

NEEDS SUMMARY



WHITNALL SCHOOL DISTRICT

Greenfield, Wisconsin

Monday | August 28, 2017

TABLE OF CONTENTS

i Introduction

- 1** Section One:
Edgerton Elementary School
a. Needs Assessment
b. ADA Needs Assessment

- 2** Section Two:
Hales Corners Elementary School
a. Needs Assessment
b. ADA Needs Assessment

- 3** Section Three:
Whitnall Middle School
a. Needs Assessment
b. ADA Needs Assessment

- 4** Section Four:
Whitnall High School
a. Needs Assessment
b. ADA Needs Assessment



EDGERTON ELEMENTARY SCHOOL: NEEDS ASSESSMENT

Area of Need	Elementary Schools
Infrastructure & Building Systems	<ol style="list-style-type: none"> 1. Replace the Lochinvar boiler and pump 2. Replace aging unit ventilators, constant volume multi-zone hvac unit and air cooled chiller 3. Remove existing door transfer grill system and modify system to meet code compliance 4. Replace electrical service panelboards including surge protection devices 5. Replace the generator and update / integrate the emergency egress lighting 6. Replace all existing electrical branch panel boards throughout facility 7. Install additional electrical receptacles recommended throughout 8. LED light fixture replacement throughout recommended 9. Install additional exterior lighting for added visibility and code compliant emergency egress lighting 10. Replace existing fire alarm system to achieve required code compliance 11. Extend existing data distribution and add additional data racks as required 12. Replace existing master clock / bell scheduler 13. Extend security cameras, keyless entry system and intrusion alarm 14. Replacement of existing grease interceptor in kitchen 15. Replace hot water circulating pump and water heater, installation of water softening system recommended 14. Replace plumbing fixtures with water conserving and ADA compliant fixtures 15. Patch / repair cracked interior and exterior masonry 16. Patch / replace damaged interior flooring and ceiling surfaces 17. ADA code compliance challenges at existing interior doors, restrooms and stage accessibility 18. Replace exterior hollow metal doors and frames 19. Main secure building entry lobby acts as large airlock vestibule, inefficient HVAC control and human comfort
Safety & Security	<ol style="list-style-type: none"> 1. Recommended HVAC code compliance recommendations (also see Infrastructure / Building Systems) 2. Recommended electrical updates, security camera extension and fire alarm replacement (also see Infrastructure / Building Systems)
Educational Space	<ol style="list-style-type: none"> 1. Increase transparency from traditional double-loaded corridors into learning environments 2. Lack sufficient small group instructional and general resource areas to support PLeX delivery 3. Basement academic space provides limited natural light and challenging access 4. Undersized gymnasium and underutilized (inaccessible) stage 5. Due to redundant circulation and high density, the Library location provides no natural light to key educational space
Site	<ol style="list-style-type: none"> 1. Partial asphalt patching / repair recommended
Other	<ol style="list-style-type: none"> 1. Building circulation is inefficient and wayfinding challenging



