		

						THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: KRM		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY:		PROJECT TITLE: MAJOR INTERSECTION IMPROVEMENTS ON ROUTE 72 AT ROUTE 69		TOWN: BRISTOL		PROJECT NO. 0017-0187	
						CHECKED BY: BMS		DRAWING NO. MPT-03											
						SCALE AS NOTED		SHEET NO.											
REV.	DATE	REVISION DESCRIPTION		SHEET NO.	Plotted Date: 3/28/2022				Filename: ...\\TR_MSh_DET.0017_0187_01.dgn										

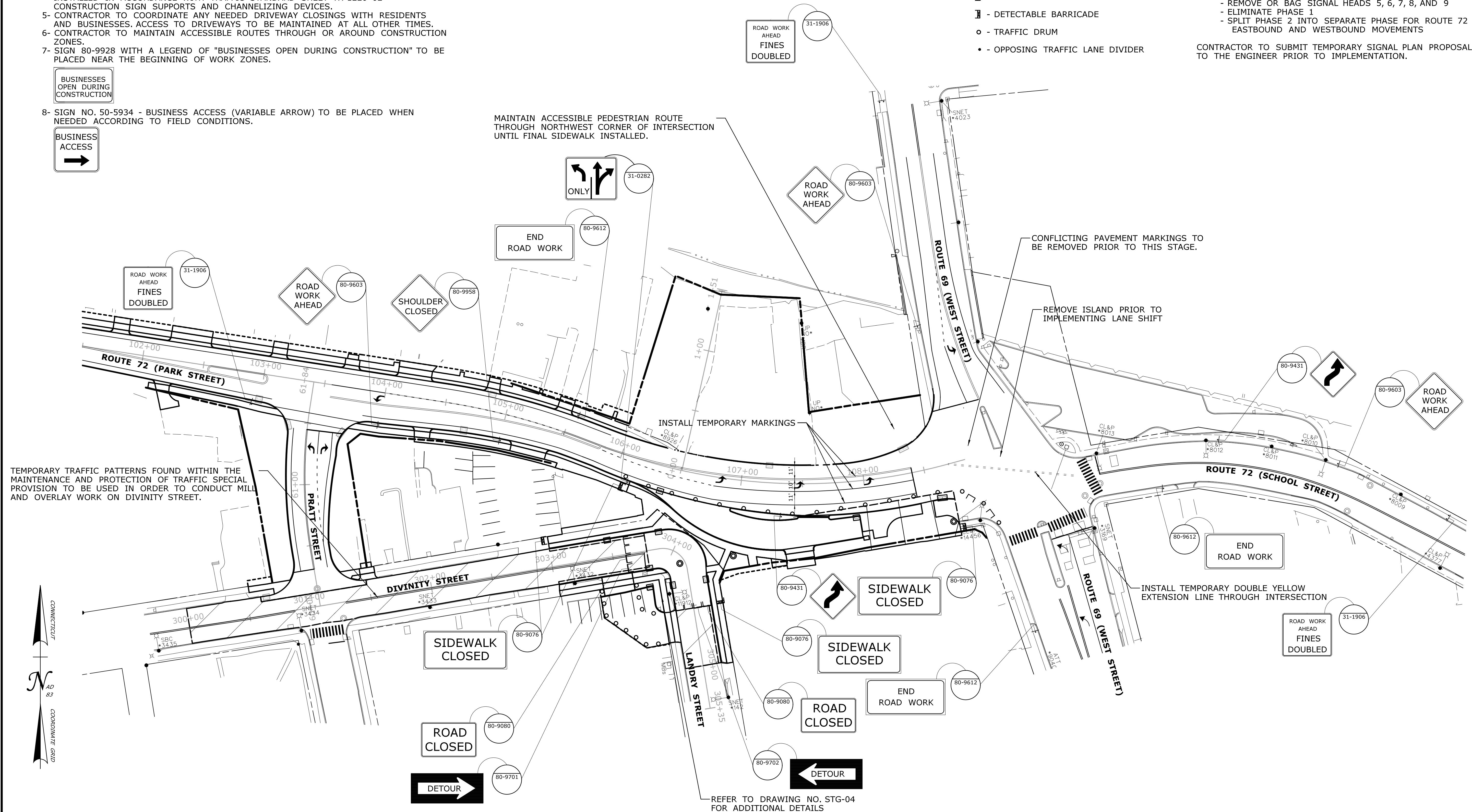
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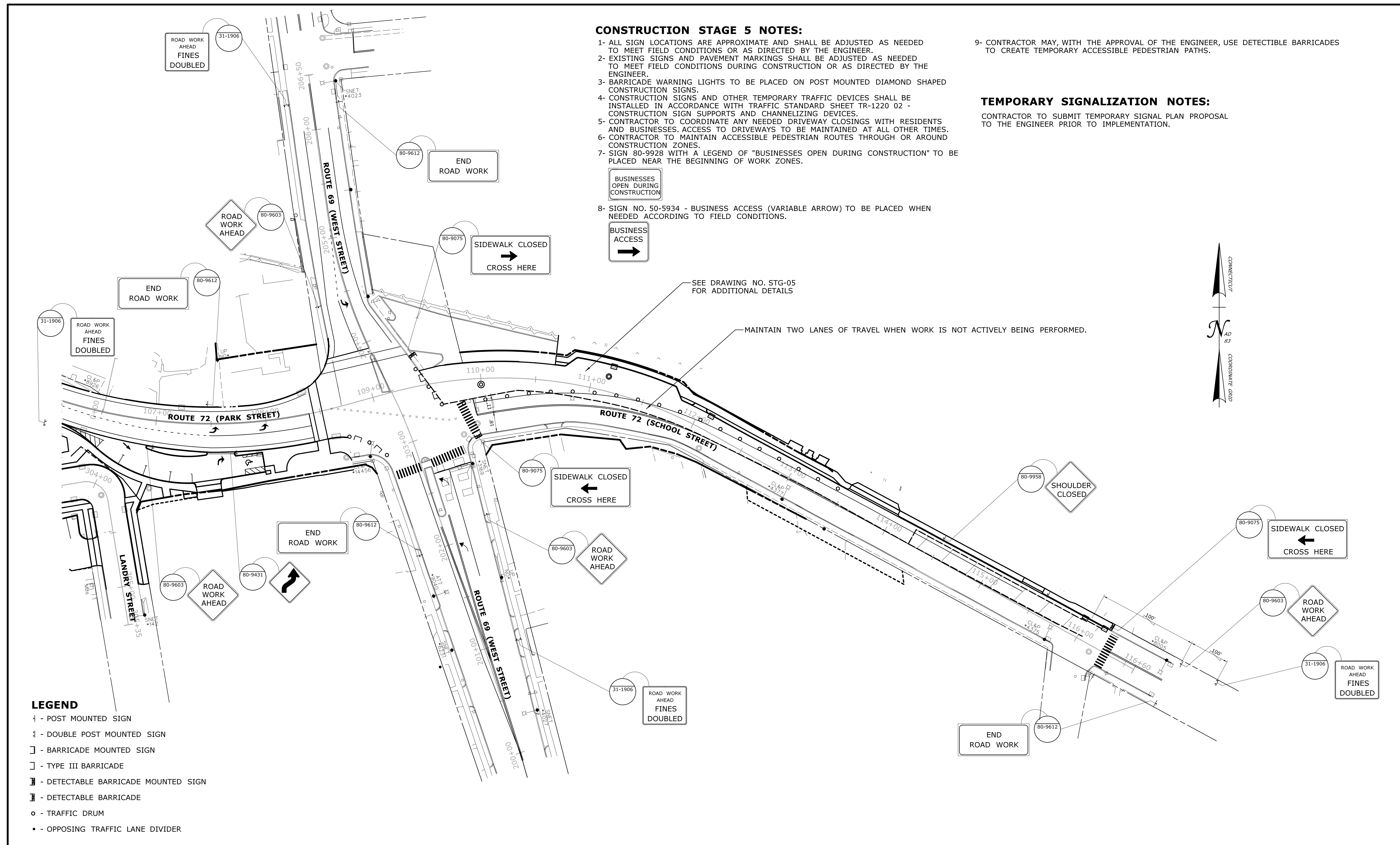
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- 3- BARRICADE WARNING LIGHTS TO BE PLACED ON POST MOUNTED DIAMOND SHAPED CONSTRUCTION SIGNS.
- 4- CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH TRAFFIC STANDARD SHEET TR-1220 02 - CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES.
- 5- CONTRACTOR TO COORDINATE ANY NEEDED DRIVEWAY CLOSINGS WITH RESIDENTS AND BUSINESSES. ACCESS TO DRIVEWAYS TO BE MAINTAINED AT ALL OTHER TIMES.
- 6- CONTRACTOR TO MAINTAIN ACCESSIBLE ROUTES THROUGH OR AROUND CONSTRUCTION ZONES.
- 7- SIGN 80-9928 WITH A LEGEND OF "BUSINESSES OPEN DURING CONSTRUCTION" TO BE PLACED NEAR THE BEGINNING OF WORK ZONES.

LEGEND

- TEMPORARY SIGNALIZATION NOTES:**

CONTRACTOR TO SUBMIT TEMPORARY SIGNAL PLAN PROPOSAL
TO THE ENGINEER PRIOR TO IMPLEMENTATION.

[illegible]



				THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: KRM CHECKED BY: BMS SCALE IN FEET 0 40 80 SCALE 1" = 40' STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\\TR-MSH-MPT-0017-0187-02 (1).dgn SIGNATURE/ BRUCK: APPROVED BY: PROJECT TITLE: MAJOR INTERSECTION IMPROVEMENTS ON ROUTE 72 AT ROUTE 69 TOWN: BRISTOL DRAWING TITLE: MAINTENANCE AND PROTECTION OF TRAFFIC PROJECT NO. 0017-0187 DRAWING NO. MPT-05 SHEET NO.	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/28/2022			

CONSTRUCTION STAGE 6 NOTES:

- 1- ALL SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE ADJUSTED AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- 2- EXISTING SIGNS AND PAVEMENT MARKINGS SHALL BE ADJUSTED AS NEEDED TO MEET FIELD CONDITIONS DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- 3- BARRICADE WARNING LIGHTS TO BE PLACED ON POST MOUNTED DIAMOND SHAPED CONSTRUCTION SIGNS.
- 4- CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH TRAFFIC STANDARD SHEET TR-1220 02 - CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES.
- 5- CONTRACTOR TO COORDINATE ANY NEEDED DRIVEWAY CLOSINGS WITH RESIDENTS AND BUSINESSES. ACCESS TO DRIVEWAYS TO BE MAINTAINED AT ALL OTHER TIMES.
- 6- CONTRACTOR TO MAINTAIN ACCESSIBLE PEDESTRIAN ROUTES THROUGH OR AROUND CONSTRUCTION ZONES.
- 7- SIGN 80-9928 WITH A LEGEND OF "BUSINESSES OPEN DURING CONSTRUCTION" TO BE PLACED NEAR THE BEGINNING OF WORK ZONES.

BUSINESSES
OPEN DURING
CONSTRUCTION

- 8- SIGN NO. 50-5934 - BUSINESS ACCESS (VARIABLE ARROW) TO BE PLACED WHEN NEEDED ACCORDING TO FIELD CONDITIONS.

BUSINESS
ACCESS
→

- 9- CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, USE DETECTIBLE BARRICADES TO CREATE TEMPORARY ACCESSIBLE PEDESTRIAN PATHS.

TEMPORARY SIGNALIZATION NOTES:

PRIOR TO THE BEGINNING OF STAGE 6, THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT THE FOLLOWING CHANGES, IN ADDITION TO ALL OTHER REQUIREMENTS NEEDED PER ITEM 1118051A - TEMPORARY SIGNALIZATION

- COMBINE ROUTE 72 EASTBOUND AND WESTBOUND INTO A SINGLE PHASE

CONTRACTOR TO SUBMIT TEMPORARY SIGNAL PLAN PROPOSAL TO THE ENGINEER PRIOR TO IMPLEMENTATION.

LEGEND

- † - POST MOUNTED SIGN
- ‡ - DOUBLE POST MOUNTED SIGN
- ⌈ - BARRICADE MOUNTED SIGN
- ⌋ - TYPE III BARRICADE
- ▬ - DETECTABLE BARRICADE MOUNTED SIGN
- ▬ - DETECTABLE BARRICADE
- - TRAFFIC DRUM
- - OPPOSING TRAFFIC LANE DIVIDER



USE DETECTABLE BARRICADES TO CREATE ACCESSIBLE WALKWAY THROUGH PARKING LOT TO NEWLY CONSTRUCTED SIDEWALK THROUGH STAGE 8 OR AS APPLICABLE.

MAINTAIN TWO LANES OF TRAVEL WHEN WORK IS NOT ACTIVELY BEING PERFORMED. UTILIZE OPPOSING LANE DIVIDERS OR A TEMPORARY DOUBLE YELLOW CENTERLINE IF NEEDED.

SEE DRAWING NO. STG-06 FOR ADDITIONAL DETAILS

DESIGNER/DRAFTER: KRM
CHECKED BY: BMS
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Signature/Block: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: MAJOR INTERSECTION IMPROVEMENTS ON ROUTE 72 AT ROUTE 69

TOWN: BRISTOL

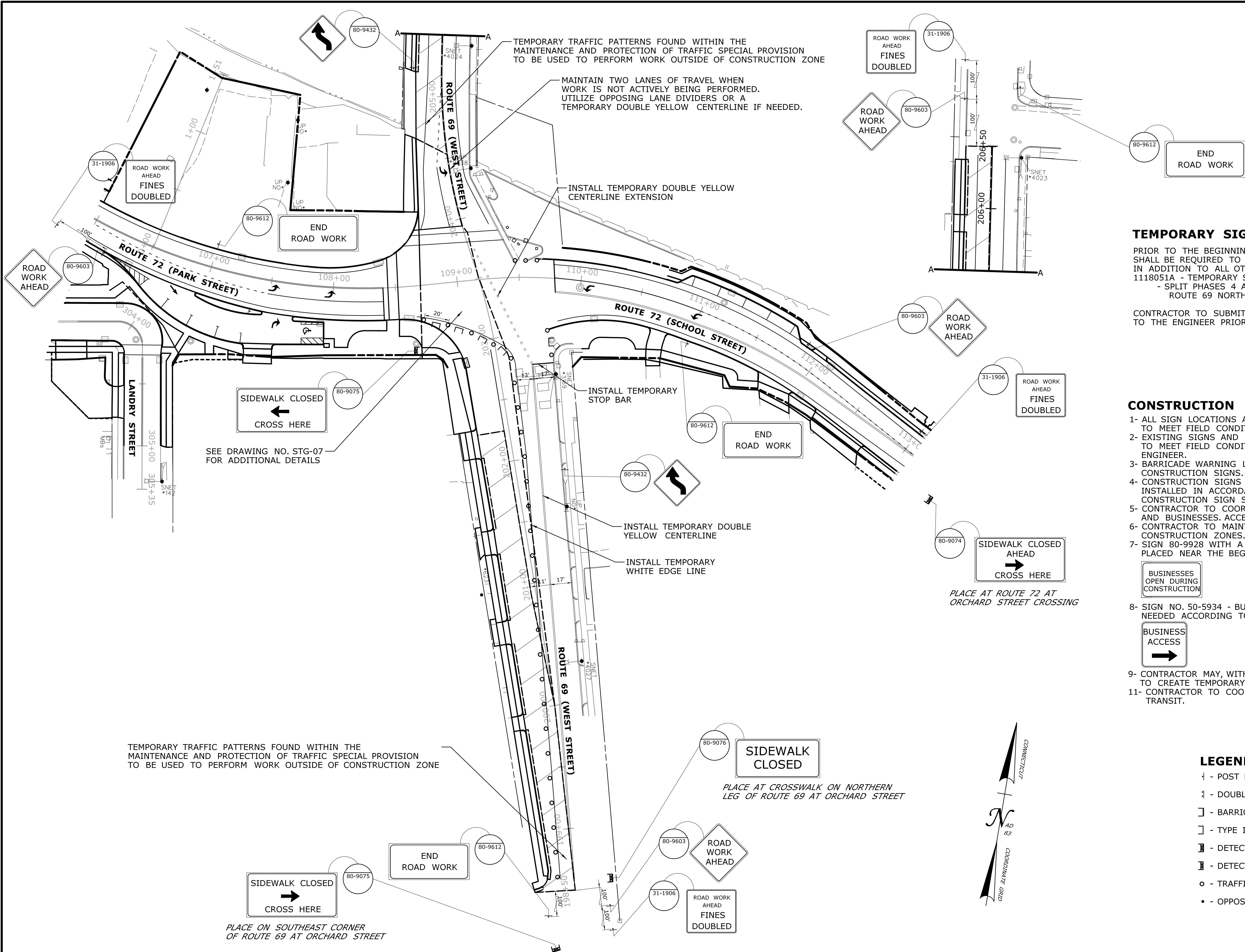
DRAWING TITLE: MAINTENANCE AND PROTECTION OF TRAFFIC

PROJECT NO. 0017-0187
DRAWING NO. MPT-06
SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/28/2022

REV. DATE REVISION DESCRIPTION SHEET NO.



TEMPORARY SIGNALIZATION NOTES:

PRIOR TO THE BEGINNING OF STAGE 7, THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT THE FOLLOWING CHANGES, IN ADDITION TO ALL OTHER REQUIREMENTS NEEDED PER ITEM 1118051A - TEMPORARY SIGNALIZATION

- SPLIT PHASES 4 AND 5 INTO SEPARATE MOVEMENTS FOR ROUTE 69 NORTHBOUND AND ROUTE 69 SOUTHBOUND

CONTRACTOR TO SUBMIT TEMPORARY SIGNAL PLAN PROPOSAL TO THE ENGINEER PRIOR TO IMPLEMENTATION.

CONSTRUCTION STAGE 7 NOTES:

- 1- ALL SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE ADJUSTED AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- 2- EXISTING SIGNS AND PAVEMENT MARKINGS SHALL BE ADJUSTED AS NEEDED TO MEET FIELD CONDITIONS DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- 3- BARRICADE WARNING LIGHTS TO BE PLACED ON POST MOUNTED DIAMOND SHAPED CONSTRUCTION SIGNS.
- 4- CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH TRAFFIC STANDARD SHEET TR-1220 02 - CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES.
- 5- CONTRACTOR TO COORDINATE ANY NEEDED DRIVEWAY CLOSINGS WITH RESIDENTS AND BUSINESSES. ACCESS TO DRIVEWAYS TO BE MAINTAINED AT ALL OTHER TIMES.
- 6- CONTRACTOR TO MAINTAIN ACCESSIBLE PEDESTRIAN ROUTES THROUGH OR AROUND CONSTRUCTION ZONES.
- 7- SIGN 80-9928 WITH A LEGEND OF "BUSINESSES OPEN DURING CONSTRUCTION" TO BE PLACED NEAR THE BEGINNING OF WORK ZONES.



- 8- SIGN NO. 50-5934 - BUSINESS ACCESS (VARIABLE ARROW) TO BE PLACED WHEN NEEDED ACCORDING TO FIELD CONDITIONS.



- 9- CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, USE DETECTIBLE BARRICADES TO CREATE TEMPORARY ACCESSIBLE PEDESTRIAN PATHS.
- 11- CONTRACTOR TO COORDINATE TEMPORARY BUS STOP RELOCATION WITH CONNECTICUT TRANSIT.

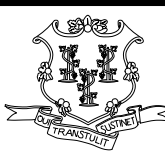
LEGEND

- † - POST MOUNTED SIGN
- ‡ - DOUBLE POST MOUNTED SIGN
- ⌈ - BARRICADE MOUNTED SIGN
- ⌋ - TYPE III BARRICADE
- ⌈⌋ - DETECTABLE BARRICADE MOUNTED SIGN
- ⌈⌋ - DETECTABLE BARRICADE
- - TRAFFIC DRUM
- - OPPOSING TRAFFIC LANE DIVIDER

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/28/2022

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER: KRM
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**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION



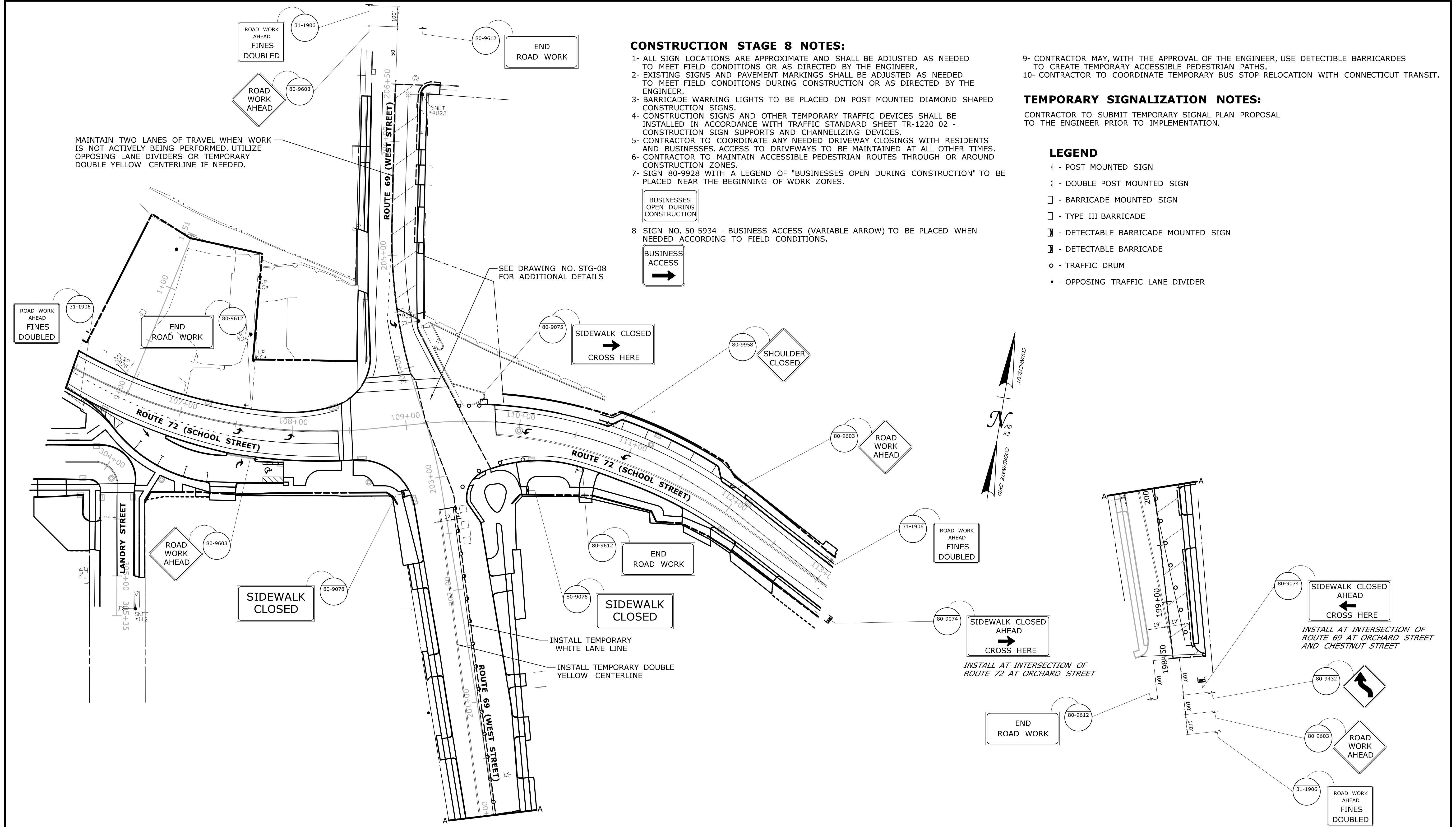
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SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: MAJOR INTERSECTION IMPROVEMENTS ON ROUTE 72 AT ROUTE 69
--

TOWN: BRISTOL
DRAWING TITLE: MAINTENANCE AND PROTECTION OF TRAFFIC

PROJECT NO. 0017-0187
DRAWING NO. MPT-07
SHEET NO.



