

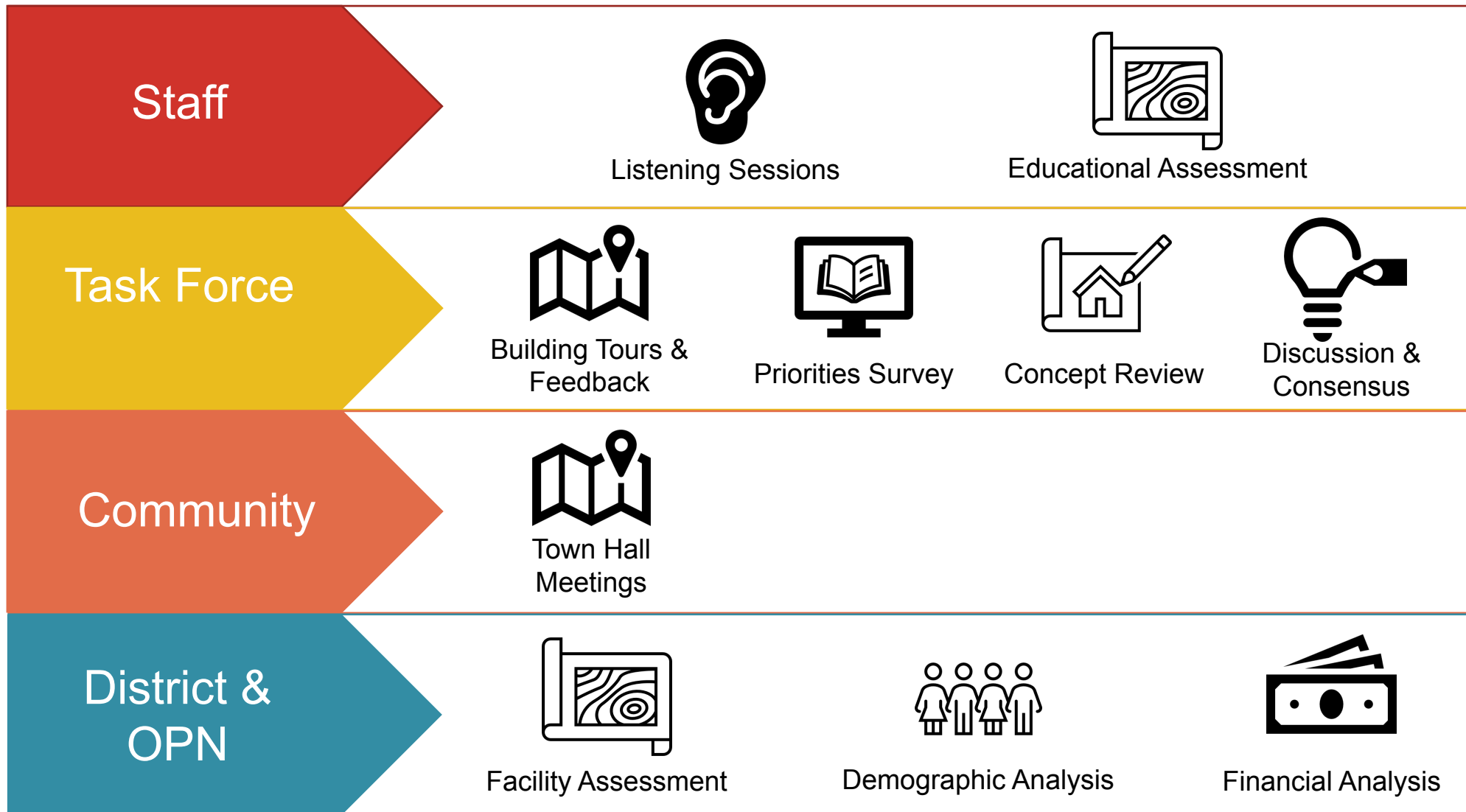
Facilities Master Plan

Task Force Meeting #7

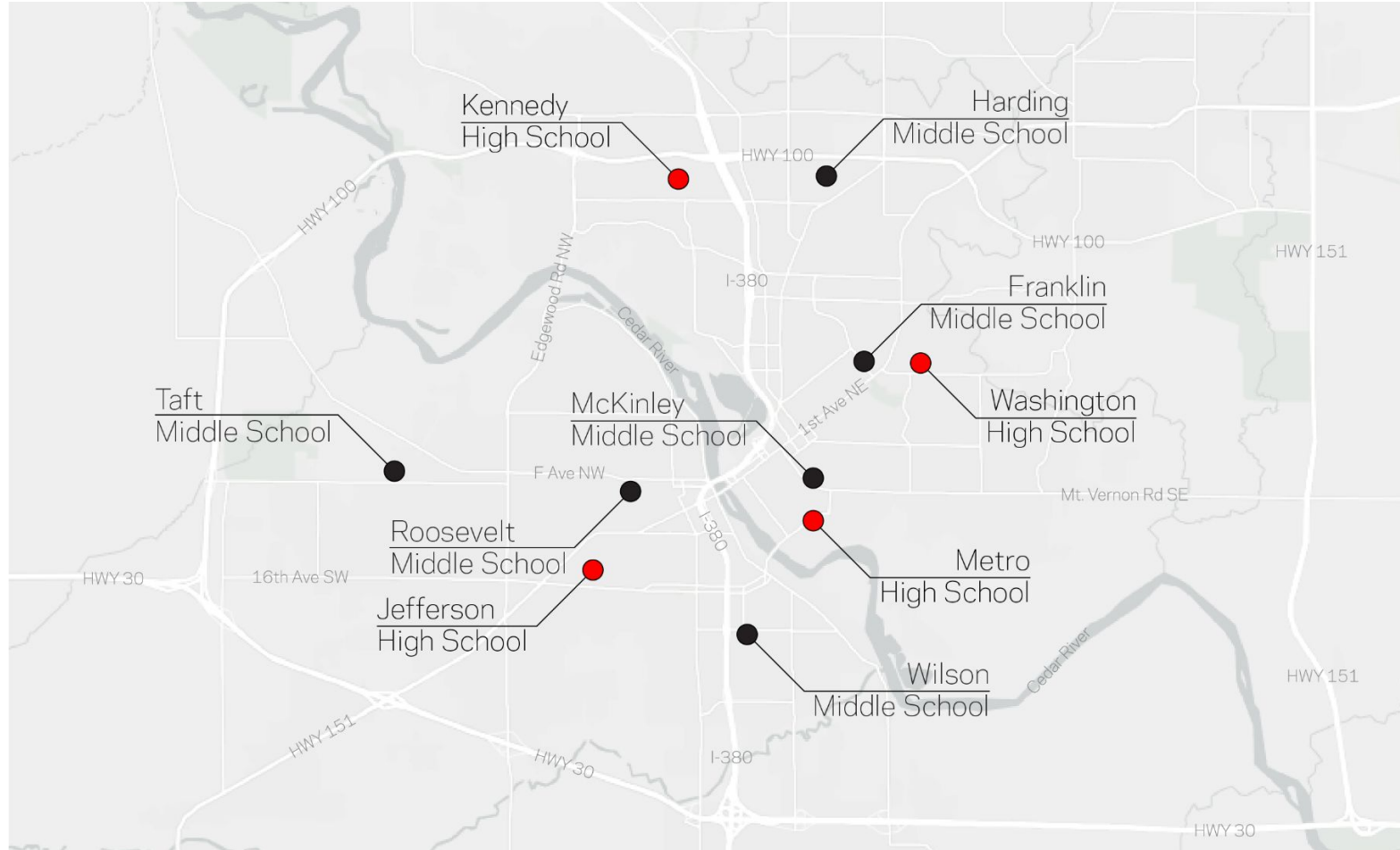
February 22, 2022

Agenda

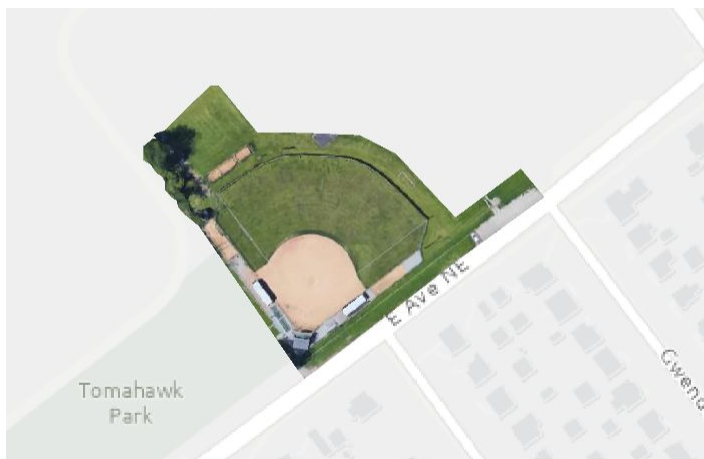
- Welcome and Check-In
- OPN Update on Secondary Data Collection
- Small Group Discussion
- Elementary Discussion
- Closure