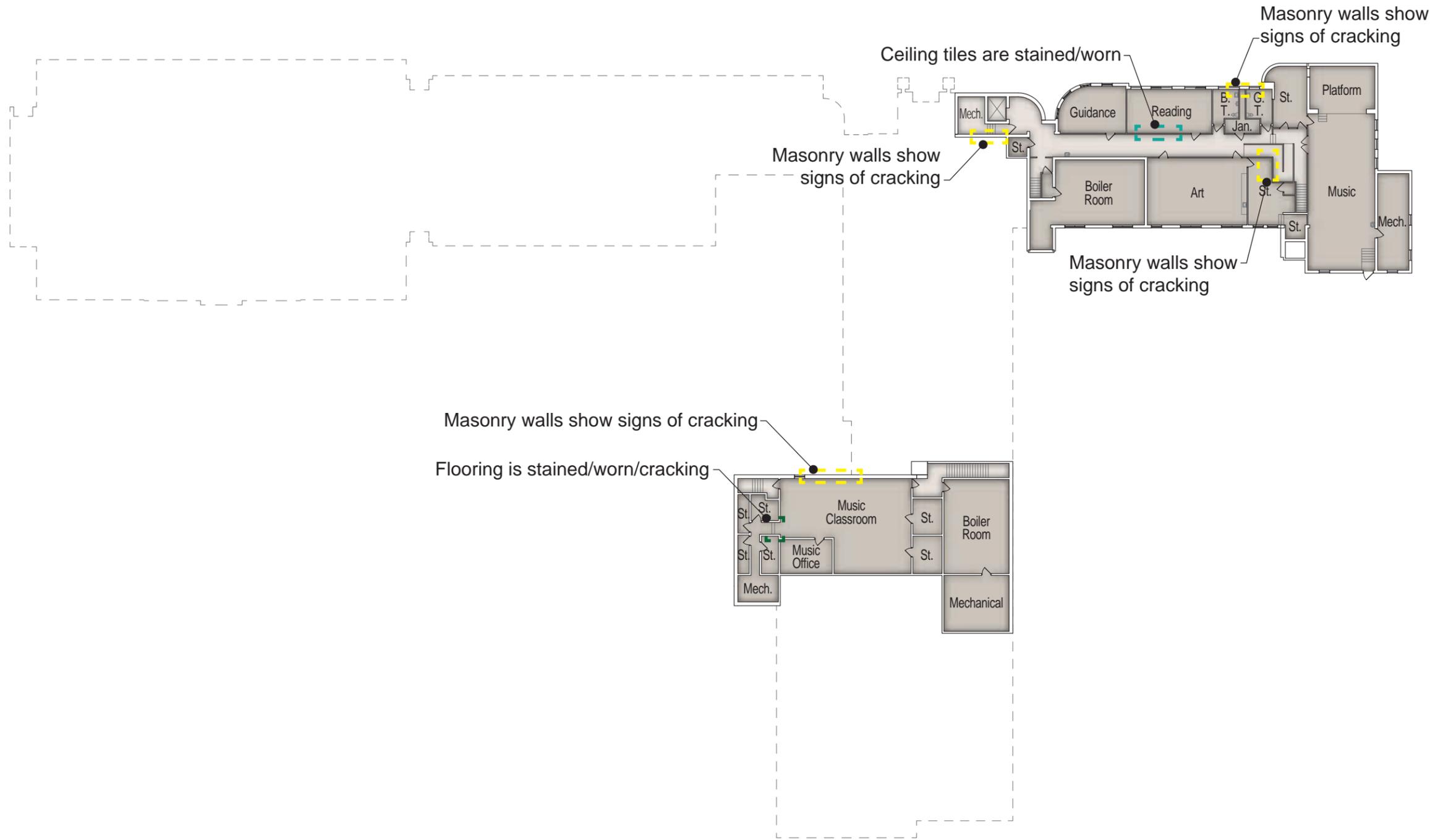
HALES CORNERS ELEMENTARY SCHOOL: NEEDS ASSESSMENT

Area of Need	Elementary Schools
Infrastructure & Building Systems	<ol style="list-style-type: none"> 1. Replace existing windows 2. Replace aging steam boilers, consider switch to hot water heating system 3. Replace existing hot water heat exchanger and hot water pumps 4. Replace existing air handling unit serving the Gymnasium / Stage needed 5. Replace Office-area fan coil unit 6. Replace exhaust system with increased volume system 7. Install volume dampers in 1993 return duct system 8. Replace pneumatic controls system with digital controls system 9. Replace the 120/240-volt electrical service 10. Replace the generator and updated / integrated emergency egress lighting 11. Replace all existing electrical branch panel boards throughout building 12. Install additional electrical receptacles throughout 13. LED light fixture replacement throughout recommended 14. Install additional exterior lighting for added visibility and code compliant emergency egress lighting 15. Replace existing fire alarm system to achieve required code compliance 16. Extend existing data distribution and add additional data racks as required 17. Replace existing master clock / bell scheduler 18. Extend security cameras, keyless entry system and intrusion alarm recommended 19. Replace water distribution piping and fittings 20. Water service to the building is at capacity, any additional fixtures will required addition service to be installed 21. Replace cast iron sanitary and storm sewer systems 22. Replace existing grease interceptor cover in kitchen 23. Replace Art room sinks / traps 24. Replace existing hot water heaters 25. Replace plumbing fixtures with water conserving and ADA compliant fixtures 26. Patch / repair cracked interior and exterior masonry 27. Patch / replace damaged interior flooring and ceiling surfaces 28. ADA code compliance challenges at existing interior doors, restrooms, stage access and multiple user occupied floor levels 29. Replace exterior hollow metal doors and frames 30. Repair entry canopy roof edge
Safety & Security	<ol style="list-style-type: none"> 1. Site circulation challenges pose safety concern on-site (also see Site) 2. Lack permanent staffed secure entry sequence at main entry 3. Recommended HVAC code compliance recommendations (also see Infrastructure / Building Systems) 4. Recommended electrical updates, security camera extension and fire alarm replacement (also see Infrastructure / Building Systems)