CONSTRUCTION STAGE 8 NOTES:

- 1- ALL SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE ADJUSTED AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- 2- EXISTING SIGNS AND PAVEMENT MARKINGS SHALL BE ADJUSTED AS NEEDED TO MEET FIELD CONDITIONS DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- 3- BARRICADE WARNING LIGHTS TO BE PLACED ON POST MOUNTED DIAMOND SHAPED CONSTRUCTION SIGNS.
- 4- CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH TRAFFIC STANDARD SHEET TR-1220 02 - CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES.
- 5- CONTRACTOR TO COORDINATE ANY NEEDED DRIVEWAY CLOSINGS WITH RESIDENTS AND BUSINESSES. ACCESS TO DRIVEWAYS TO BE MAINTAINED AT ALL OTHER TIMES.
- 6- CONTRACTOR TO MAINTAIN ACCESSIBLE PEDESTRIAN ROUTES THROUGH OR AROUND CONSTRUCTION ZONES.
- 7- SIGN 80-9928 WITH A LEGEND OF "BUSINESSES OPEN DURING CONSTRUCTION" TO BE PLACED NEAR THE BEGINNING OF WORK ZONES.

- 8- SIGN NO. 50-5934 - BUSINESS ACCESS (VARIABLE ARROW) TO BE PLACED WHEN NEEDED ACCORDING TO FIELD CONDITIONS.

- 9- CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, USE DETECTIBLE BARRICADES TO CREATE TEMPORARY ACCESSIBLE PEDESTRIAN PATHS.
- 10- CONTRACTOR TO COORDINATE TEMPORARY BUS STOP RELOCATION WITH CONNECTICUT TRANSIT.

TEMPORARY SIGNALIZATION NOTES:

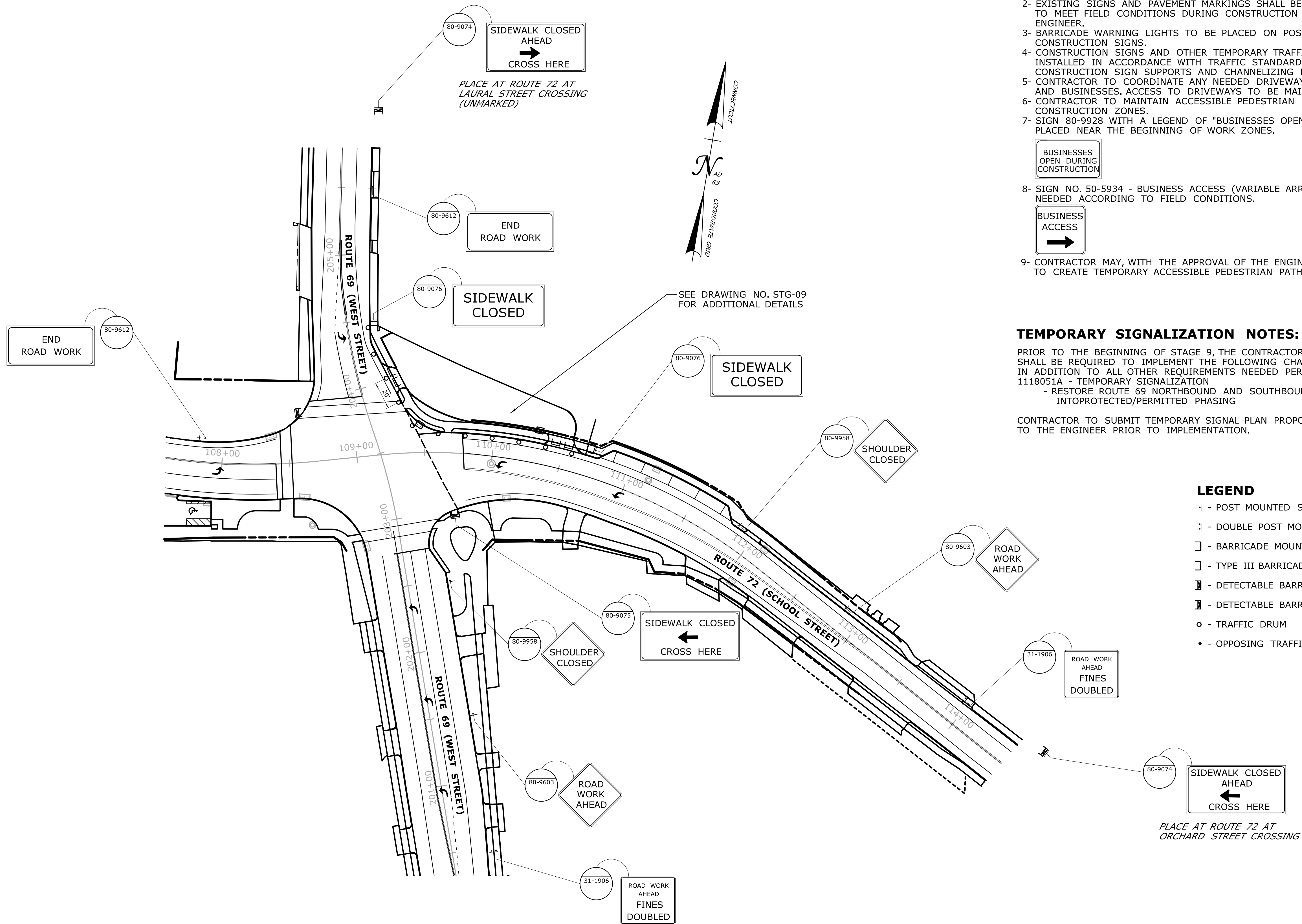
CONTRACTOR TO SUBMIT TEMPORARY SIGNAL PLAN PROPOSAL TO THE ENGINEER PRIOR TO IMPLEMENTATION.

LEGEND

- † - POST MOUNTED SIGN
- ‡ - DOUBLE POST MOUNTED SIGN
- ⌈ - BARRICADE MOUNTED SIGN
- ⌋ - TYPE III BARRICADE
- ⌚ - DETECTABLE BARRICADE MOUNTED SIGN
- ⌚ - DETECTABLE BARRICADE
- - TRAFFIC DRUM
- - OPPOSING TRAFFIC LANE DIVIDER

				DESIGNER/DRAFTER: KRM		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: MAJOR INTERSECTION IMPROVEMENTS ON ROUTE 72 AT ROUTE 69	TOWN: BRISTOL	PROJECT NO. 0017-0187			
				CHECKED BY: BMS								APPROVED BY:	DRAWING TITLE: MAINTENANCE AND PROTECTION OF TRAFFIC	DRAWING NO. MPT-08
				SCALE IN FEET 0 40 80 SCALE 1"=40'										
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/28/2022		Filename: ...\\TR_MSH_MPT_0017_0187_02 (1).dgn								

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.



- CONSTRUCTION STAGE 9 NOTES:**
- 1- ALL SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE ADJUSTED AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
 - 2- EXISTING SIGNS AND PAVEMENT MARKINGS SHALL BE ADJUSTED AS NEEDED TO MEET FIELD CONDITIONS DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
 - 3- BARRICADE WARNING LIGHTS TO BE PLACED ON POST MOUNTED DIAMOND SHAPED CONSTRUCTION SIGNS.
 - 4- CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH TRAFFIC STANDARD SHEET TR-1220 02 - CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES.
 - 5- CONTRACTOR TO COORDINATE ANY NEEDED DRIVEWAY CLOSINGS WITH RESIDENTS AND BUSINESSES. ACCESS TO DRIVEWAYS TO BE MAINTAINED AT ALL OTHER TIMES.
 - 6- CONTRACTOR TO MAINTAIN ACCESSIBLE PEDESTRIAN ROUTES THROUGH OR AROUND CONSTRUCTION ZONES.
 - 7- SIGN 80-9928 WITH A LEGEND OF "BUSINESSES OPEN DURING CONSTRUCTION" TO BE PLACED NEAR THE BEGINNING OF WORK ZONES.

- BUSINESSES OPEN DURING CONSTRUCTION**
- 8- SIGN NO. 50-5934 - BUSINESS ACCESS (VARIABLE ARROW) TO BE PLACED WHEN NEEDED ACCORDING TO FIELD CONDITIONS.
- BUSINESS ACCESS**
- 9- CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, USE DETECTIBLE BARRICADES TO CREATE TEMPORARY ACCESSIBLE PEDESTRIAN PATHS.

- TEMPORARY SIGNALIZATION NOTES:**
- PRIOR TO THE BEGINNING OF STAGE 9, THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT THE FOLLOWING CHANGES, IN ADDITION TO ALL OTHER REQUIREMENTS NEEDED PER ITEM 1118051A - TEMPORARY SIGNALIZATION
- RESTORE ROUTE 69 NORTHBOUND AND SOUTHBOUND INTO PROTECTED/PERMITTED PHASING
- CONTRACTOR TO SUBMIT TEMPORARY SIGNAL PLAN PROPOSAL TO THE ENGINEER PRIOR TO IMPLEMENTATION.

- LEGEND**
- + - POST MOUNTED SIGN
 - + - DOUBLE POST MOUNTED SIGN
 -] - BARRICADE MOUNTED SIGN
 -] - TYPE III BARRICADE
 - ▤ - DETECTABLE BARRICADE MOUNTED SIGN
 - ▤ - DETECTABLE BARRICADE
 - o - TRAFFIC DRUM
 - - OPPOSING TRAFFIC LANE DIVIDER

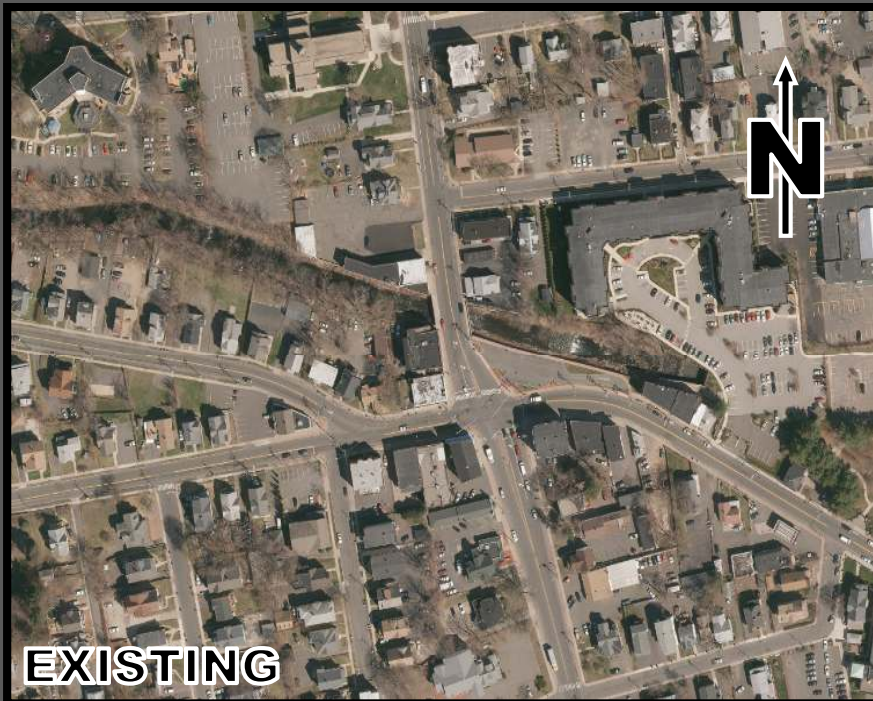
						THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: KRM		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		 OFFICE OF ENGINEERING		SIGNATURE/ BLOCK: MAJOR INTERSECTION IMPROVEMENTS ON ROUTE 72 AT ROUTE 69		PROJECT TITLE: MAJOR INTERSECTION IMPROVEMENTS ON ROUTE 72 AT ROUTE 69		TOWN: BRISTOL		PROJECT NO. 0017-0187	
						CHECKED BY: BMS		DRAWING NO. MPT-09													
						SCALE IN FEET  SCALE 1"=40'		SHEET NO.													
REV.	DATE	REVISION DESCRIPTION		SHEET NO.	Plotted Date: 3/28/2022				Filename: ...\\TR_MSH_MPT_0017_0187_02 (1).dgn												

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Progress Meeting

Project No. 17-187

Major Intersection Improvements on Route 72 at Route 69, City of Bristol



Jared Hendrickson – Project Designer
Andrew Esposito – Project Engineer
Joe Arsenault – Project Manager

Sue Fiedler – Landscape Design
Max McNulty – Landscape Design

Topics of Discussion

- Updated project schedule
- Impacts to traffic and emergency responses
- Night construction and detours
- Decorative traffic equipment
- Streetscape limits and treatments
- Hardscaping materials
- Utility and rights of way updates

Updated Schedule

Final Design Plans: February 09, 2022

Design Completion: March 23, 2022

Project Award: July 15, 2022

Construction: August 29, 2022

Construction Duration

2 Year duration expected

Duration will vary based on if detours and night construction are aloud

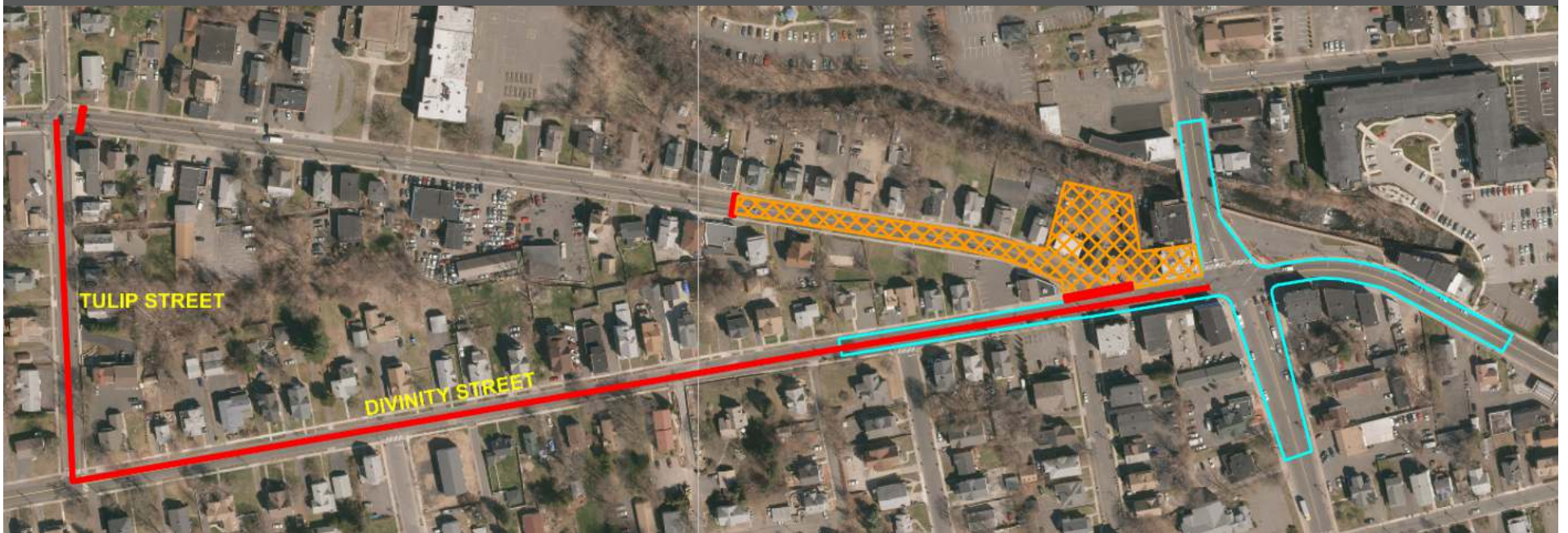
Traffic Impacts

Impacts to traffic and emergency responses

- 2 year project duration
- Alternating one-way traffic
- Detours
- Night construction

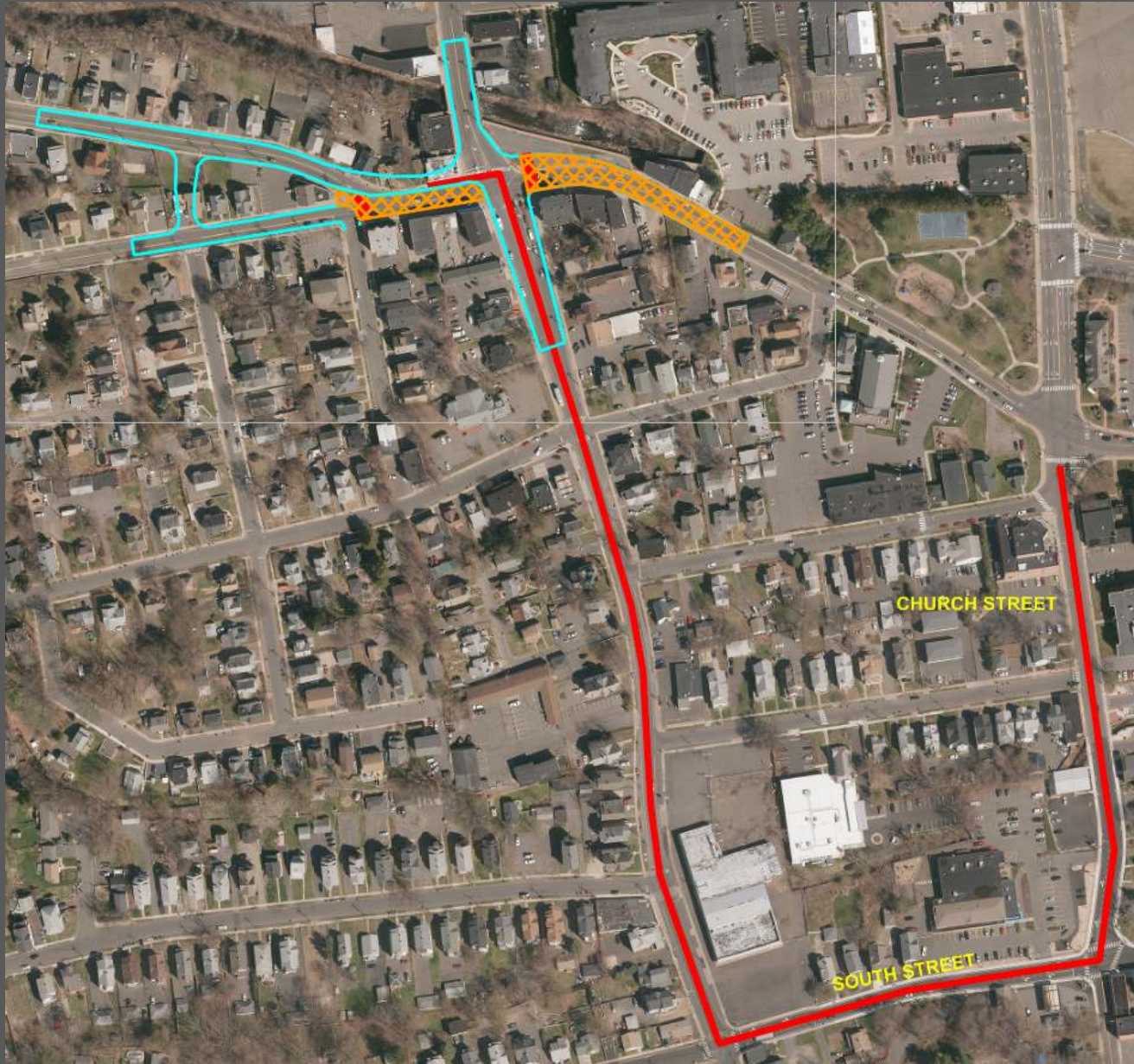
Park Street Detour

Detour traffic onto Tulip Street & Divinity Street



School Street Detour

Detour traffic onto South Street and Church Street



Decorative Traffic Equipment

Decorative traffic equipment and light poles

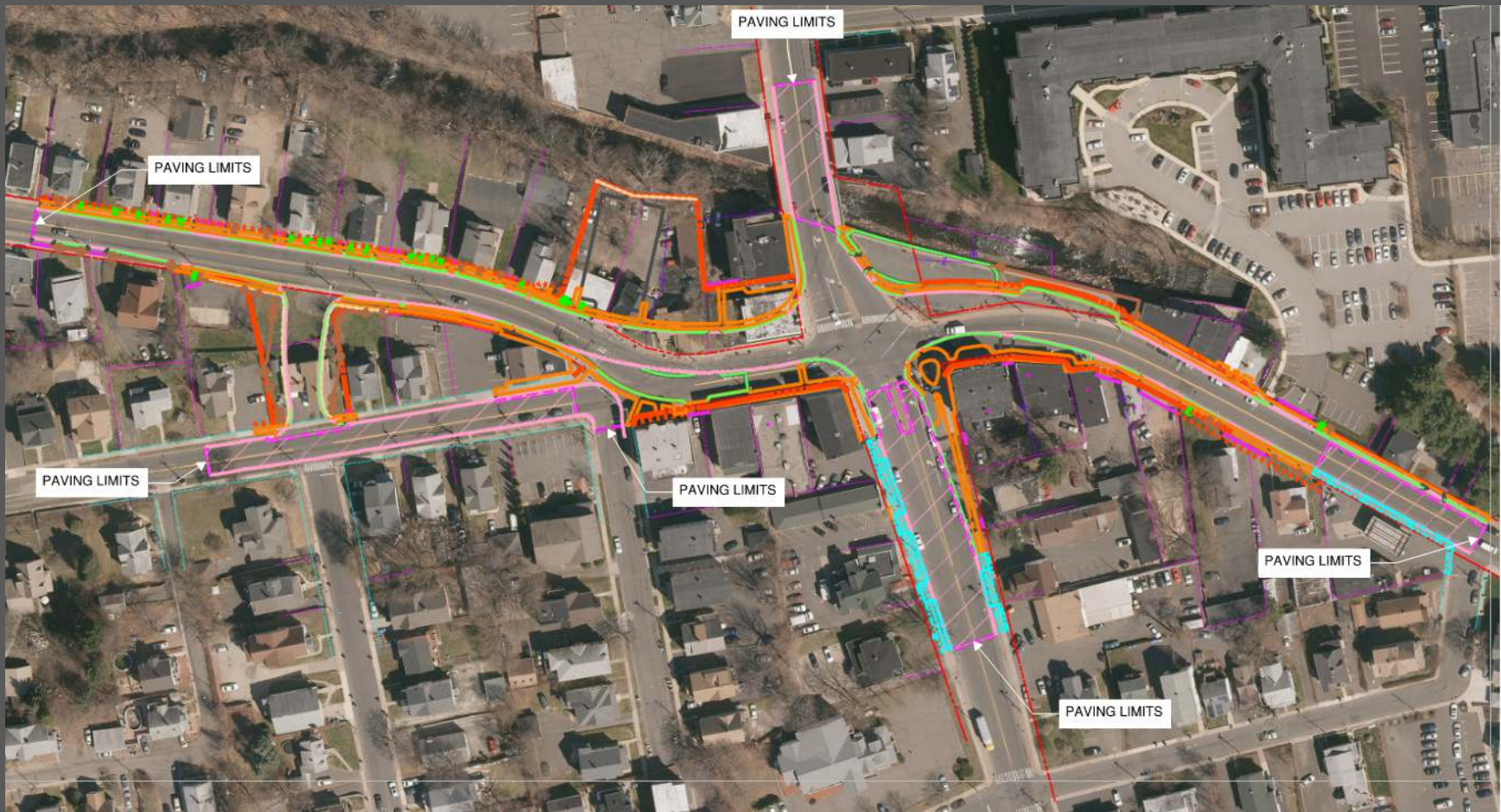
- Decorative light poles requested by the City can be installed
- A location plan of where the City wants light poles will need to be sent to the State
- Decorative mast arms can be installed at the States expense
- Decorative pedestrian signal poles can be installed at the States expense
- Decorative traffic equipment will need to be maintained by the City