District Middle & High Schools



Facility Assessment



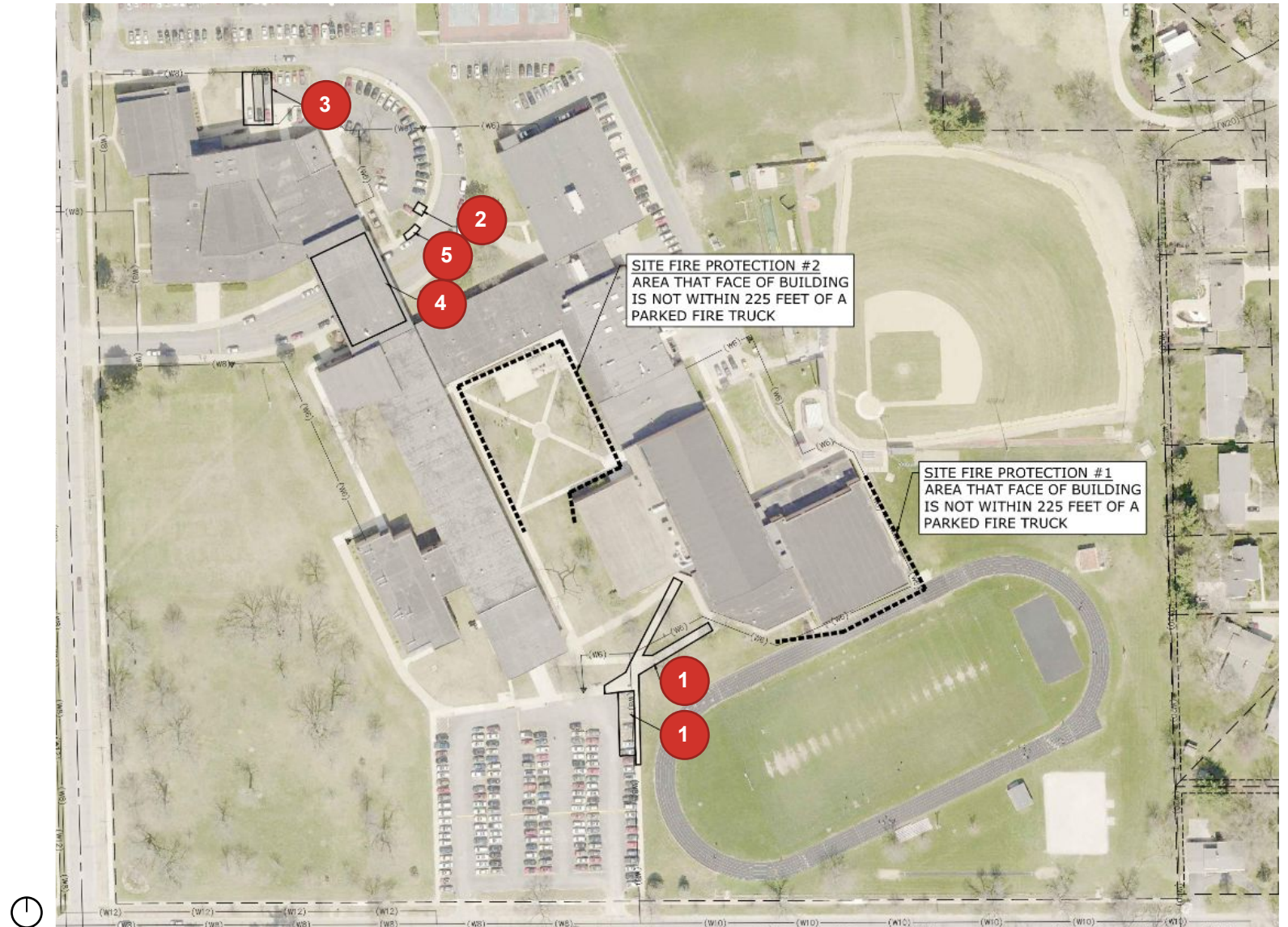
Washington High School

318,831 GSF SCHOOL SIZE
815 NSF AVG CLASSROOM

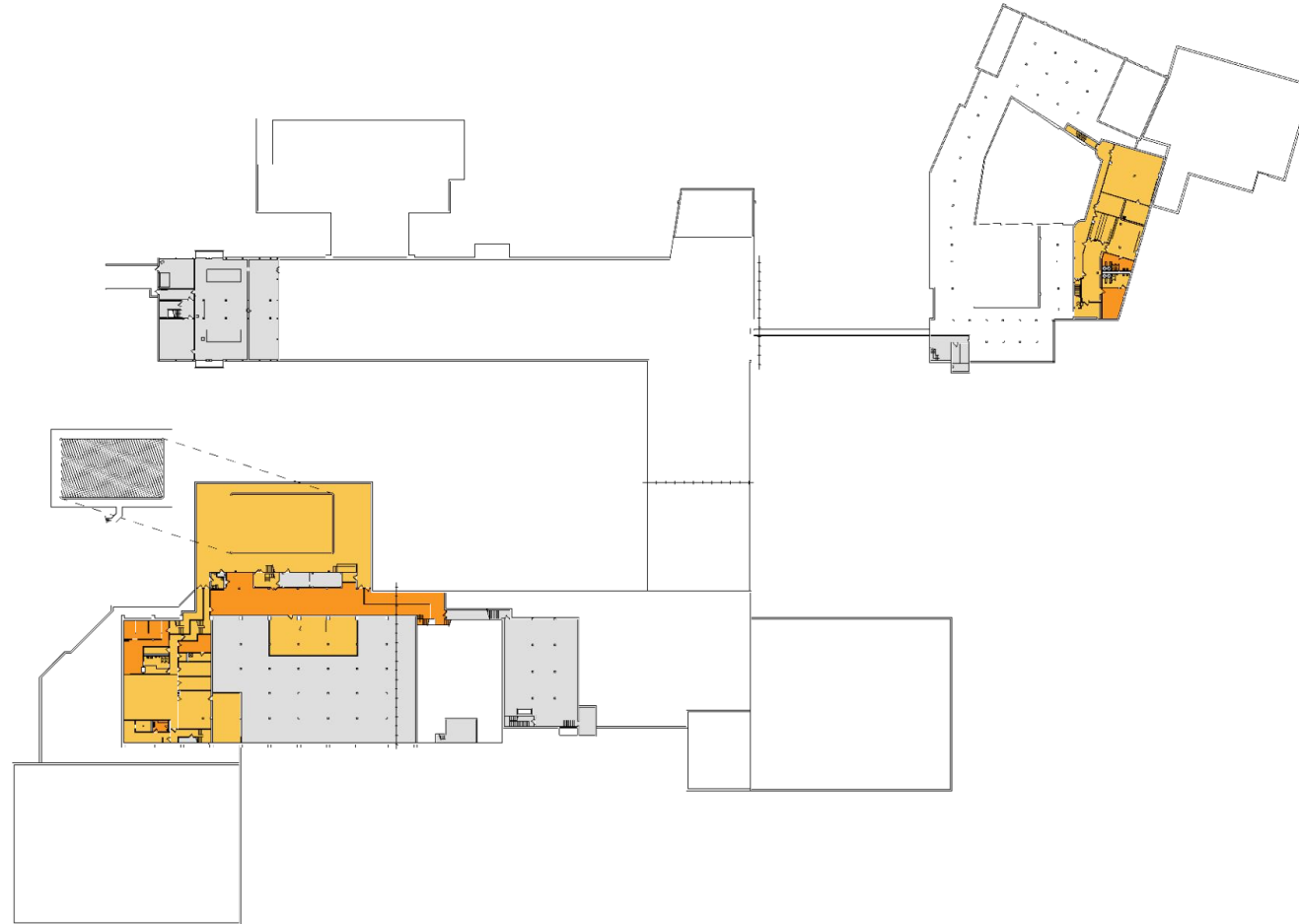


Site Deficiencies

1. Accessible stalls exceed 2% max slope, ramp is non compliant, sidewalk cross slope exceeds 2%, pavement differential exceeds 1/2" at joint line
2. Pavement differential exceeds 1/2" at joint line, and non compliant curb @ curb ramp
3. Accessible stall exceed 2% max , no stripped path to ramp
4. Ramps exceed max 8.33% slope, accessible path not designated either side
5. Walk exceeds 2% cross slope