HALES CORNERS ELEMENTARY SCHOOL: NEEDS ASSESSMENT

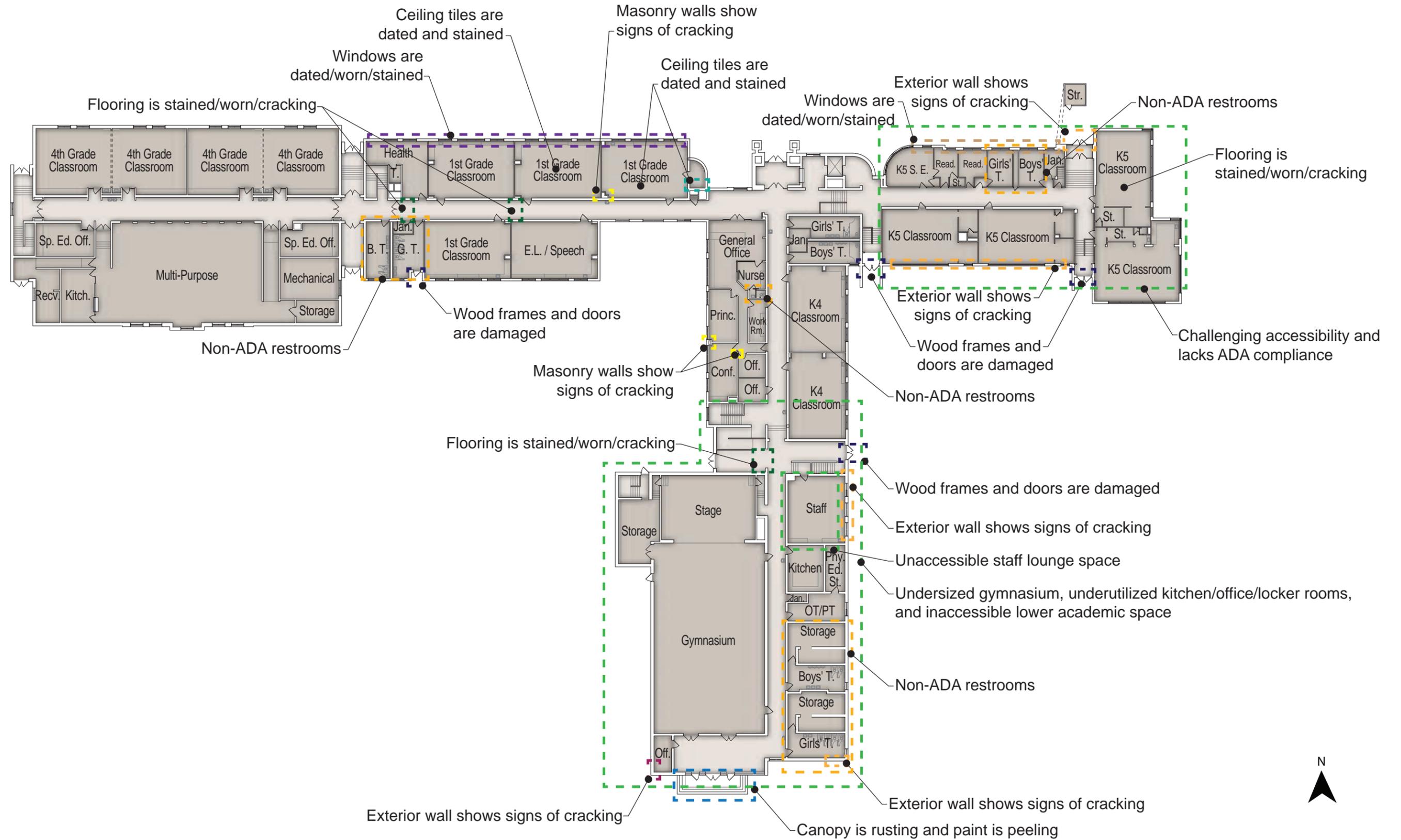
Educational Space	<ol style="list-style-type: none"> 1. Increase transparency from traditional double-loaded corridors into learning environments 2. Lack sufficient small group instructional and general resource areas to support PLeX delivery 3. Undersized gymnasium and underutilized (inaccessible) stage 4. Music and Art classrooms' size and proportion lack adequate flexibility and storage needs
Site	<ol style="list-style-type: none"> 1. Significant drop-off and pick-up challenges throughout site 2. Partial asphalt patching / repair recommended 3. No on-site visitor parking near main entry available, reliance on W. Godsell Ave.
Other	<ol style="list-style-type: none"> 1. Building has at least (7) different finish floor elevations with multiple locations lacking ADA accessible code compliance 2. Underutilized kitchen / office / locker rooms within the 1963 building portion 3. Three separate building wings with double-loaded corridors and multiple levels provides an inefficient and congested building circulation