Overall Streetscape Plan

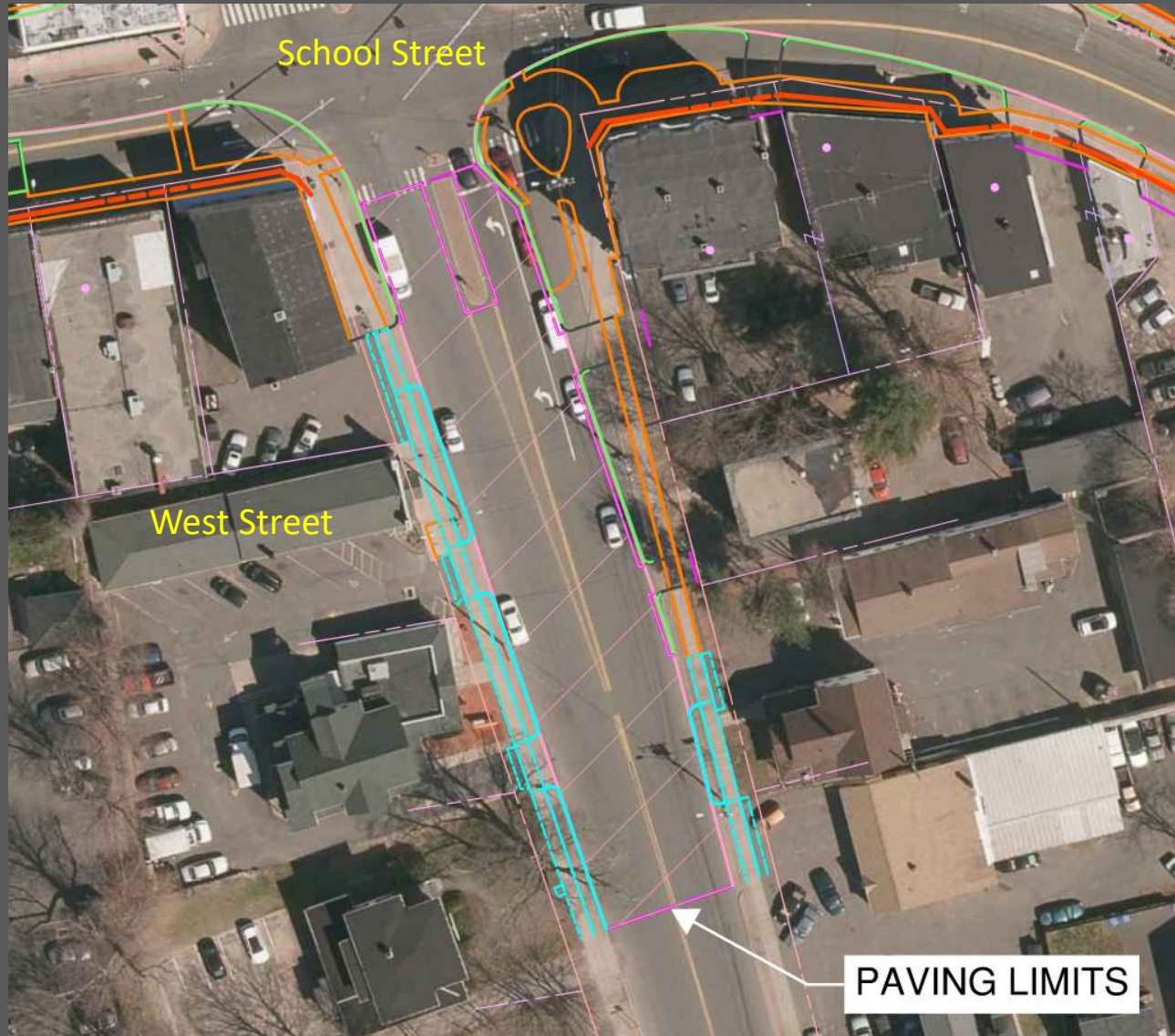
Additional streetscape limits based on the existing streetscape from

- The State will pay for streetscaping up until the paving limits



Streetscape Limits

Streetscaping limits on West Street South of School Street



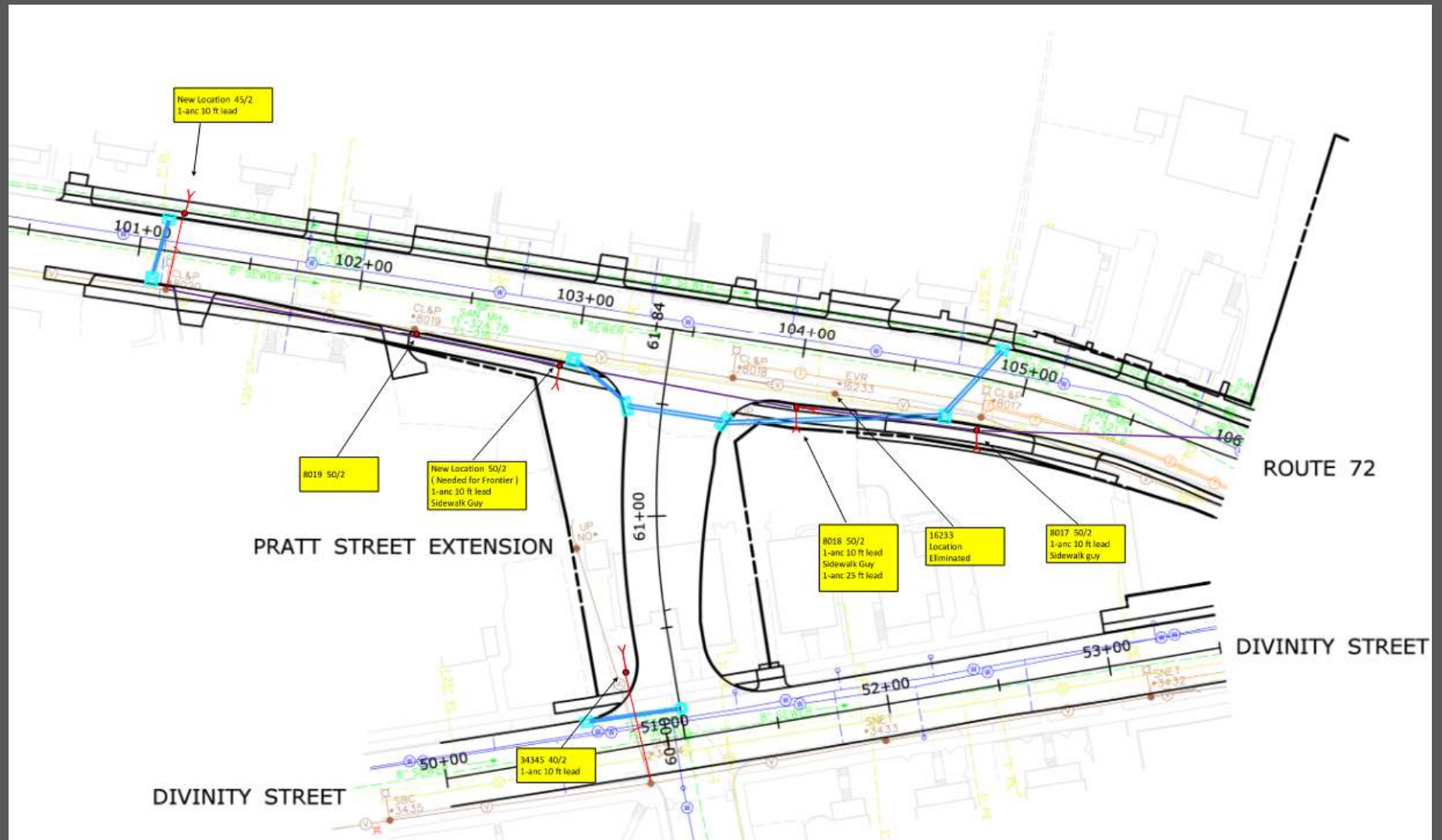
Concrete buffer limits on Park Street



Utilities Update

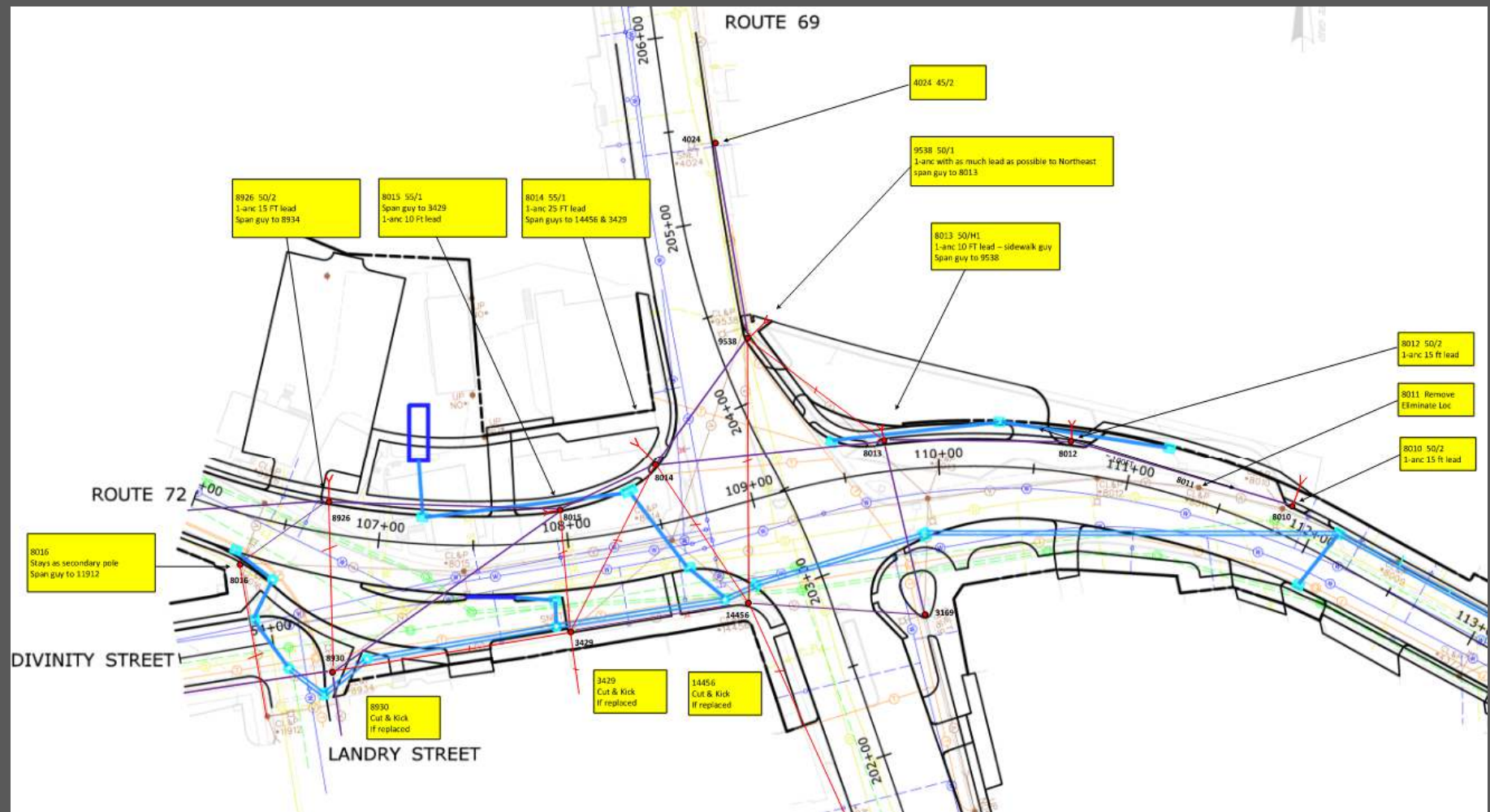
- **Utility pole relocation plans**
 - One more meeting is to be held to finalize the relocation plan set
 - 12 poles will be relocated
 - 2 new pole locations
 - 5 replacement pole locations
 - 2 poles will be eliminated
- **Test pits**
 - 41 total test pits were dug in the first round of test pits
 - 14 additional test pits are currently being dug after a review of the test pit data and drainage modifications
- **Utility coordination will start after a review of the data from the second round of test pits**

Utility pole relocation plan 1



Overhead Utility Pole Plan

Utility pole relocation plan 2



Rights of Way Update

- **Time needed to acquire and demolish properties**
 - All buildings to be demolished have been acquired.
 - The process of relocating tenants from the building to be demolished is ongoing and expected to be complete by mid September
 - An estimated 10 months is needed from the time the building is vacated to completed demolition of the buildings
 - Construction easements and partial takes are currently being acquired

Questions





Department of Public Works | 860.584.6125

MEMORANDUM

DATE: April 12, 2022
TO: Mayor Jeffrey Caggiano
Board of Public Works
FROM: Raymond A. Rogozinski, P.E., Director of Public Works
RE: DPW – Meadow Street & Hope Street Parking Garage Update

Meadow Street / Kelly Street Parking Garage

The City of Bristol has received a state grant in the amount of \$4,200,000 to design and construct a parking garage on the City's existing parking lot located at the corner of Meadow St. and Kelly St. (west of the Police Complex). The firm of Desman Design Management has been hired by the City to design the proposed 150 space parking garage.

As indicated in the attached preliminary design the proposed access to the parking garage will be along Meadow St. just west of the Police Department's access to its below-grade existing parking facility. An elevator is indicated in the south-east corner of the proposed parking garage. However, it is not required per code and will be re-evaluated/eliminated based on the project budget. The proposed staircase in the north-west corner (out letting to Kelly St.) is a concern (may be a "hangout"). DPW requested that the referenced stair/door be relocated to the south-west (corner of Meadow St and Kelly Street). However due to required fire code/egress separations it appears the door cannot be relocated. The door can be exit only and equipped with an alarm but the referenced features may not address the "hangout" concern.

The parking garage will be designed to provide secured (fenced in) parking on its upper floor for Police Department personnel. The number of secure parking spaces required is currently being confirmed and is estimated to be 35-40 spaces. In addition, parking will be allocated for the Police Department's two box trucks in the north-west parking area of the proposed renovated City Hall. In addition to City Hall parking, the parking garage will also serve as Post Office parking. The City currently leases the Post Office 35 spaces on Centre Square.

Due to the elevation of the proposed parking garage (2.5 stories) and the existing City parking garage, along with the estimate cost (\$350,000), the previously discussed option of installing a skywalk interconnecting the proposed garage to the existing garage does not appear viable. With



Department of Public Works | 860.584.6125

that said the ADA parking will be provided and the existing one-way access way located in the rear (west) of City Hall will be reconstructed as part of the City Hall renovation project to provide two-way traffic. The construction of the two-way / access way at the rear of City Hall will allow the Police Department access to Laurel St. and will serve as a route for overflow parking from City Hall to the parking garage.

As previously reported to the Board of Public Works, it is imperative that the parking garage be constructed in 2023 to prevent a shortage of downtown parking associated with development of the Centre Square. The planning of construction logistics to mitigate/eliminate the impact to the Police Department, Immanuel Lutheran School and residents is critical. Based on preliminary discussions with Desman Associates, Police Department access to the existing parking garage will be maintained and road closure disturbance will be minimal.

DPW has met with representatives of Immanuel Lutheran School for the purpose of seeing if a portion of their parking lot is available for City use during the parking garage construction. School representatives were very open and cooperative to the City's request, including potentially re-designing their existing bus and drop off area. Based on the meeting there is a high potential of the City leasing approximately 50 spaces from the church. It is anticipated that leasing the 50 parking lot spaces for the period during 2023 from April to November will be \$16,000-\$18,000.

Hope Street Parking Garage

The City is proposing a 180 space parking garage on the Centre Square development on lot 9 (area of the existing municipal surface parking lot). In response to DPW's request Desman Associated prepared the attached preliminary parking garage layout which indicates that the lot can support the proposed 180 space parking lot. In addition, although a detailed evaluation has not been conducted Desman Associates has indicated that the existing \$5,300,000 budget (ARPA funds) can support the proposed parking garage construction. It should be noted that Desman has not been hired as the formal designer of the Hope St. parking garage and the City will issue a formal RFP for design services.

One of the areas of DPW specific concerns was the impact to the proposed parking garage lot associated with a lot line revision to support Carrier Construction's development and the proposed relocation of Eversource electrical equipment along the parcel's southern property line. However based on the preliminary analysis the lot will support construction of a 180 space parking garage. Plans indicated the referenced lot line revision and electrical equipment relocation are attached.



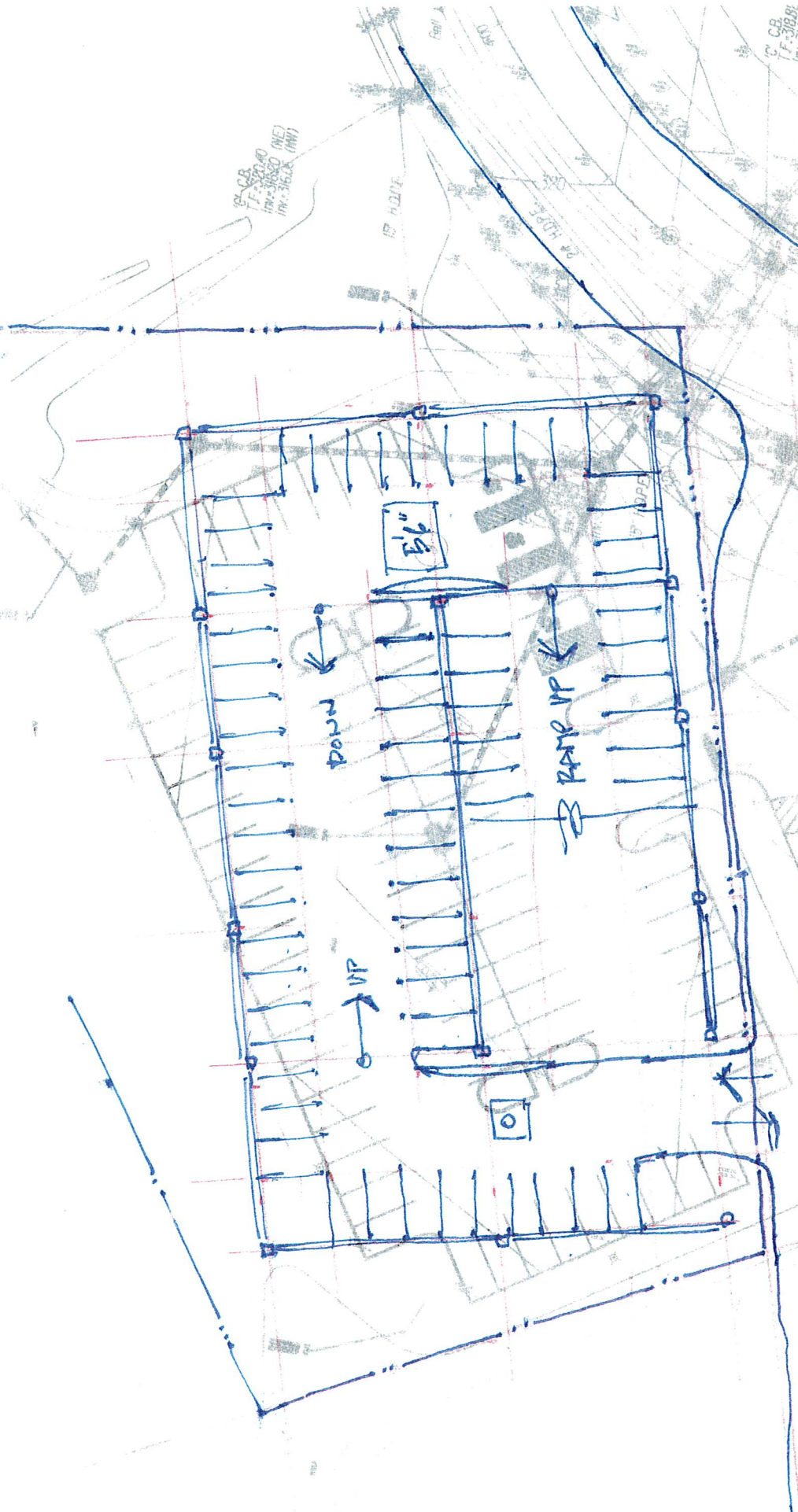
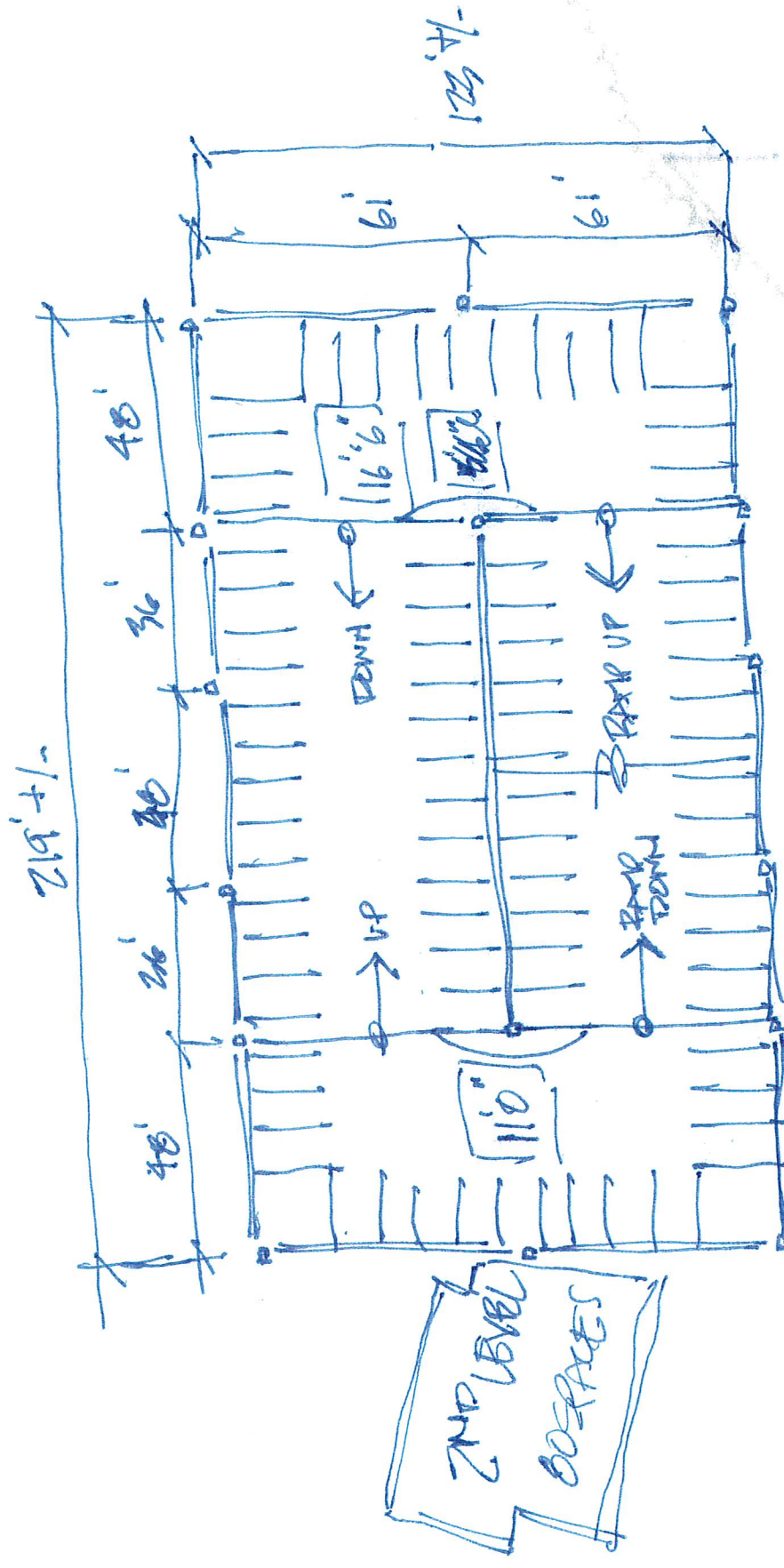
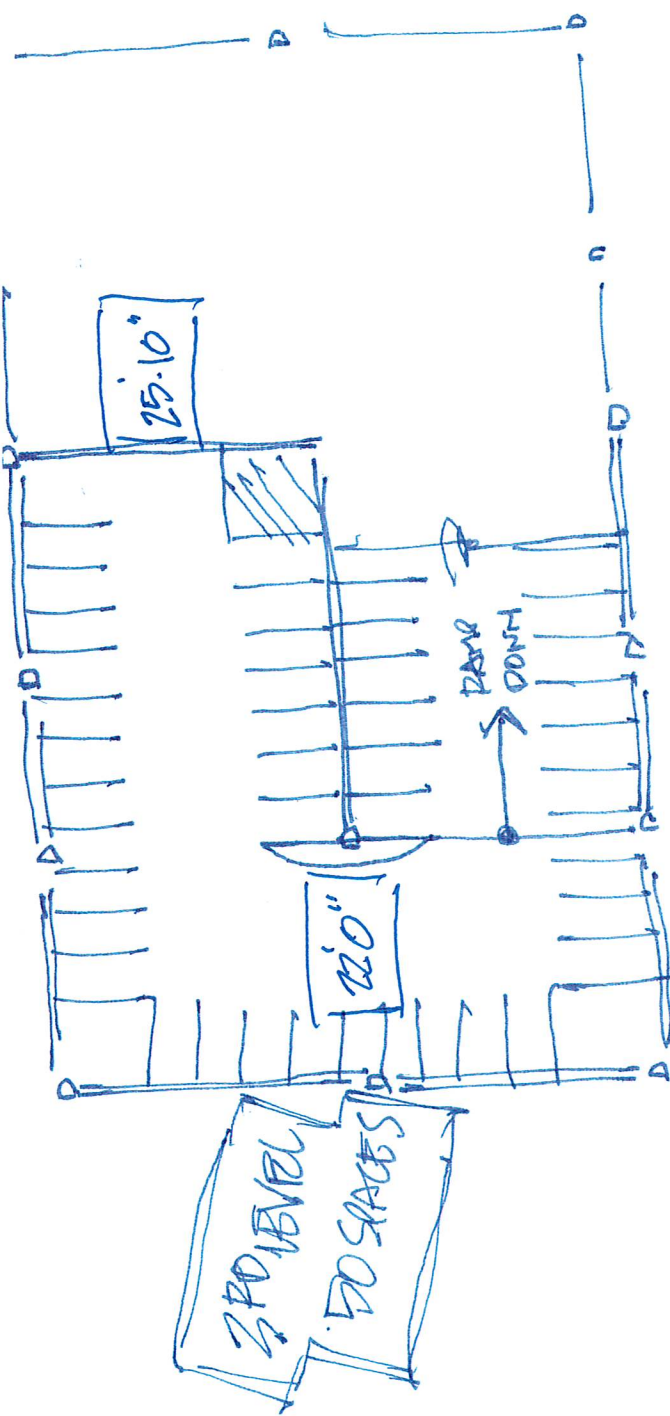
Department of Public Works | 860.584.6125

The City is also investigating relocating the bus stops along the proposed parking garage Hope Street frontage. In order to provide a bus stop a pull off would be constructed which will require that the existing Hope St. curb line will be relocated (pushed) further into lot. The combined effect of the lot line revision and creation of a bus stop results in the proposed parking garage being further away / back from Hope St. and may require a zoning variance associated with the required 10 ft. build-to line along the property frontage,

Please note representatives of Desman Associates are scheduled to attend the Board's April 21, 2022 meeting to present the preliminary plans and address questions.