Floor Assessment / **Washington High School**



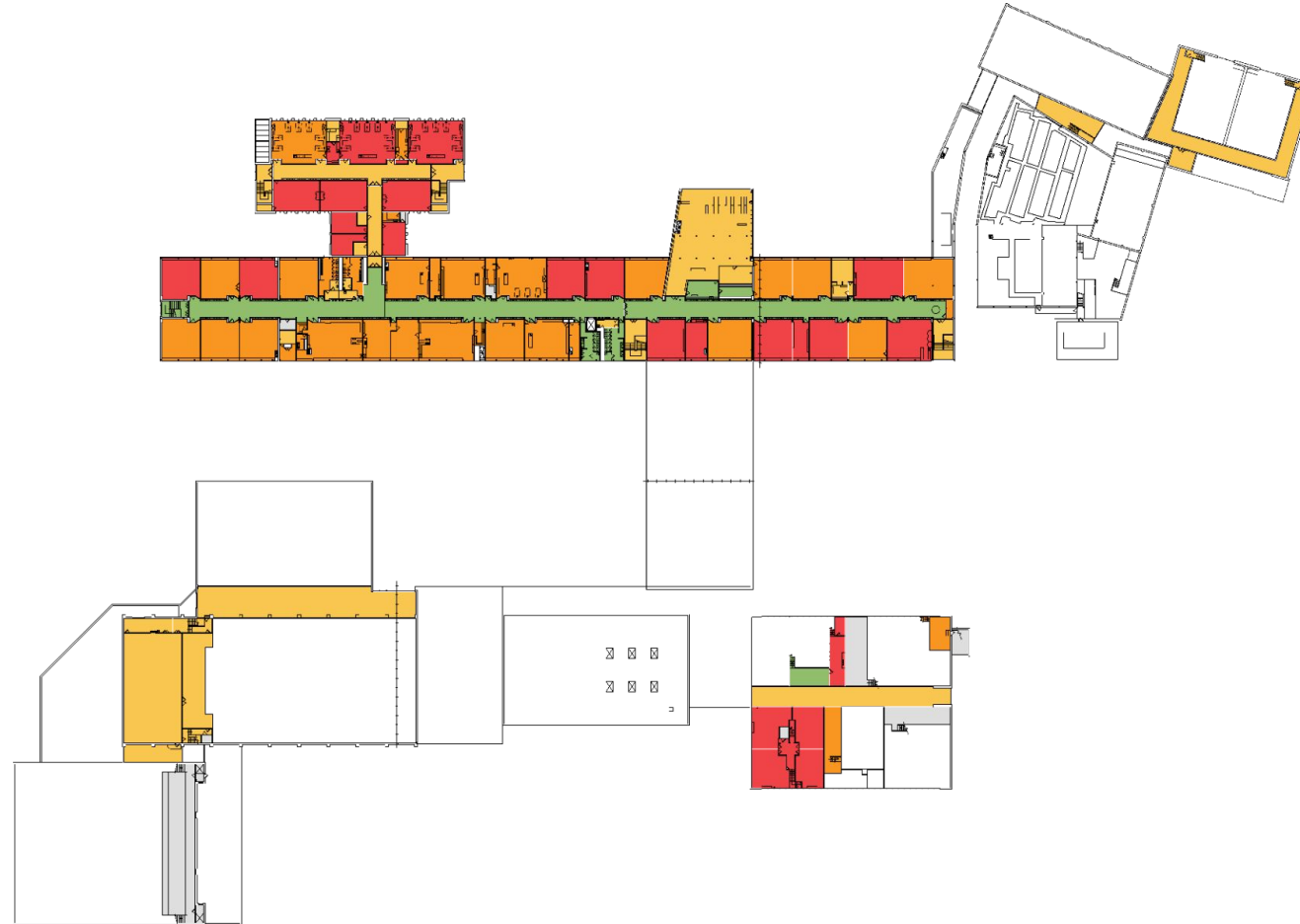
Lower Level

Floor Assessment / **Washington High School**



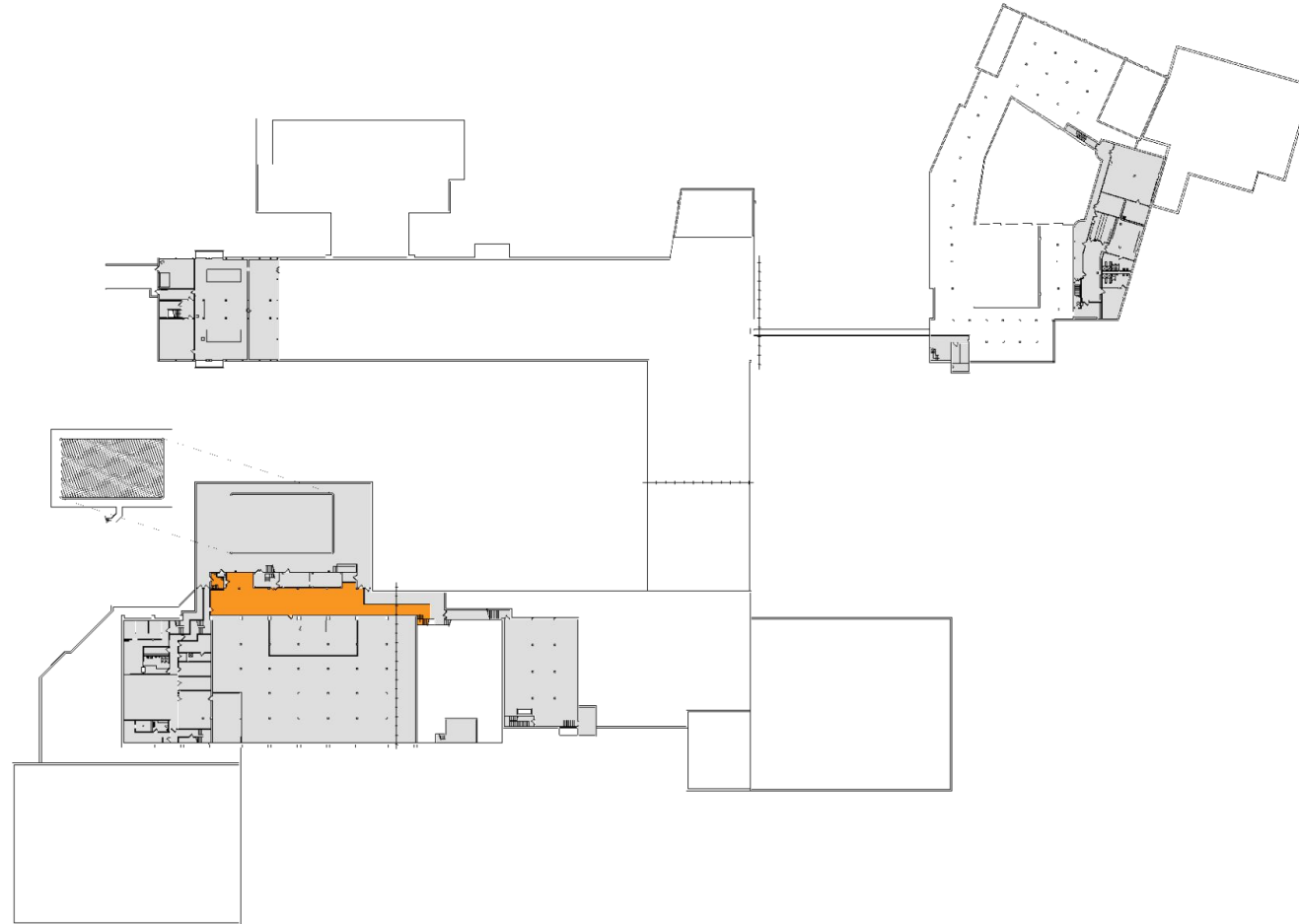
Level 1

Floor Assessment / **Washington High School**



Level 2

Ceiling Assessment / **Washington High School**