LOWER FLOOR PLAN NEEDS ASSESSMENT
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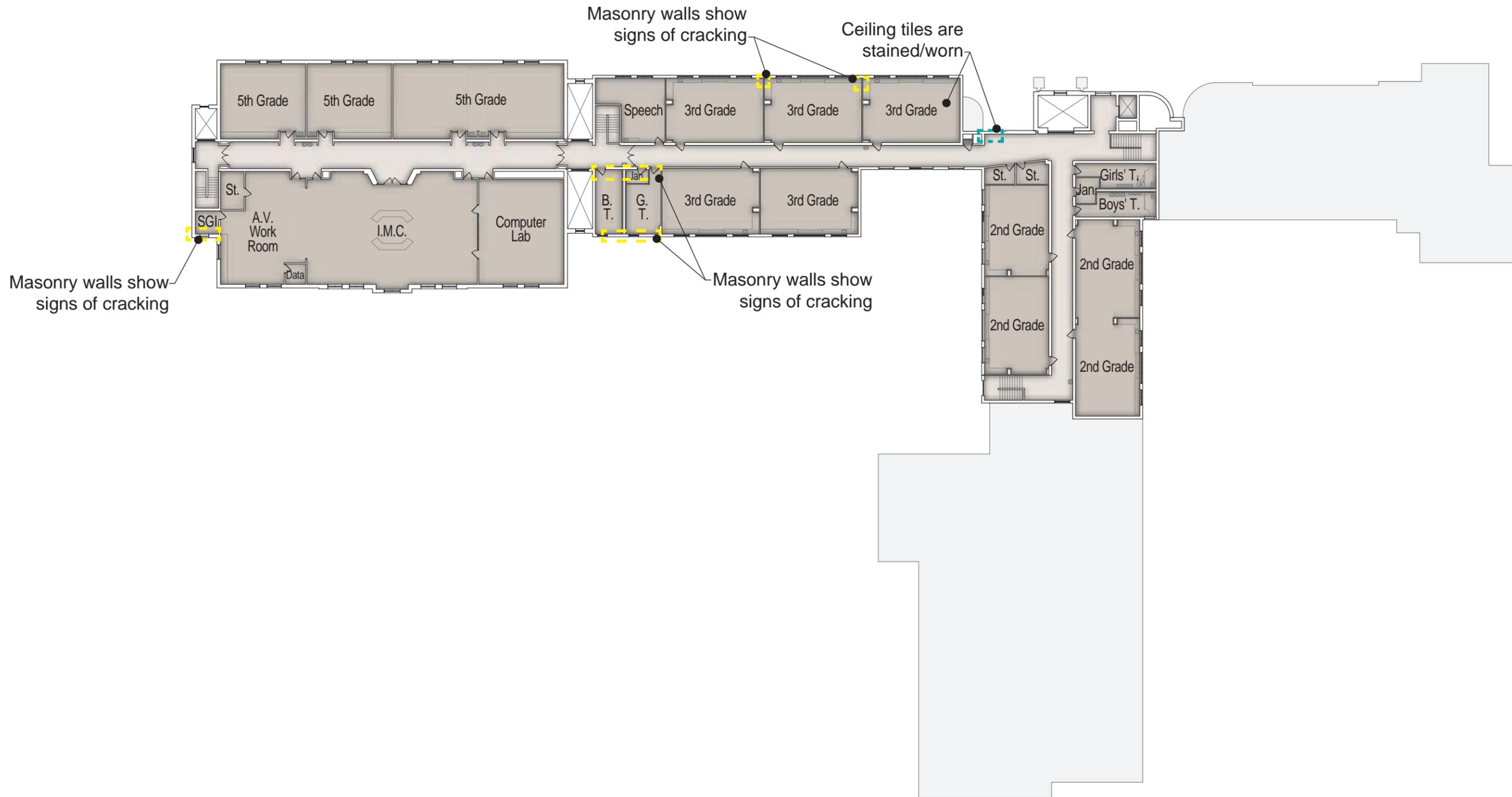




FIRST FLOOR PLAN NEEDS ASSESSMENT

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SECOND FLOOR PLAN NEEDS ASSESSMENT
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WHITNALL MIDDLE SCHOOL: NEEDS ASSESSMENT