Please feel free to contact me with any questions at 860-584-6113.

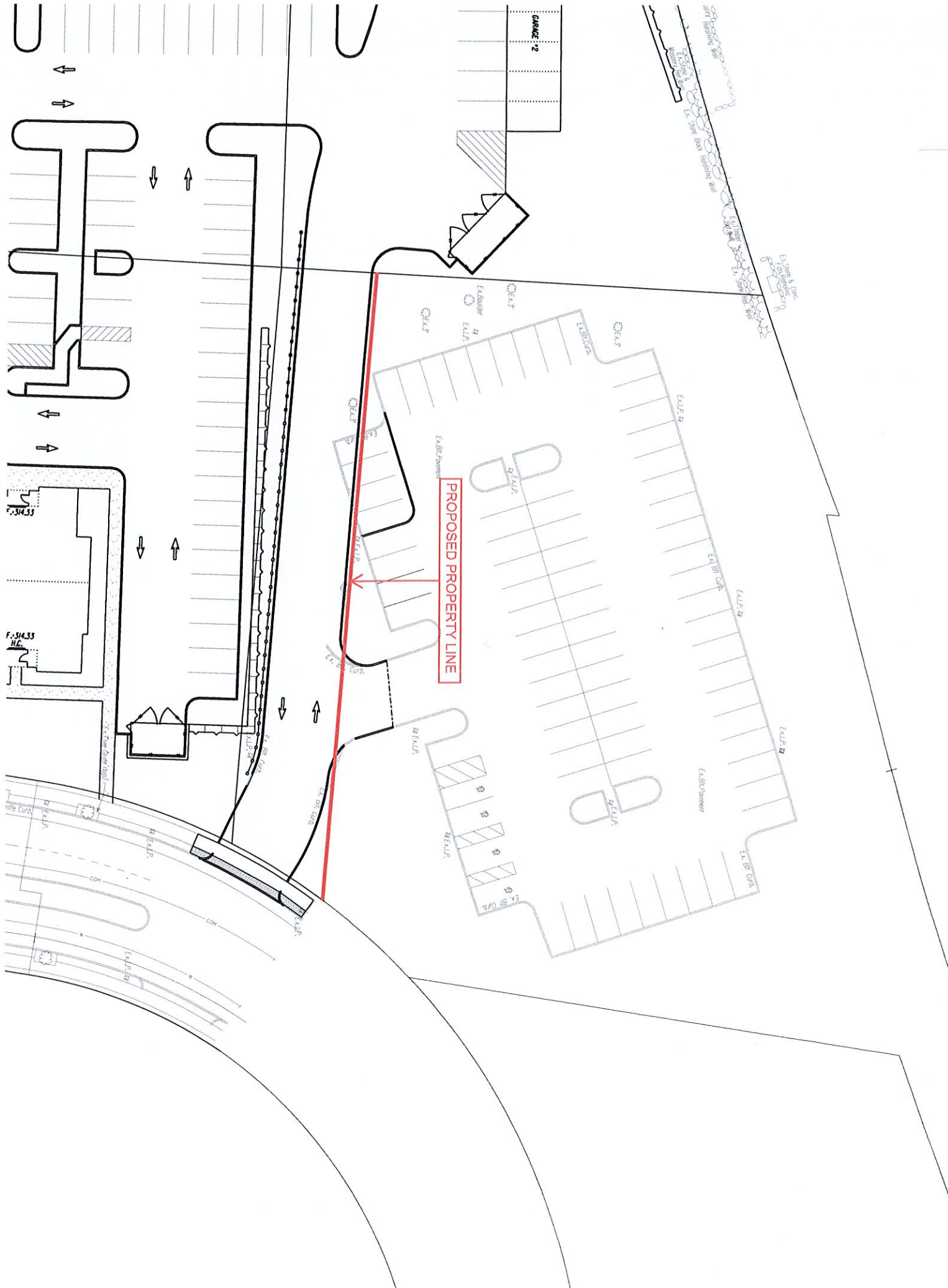
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GRADE LEVEL
SEATING
DOORS

DESIGN

4.01.22 1"=40'





HOPE STREET
PROPOSED PARKING STRUCTURE
BRISTOL CONNECTICUT

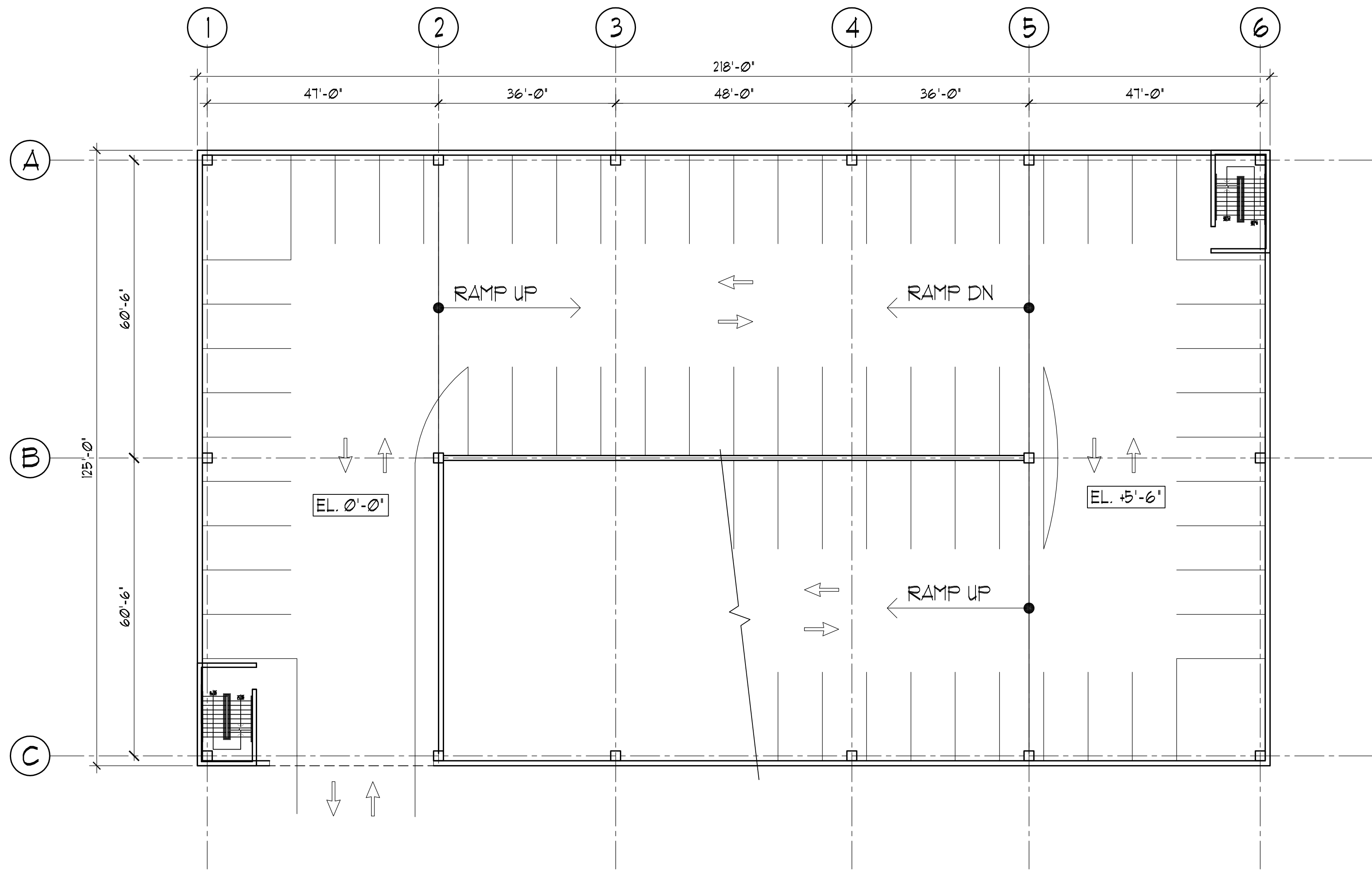
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NO.	DATE	DESCRIPTION

DRAWING TITLE:
GRADE LEVEL
PLAN

DRAWING NO.
A100

SCALE: 1" = 20'-0"		
DATE: 4/12/2022		
PROJECT NO. :		
DES.	DRWN.	CHK'D.



GRADE LEVEL PLAN
SCALE: 1/16" = 1'-0" (50 SPACES)

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NO.	DATE	DESCRIPTION

DRAWING TITLE:
GRADE LEVEL PLAN

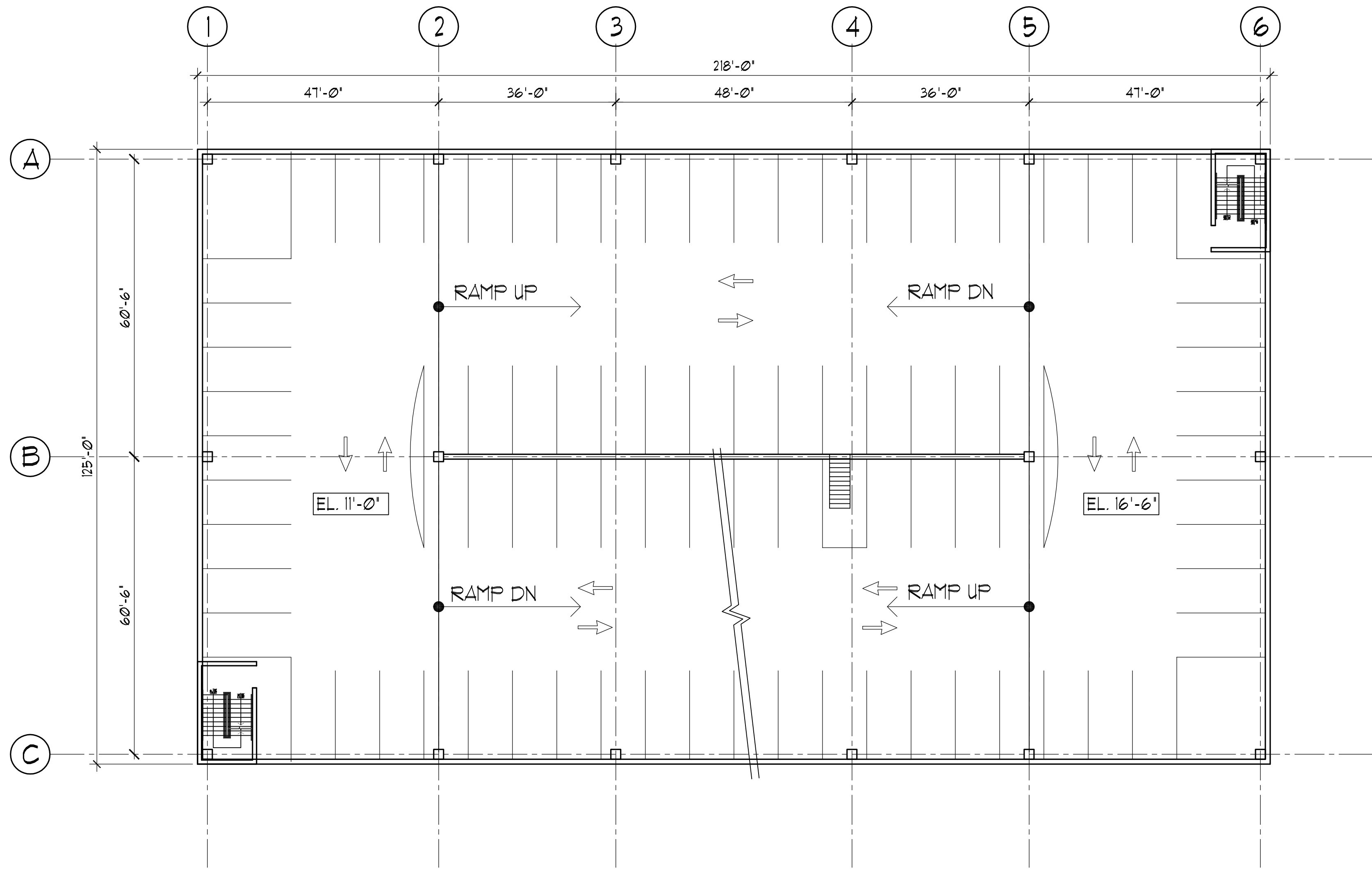
DRAWING NO.
A101

SCALE: 1/16" = 1'-0"

DATE: 4/12/2022

PROJECT NO :

DES.	DRWN.	CHK'D.
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SECOND LEVEL PLAN
SCALE: 1/16" = 1'-0" (80 SPACES)

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NO.	DATE	DESCRIPTION

DRAWING TITLE:
SECOND LEVEL
PLAN

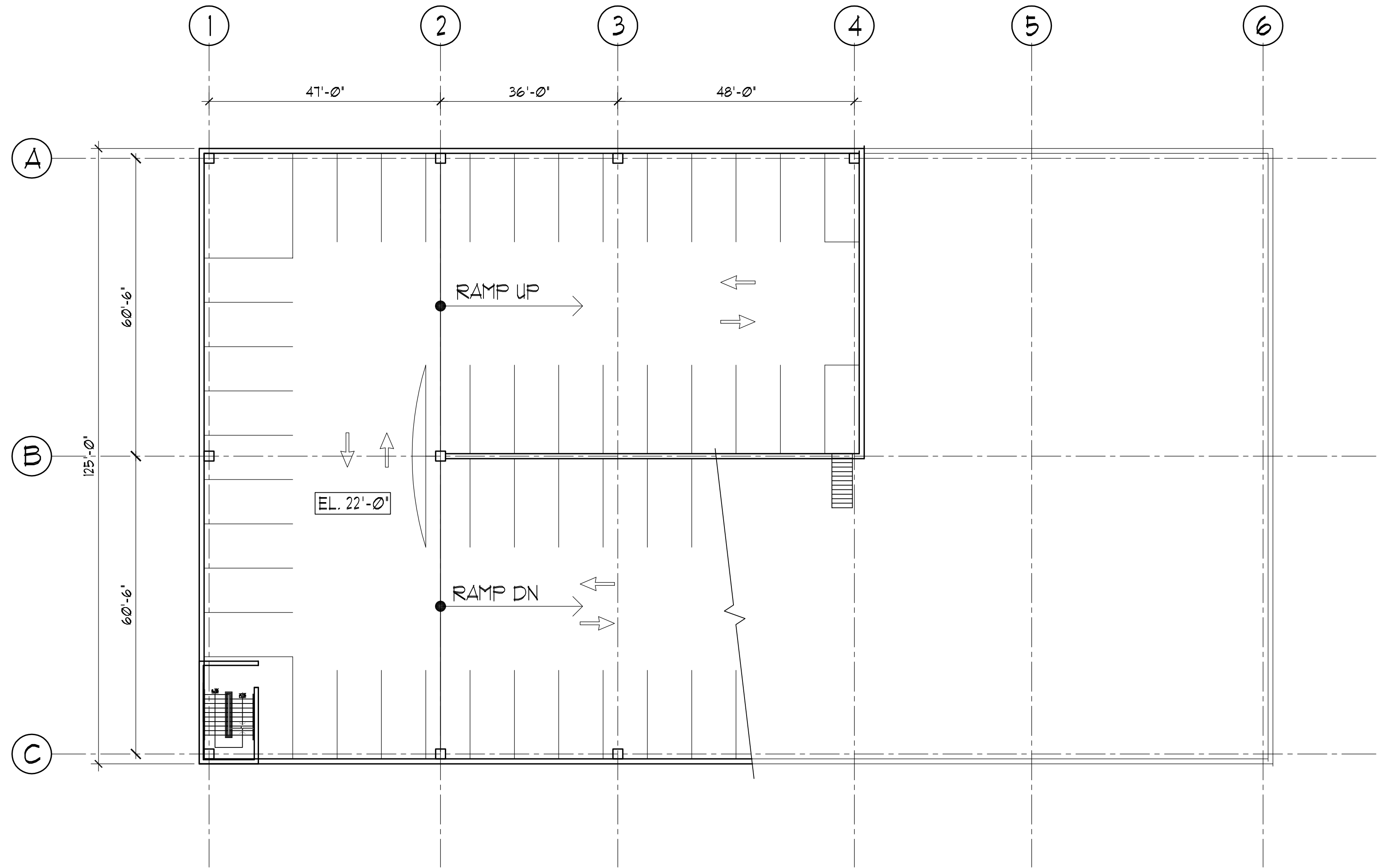
DRAWING NO.
A102

SCALE: 1/16" = 1'-0"

DATE: 4/12/2022

PROJECT NO. :

DES.	DRWN.	CHK'D.
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THIRD LEVEL PLAN
SCALE: 1/16" = 1'-0" (50 SPACES)

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NO.				DATE	DESCRIPTION

DRAWING TITLE:
THIRD LEVEL
PLAN

DRAWING NO.
A103

SCALE: 1/16" = 1'-0"

DATE: 4/12/2022

PROJECT NO :

DES.	DRWN.	CHK'D.
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Department of Public Works | 860.584.6125

MEMORANDUM

DATE: April 5, 2022

TO: Mayor Jeffrey Caggiano
Board of Public Works

FROM: Raymond A. Rogozinski, P.E., Director of Public Works

RE: DPW Fleet Division – Vehicle Maintenance

The Department of Public Works Fleet Division maintains DPW's vehicles and motor operated equipment for all of the Department's Divisions (Street, Solid Waste, Fleet, Engineering Administration & Building Maintenance). In addition, the DPW Fleet Division maintains vehicles for the Building Department, Bristol Burlington Health District, Library, HRA and Police Department. A summary of the vehicles/equipment serviced by DPW along with a list of DPW vehicles is attached.

The DPW Fleet Division labor force consist of 4 mechanics, 3 mechanic helpers, 1 parts technician and James Divirgilio the Division manager. Vehicle repairs are performed either "in house" directly by DPW Fleet staff or depending on the type and complexity of the repair are "sent out" to be repaired by an outside vendor. The Fleet Division has established a goal to increase the amount of repairs performed "in house" by DPW staff in recent years. As a result, as indicated in the attached chart vehicle service repair costs have decreased considerable from approximately \$390,000 in FY2015 and 2018 to a projected \$100,000 in 2022. To be fair the cost reduction is not solely a function of Fleet's goal to increase "in house" repairs; it is also a function of the number/type/condition (age) of vehicles serviced. Prior to 2019, DPW serviced WPC vehicles however WPC only operated 18 vehicles and DPW Fleet currently performs preventive maintenance to Police Department's 80 vehicles that was previously performed by outside vendors. DPW also reviewed the number of vehicles currently and previously under warranty and concluded the quantity of warranty work has not substantially changed the repaired costs. Repair cost have also decreased due to improved specification requirements, in particular vehicle specifications associated with automated rubbish trucks and dump trucks. I would say that DPW vehicles such as rubbish, bulk, 10 wheel dump and jet trucks are expensive and cost approximately \$350,000 to \$400,000 to purchase new. As a result, repair costs can be as high as (\$25,000- \$35,000) for a single repair. Therefore, the repair budget is subject to fluctuations.

In addition to the DPW Fleet vehicle service account, vehicle maintenance costs are also captured in vehicle parts accounts. An analysis of the parts accounts indicates that costs have varied, and the FY2023 budget includes an increase to support an increase in "in house" repair work. It should

also be noted that the Fleet Division changed the Department's tire specification that have also reduced the Department's tire cost from approximately \$120,000 to \$80,000.

The DPW Fleet Division has also benefited from the Police Department's transferring use of its surplus vehicles to DPW. The department obtained 8 surplus Police Department Vehicles for use by Engineering (6), Fleet (1) and Street (1) for Department use. Although the Police vehicles were used they were in newer/better condition than DPW's vehicles. As the BPW is aware the DPW is currently in process of acquiring five surplus State pickups which the Department will use for snow operations. The Department has also contacted the Water Department regarding its proposed auctioning of a 10 wheel dump truck. The Water Department has indicated that the truck is primarily used by DPW for snow operations and they have no/limited use for it. DPW has indicated interest in purchasing the truck from the Water Department; however an agreement on price has not been reached. DPW values the Water Department's dump truck at \$6,000 and the Water Department values the truck at \$16,000.