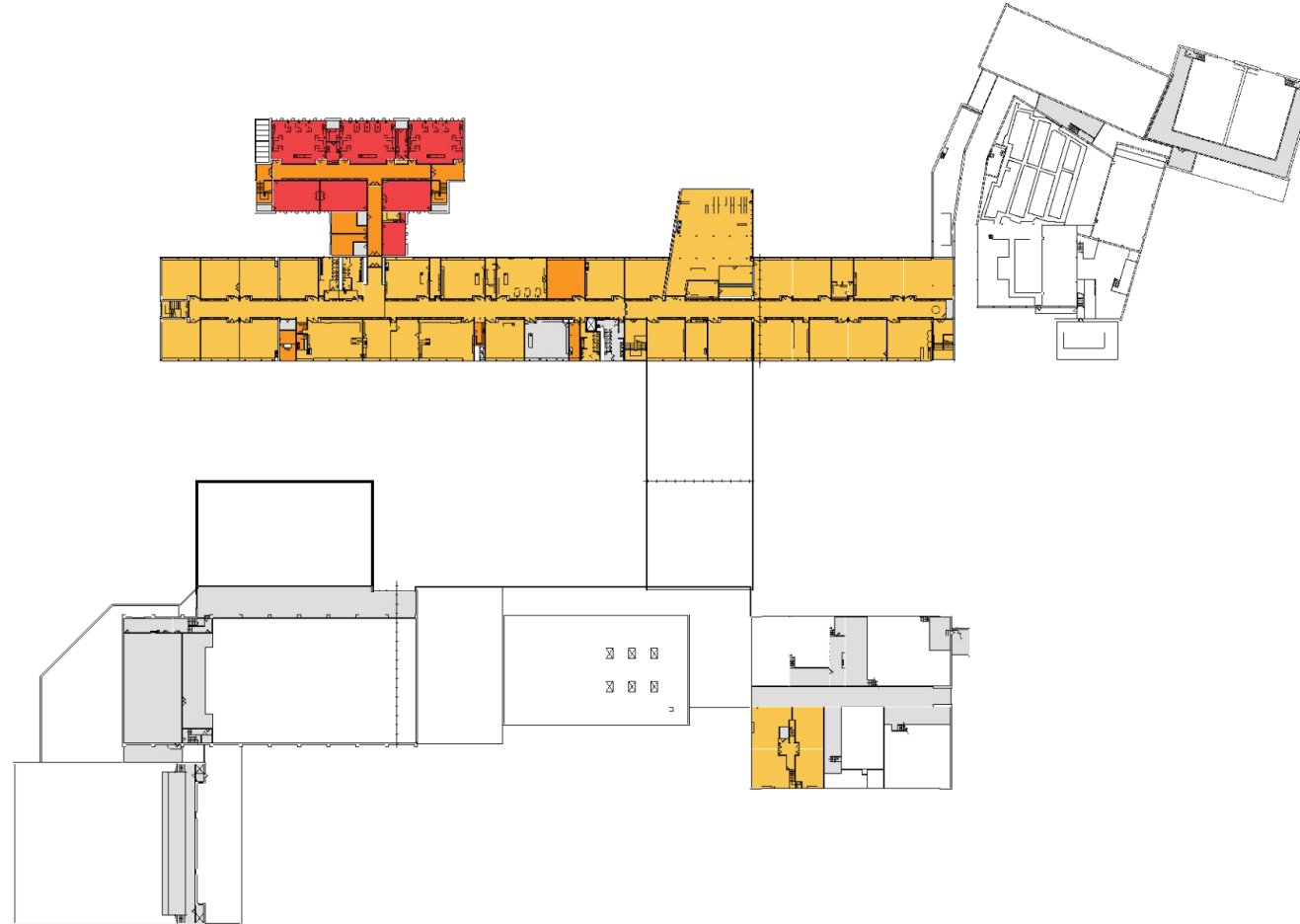
⌚ Lower Level

Ceiling Assessment / **Washington High School**



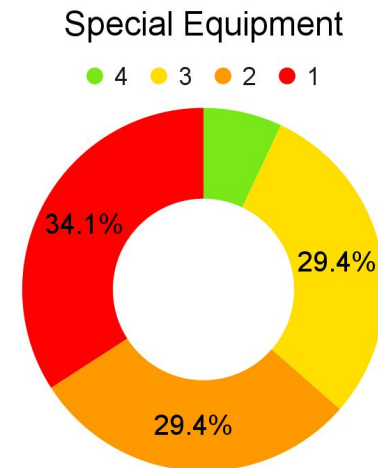
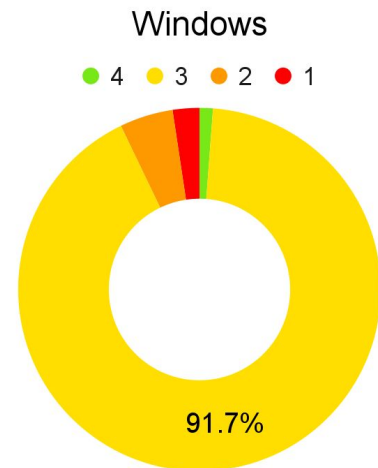
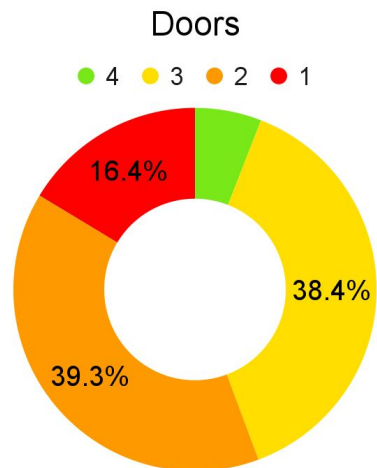
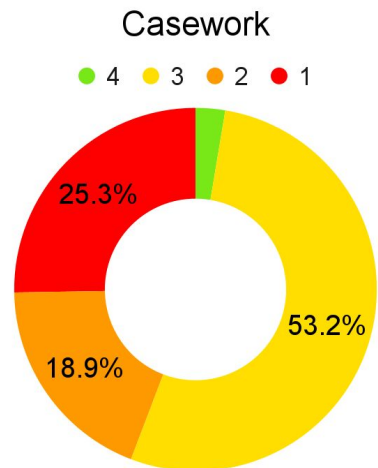
Level 1