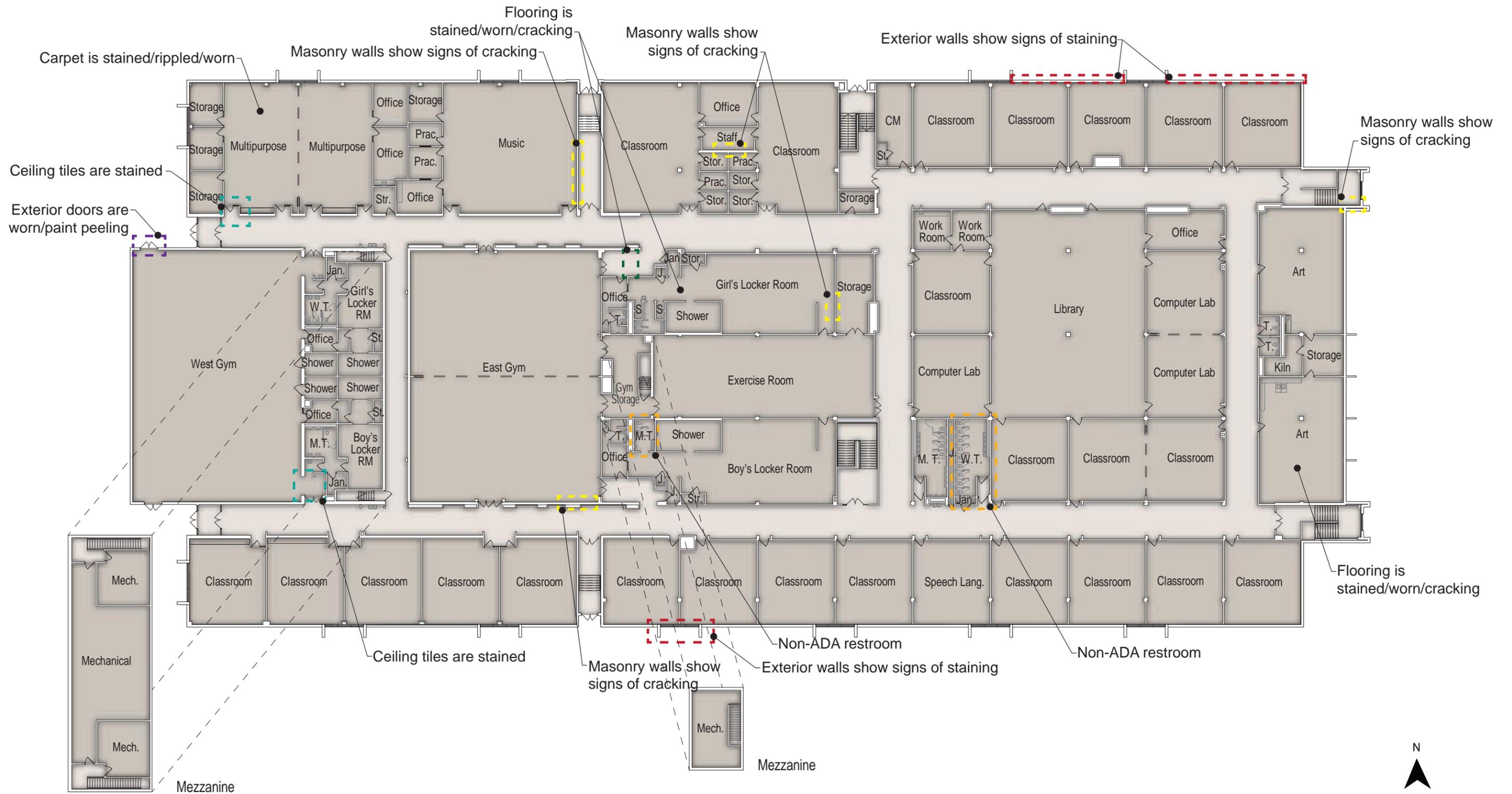
Area of Need	Elementary Schools
Infrastructure & Building Systems	<ol style="list-style-type: none"> 1. Replace leaking base-mounted heating system pumps 2. Replace aging constant volume air handling unity serving the East Gym 3. Replace door transfer grille relief system with code approved system 4. Install digital HVAC controls system throughout building 5. Replace the electrical service switchboard, including surge protection device 6. Replace all existing transformers, panelboards and switchboards throughout the facility 7. Install additional electrical recepticals as needed to support operational and educational needs 8. LED light fixture replacement throughout recommended 9. Install additional exterior (LED) lighting for added visibility and code compliant emergency egress lighting 10. Replace existing fire alarm system to achieve required code compliance 11. Extend existing data distribution and add additional data racks as required 12. Install new grease interceptor in kitchen for dishwasher to achieve code compliance 13. Replacement of hot water systems with inclusion of water softening system 14. Replace plumbing fixtures with water conserving and ADA compliant fixtures 15. Patch / repair cracked interior and exterior masonry 16. Patch / replace damaged interior flooring and ceiling surfaces 17. ADA code compliance challenges at existing interior doors and restrooms 18. Replace exterior hollow metal doors and frames
Safety & Security	<ol style="list-style-type: none"> 1. Vehicle congestion and speed pose safety concern on 116th Street (also see Site) 2. Recommended HVAC code compliance recommendations (also see Infrastructure / Building Systems) 3. Recommended electrical updates, security camera extension and fire alarm replacement (also see Infrastructure / Building Systems)
Educational Space	<ol style="list-style-type: none"> 1. Increase transparency from traditional double-loaded corridors into learning environments 2. Create student-centered personalized learning spaces throughout 3. Improve STEM / STEAM educational spaces to support evolving curricular development
Site	<ol style="list-style-type: none"> 1. Vehicle congestion and speed pose safety concern on 116th Street (also see Safety & Security)
Other	-