The Fleet Division's current challenges are indicated below:

1. Mechanic vacancies: Two of the Division's four mechanic positions were recently vacant due to a retirement and an employee moving out of state. One of the vacancies has been filled with an interior candidate, and the second position is currently being posted in accordance with City Personnel requirements. The mechanic position does require a CDL truck driver license which limits the potential applicant pool, however based on the type of repair work performed revisions to the job description requirements are not proposed. Training of Fleet Division staff as with all DPW Divisions is critical. There is some training that is provided through manufacturers' in-depth training that is provided on an individual basis and offers certifications. However, this training is costly (approx. \$3,000) therefore DPW creativity is required to optimize use of training funds.
2. Supply Chain: The Department has experienced supply chain shortage issues. However, to date they have been manageable and have not resulted in extend vehicle out of service times.
3. Rubbish Rear Packers: The DPW maintains a fleet of 8 rear packer "old style" rubbish trucks. They are used for Department Solid Waste special collections such as leaves, Christmas trees and bulk pickups. The Department typically converts an automated rubbish truck to a rear packer by replacing the body of an automatic rubbish truck. Therefore, the rear packer fleet is old and maintenance prone. The Department has established a practice to routinely operate the rears packers including rotating use of trucks to reduce truck repair down time. The Department has found that maintenance increases if trucks are not used on a regular basis.
4. Hybrid Trucks: The Department has experienced poor performance and high repair costs associated with hybrid trucks. The Department purchased "first generation" hybrid tree, dump, and rubbish trucks. DPW has replaced the dump and rubbish trucks and is currently having the hybrid transmission replaced in the tree truck at a cost a \$17,000. DPW does see benefits of the purchase of green passage vehicles, however with the recent/current acquisition of surplus vehicles from the Police Department and State, DPW does not anticipate a need for purchasing green vehicles unless it is related to City initiative. The most recent passage vehicles purchased by the Department was a 2019 Chevy Equinox that through the State bid cost the City \$18,000 to purchase. An equivalent green/electric vehicle would be \$35,000.
5. Washing Vehicles: Washing of vehicles is critical to vehicle maintenance. In addition, to maintaining vehicle bodies, washing limits corrosion of the undercarriage and brake lines. The DPW washing station consists of an area of the Street garage which drains to an oil/water/sediment chamber. It is equipped with a power washer, undercarriage cleaning system and ladder. However, cleaning vehicles is difficult. The primary difficulty with cleaning trucks is staff commitment. However, the DPW facilities renovated throughout the state, including the City of Waterbury, have been designed with a dedicated heated building



Department of Public Works | 860.584.6125

area for truck washing equipment with a powered undercarriage washing and cat walk system to improve washing. DPW is investigating replacing the deteriorated quasit hut storage building with a building that can serve as a storage area and also be equipped with a dedicated washing area.

As previously reported to the Board, the DPW will be procuring an asset management system for City Buildings as part of the City Hall renovation project. As part of the software review process the intent is to obtain an Asset Management System that can be expanded to support other DPW Division assets. Due to the DPW Fleet Division's existing file management system (file for each vehicle's maintenance records) the Fleet Division is ideally suited to transition to Asset Management. With that said it will require the Division to record and track staff labor allocated to each vehicle.

Feel free to contact me with any questions / concerns at 860-584-6125.

Fleet Maintenance Service List

- **DPW Street Div. Equipment.** 56 Pieces of Construction Equipment (not including hand tools, mowers and snow blowers etc)
- **DPW Street Div. Vehicles.** 43 Vehicles
- **DPW Solid Waste Div.** 26 Vehicles and 3 pieces of equipment
- **DPW Fleet Div.** 4 Vehicles and 2 pieces of equipment
- **DPW Engineering Dept.** 8 Vehicles
- **DPW Building Maint.** 4 Vehicles 2 pieces of equipment (not including hand tools, mowers and snow blowers etc)
- **BBH** 5 Vehicles
- **Building Dept.** 7 Vehicles
- **Library Dept.** 1 Vehicle
- **HRA** 3 Vehicles
- **Police** 80 Vehicles (oil changes and visual inspection only)

248 Total

					MOTOR VEHICLE AND EQUIPMENT LIST								
					RUN DATE	2/18/2021					*REVISED 7/19/2021	Mileage	Warranty
YEAR	FEMA TYPE	FEMA RESOURCE	FEMA COST CODE	VEH NO.	VEHICLE MAKE	TYPE OF VEHICLE	Vin NUMBER	REG NO.	DATE ACQD	PURCH PRICE			
DIVISION: ADMINISTRATION													
1	2022	SUV		8070 A-1	Chevrolet	SUV	2GNAXSEV2M6131192	2 BT		\$24,700	3,600	W	
2	2019	OTHER	Pickup	8801 A-2	CHEVROLET	1/2 TON PICK UP	1GCRYAEH4K2218221	226 BT	1/17/2019	\$29,500	3,306	W	
3	2007	OTHER	Road Sweeper	8071 A-3	GREEN MACHINE	MINI SWEEPER	611472	280 BT	4/10/2007	\$67,195			
4	2008	OTHER	Plow + Pickup Truck;	8452 +									
		Pickup Truck		8802	A-4	CHEVROLET SILVERADO	HD 3/4 TON PU	1GCHK39K38E161718	148 BT	2/7/2008	\$35,689	60,502	
5	2001	OTHER	Pickup	8801 A-5	CHEVROLET-SPORTSIDE	1/2 TON PICK UP	1GCEK14W41Z181797	189 BT	11/22/2000	\$20,100	87,263		

					MOTOR VEHICLE AND EQUIPMENT LIST	10/31/2019	*REVISED 7/19/2021					
YEAR	FEMA TYPE	FEMA RESOURCE	FEMA COST CODE	VEH NO.	VEHICLE MAKE	TYPE OF VEHICLE	SERIAL NUMBER	REG NO.	DATE ACQD	PURCH PRICE		
DIVISION: ENGINEERING												
6	2017	Auto	8070	E-1	CHEVROLET BOLT	4 DOOR SEDAN	1G1FW6S08H4172377	27 BT	7/24/2017	\$35,000	23,201	W
7	1998	SUV	8070	E-2	CHEVROLET	SUBURBAN	1GNCG26R6WJ367809	31 BT	1/13/1998	\$22,600	69,379	
8	2007	Auto	8070	E-3	CHEVROLET IMPALA	4 DOOR SEDAN	2G1W858K579216474	263 BT	11/8/2006	\$16,904	43,121	
9		Auto	8070	E-4	FORD TAURUS	4 DOOR SEDAN	1FAHP2M850G213555	50 BT	10/10/2021			
10		Auto	8070	E-5	FORD TAURUS	4 DOOR SEDAN	1FAHP2M86DG213550	32 BT	10/10/2021	PD		
11		SUV	8070	E-6	FORD EXPLORER	4 DOOR SUV	1FM5K8AR6GGD17418	7 BT	10/10/2021	PD		
11		SUV	8070	E-7	FORD TAURUS	4 DOOR SEDAN	1FAHP2MK8EG185702	267 BT	2014	PD		
12		Auto	8070	E-8	FORD TAURAS	4 DOOR SEDAN	1FAHP2MK6EG185696	30 BT	10/10/2021	PD		

MOTOR VEHICLE AND EQUIPMENT LIST												
RUN DATE												
10/31/2019												
*REVISED 7/19/2021												
YEAR	FEMA TYPE	FEMA RESOURCE	FEMA COST CODE	VEH NO.	VEHICLE MAKE	TYPE OF VEHICLE	SERIAL NUMBER	REG NO.	DATE ACQD	PURCH PRICE		
DIVISION: Building												
14	2019	SUV	8070	B-1	Chevrolet Equinox	SUV	2GNAXSEV2K6150497	264 BT	11/2/2018	\$26,000	5,140	W
			8070	B-2	For Escape	SUV	82216	244 BT			13,929	
15	2007	SUV	8070	B-3	FORD ESCAPE	SUV	6237	193 BT			72,695	
16	2014	SUV	8070	B-4	FORD ESCAPE	SUV	95469	188 BT			16,201	
17	2014	SUV	8070	B-5	FORD ESCAPE	SUV	95467	192 BT			24,885	
18	2014	SUV	8070	B-6	FORD ESCAPE	SUV	95468	191 BT			14,000	
			8070	B-7	Chevy. Equinox	SUV	2GNAXSEV6M6103010	193BT			200	W

MOTOR VEHICLE AND EQUIPMENT LIST											
RUN DATE											
10/31/2019											
*REVISED 7/19/2021											
YEAR	FEMA TYPE	FEMA RESOURCE	FEMA COST CODE	VEH NO.	VEHICLE MAKE	TYPE OF VEHICLE	SERIAL NUMBER	REG NO.	DATE ACQD	PURCH PRICE	
				8070 BBH1	FORD EXPLORER	SUV	1FM5K8AB8LGA56015	342 BT	2019		
				8070 BBH2	FORD ESCAPE	SEDAN	1FMCU9F64LUB14710	322 BT			
				8070 BBH3	FORD ESCAPE	SEDAN	1FMCU9F66LUB14711	246 BT			
				8070 BBH4	FORD ESCAPE	SEDAN	1FMCU9F6XLB14713	163 BT	2020		
				8070 BBH5	FORD ESCAPE	SEDAN	1FMCU9F68LUB14712	87 BT			

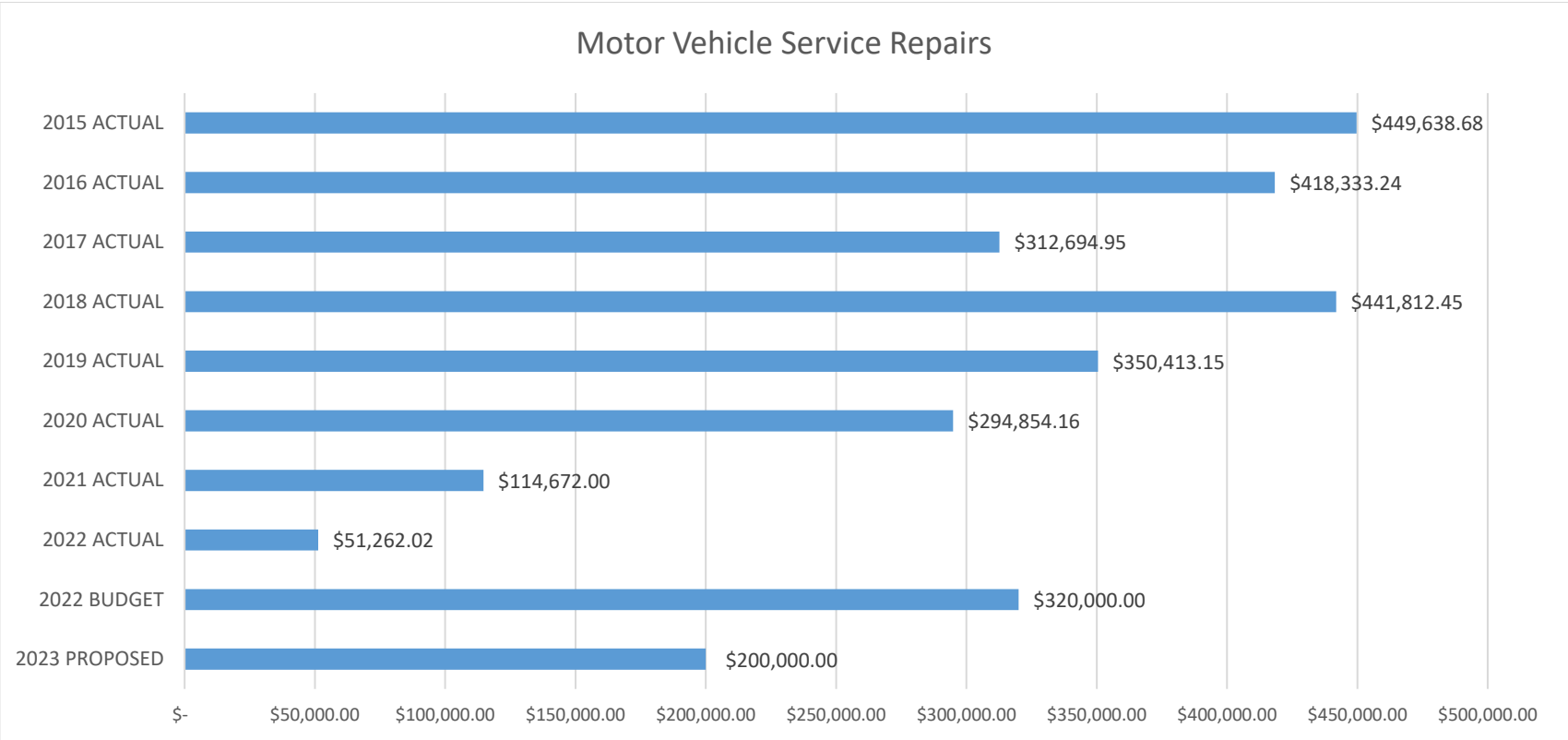
					MOTOR VEHICLE AND EQUIPMENT LIST							
					RUN DATE		10/31/2019				*REVISED 7/19/2021	
YEAR	FEMA TYPE	FEMA RESOURCE	FEMA COST CODE	VEH NO.	VEHICLE MAKE	TYPE OF VEHICLE	SERIAL NUMBER	REG NO.	DATE ACQD	PURCH PRICE		
DIVISION: Equipment Maintenance												
20												
21	1998	TYPE IV	Truck	G1	Ford Explorer Interceptor	SUV	1FM5K8AR2JGC19526	6 BT		From PD	81,000	
22	2007	TYPE IV	Truck	8802 G-2	Ford	F450 SERVICE TRK MECHANIC	1FDXF46P67EA79045	74BT	10/11/2019	From B.W.D.	86,784	
23	1998	TYPE IV	Truck	8802 G-3	RAM 5500	TRK/CRANE/PALMOR	3C7WRNFL8HG653717	82 BT	7/26/2017	\$83,000	6,894	W
24	1996	TYPE III	Truck	8071 GG-3	GMC	1 TON SERVICE TRK	1GDIC34ROTE535516	57 BT	6/7/1996	\$23,971	70,078	
25	2008	OTHER	Truck	8071 G-4	FORD RANGER PICK UP	PICKUP	1FTLR4FE2BPA83082	53 BT		FROM PD	137,000	
26	2015	OTHER	Scissor Lift	G-5	JLG 2602	LIFT				\$16,000		
27a	2015	OTHER	Forklift	G-6	Hyundai	Forklift	2EU7852		7/1/2015	\$52,900		

					MOTOR VEHICLE AND EQUIPMENT LIST								
					RUN DATE		10/31/2019				*REVISED 7/19/2021		
FEMA		FEMA	FEMA	VEH	VEHICLE	TYPE OF		REG	DATE	PURCH			
YEAR	TYPE	RESOURCE	CODE	NO.	MAKE	VEHICLE	SERIAL NUMBER	NO.	ACQD	PRICE			
2002		SUV		PC-1	Jeep Liberty	SUV	1J4GL48K92W283009		1/6/2021	\$22,572			
DIVISION: STREETS													
27	2018	OTHER	Pickup	8452	S-1	CHEVY SILVERADO 3500HD	1 TON CREW CAB SHORT BED	1GC4KZCY8JF151622	93BT	11/10/2017	\$58,000	12,000	W
28	2002	OTHER	SUV	8070	S-2	CHEVY SILVERADO 3500HD	1 TON CREW CAB SHORT BED	1GC4YSE75NF186327		11/24/2021	\$68,000		W
29	2005	OTHER	Plow + Pickup Truck; Pickup Truck	8452 + 8802	GS-3	GMC 2500	3/4 TON EXT CAB / FLAT BED	1GTHK29235E179383	51 BT	12/7/2004	\$30,712	165,334	
30	2018	OTHER	Plow + Pickup Truck; Pickup Truck	8452 + 8802	S-3	CHEVY SILVERADO 3500 HD	1 TON CREW CAB LONG BED	1GC4KYCY3JF151621	61 BT	11/8/2017	\$56,000	27,899	W
31	2012	OTHER	Plow + Pickup Truck; Pickup Truck	8452 + 8802	S-4	FORD F-350	3/4 TON EXT CAB / LIFT GATE	1FT8W53B60CEA48741	47 BT	12/12/2011	\$35,275	98,000	
32	2008	OTHER	Plow + Pickup Truck; Pickup Truck	8452 + 8802	GS-5	CHEVROLET SILVERADO	HD3500 PICK UP/ FLAT BED / LIFT GATE / DUMP BODY	1GCHK33K18F182036	54 BT	2/7/2008	\$36,773	105,978	

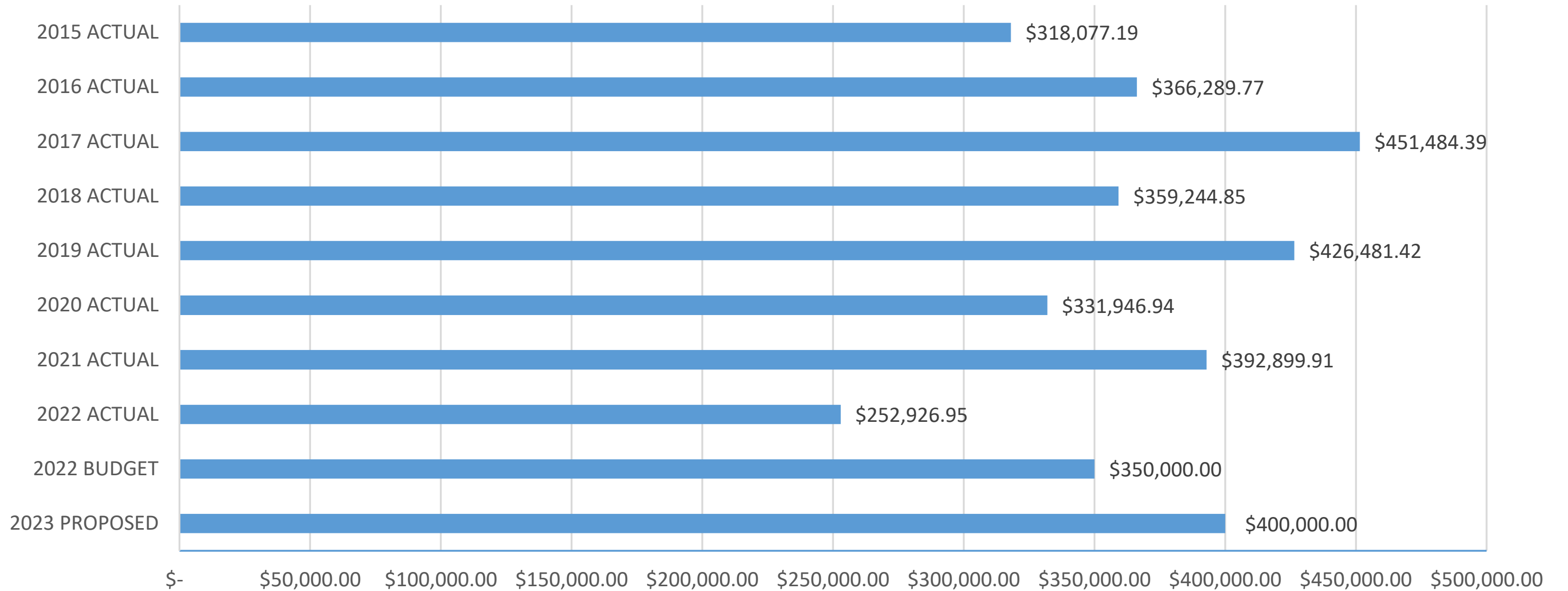
33	2015	OTHER	Pickup	8801	S-5	CHEVY SILVERADO 2500HD	3/4 TON CREW CAB LONG BED	1GC2KUEG4FZ502157	33 BT		\$35,000	32,500	
34	2013		Box Truck	8452 + 8802	S-6	INTERNATIONAL 4300 wbq 4X2	BOX TRUCK & FUEL TRUCK	1HTMMAAL6DH487137	320 BT	3/28/2013	\$121,109	79,138	
35	2009	OTHER	Plow + Pickup Truck; Pickup Truck	8452 + 8805	GS-7	CHEVROLET 3500	HD3500 PICK UP	1GCHK73K19F132536	294 BT	3/12/2009	\$39,839	122,595	
36	2020		3/4 Pickup Plow + Truck;	8801	S-7	Chevrolet 2500HD	3/4 CREW CAB SHORT BED	1GC4YNEY2LF203110	36BT		\$52,000	2,022	W
37	2006	TYPE III TYPE IV	Truck On-Road Dump Truck	8452 + 8805	GS-8	FORD 550	MASON DUMP\FLOW\SANDER	1FDAF57P26E833157	100 BT	10/24/2005	\$49,351	108,977	
38	2019	TYPE III TYPE IV	Truck On-Road Dump Truck	8452 + 8805	S-8	Chevrolet 5500 HD	MASON DUMP\FLOW\SANDER	1HTKJPVK3KH296759	310 BT	10/1/2019	\$83,000	5,168	W
39	2010	TYPE III TYPE IV	Truck On-Road Dump Truck	8453 + 8720	S-9	FORD F550	MASON DUMP\FLOW	1FDA0X5HT3 BEA52702	300 BT	8/17/2010	\$53,459	64,833	
38	2010	TYPE III TYPE II	Truck On-Road Dump Truck	8453 + 8721	S-10	Chevrolet 3500HD	MASON DUMP	1GB3YSE79MF227511	293 BT	7/29/2021	\$57,300	211	W
39	2009	TYPE I TYPE II	Truck On-Road Dump Truck	8453 + 8721	S-11	MACK MODEL GU 713 / LAROCHELLE	10 WHEEL 4 SEASON DUMP	1M2AX04C49M005807	11 BT	12/12/2008	\$172,522	83,792	
40	2009	TYPE I TYPE II	Truck On-Road Dump Truck	8720	S-12	MACK MODEL GU 713 / NOR'EASTER	10 WHEEL 4 SEASON DUMP CHIPPER BODY 10 TON	1M2AX04C49M005806	12 BT	2/12/2008	\$172,522	76,000	
41	1998	TYPE II	Truck	8453 + 8720	GS-12	FORD LOUISVILLE FORD LOUISVILLE [dedicated sand truck]	DUMP / 6 WHEELER	1FDYN80E9WYA41510	60 BT	2/26/1998	\$84,176	93,322	
42	1998	TYPE III	Plow + Truck	8453 + 8720	GS-13	MACK MODEL GR 42F \ DURACCLASS	dedicated sand truck DURACCLASS BODY 6 WHEEL DUMP	1FDYN80E0WVA41511	13 BT	2/26/1998	\$84,176	81,794	
43	2019	TYPE III	Plow + Truck	8453 + 8721	S-13			1M2GR3AC5KM001022	58 BT	4/25/2018	\$205,000	5,291	W
44	2012	TYPE I TYPE II	Truck On-Road Dump Truck	8453 + 8720	S-14	INTERNATIONAL/STAINLESS STEEL BODY	10 WHEEL 4 SEASON DUMP	1HTGSSJT8CJ660270	20BT	12/5/2011	\$180,000	58,956	
46	2016	TYPE I TYPE II	Truck On-Road Dump Truck	8453 + 8720	S-15	MACK MODEL GU 712 / DURACCLASS	DURACCLASS BODY 6 WHEEL DUMP	1M2AX08C1FM002254	287 BT	11/8/2016	\$184,725	20,701	
47	2019	TYPE III	Plow + Truck	8453 + 8721	S-16	MACK MODEL GR 42F \ DURACCLASS	DURACCLASS BODY 6 WHEEL DUMP	1M2GR3AC7KM001023	16BT	6/7/2018	\$198,790	5,959	W
48	2016	TYPE I TYPE II	Truck On-Road Dump Truck	8453 + 8721	S-17	MACK MODEL GU712 / DURACCLASS	DURACCLASS BODY 6 WHEEL DUMP	1M2AX06C2HM002804	17 BT	11/8/2016	\$186,000	12,936	
49	2020	TYPE I TYPE II	Truck On-Road Dump Truck	8453 + 8720	S-18	MACK MODEL GU 713 \ DURACCLASS	WHEEL DUMP / HENDERSON PLOWS	1M2GR3GCXMM020062	18 BT	8/24/2001	\$126,029		W
50	2005	TYPE III TYPE II	Truck On-Road Dump Truck	8453 + 8720	S-19	MACK MODEL CV712 \ POLY TANK	DEDICATED TANK TRUCK / 1000 GALLONS	1M2AG08C75MOO1088	19 BT	12/2/2004	\$128,500	75,167	
51	2010	TYPE III TYPE II	Truck On-Road Dump Truck	8453 + 8720	S-20	MACK MODEL GU 712 / LAROCHELLE	LAROCHELLE BODY /10 TON MACK DUMP / 6 WHEELER	1FD4K9DHRUA41258	28 BT	5/10/1994	\$76,486	40,852	
52	2006	TYPE I TYPE II	Truck On-Road Dump Truck	8453 + 8721	S-21	MACK MODEL CV 713 \ NOR'EASTER	10 TN DUMP 4 SEASON BODY, Braun PLOW	1M2AG11C76M040488	21 BT	11/18/2005	\$152,500	105,433	
53	2008	TYPE I TYPE II	Truck On-Road Dump Truck	8453 + 8721	S-22	MACK MODEL CV 713 \ NOR'EASTER	NOR'EASTER BODY 10 WHEEL DUMP	1M2AT04C57M006181	22 BT	6/14/2007	\$164,905	99,585	
54	2019	TYPE I TYPE II	Truck On-Road Dump Truck	8487 + 8702	S-23	MACK MODEL GU 713 \ DURACCLASS	DURACCLASS BODY 10 WHEEL DUMP / HENDERSON PLOWS	1M2GR3GC9KM006862	23 BT	4/24/2019		7,615	W
55	2013	TYPE II	Aerial Lift - Truck Mounted w/chipper box - HYBRID	8487 + 8702	S-24	INTERNATIONAL/TEREX HIGH RANGER - HYBRID	AERIAL LIFT BUCKET TRK	1HTMMAAN5DH340101	328 BT	1/26/2013	\$199,723	43,502	
56	1998	TYPE II	Aerial Lift - Truck Mounted	8453 + 8721	GS-24	FORD F800	AERIAL LIFT BUCKET TRK	1FDXF80C9WVA34080	24 BT	10/6/1998	\$71,286	73,445	
57	2003	TYPE I TYPE II	Truck On-Road Dump Truck	8453 + 8721	S-25	MACK MODEL RD 690S \ NOR'EASTER	NOR'EASTER BODY 10 WHEEL DUMP / HENKE PLOWS	1M2P264C33M034247	25 BT	8/6/2002	\$131,500	99,703	
58	2006	TYPE I TYPE II	Truck On-Road Dump Truck	8453 + 8721	GS-26	MACK MODEL CV 713 \TENCO	10 WHEEL DUMP TRUCK	1M2AG11C16M0434118	260 BT	2/8/2006	\$152,500	100,427	
59	2018	TYPE I TYPE II	Truck On-Road Dump Truck	8453 + 8721	S-26	MACK MODEL GU 713 \ DURACCLASS	10 WHEEL DUMP TRUCK	1M2AX09C7JM038067	242 BT	8/28/2017	\$215,000	13,163	W
60	1992		Dump Truck	8453 + 8721	S-27	KENWORTH (FORMERLY GR15)	TRI-AXLE/ NOR'EASTER	1WKDL5DY3NJ576880	62 BT	1992	\$65,949	51,452	
61	2000	TYPE I TYPE II	Truck On-Road Dump Truck	8453 + 8721	GS-28	FREIGHTLINER FL80	10 TON DUMP TRUCK	1FV6JJBXYH875548	38 BT	7/25/2000	\$91,631	70,940	
61	2000	TYPE I TYPE II	Truck On-Road Dump Truck	8453 + 8721	S-28	MACK MODEL GU712 / DURACCLASS	DURACCLASS BODY 6 WHEEL 10 YD. DUMP		16 BT				
62	2000	TYPE I TYPE II	Truck		S-29	FREIGHTLINER FL80	10 TON DUMP TRUCK	1FV6JJB81YH875579	37 BT	7/25/2000	\$91,631	80,270	
63	1985		Truck		S-30	MACK MODEL R688ST	TANDEM TRACTOR	1M2N18849FAD110939	39 BT	7/11/1995	\$31,290	372,218	
			Plow + Truck;		S-31		6 Wheeled Dump Truck	3HARLTZR5ML348798	80BT	5/4/2021	\$199,010	105	
			Truck On-Road Dump Truck		S-32		10 Wheeled Dump Truck	3HAEMTZT6ML348737	90BT	5/4/2021	\$218,642.73	100	
			Plow + Truck;		S-33	Chevy 5500 mason dump	6 WHEELED MASON DUMP			9/12/2021	\$75,000		W