Ceiling Assessment / **Washington High School**

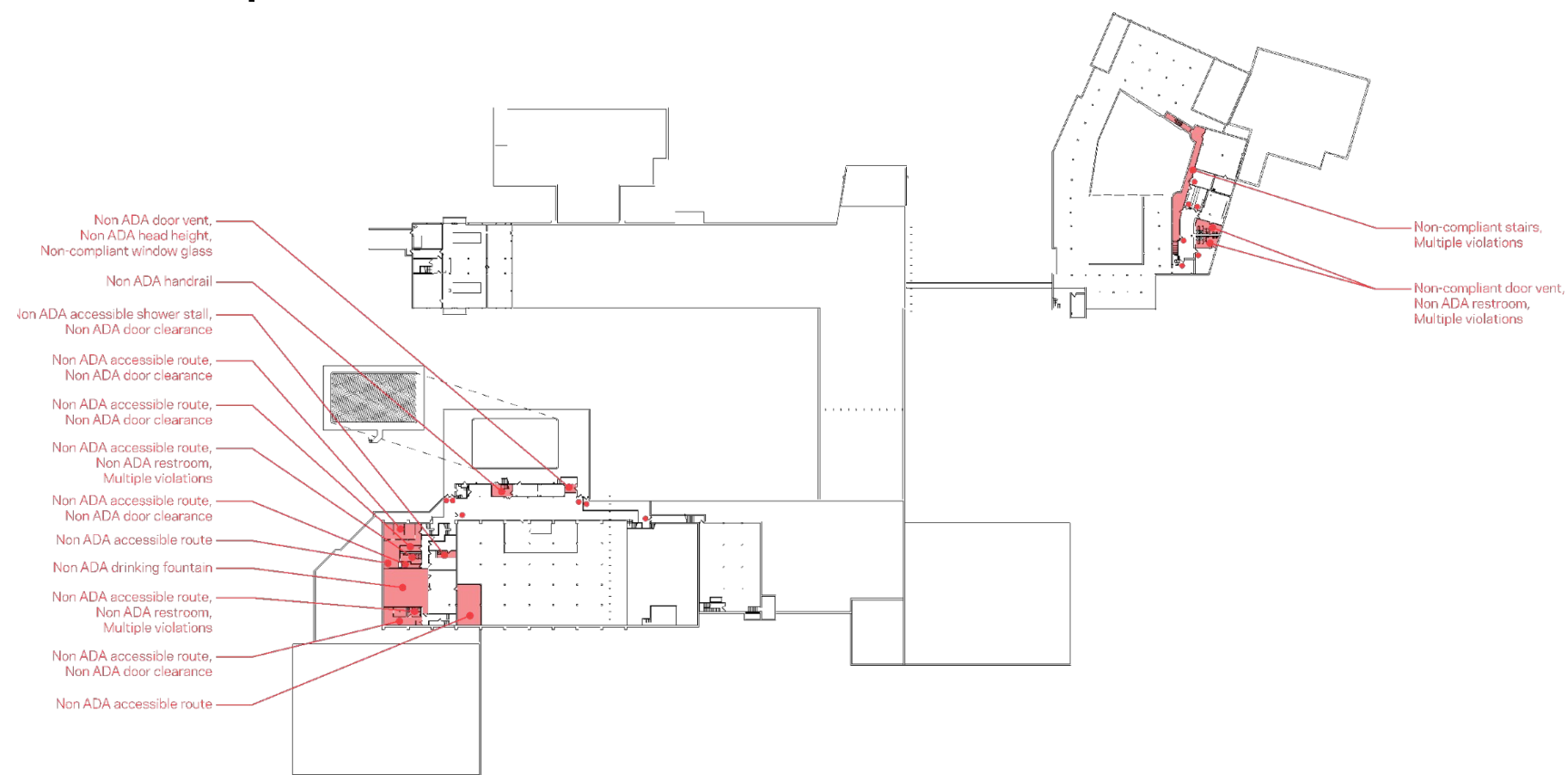


Level 2

Additional Assessments / Washington High School

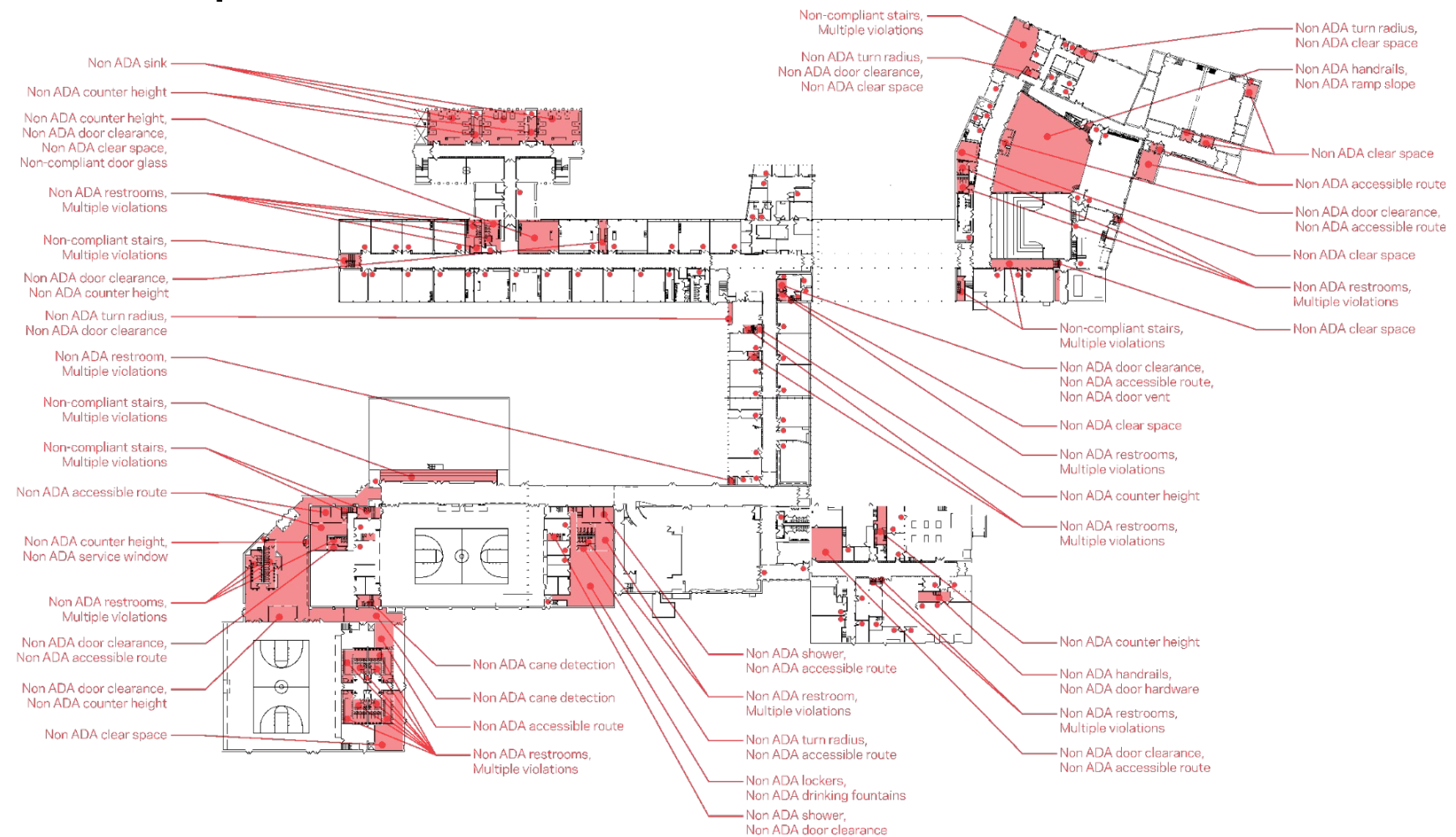


ADA/Code Compliance



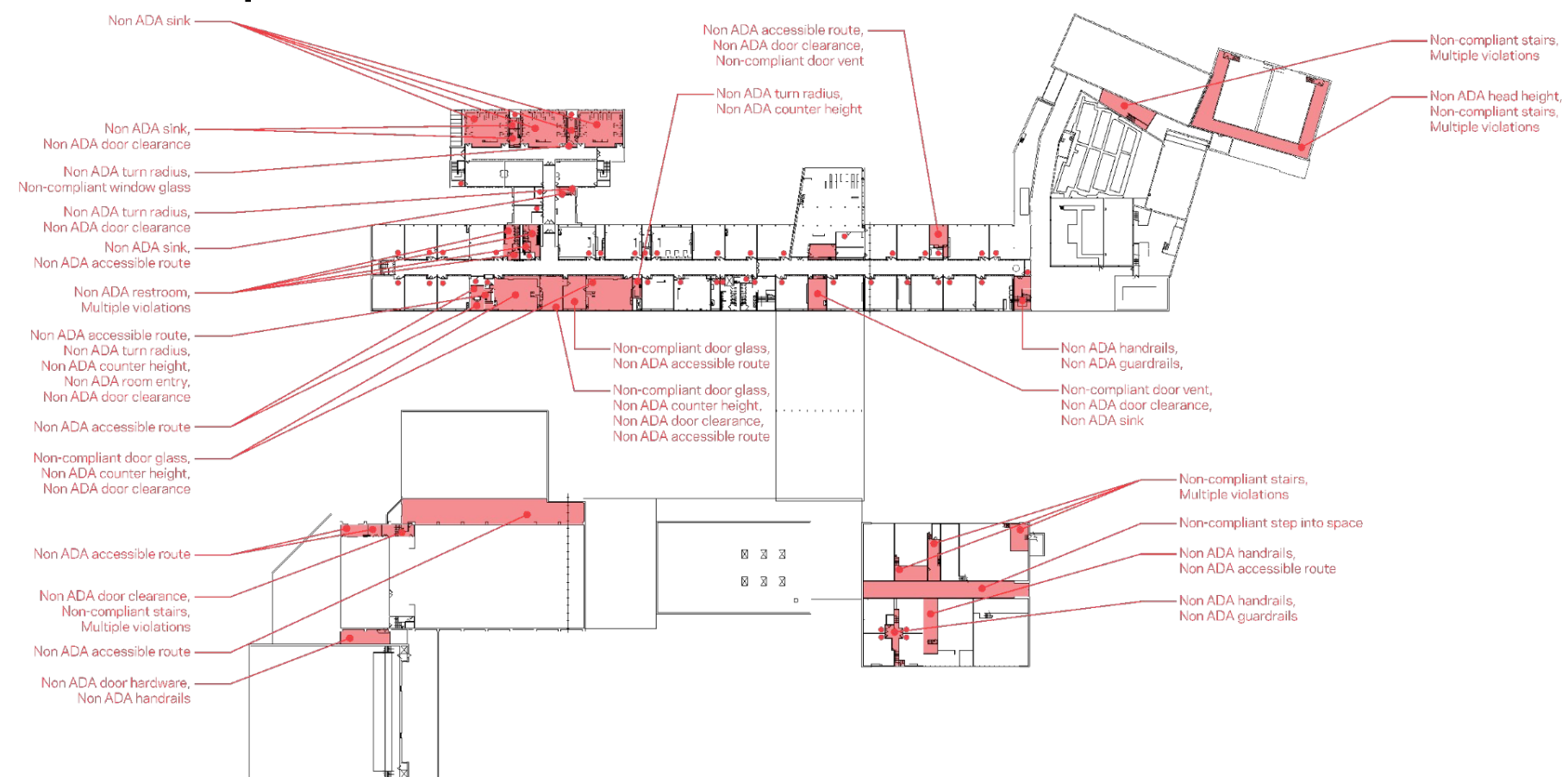
Lower Level

ADA/Code Compliance



Level 1

ADA/Code Compliance



Level 2

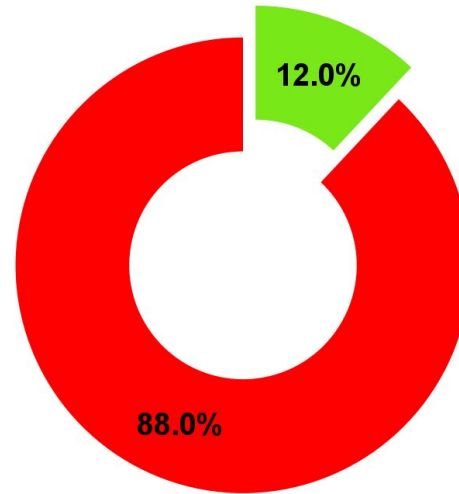
ADA/Code Compliance

1. Non-compliant entrances to classrooms
2. Non-compliant fixtures and stalls in restrooms
3. Non ADA casework and sinks
4. Non-compliant stairs/guardrails and handrails
5. Non-compliant accessible route to locker rooms
6. Non-compliant locker room showers and restrooms
7. Non-compliant casework/display case barriers
8. Non-compliant glass in corridors