LOWER FLOOR PLAN NEEDS ASSESSMENT
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FIRST FLOOR PLAN NEEDS ASSESSMENT
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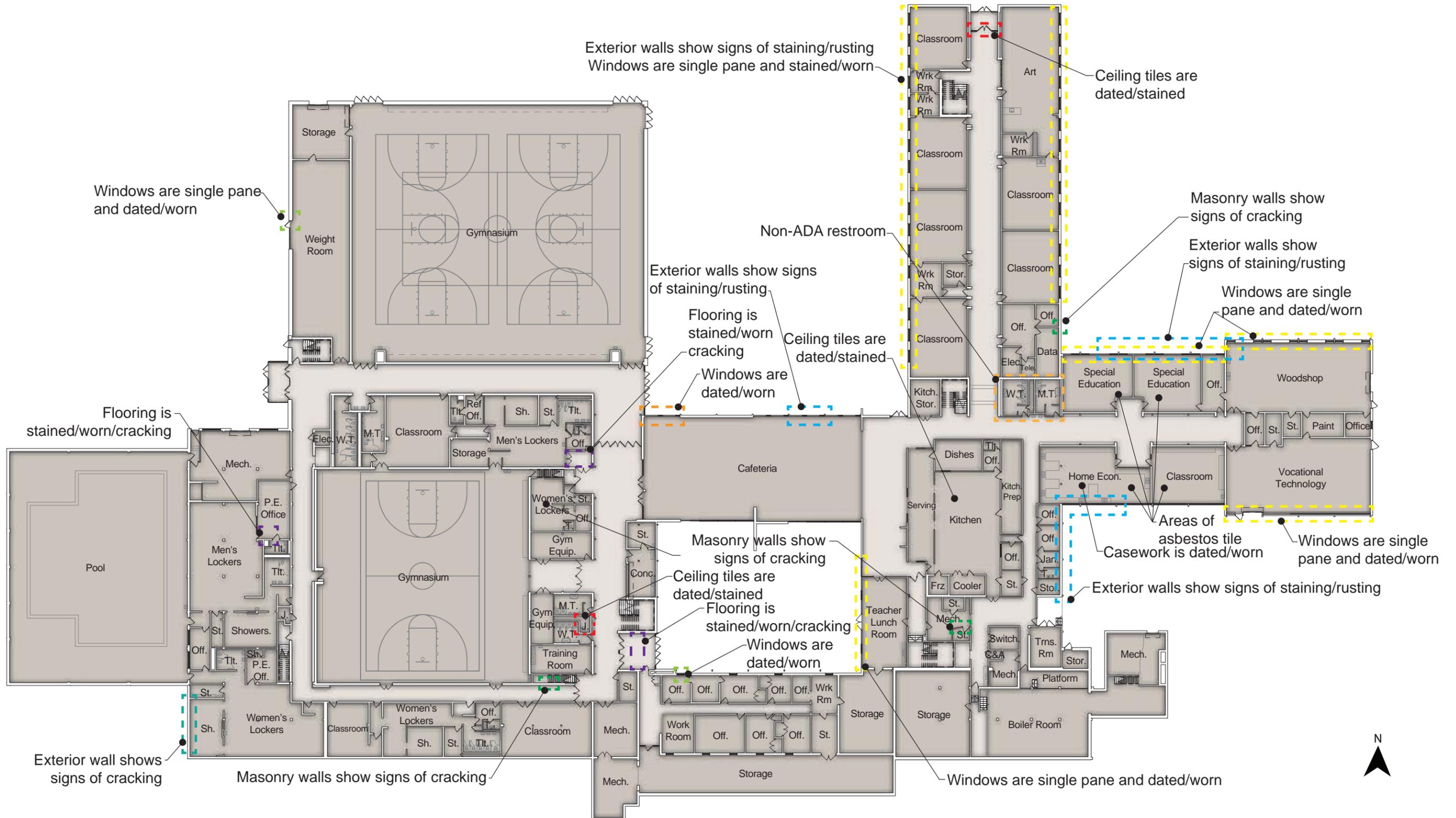
WHITNALL HIGH SCHOOL: NEEDS ASSESSMENT

Area of Need	Elementary Schools
<p>Infrastructure & Building Systems</p>	<ol style="list-style-type: none"> 1. Repair exterior building façade and site drainage to eliminate water infiltration from internal courtyard to Cafeteria 2. Replace hot water boiler plant and associated pumping system 3. Replace unit ventilators 4. Replace fan coil units 5. Replace induction system 6. Replace air handlers original to the building (locker rooms, dance, classroom 280, south gym, band/music, etc.) 7. Replace HVAC system serving the Kitchen 8. Replace the pool ventilation system 9. Addition of air condition to the North Gym and Weight Room, including humidification controls 10. Install digital HVAC controls system throughout building 11. Replace switchboard 12. Install additional ventilation at sub-station rooms to extend transformer life 13. Replace existing panelboards original to 1959, 1966 and 1999 building sections 14. Install additional electrical recepticals as needed throughout 15. Consider LED lighting replacements 16. Install additional exterior lighting for added visibility and code compliant emergency egress lighting 17. Replace existing fire alarm system to achieve required code compliance 18. Extend existing data distribution and add additional data racks as required 19. Replace existing master clock / bell scheduler 20. Extend security cameras, keyless entry system and intrusion alarm recommended 21. Install new grease interceptor for kitchen dishwasher 22. Replace plumbing fixtures with water conserving and ADA compliant fixtures
<p>Safety & Security</p>	<ol style="list-style-type: none"> 1. Vehicle congestion and speed pose safety concern on 116th Street (also see Site) 2. Recommended HVAC code compliance recommendations (also see Infrastructure / Building Systems) 3. Recommended electrical updates, security camera extension and fire alarm replacement (also see Infrastructure / Building Systems) 4. Install additional exterior lighting to increase visibility and safety