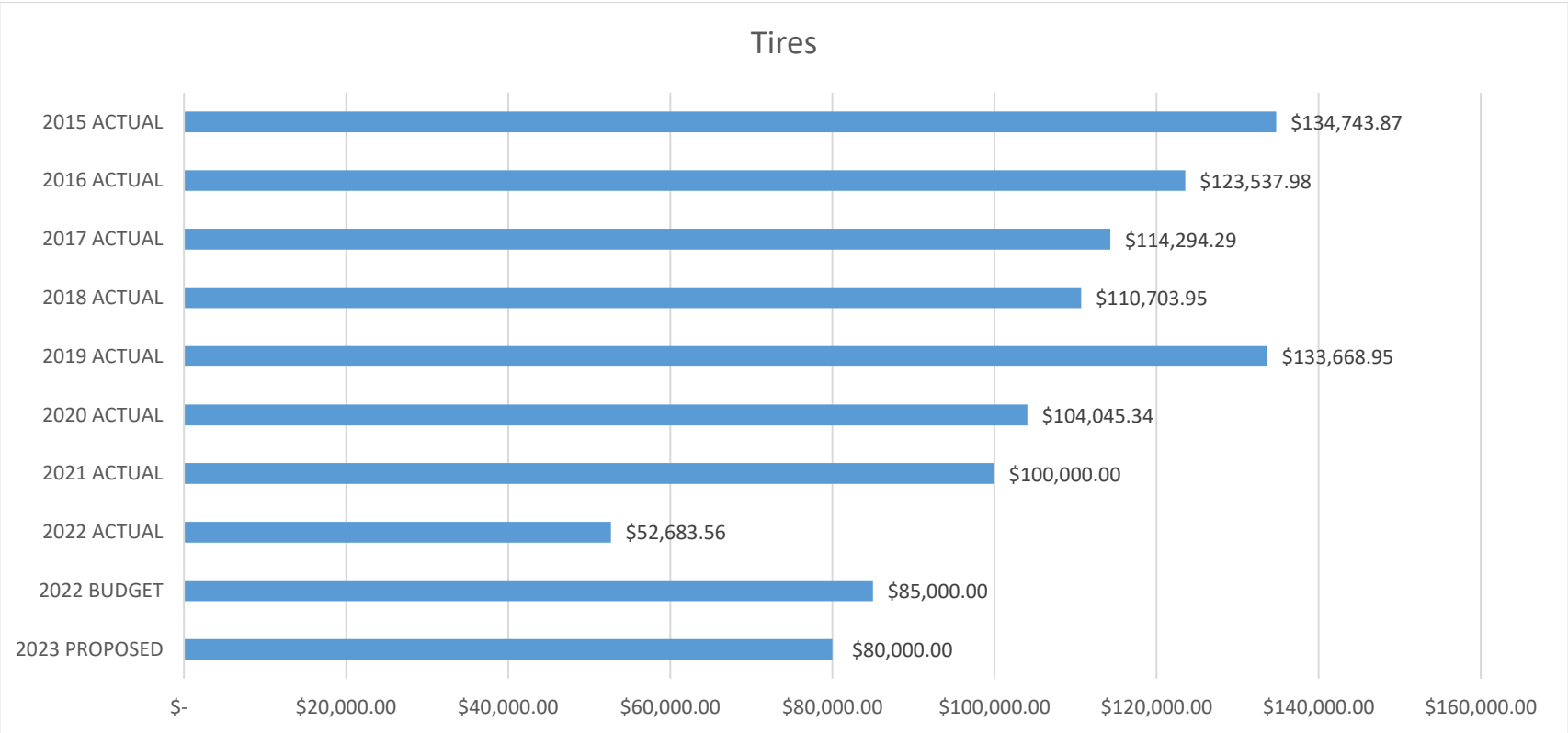
			Plow + Truck; Truck On-Road Dump Truck		S-34	CHEVY 3500 MASON DUMP RUN DATE	6 WHEELIE MASON DUMP 10/31/2019		294 BT	1/5/2022 *REVISED 7/19/2021	\$60,000			W
	YEAR	FEMA TYPE	FEMA RESOURCE	FEMA COST CODE	VEH NO.	VEHICLE MAKE	TYPE OF VEHICLE	SERIAL NUMBER	REG NO.	DATE ACQD	PURCH PRICE			
	DIVISION: Equipment													
64	1986	TYPE II	Plow + Grader; Grader		8394	C-1	CATERPILLAR	MOTOR GRADER	96U5983	75 BT	3/13/1997	\$75,000		
65	2000	TYPE IV	Wheel Loader		8394	C-2	VOLVO	4 YRD PAYLOADER	L110H VCEL110HV05631038	205 BT	11/11/2015	\$231,398		
66	2000	TYPE IV	Wheel Loader		8394	GC-2	VOLVO	3 1/2 YRD PAYLOADER	L90 CV63572	81 BT	5/25/2000	\$125,174		
67	2007	TYPE IV	Wheel Loader		8393	C-3	VOLVO	3 1/2 CY.FRONT LOADER	L90 EV67925	278 BT	2/20/2007	\$146,978		
68	1996	TYPE IV	Wheel Loader		8561	C-4	VOLVO	FORNT END LOADER	L70 CY12722	83 BT	9/18/1996	\$94,578		
69	1968	TYPE III	Snow Blower (Chassis Mounted)		8572	C-5	WALTERS	SNOW BLOWER	695401 MDL BPB	29 BT	6/27/1969	\$36,951		
70	2011	TYPE III	Wheel Loader Backhoe		8158	C-6	VOLVO	BACKHOE	20345	306 BT	8/10/2011	\$121,879		
71	2007	TYPE I	Road Sweeper		8157	C-7	ELGIN BROOM BEAR	STREET SWEEPER	1FVACXD0C06HV58728	277 BT	10/31/2006	\$159,997	25,106	
72	1999	TYPE III	Roadside Mower		8157	C-8	JOHN DEERE / TIGER MOWER	Mower Tractor	1LV5100MLGG400339	14 BT	7/28/2016	\$131,393		
73	2019	TYPE III	Road Sweeper			C-9	ELGIN / PELICAN	STREET SWEEPER		79 BT	10/23/2018	\$225,000		50
74	1997	TYPE III	Sprayer / Trailer			C-10	Northern Tool	Sprayer / Trailer	00399H MDD10-10-1	78 BT		\$2,500		
75	1989		Tilt Trailer			C-11	Big Tex	Tilt trailer		207 BT	2/14/2022	\$9,999		
76	1998		Curb Machine			C-12	MILLER CURBER MC 550	CURBING MACHINE			8/9/1998			
77	1998		Curb Machine		8252	GC-12	MILLER CURBER	CURBING MACHINE	Serial J12119		9/9/1996	\$5,588		
78	1994	TYPE IV	Track Dozer			C-13	CATERPILLAR	BULLDOZER	9DL00577		4/14/1998	\$65,000		
79	2000		Roller			C-14	DYNAPAC	VIBRATORY ROLLER	CC142 SER 60212027		5/10/2000	\$41,867		
80	1996		Landscape Mower			C-15	John Deere Model 1575	John Deere Terrain Cut w/ Cab Mower Tractor Model	1TC1575VPHS031249	228 BT	11/28/2017	\$44,647		
81	2001	TYPE III	Roadside Mower		8157	GC-16	JOHN DEERE / TIGER MOWER	6310	L06310S306450	76-BT	9/5/2001	\$75,747		
82	1994	TYPE III	Loader, Skid Steer		8540	C-17	VOLVO SKD.STR.LDR - TRACK	LOADER	GE0125TVKH2429384	224 BT	2/9/2017	\$90,000		
83	1994	TYPE III	Loader, Skid Steer		8540	GC-17	THOMAS SKD.STR.LDR	LOADER	T1336291	85 BT	12/16/1994	\$16,458		
83	1997	TYPE III	Infrared Heater		8572	C-18	HEAT DESIGN UNIT	Asphalt Heater			10/23/2017	\$55,498		
84	1997	TYPE III	Wheel Loader Backhoe			GC-18	JCB BACKHOE	BACKHOE	SLP214FCVE0466380	84 BT	12/1/1997	\$79,305		
85	2017		Chipper			C-19	Morbark M15R	WOOD CHIPPER	25698	67-BT	12/1/2016	\$76,000		
86	1993		Chipper			GC-19	Morbark	WOOD CHIPPER	17-1452	211-BT	2/8/1993			
87	2002		Wood Stumper			C-20	CARLTON 7500	STUMPER	1167226	213 BT	12/21/2001	\$25,750		
88														
89	1998		Roller			C-22	STOW	1 TON ROLLER	9622183		10/29/1998	\$4,995		
90	1998					C-23	CROSS COUNTRY	1 1/2 TON TRAILER	431FS0817W2000443	208 BT	10/29/1998	\$1,230		
91	1996					C-24	HUDSON	5 TON TRAILER	10HH5E16XT1001495	194 BT	6/17/1996	\$3,049		
92	1985	TYPE I	Trailer, Gooseneck Tractor			C-25	ROGERS	35 TON LOW BOY	1RBH40209FAR20369	196 BT	4/5/1997	\$12,000		
93	1987	TYPE I	Asphalt Hot Box			C-26	FALCON	Hot Box	1F9P21526HM339149	218 BT	5/15/2017			
94	2003					C-27	CONCORD	TAILGATE CONVEYER			4/22/2003	\$8,957		
95	1998		Pave Machine			C-28	LEEBOY PAVER	PAVER	1445C		9/28/1998	\$59,432		
96	1999		Chipper			C-29	BANDIT CHIPPER	WOOD CHIPPER	14701	216 BT	8/25/1999	\$23,230		
97			Trailer			C-30	22 DODJ TRAILER	Trailer						
98						C-31	JD Backhoe 410L	Backhoe	1T0410LXHMF393709	26BT	2/11/2021	\$148,000		
99	2006	TYPE I	Road Sweeper			C-32	ELGIN	4 WHEEL SWEEPER	ELGIN BROOM BEAR	210 BT	10/30/2001	\$124,419	32,627	
100	2005					C-33	HIWAY	TAILGATE CONVEYER						
101	2006		Screener			C-34	EXTECT S-4	LOAM	10068		11/6/2006	\$165,000		
102					8158	C-35	HOMEMADE	SCREENING PLANT	TRAILER	198 BT		\$0		
103	2006	TYPE I	Road Sweeper			C-36	ELGIN	SHOP MADE TRAILER						
104	1987	TYPE I	Batch Plant			C-37	Bagela Batch Plant	4 WHEEL SWEEPER	ELGIN BROOM BEAR	269 BT	11/18/2006	\$159,997	29,711	
105	1987	TYPE I	Track Loader		8282	C-38	TORO Track Loader	Asphalt Plant	W09BA7202GKB13310	65 BT	11/22/2016	\$131,925		
106	2004	TYPE III	Hydraulic Excavator			C-39	VOLVO	Walk Behind Loader	270000147		2/13/2007	\$19,000		
107	2007					C-40	HERCULES 8.5 WIDE	EXCAVATOR	EC160BLC SER 10439		4/30/2007	\$65,500		
							MOTOR VEHICLE AND EQUIPMENT LIST RUN DATE	LANDSCAPE TRAILER	5HABE16257N00600	281 BT	4/18/2007	\$6,036		
108	2008		Vac Machine			C-41	INTERNATIONAL/TEREX HIGH RANGER - HYBRID	IH Vac-Con	1HTWPAZT108J667796	270 BT	1/29/2008	\$291,521	47,479	
109	2009		Litter Machine	8553 + loader		C-42	TENNENT	LITTER VAC	4300 3043		3/27/2009	\$36,370		
110	2009	TYPE I	Snow Blower (Loader Mounted)	8553 + loader		C-43	SNOWCRETE	SNOWBLOWER	C8824909		3/19/2009	\$54,443		
111	2011	TYPE I	Snow Blower (Loader Mounted)			C-44	SNOWCRETE	SNOWBLOWER	C8827711		1/3/2012	\$54,443		
112	1971		Bombardier			C-45	BOMBARDIER	SIDEWALK PLOW		143-BT	7/1/2019	From BOE		
112	2012		Scag Mower			C-46	SCAG	MOWER	G5600137					
113	2013		Bombardier			C-47	BOMBARDIER	SIDEWALK PLOW		150-BT	7/1/2019	From BOE		
							MOTOR VEHICLE AND EQUIPMENT LIST RUN DATE							
				FEMA COST CODE	VEH NO.	VEHICLE MAKE	TYPE OF VEHICLE	SERIAL NUMBER	REG NO.	DATE ACQD	PURCH PRICE			
	DIVISION: SOLID WASTE													
114	2014	OTHER	Pickup		8801	R-1	CHEVROLET-SILVERADO	1/2 TON PICK UP	1GCVKPEH8E2217743	73 BT	8/8/2014	\$29,000	34,171	
116	2019	OTHER	Roll Off		8396	R-3	MACK MODEL / ALC BODY	ROLL OFF	1M2GR4GCLLM010623	220 BT	4/24/2019	\$204,000	10,300	W
117	2003	TYPE I	Wheel Loader			R-4	JOHN DEERE	FRONT END LOADER - 6 CY	824J DW824JX587103	227 BT	3/26/2003			
118	2014		Automated Truck			R-5	PETERBILT/LABRIE	AUTOMATED SIDELOADER	3BP2L70XZEF238817	235 BT	8/2/2013	\$276,430	45,614	
119						R-6	PETERBILT/LABRIE	AUTOMATED SIDELOADER	3BPDLK0X9MF111428	303BT	6/9/2021	\$289,200.00	940	W
120	2014		Automated Truck			R-7	LOADMASTER	AUTOMATED SIDELOADER	11F238937 / Labrie ASL-33	L1 147 BT	2/18/2014	\$240,166	43,053	
121	2014		Automated Truck			R-8								

122	2015	Automated Truck	R-9	320 PETERBILT/ 33 YD. LABRIE	AUTOMATED SIDELOADER	1ndzI00x35d715892	222 BT	9/20/2014	\$285,000	53,501	
123	2020	Automated Truck	R10	520 PETERBILT/ 33 YD. LABRIE	AUTOMATED SIDELOADER	3BPDLK0X4LF109536	302 BT	6/14/2020	\$285,000		W
125	2017	Automated Truck	R-11	PETERBILT 320 /LABRIE PETERBILT 320 \LEACH REAR	AUTOMATED SIDELOADER	0HF175138 / Labrie 3BPZL70XC	214 BT	4/28/2017	\$263,000	28,528	W
126	2011	Automated Truck	R-12	LOADER YD.	REAR LOADER	3BPZL00X88F122864	305 BT	5/17/2011	\$232,983	55,624	
127	2005	Bulk Truck	R-13	INTERNATIONAL	BULK DUMP TRUCK	1HTWCAAR45J003993	88 BT	12/27/2004	\$163,000	127,640	
128	2019	Automated Alley Truck	R-14	Peterbilt 520/ Labrie	20 CY. AUTOMATED SIDELOADER	3BPDH78X9KF106407	89-BT	6/14/2019	\$275,540	9,287	W
129	2020	Automated Truck	R-15	520 PETERBILT/ 33 YD. LABRIE	AUTOMATED SIDELOADER	3BPDLK0X6LF109537	15 BT	6/14/2020	\$285,000		W
130	2012	Automated Truck	R-16	PETERBILT 320 \LABRIE 33 YD	AUTOMATED SIDELOADER	3BPZL70X9CF164146	312 BT	3/9/2012	\$243,089	67,641	
131	1994	Rear Loader Truck	GR-16	KENWORTH - LEACH	25 CY.RUBB.REAR PACKER	2NKDL50X8RM636554	63 BT	6/21/1994	\$95,436	99,426	
132	2013	Automated Truck	R-17	PETERBILT 320 \ MCNEILUS 31 YD	AUTOMATED SIDELOADER	3BPZL70X9DF211435	282 BT	6/5/2013	\$265,816	40,938	
133	2018	Automated Truck	R-18	PETERBILT 520 \ LABRIE 33 YD	AUTOMATED SIDELOADER	3BPDL70XXJF162140	52 BT	4/4/2018	\$285,000	23,609	W
134	2008		R-19								
135			R-20								
136	2000	Rear Loader Truck	R-21	MACK LEACH	25 CY.RUBB.REAR PACKER	1M2P296CSYM053016	68 BT	3/24/2000	\$107,596	89,876	
137	1988	Rear Loader Truck	R-22	KENWORTH	25 CY.RUBB.REAR PACKER	2NKDL50X1JM508533	69 BT	3/15/1988	\$133,171	99,124	
138	2018	Automated Truck	R-23	PETERBILT 520 \ LABRIE 33 YD	AUTOMATED SIDELOADER	3BPZL70X4GF107424	86 BT	11/1/2015	\$285,000	28,782	
139	2000	Roll Off	R-24	MACK / ALC	Roll Off	1M2P296C7YM053017	71 BT	5/25/2000	\$77,564	101,204	
140	1997	Rear Loader Truck	R-25	OSHKOSH/LEACH	25 CY.RUBB.REAR PACKER	10TCGH816VS062894	72 BT	7/9/1997	\$140,989	89,384	
141			R-26								
142	2015	Automated Truck	R-27	PETERBILT 320 \ LABRIE 33 YD	AUTOMATED SIDELOADER	3BPZL70XOFF290397	248 BT	9/20/2014	\$285,000	47,155	
143	2011	T.S. Mower	R-29	Terratrac Aebi TT270	SLOPE MOWER	18005	34 BT	7/20/2011	\$169,090		
144	1998	T.S. Mower	GR-29	POWER TRAC	SLOPE MOWER	12518	209 BT	9/1/1998	\$123,040		
145	2004	Rear Loader Truck	GR-34	PETERBILT 320 / LEACH	29 CY.RUBB.REAR PACKER	1NPZLT0X85D715632	254 BT	7/23/2004	\$170,828	75,603	
146	2004	Rear Loader Truck	GR-35	PETERBILT 320 / LEACH	29 CY.RUBB.REAR PACKER	1ND-ZLOOX-1-5D715891	261 BT	12/16/2004	\$160,869	76,491	
147	2004	Rear Loader Truck	GR-36	PETERBILT 320 / LEACH	29 CY.RUBB.REAR PACKER	1ND-ZLOOX-3-5D715892	262 BT	12/16/2004	\$164,359	77,154	
149	2007	Automated Truck	GR-39	AUTOCAR\ 33 YD. LABRIE	33 CY AUTOMATED SIDELOADER	5VCHC68E27H204108	279 BT	4/2/2007	\$224,569	38,338	
150	2008	Automated Truck	GR-40	AUTOCAR\ 33 YD. LABRIE	33 CY AUTOMATED SIDELOADER	5VCHC6KE58H207781	292 BT	10/16/2008	\$264,878	83,411	



Motor Vehicle Parts







Department of Public Works | 860.584.6125

MEMORANDUM

DATE: April 8, 2022

TO: Mayor Jeffrey Caggiano
Board of Public Works

FROM: Raymond A. Rogozinski, P.E., Director of Public Works

RE: DPW – Winter De-Icier / Anti Icier Salt Brine Processing Equipment.

The City of Bristol snow operations currently consist primarily of the application of granular/pellet salt and liquid magnesium chloride. DPW utilizes approximately 6000 tons (\$68.85/tons) of salt and 19,600 gallons (\$1.24/gal) of liquid magnesium chloride on a yearly basis. Di-icing and anti-icing agents are applied only by DPW personnel. City contractors are not equipped to apply salt or magnesium chloride. Each DPW six wheel and ten wheel dump trucks are equipped to apply treated (molasses to prevent road bounce) salt and liquid magnesium chloride. DPW mason dump trucks are equipped to apply road salt and the Department's pickups are limited to plowing.

Due to environmental reason the Department does not apply road sand and only salt is applied during actual storm events. Liquid magnesium chloride is applied prior to the storms and has been used by DPW for approximately 18 years (2004).

The Department is currently not equipped to apply salt brine treatment to City roads. The advantages to liquid magnesium chloride is that it can be applied at lower road surface temperatures (0 degrees) and is more environmentally friendly when applied City wide. With that said, the cost of magnesium chloride is higher (2-3 times) than salt brine and is therefore applied by DPW in a somewhat sparing manner. The intent of expanding the Department's de-icing ability by obtaining salt brine processing equipment is provide DPW with an additional anti-icing agent that can be applied more often as a precautionary measure due to its low cost of application.

Salt brine processing equipment consists of a salt & water mixing/pump chamber and a holding tank for the salt brine (23.3% salt solution). In addition to the referenced equipment, a new larger 1.5 inch water line needs to be installed to provide sufficient water along with a chamber to prevent



Department of Public Works | 860.584.6125

freezing of the water meter. The salt brine equipment will be installed adjacent to the existing liquid magnesium chloride holding/distribution system in order to interconnect the salt brine and magnesium chloride systems via a mixing pump. Pumping magnesium chloride into the salt brine solution lowers the allowable salt brine application temperature to 15 degrees.