WHITNALL HIGH SCHOOL: NEEDS ASSESSMENT

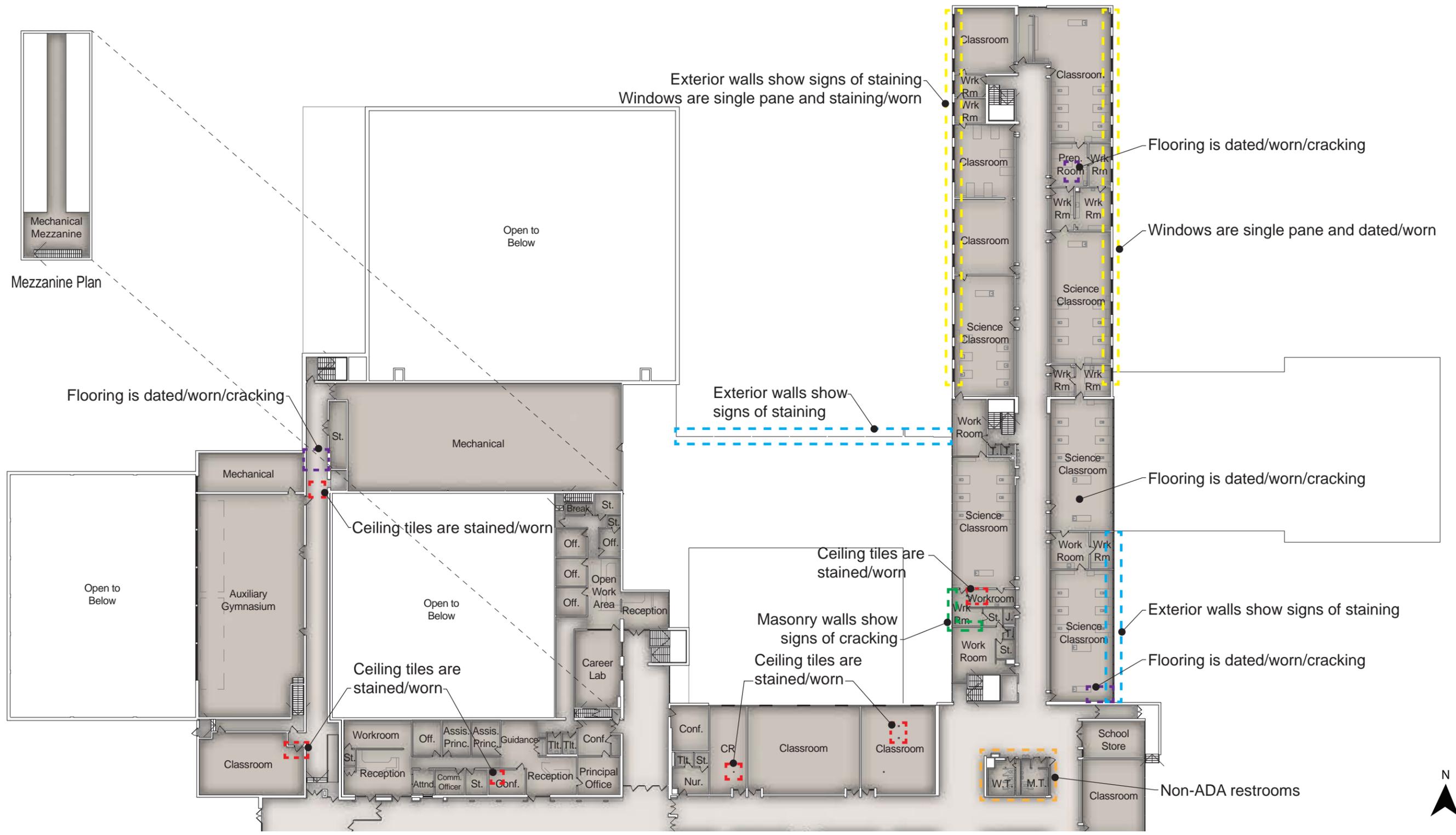
Educational Space	<ol style="list-style-type: none"> 1. Increase cafeteria seating capacity as limited current space creates (3) lunch periods which has negatively impact on class scheduling and educational environments 2. Create adequate special education space 3. Update and enhance technical education and art space, coordinate with emerging STEM curriculum 4. Review overall educational building organization to maximize educational adjacencies and staff / student movement 5. Repair, reorganize and update the music / fine arts department to support adequate acoustical control and equipment storage 6. Reinvision library as student success / resource center to maximize existing space utilization 7. Create student-centered personalized learning spaces throughout
Site	<ol style="list-style-type: none"> 1. Vehicle congestion and speed pose safety concern on 116th Street (also see Safety & Security)
Other	<ol style="list-style-type: none"> 1. Create dedicated spectator pool access and improve spectator seating