The DPW will maintain the existing liquid magnesium chloride system and sees salt brine as a supplemental anti icing agent. Trucks applying salt brine and liquid magnesium chloride are typically set up to apply either salt brine or liquid magnesium. Trucks do not switch from applying one or the other, therefore DPW trucks currently equipped to apply magnesium chloride will not apply salt brine. However, the Department does currently have a truck with a large 1000 gal tank that the Department will use for salt brine application. The advantage of salt brine is the low cost and the Department intends to apply salt brine when there is a potential for freezing road conditions (moister with dropping air temperatures). Under the anticipated conditions, salt brine will be applied to the higher level / hilly sections of the City during the day in anticipation of freezing conditions during the night. The application of salt brine is not advisable for below 15-20 degrees, however it is anticipated that brine applications will decrease icing road conditions.

In order to proceed with procuring the salt brine processing equipment and the installation of a new (larger) water later installation the DPW request the following BPW action:

Authorize the DPW to request Board of Finance approval of an account transfer from DPW Snow Service Contract Services (0013018-544410) to a Salt Brine Equipment account in the amount of \$55,000.

Surplus funds are currently available in the DPW snow contract service account due to the limited use of snow contractors this winter. Although we did have the typical number of storms (12) this year the snow fall was in general less than 3 inches per event. It should also be noted that DPW did receive funding \$55,000 to purchase and install new double walled tanks to hold magnesium chloride, however due to supply chain issue the cost increased and availability is limited. Therefore, DPW will be keeping the tanks at the DPW Vincent P Kelly Road facility and will be constructing a roof to cover the area along with a masonry wall to provide the required containment for spill protection. .

Product information for the salt brine processing holding/processing is attached. Please note that procurement of the equipment will require a public bid, however it is DPW's intent to NOT obtain



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an automated system. Based on the anticipated use and patch type production of brine sampling and testing with a salinity meter is sufficient.

Please feel free to contact me with any question at 860-584-6113.



Liquid Roadway Treatments Technical Reference Guide

For Clear Roads by Stonebrooke Engineering
09/12/2017

Definitions

- **Anti-Icing:** A proactive treatment (sometimes called pretreatment) that involves applying a liquid treatment prior to the onset of a snow event that prevents snow and ice from bonding to the road surface.
- **De-Icing:** A reactive treatment for melting existing snow and ice from a surface, either as a treatment by itself, or to aid in mechanical removal.
- **Direct Liquid Application (DLA):** The use of liquid-only treatments before, during, and after a storm event for anti-icing and de-icing.
- **Liquid-Only Plow Route:** A plow route on which only liquid treatments are used for anti-icing and de-icing when weather conditions fall within appropriate parameters.
- **Salt Brine:** A solution comprised of 23.3% sodium chloride (NaCl) and 76.7% water by weight.
- **Magnesium Chloride:** A solution comprised of magnesium chloride (MgCl) and water (ratio varies).
- **Calcium Chloride:** A solution comprised of calcium chloride (CaCl₂) and water (ratio varies).
- **Granular:** Rock salt in solid form.



Usage Parameters

Table 1: Recommended Anti-Icing Parameters Prior to a Storm Event

Parameter	Salt Brine	Magnesium Chloride	Calcium Chloride
Pavement Temperature ¹	15°F or above	0°F or above ²	0°F or above ²
Time Remaining Until Storm	Within 24 hours ³	Within 48 hours ³	Within 48 hours ³
Precipitation	None ⁴	None ⁴	None ⁴

Notes:

1. Consider temperature trends (increasing/decreasing temperatures)
2. Additives are available can reduce the freezing point of magnesium chloride. Magnesium chloride and calcium chloride are not recommended at pavement temperatures above 40°. Work with vendors to verify temperatures.
3. Applying anti-icing closer to the storm reduces the chances of traffic pushing the treatment off the roadway.
4. Rainfall prior to a snow storm event dilutes liquid applications, which reduces their effectiveness

Table 2: Recommended DLA Parameters During a Storm Event

Parameter	Most Favorable For Liquid Treatment	Consider Using Liquid Treatment
Pavement Temperature ¹	15°F or above (salt brine) 0°F or above (magnesium chloride) ² 0°F or above (calcium chloride) ²	15°F or above (salt brine) 0°F or above (magnesium chloride) ² 0°F or above (calcium chloride) ²
Storm Intensity (inches/hour)	Light Snow (less than 0.5 inch/hour)	Medium Snow (0.5 to 1.0 inch/hour)
Moisture Content ³	Ordinary (approx. 10:1 snow/liquid ratio) ³	Dryer Snowfall

Notes:

1. Consider temperature trends (increasing/decreasing temperatures)
2. Additives are available can reduce the freezing point of magnesium chloride. Similar temperature ranges are recommended for calcium chloride. Work with vendors to verify temperatures.
3. Wet snow can dilute liquid applications, which reduces their effectiveness

Direct Liquid Application Rates & Cycle Times

Agencies have had success with direct liquid application rates generally from 20 gallons per lane mile (gplm) to 80 gplm, depending on conditions, timing, if granular is also being applied, level of service, and other local factors. Your local experience will allow you to fine-tune your application rates.

Cycle times will vary depending on location. Shorter cycle times help reduce refreeze potential, and longer cycle times increase dilution-refreeze potential. Generally about 1.5 or 2 hours is considered a preferred cycle time. Cycle time includes the time needed to refill the truck tanks and the "dead head" time to the treatment route. As cycle times increase, supplementing liquids with direct granular should be considered.



Table 3: Suggested Liquid Roadway Treatments Application Rates (adjust based on local experience)
Application rates are in gallons of salt brine per lane mile (gplm)

Event Type	Pavement Temperature			
	32-30°F	29-27°F	26-24°F	23-15°F
For 2-Hour (or less) Cycle Times				
Light Snow (less than 0.5 inch/hour)	20 gplm	35 gplm	40 gplm	55 gplm
Medium Snow (0.5 to 1.0 inch/hour) ¹	35 gplm	45 gplm	55 gplm	Not Recommended
For 3-Hour Cycle Times³				
Light Snow (less than 0.5 inch/hour)	35 gplm	50 gplm	65 gplm	80 gplm
Medium Snow (0.5 to 1.0 inch/hour) ¹	50 gplm	65 gplm	80 gplm	Not Recommended

Notes:

1. For medium snow events, only consider using liquid treatments based on your experience, and when other factors are highly favorable, such as pavement temperature and moisture content.
2. It is suggested to generally supplement the liquid application with a light direct pre-wet granular application (70 pplm) when possible (especially as dilution-refreeze potential increases).
3. For cycle times greater than 2 hours, supplementing liquids with direct granular is strongly suggested.
4. For magnesium chloride, calcium chloride, additives, and blends, work with vendors to verify application rates.

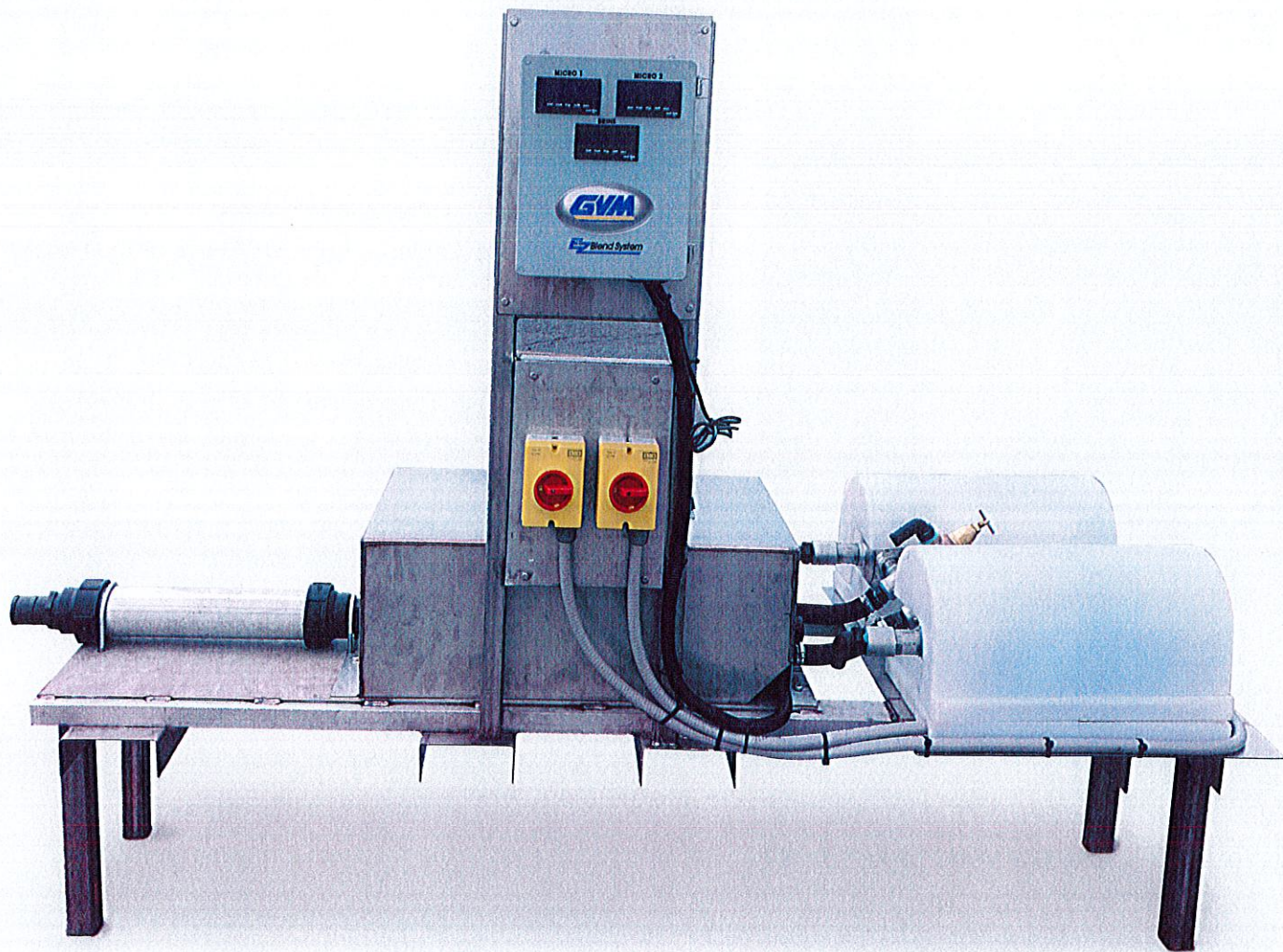
General Tips

- Supplementing liquid treatments with granular can achieve a "best of both worlds" solution by producing the full road liquid coating (to prevent bonding), some traction (granular), and also allowing the granular to slow down the dilution of the liquid treatment.
- If the storm is severe, consider using only mechanical snow removal until the severity lessens, and then resume liquid treatments.
- Liquid treatments can be used on hard packed snow to loosen it for plowing.
- Magnesium chloride and calcium chloride are typically 2-5 times the cost of brine, depending on location and vendor. The application rates of magnesium chloride and calcium chloride are typically 30% lower than salt brine.



EZ BLEND SYSTEM

QUICKLY ADAPT TO ANY WEATHER EVENT



Accurately mixes up to three de-icing chemicals and allows users to quickly adapt to any weather event. Users can accurately reach any desired rate or effective temperature for their de-icing solutions using the GVM EZ Blend System.

GVM's EZ Blend System also allows users to set a programmable batch size and volume. Additionally, the system features an automatic shut-off, for ease of operation.

As chemical input costs continue to increase, users will recognize savings of hundreds to thousands of dollars per truckload by mixing their own liquids with the EZ Blend.

- Saves costs by allowing users to mix their own liquids
- Precisely mix up to three de-icing chemicals in only one product tank
- Proper and precise liquid mixtures allow users to gain the best attributes of each product blended and reach desired effective temperatures
- Allows entire fleet to be filled and mixed by a single blend station
- Comprised of dependable Raven® products
- Programmable batch size
- Automatic shut-off

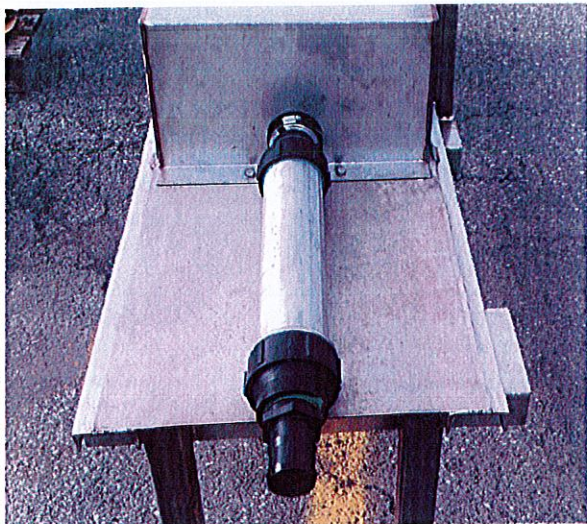


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Phone 800-458-5123 | Fax 717-259-1588 | www.gvminc.com



EZ BLEND SYSTEM

How it Works: The unit is comprised of dependable Raven components. The Raven mixing tube generates over 100,000 Reynolds of mixing turbulence at 100 GPM, guaranteeing that individual chemicals will be thoroughly blended before application to the road surface, eliminating the need for a separate mixing tank. The turbulence rating increases as the GPM rate increases. The unit also includes Raven Flow Max components paired with Raven flowmeters.



Redline Controllers

Programmable batch size

Pre-cutoff setting to ensure accurate batch volume

Connected to Raven flowmeters to ensure accurate readings of chosen materials to be blended

Raven Mixer

Ensures accurate & even blending of liquid de-icing materials

Eliminates the need for tank mixing; one tank for each chemical

Enhances mixing turbulence through a honeycomb style grate within the blending tube

304 stainless steel

Operation Weight

10 GPM.....10,000 Re

25 GPM.....25,000 Re

100 GPM...105,000 Re

200 GPM...210,000 Re

Raven Flowmeters

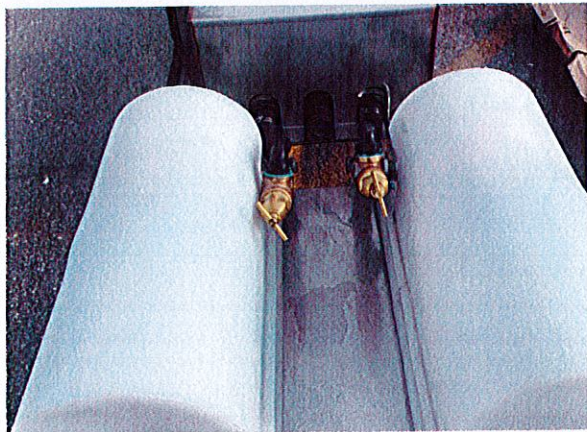
Raven RFM 60P- 60 GPM

Raven RFM 200- 200 GPM

Raven Electric Ball Valves

Micro Pumps

1 HP, 60 Hz, 2 pole, 3500 RPM

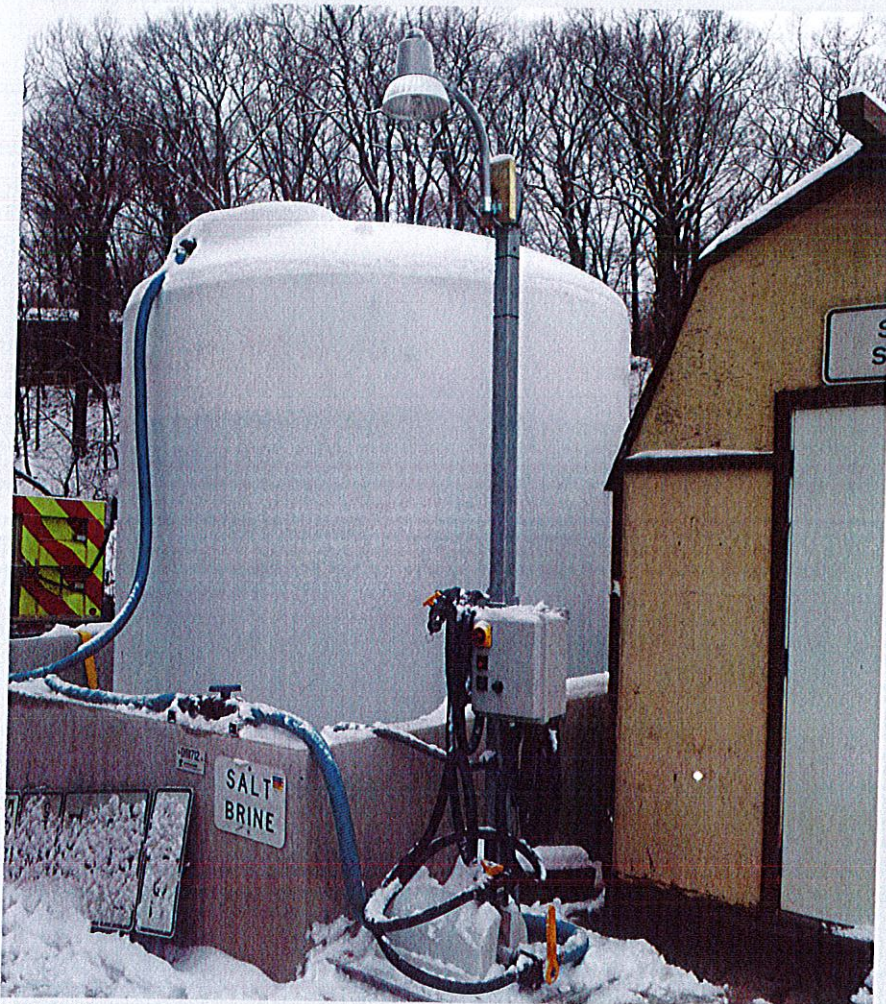


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CALCOTE FILL SYSTEMS

LIQUID DISPENSING/UNLOADING SYSTEMS



CFS-1000



CFS-1500

GVM's Calcote Fill Systems (CFS) are designed to transfer chlorides and other liquid pre-wet solutions between storage tanks and truck mounted tanks. The systems dispense pre-wet solutions used to pre-wet de-icing materials, into truck mounted tanks, as well as unload the unused liquids from truck mounted tanks and return them to a storage tank. All stations are user friendly and built with a sturdy construction to help endure the harsh environment of winter road de-icing operations. To accommodate needs from small operators to large state highway and transportation departments, Calcote Fill Systems are available in two models: CFS-1000 and CFS-1500, with pump systems that output 50 to 200 gallons per minute.

- Work light allows for safe and efficient operation 24 hours a day
- Dispenses all common pre-wet/de-icing liquids
- Constructed of materials and components proven to be durable in the harsh environment of winter road de-icing
- Full line of polyethylene storage tanks ranging from 300 to 10,000 gallons in size
- Includes a multiple setting timer to allow for short cycle shut-off, long cycle recirculation, and automatic shut-off



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CALCOTE FILL SYSTEMS

	CFS-1000	CFS-1500
Overall height	108 in.	
Base/main body construction	Fabricated steel 3 x 3 ft base. Main body is fabricated with 3 in. square tube steel with hose racks attached. All fabricated steel components are hot dipped galvanized, meeting ASTM A-123, for corrosion protection and long life.	
Pump/motor assembly	Polypropylene centrifugal pump with 2 in. suction and 1-½ in. discharge. Close coupled to 2 hp, 220V single phase, TEFC electric motor. 90 gpm max flow rate.	Polypropylene pump with 2 in. intake and 2 in. discharge. Close coupled to 5 hp, 220V single phase, TEFC electric motor. 195 gpm max flow rate. Three phase motor available.
Pump/motor housing	Rotationally molded polyethylene, UV stabilized, weathertight housing, vented for air circulation. Dimensions: 11 x 22 x 12 in. (L x W x H)	SS, weathertight, vented for air circulation. Dimensions: 11 x 22 x 12 in. (L x W x H) 195 gpm max flow rate. Three phase motor available.
Electrical system	Weathertight NEMA 4X fiberglass enclosure with main disconnect, magnetic motor starter, "on" button with indicator light, "stop" button and green "run" light. All exterior connections are non-metallic flexible conduit with liquid-tight connectors. Modular timer with multiple settings.	
Work light	175 watt LED	
Plumbing components	3-way poly ball valves are used for directional flow control on suction and discharge of pump. All fittings are polypropylene and SS.	3-way poly ball valves are used for directional flow control. All fittings are polypropylene and SS.
Fill hose	25 ft of 1 in. chemical resistant rubber hose with poly valve and poly camlock quick coupler.	25 ft of 2 in. chemical resistant rubber hose with poly valve and camlock quick coupler.
Unload hose		
Warranty	1 year, Bumper-to-Bumper	



Vertical Storage Tanks

White or Blue Vertical Storage Tanks are most frequently used for our Pedestal Pre-Wet Systems. Norwesco vertical tanks feature tie-down slots, built-in graduated gallon indicators, an offset fill-opening and a self-vented, slosh-proof lid.

Note: Storage tanks are constructed of molded UV resistant polyethylene, suitable for water and most chemicals. Multiple variety of sizes, shapes and styles are available.



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ANTI-ICING SYSTEMS

DIRECT APPLICATION SYSTEM (DAS)



GVM's Direct Application Systems (DAS) are designed to spray anti-icing liquids directly onto road surfaces. Direct Application Systems are available in a wide range of sizes and styles, to fit any fleet or budget. They can be mounted to ATV's, tractors, pick-up trucks, roll off trucks, and dump trucks. Direct Application Systems can also be used for dust control on unpaved surfaces. All Direct Application Systems are constructed of hot dip galvanized steel for corrosion resistance and include a solution tank made of rotationally molded, high density, UV stabilized polyethylene, designed to hold material with specific gravity up to 16 pounds per gallon.

- Add-on system to directly apply anti-icing or de-icing liquids
- Mounts onto all-terrain vehicles (ATV's), tractors, and large or small trucks
- 125-3400 gallon systems available
- Easy load and unload features
- Hook-lift system, skid-mounted system or trailer system
- Free standing carrier frame made of hot dip galvanized steel
- 1, 2, or 3 lane coverage spray bar
- On/off controller in cab
- Ground speed control options
- Hydraulic or gas driven pump

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14_DASAnti-Ice



Built to Last

ANTI-ICING SYSTEMS



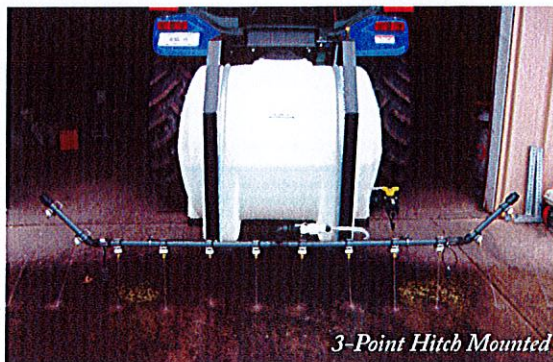
Swap Unit



EZ Load Unit



Pick-Up Truck Mounted



3-Point Hitch Mounted



ATV Mounted

EZ Load & Swap Units

- Frame construction: easy load/unload feature, free-standing carrier frame made of hot dipped galvanized steel for corrosion protection
- 925, 1035, 1335, 1635 or 1800 gallon solution tanks with a Liquid Surge Stabilizer total baffle system
- 1, 2, or 3 lane coverage spray bar
- Available as a hook-lift system, skid-mounted system, or trailer system
- On/off controller in cab
- Ground speed control options
- Hydraulic driven pump
- Stainless steel spray bar, optional

ATV Mounted

- Ideal for sidewalks, road surfaces, parking lots, and parking garages
- 125 gallon tank
- Frame mounted on all terrain vehicles

Pick-Up Truck Mounted

- Slide-in type system, can be easily loaded and unloaded with a forklift
- Ideal for road surfaces and parking lots
- 225, 325, 500, or 725 gallon solution tank, Liquid Surge Stabilizer total baffle systems standard with 325, 500, and 725 gallon tanks
- Spray coverage from 8-12 ft wide
- Frame mounted tank easily slides into truck

3-Point Hitch Mounted

- Ideal for large sidewalks, road surfaces, parking lots, and parking garages
- 225 gallon tank
- Spray coverage from 4-6 ft wide
- 3-point hitch mounted tank mounts to a large tractor

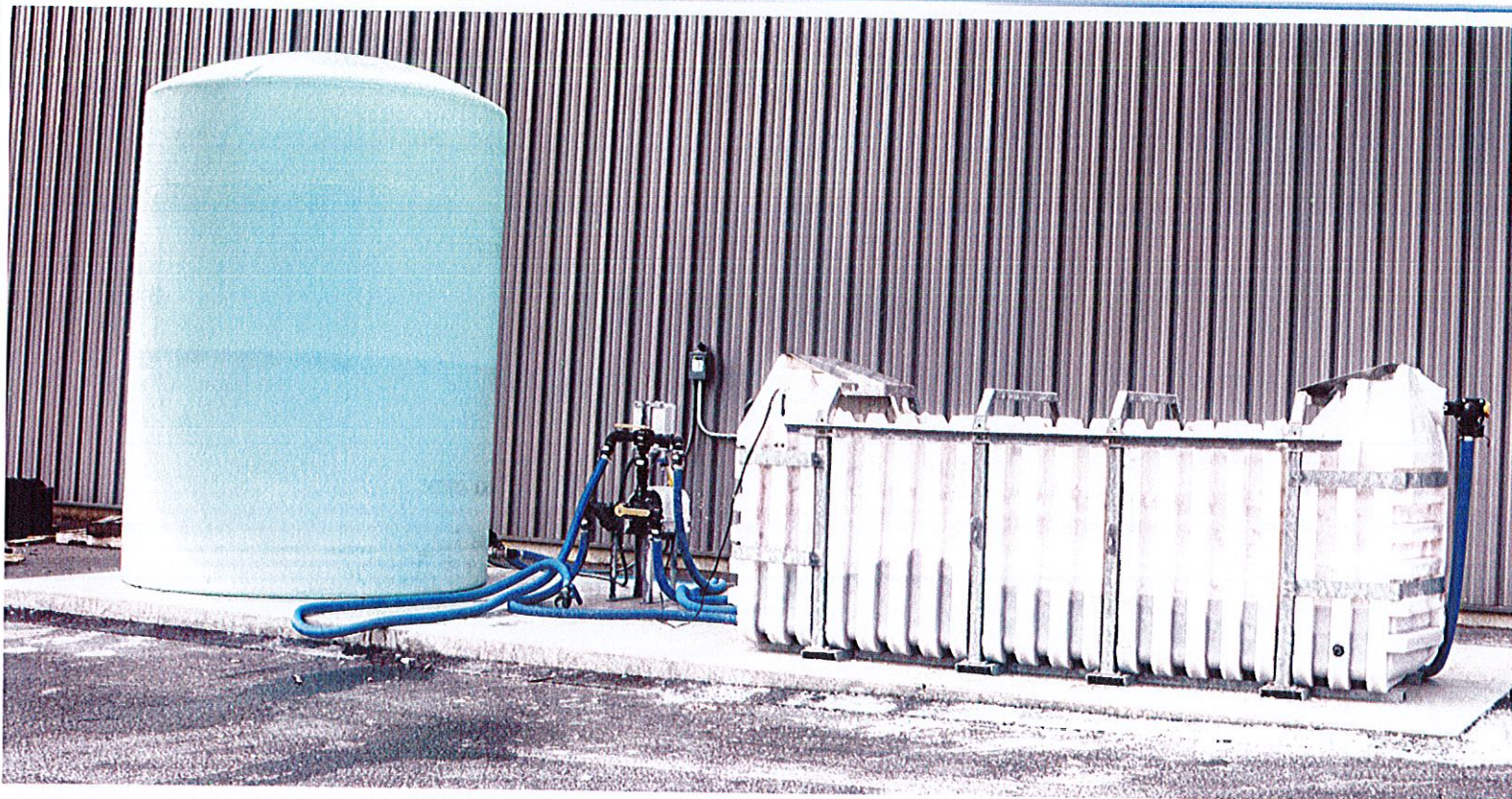


Built to Last

To find a dealer near you, please visit www.gvminc.com.

BRINE MANUFACTURING

AUTOMATED BATCH SYSTEM (ABS)



GVM's Brine Manufacturing ABS's are designed to convert dry rock salt into liquid for pre-wetting or anti-icing roadways. The use of salt brine lowers the freezing point of snow and ice and is popular and cost effective solution for managing roadways. GVM's Brine Manufacturing Systems lower operation costs by using readily available materials; granular salt and tap water. They are capable of producing up to 5,000 gallons of brine per hour, depending on the water source. The systems are also designed to be rolled over for easy clean-out.

- Stainless steel tank divider separates manufactured brine for pumping to storage tanks or truck mounted tanks
- Hot dip galvanized structural steel frame meets ASTM specification A-123 for corrosion protection
- 115 in. wide top opening
- Includes a Misco Digital Refractometer to measure saturation percentage of salt brine

ABS-800 Brine System

Ideal for landscapers, small municipalities, and contractors, the ABS-800 is GVM's most economical system available.

- 800 gallon capacity tank, 144 x 43 x 58 in.
- 2.5 cu yd salt capacity
- Single speed pump, 110 GPM
- Portable for use at multiple locations

ABS-1500 Brine System

The ABS-1500 allows users to pump manufactured brine from the brine maker to a storage tank as well as use the storage tank as a fill station to fill truck mounted tanks without adjusting or moving hoses. The system also allows users to load and unload truck mounted pre-wet tanks and large anti-icing tanks.

- 1500 gallon tank, 151 x 53 x 63 in.
- 5 cu yd salt capacity
- 2 speed pump for high and low operation speeds, 40 - 130 GPM

YouTube



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2014_ABS



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BRINE MANUFACTURING

		ABS-800	ABS-1500
Tank Specifications	Dimensions	144 x 56 x 58 in. (365.8 x 142.2 x 147.3 cm) (L x W x H)	165 x 58 x 63 in. (419.1 x 147.3 x 160.0 cm) (L x W x H)
	Tank Capacity	800 US gal. liquid /2.55 cu. yd. of salt	1500 US gal. liquid /5 cu. yd. of salt
	Tank Construction	UV resistant heavyweight, one-piece, rotationally molded polyethylene with a stainless steel divider wall to separate the granular/tap water mixing side of the tank from the mixed brine containment/pumping side of the tank.	
	Tank Opening	115 in. wide, accomodates front-end loader bucket	
	Tank Support Frame	Fabricated structural steel, hot dip galvanized to ASTM specification A-123 for corrosion protection. 2 in. tube steel and 6 in. channel and includes eyelets to accommodate a chain used for "rollover" cleaning, and forklift openings for easy movement when tank is empty	
	Hopper Height	43 in. (61.0 cm)	
Pump/Motor Specifications	Hopper Top Opening	84 x 50 in. (213.4 x 127.0 cm) (L x W)	
	Suction	2 in. (5.08 cm)	
	Discharge	2 in. (5.08 cm)	
	Power	2 hp	Dual horsepower for 2 speed operation Low speed: 0.33 hp, high speed: 25 hp
	Voltage	115V	230V single phase, 60 Hz
	Flow Rate	110 GPM	Varies with plumbing configuration, Low speed: 40 GPM @ 20 ft, high speed: 130 GPM @ 50 ft
	Pump Housing	42 x 30 x 31 in. (106.7 x 76.2 x 78.7 cm) (L x W x H), enclosed pump station for transfer of salt brine, housed in a UV stabilized polyetheylene hinged, lockable enclosure, assembled with quick cam couplers and valves for tank suction/discharge	Rotationally molded polyethylene, UV stabilized; weather resistant housing, vented for air circulation Dimensions: 11 x 22 x 12 in. (27.9 x 55.9 x 30.5 cm) (L x W x H)
	Assembly	—	- Glass-reinforced, thermoplastic construction for corrosion and weather resistance - Pump body and seal plate joined by stainless steel studs molded into pump body, neoprene o-ring seal - Pump allows removal of motor and all moving pump parts without disturbing piping - Injection molded polycarbonate, closed design impeller is non-overloading - Impeller is brass threaded and hub molded in for attachment to motor shaft with integral dielectric shaft sleeve - Diffuser has a bronze wear ring and o-ring seal in suction port of pump with a finger opening drain plug for removal of trapped fluids - Pump motor is attached seal plate with stainless steel cap screws - Mechanical seal with a stainless steel, carbon, and neoprene rotating element on motor shaft - Ceramic stationary element with rubber cup mounting - Cool-carb seal has a mechanical drip-proof design - Motor is an open-drip proof and capacitor start/induction run design, has threaded 303-grade stainless steel shaft extension - All serviceable controls and components located under a removable canopy for protection against weather and dirt. - Sealed ball bearings at both shaft and control ends - Continuous duty motor has a thermal overload protector and automatic reset - External bonding lug shell is provided
	Electrical Controls	—	NEMA 4X control box with SS hinge cover & latching screws, hand/off/auto switch for pump on/off control, high speed/low speed selector switch, green "power" light on when pump is running, GFI for protection, terminal strip for easy power connection, relay for float switch operation to control pump, automatic on/off function
	Base	—	Mounted on a non-corrosive base with bolt lugs to allow the motor vent opening to be elevated at least 3.5 in. above the mounting surface.
Included Hoses		(2) 2 x 240 in. (5.08 x 609.6 cm) flexible PVC with camlock quick coupler 1 x 240 in. (2.54 x 609.6 cm) chemical resistant rubber hose with poly valve and camlock quick coupler	
Test Equipment		Misco Digital Refractometer for determining brine concentration 250 mL plastic cylinder to hold test sample Brine concentration chart	
Y-Strainer		Y-strainer with 12 mesh screen prevents brine solution solids from entering the pumping station, producing cleaner brine that will lead to fewer mechanical problems	
Sample Port		Included at pump discharge for testing brine concentration	



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**CITY OF BRISTOL
BOARD OF FINANCE AGENDA REQUEST FORM**

To: Board of Finance Commissioners

From: Public Works
(Requesting Department)

Date: April 21, 2022
(Submission Date)

For the April 26, 2022 Board of Finance Meeting Agenda
(Date of Meeting)

This request is for:

(Please check the type of request and list in whole dollar amounts)

- ☐ Additional Appropriation \$ _____
- ☐ Transfer from Contingency \$ _____
- ☐ Transfer(s) \$ 55,000.00
- ☐ Grant \$ _____
- ☐ Carry-over(s) \$ _____
- ☐ Other

Approval:

This request was approved by the Board of Public Works
(governing Board of your department)
at its meeting held on April 21, 2022.
(date)

(Department Head's signature)

All requests to appear on the Board of Finance meeting agenda for consideration must be submitted to Jodi McGrane in the Comptroller's Office by 10:00 a.m. Monday of the preceding week of the meeting. Board of Finance Meetings are held on the fourth Tuesday of each month at 5:30 p.m. in the Council Chambers.

Board of Finance Agenda Request Form

Reason for request: Transferring \$45,000 to cover projected cost of Diesel fuel cost increases. DPW is transferring from snow plow fees as we have limited use of contractors this winter.

Transfer(s) complete the following:

From:	0013018 544410	To:	Salt Brine Equipment	Amount:	\$55,000.00
From:		To:		Amount:	
From:		To:		Amount:	



Department of Public Works | 860.584.6125

MEMORANDUM

DATE: April 8, 2022
TO: Mayor Jeffrey Caggiano
Board of Public Works
FROM: Raymond A. Rogozinski, P.E., Director of Public Works
RE: DPW – Eversource Request for Access Agreement
Lot 67-31 Clark Ave and Lot 30-R4-1 Prospect St (Henry Street)
City Council Referral

The City Council has received a request from Eversource Electric to acquire access onto City owned property identified at Lot 67-31 Clark Ave & Lot 30-R4-1 Prospect Street (Henry Street) for the purpose of maintaining electrical lines. The attached requests have been referred to the BPW for review and recommended City Council Action. A copy of the proposed access agreement along with a map of the area in question is attached. Based on the review the DPW recommends the following action:

The Board of Public Works has reviewed the Eversource request to obtain an access agreement from the City of Bristol for parcels located on Clark Ave Lot 67-31 and Prospect St Lot 30R4-1 (Henry St). Based on the review the Clark Avenue parcel is under the control of the Water Department and is therefore not part of the Board of Public Works review. The Department of Public Works has reviewed the Prospect Street access agreement and recommends City Council approval of the access agreement subject to final review by the City's Corporation counsel Office. Said Prospect St access agreement shall be subject installation of a fence/gate (top/bottom rail) to block access way created by Eversource.

A copy of the proposed agreement including a map indicating the location of said property/access is attached.

Please feel free to contact me with any question/concerns at 860-584-6113.

Return application and payment to:

City of Bristol
Public Work Department
111 North Main Street
Bristol, CT 06010
www.bristolct.gov

TEMPORARY ACCESS PERMIT

We, the City of Bristol, for the agreements set forth below and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby permit and license the Connecticut Light and Power Company d/b/a Eversource Energy a specially chartered Connecticut corporation having its office in Berlin, Connecticut ("CL&P"), the right, privilege and authority for CL&P, its agents, employees and contractors, to pass and repass with vehicles and equipment over and across a strip of land of varied width (the "Temporary Access Area"), as more particularly shown on the attached Exhibit A, over the property located at Clark Avenue, Bristol, CT, (Mblu 67-31) to provide CL&P access to its electric transmission facilities for Construction or Maintenance work.

CL&P shall have the right to cut and remove trees, brush, rocks, and other obstructions within the Temporary Access Area and to fill depressions or roughly grade the surface of the Temporary Access Area for the purpose of exercising the rights herein.

If the Temporary Access Area is disturbed or damaged due to the Project's construction activity, CL&P agrees to restore said Temporary Access Area to a condition substantially the same as that which existed prior to said construction. Restoration shall include final grading where necessary and any repairs to paved driveway caused by the Project's construction activity.

Said Temporary Access Area being a portion of that tract described in a deed recorded in Volume 391 Page 307 of the Bristol, CT land records.

This Temporary Access Permit shall terminate ten (10) years after the execution date below. It is understood by both parties that no electric transmission facilities shall be constructed on the Temporary Access Area.

The above-referenced consideration is full compensation for all damages on the above described Temporary Access Area resulting from CL&P's use thereof. CL&P shall leave the Temporary Access Area in a neat and orderly condition upon completion of CL&P's activities.

City of Bristol

By: _____
Signature

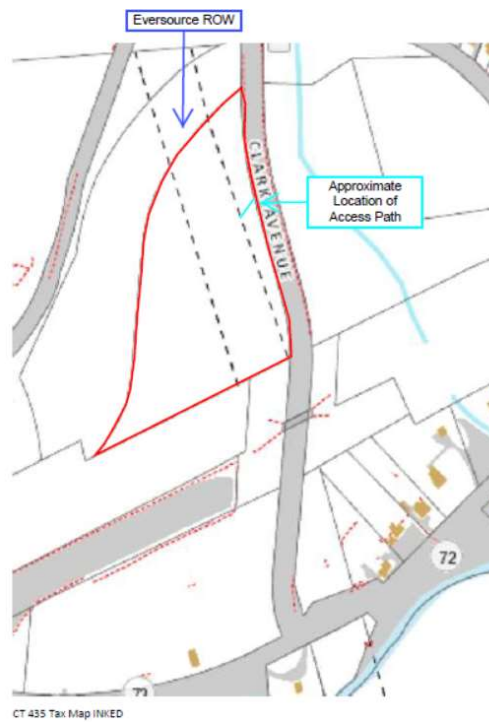
(Witness)

Printed Name

Its: _____

Date

Exhibit A



TEMPORARY ACCESS PERMIT

We, the City of Bristol, for the agreements set forth below and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby permit and license the Connecticut Light and Power Company d/b/a Eversource Energy a specially chartered Connecticut corporation having its office in Berlin, Connecticut ("CL&P"), the right, privilege and authority for CL&P, its agents, employees and contractors, to pass and repass with vehicles and equipment over and across a strip of land of varied width (the "Temporary Access Area"), as more particularly shown on the attached Exhibit A, over the property located at Prospect Street, Bristol, CT, (Mblu 30-R4-1) to provide CL&P access to its electric transmission facilities for Construction or Maintenance work.

CL&P shall have the right to cut and remove trees, brush, rocks, and other obstructions within the Temporary Access Area and to fill depressions or roughly grade the surface of the Temporary Access Area for the purpose of exercising the rights herein.

If the Temporary Access Area is disturbed or damaged due to the Project's construction activity, CL&P agrees to restore said Temporary Access Area to a condition substantially the same as that which existed prior to said construction. Restoration shall include final grading where necessary and any repairs to paved driveway caused by the Project's construction activity.

Said Temporary Access Area being a portion of that tract described in a deed recorded in Volume 313 Page 65 and Page 70 of the Bristol, CT land records.

This Temporary Access Permit shall terminate ten (10) years after the execution date below. It is understood by both parties that no electric transmission facilities shall be constructed on the Temporary Access Area.

The above-referenced consideration is full compensation for all damages on the above described Temporary Access Area resulting from CL&P's use thereof. CL&P shall leave the Temporary Access Area in a neat and orderly condition upon completion of CL&P's activities.

City of Bristol

By: _____
Signature

(Witness)

Printed Name

Its: _____

Date

Exhibit A





Department of Public Works | 860.584.6125

MEMORANDUM

DATE: April 18, 2022
TO: Mayor Jeffrey Caggiano
Board of Public Works
FROM: Raymond A. Rogozinski, P.E., Director of Public Works
RE: Organic Food Waste Collection – DEEP Grant Opportunity

As indicated to the Board of Public Works in September 2021 CT DEEP is accepting grant applications for municipalities to initiate an organic waste collection program. A summary of the grant and pertinent information is provided in the attached September 2022 memorandum.

At the time of the September review, the Board of Public Works voted **NOT** to approve/ move forward with the submittal of a grant application that would potentially fund a pilot collection program of organic waste in a portion/ section of the City.

As reported back in September, CTDEEP is encouraging the City to submit an application. Since the Board's September action CTDEEP and NVCOG continue to strongly encourage the City to submit a grant application. The information summarized in the September 2022 memorandum has not substantially changed, however the following items/information may be pertinent to BPW action:

1. CTDEEP is strongly encouraging municipalities to participate in a grant to fund a pilot collection program of organic waste. The grant provides 100% funding of City organic waste collection/processing cost for a period of one year. With that said, the grant is competitive and it is my understanding that current application funding requests exceed the stated CT DEEP available funds. It should also be noted that although the City may not be awarded a grant (if submitted) multiply municipalities will receive grant funding of a pilot organic waste programs and it is believed that the State will ultimately require the City to separate food organics.
2. The grant only provides funding for a period of one year and without grant funding City cost will need to increase to continue an organic waste program.
3. The City through BRFFOC recently submitted a grant application to fund food/organic waste collection at City schools. Referenced grant is pending CTDEEP review.



Department of Public Works | 860.584.6125

4. COVANTA's application to CTDEEP to process medical waste in Bristol has resulted in serious concerns from the community associated with COVANTA's air quality / size of operation. Initiating an organic waste program provides the City an opportunity to reduce the City's solid waste processed by COVANTA.
5. Implementing a food organic waste program will require a site that the City will transport all rubbish to for separation (food organic waste/ "regular rubbish). The location of a required separation site is unknown at this time. One potential location would be our transfer station, however odors may/ will be concern. A site located out of the City limits will have benefits, although processing/separating waste outside of the City limits would require additional travel and increase labor, fuel and equipment cost and may require redesign of City collection routes.
6. The grant application for organic waste is for a pilot program only and if awarded will be implemented in a designated/section of the City only (not City wide). Map of existing rubbish routes attached.

I would state that one of the primary concerns the BPW indicated in opposition to moving forward with a grant application to collect / process organic waste in September 2022 was the Board's concerns associates the need for Bristol residents to separate food/organic waste. I believe that the concern remains, however CTDEEP and NVOG staff will provide a community education. I would also state that the grant application submittal would be the first step, therefore questions remains at this time. If awarded the implementation process will be developed to establish the City route to initiate the pilot program, location of a rubbish/organic separation site, transportation of separated rubbish and food/organic waste along with the impact if/any to BRFFOC's Covanta existing contract.

Please feel free to contact me with any questions at 860-584-6113.



Department of Public Works | 860.584.6125

MEMORANDUM

DATE: September 7, 2021

TO: Mayor Ellen Zoppo-Sassu
Board of Public Works

FROM: Raymond A. Rogozinski, P.E., Director of Public Works

RE: Food Waste Collection / Composting Program

The CT DEEP has contacted the DPW through NVCOG regarding a grant to perform a pilot program implementing a residential food waste collection and composting program. Information received to date regarding the program is preliminary and based on initial discussions with the CT DEEP. However, the program is similar to a grant recently received by the City Meriden.

The Meriden grant has not started. Once begun, it will consist of the collection residential food waste for a four-month period. Participating residents (requested to volunteer) will be offered to segregated food waste. Residents who participate will be required to place all food waste in designated colored bags (pink). They will continue to place the food waste along with their typical solid waste in the City supplied barrel (single stream). There will NOT be a separate City collection for food waste.

City solid waste barrels will continue to be collected curbside by the City. However, in the pilot test area City collection trucks will not dispose of the waste directly at Covanta. During the test pilot program City trucks will dispose of solid waste at a regional facility where the food waste bags will be separated (pink food waste bags taken out). The food waste bags (pink) will be sent to a regional food compost facility and the remaining waste will be sent to Covanta.

Due to its proximity to Covanta, CT DEEP has indicated that Bristol may be a desirable location for a future solid waste separation and food composting site. Some of the potential concerns would be odors and compliance with City zoning requirements. The food composting operation consists of mixing food waste with wood chips, therefore it may provide an additional market for wood debris chips generated at our transfer station from processing woody debris. Although segregation of food waste (pink) bags will occur manually during the pilot program the CT DEEP has identified equipment capable of automatically separating color bags using optical scanners.



Department of Public Works | 860.584.6125

Participating in the pilot program will require participating residents (volunteering) to separate their food waste and City collection trucks being required to dispose of solid waste at regional facility. Although stated that residents will volunteer, I would say that that CT DEEP did use the term “encourage” to volunteer. DPW currently has 30 rubbish routes; the pilot program will be available to only a portion of the City’s routes. Since the number of collections per day varies, pilot program areas will be selected to coincide with low-collection days (Thursday’s downtown and Tuesday’s Redstone Hill Road routes) in order to compensate for additional hauling time.

The purpose of the CT DEEP’s pilot program is to obtain data on the feasibility of implementing food composting in the state. The State estimates that approximately 20-25 of the waste stream is attributed to food waste. The current market rate for solid waste disposal is approximately \$92/ton. The City’s existing Covanta disposal contract cost through BRFFOC is \$68.40/ton and will remain in place until 2034 (adjusted for CPI).

I have discussed the pilot program with BRFFOC’s administrator who has indicated that there are other communities outside Connecticut that have food waste programs or have performed pilot programs and therefore questions the value of collecting data. I personally have concerns with implementing a food compost program. There are several complex issues that must be considered such as participation rate of residents, impact to existing rubbish routes, location of compost serration facility and impact to existing BRFFOC contract.

It is imperative that food composting does not impact the City’s existing Covanta contract; however, CT DEEP’s food composting initiate is not going away. Along with pay as you throw it is the cornerstone of the State’s solid waste management program. Although I may agree with our BRFFOC administrator that the data is available on residential food composting I do believe that participating in a pilot program will allow the City to obtain specific Bristol data and more importantly provide the City an opportunity to communicate solid waste challenges directly with Bristol residents in addition to being part of the State’s solid waste policy discussion.

Due to the need of additional information I am not requesting authorization for DPW to participate in a food waste collection / composting pilot program. However, I am requesting the following BPW action to pursue:

Authorize the Director of Public to pursue participating in a food waste collection/ compost pilot program subject to final approval by the Board of Public Works.



Department of Public Works | 860.584.6125

Please feel free to contact me with any question at 860-584-6113.

City of Bristol
Public Work Department
111 North Main Street
Bristol, CT 06010
www.bristolct.gov