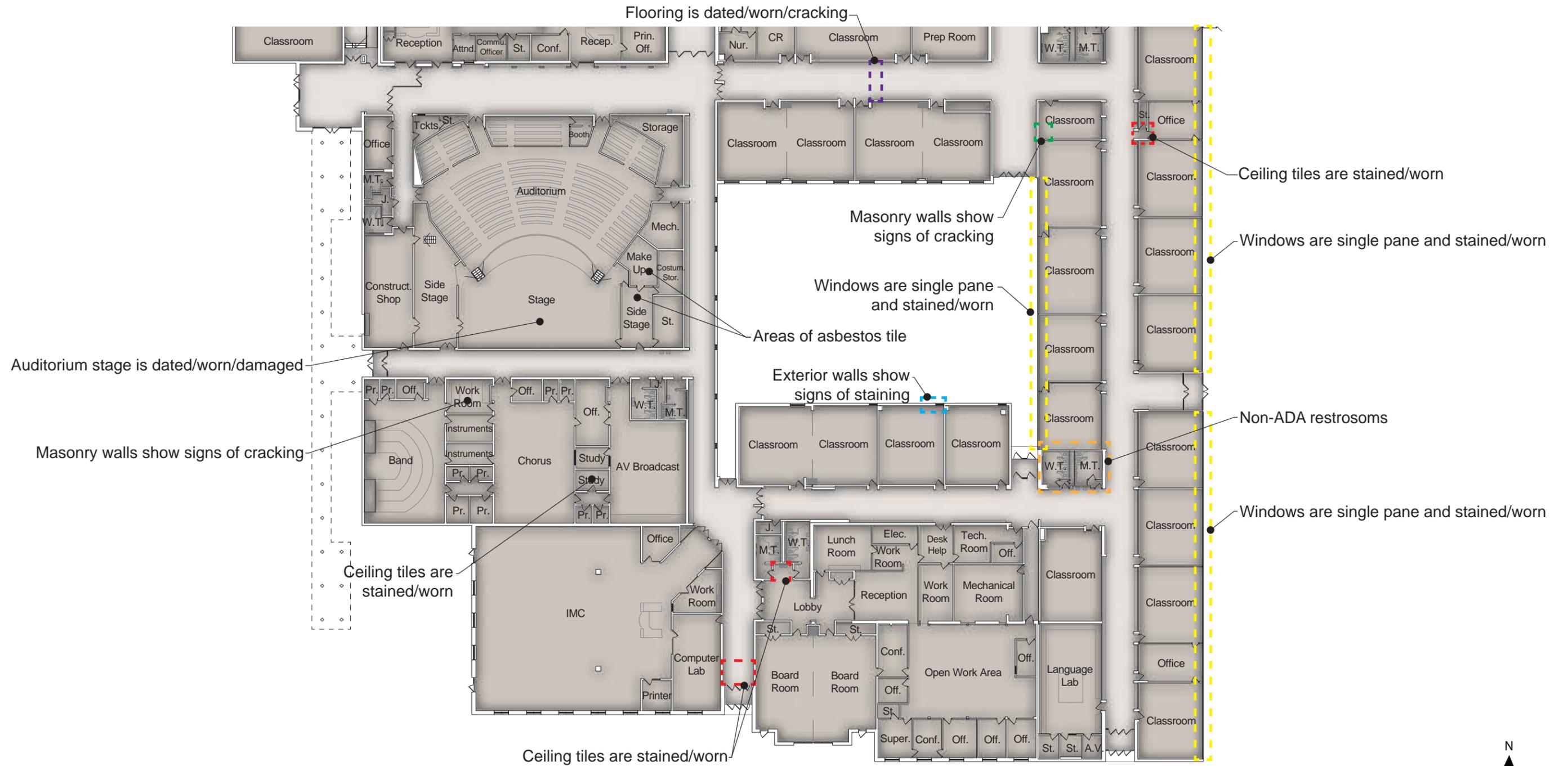
LOWER FLOOR PLAN NEEDS ASSESSMENT
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NORTH FIRST FLOOR PLAN NEEDS ASSESSMENT
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SOUTH FIRST FLOOR PLAN NEEDS ASSESSMENT

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