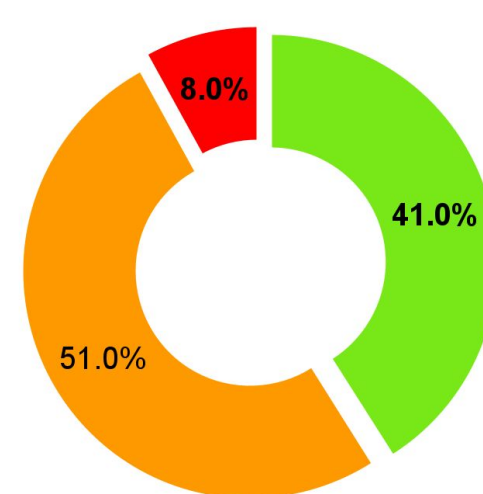
Mechanical

Fire Suppression		
	Science & Fine Arts	Good
	Main building	No Coverage
Plumbing		
	Fixtures	Adequate
	Supply Piping	Adequate
	Drain Piping	Adequate
	Vent Piping	Replace
HVAC		
	Main Bldg Terminal Heat Pumps	Replace
	Ventilation Air Handling Equipment	Refurbish
	Sci / Fine Arts HVAC	Replace
	HVAC Piping	Good
	HVAC Controls	Replace
	Geothermal Wells	Good

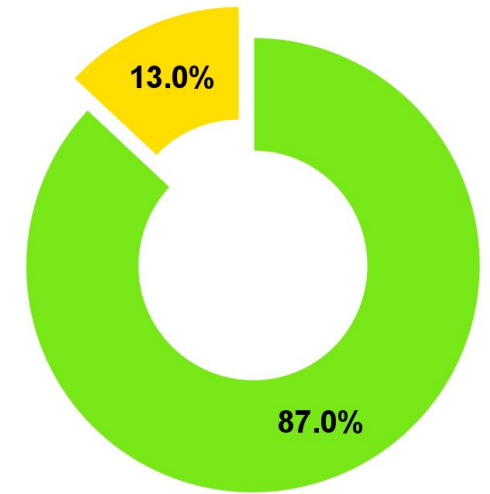
Fire Suppression



HVAC



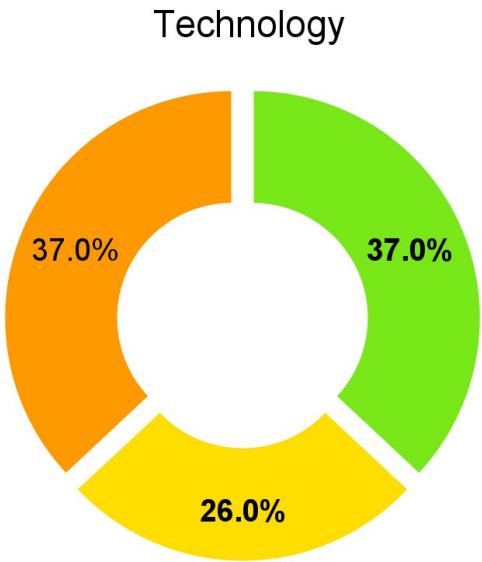
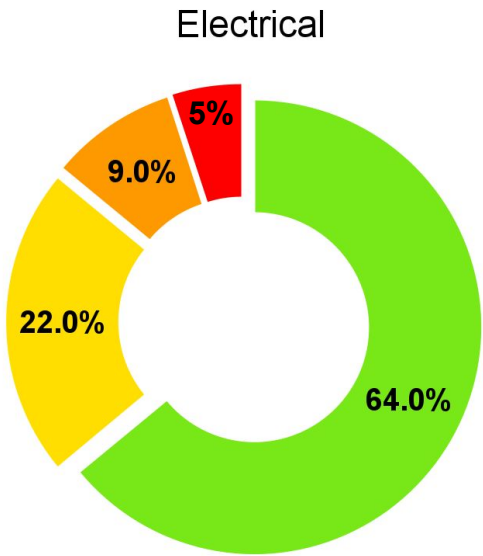
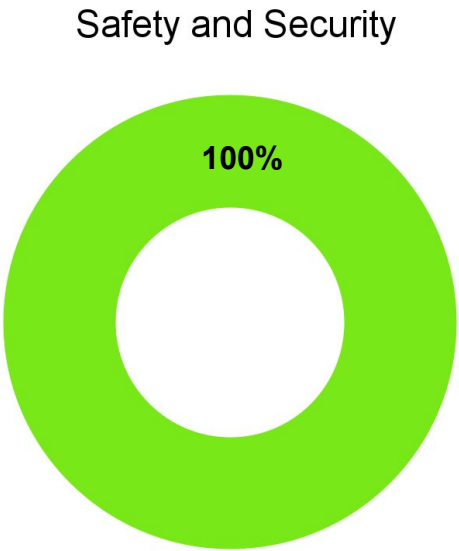
Plumbing



KEY	
Very Poor	0-5 yrs
Poor	5-10 yrs
Fair	10-15 yrs
Good	15-20 yrs

Electrical

	System	Notes
ELECTRICAL	General Lighting & Controls	Partial Replacement
	Theater Lighting & Controls	Replace
	Emergency Light Systems	Adequate
	Power System - 480V Service	Good
	Power System - 208V Service	Replace
	Power System - Branch Panels 1980 & Older	Replace
	Power System - Branch Panels 1980 & Newer	Adequate
TECH.	IT Network	Replace
	Clocks	Good
	Paging System	Good
	Classroom A/V System	Replace
SAFETY & SECURITY	Door Entry Station	Good
	Access Control	Adequate
	Cameras	Adequate
	Fire Alarm	Good



KEY	
Very Poor	0-5 yrs
Poor	5-10 yrs
Fair	10-15 yrs
Good	15-20 yrs

Assessment Cost

Site Improvements	\$	103,320	
Building Exterior	\$	4,894,259	
Interior Deficiencies	\$	5,265,527	
Mechanical	\$	8,817,261	
Electrical	\$	3,340,000	
Food Service	\$	0	
General Conditions	\$	1,345,222	
	SUBTOTAL		\$ 23,765,588



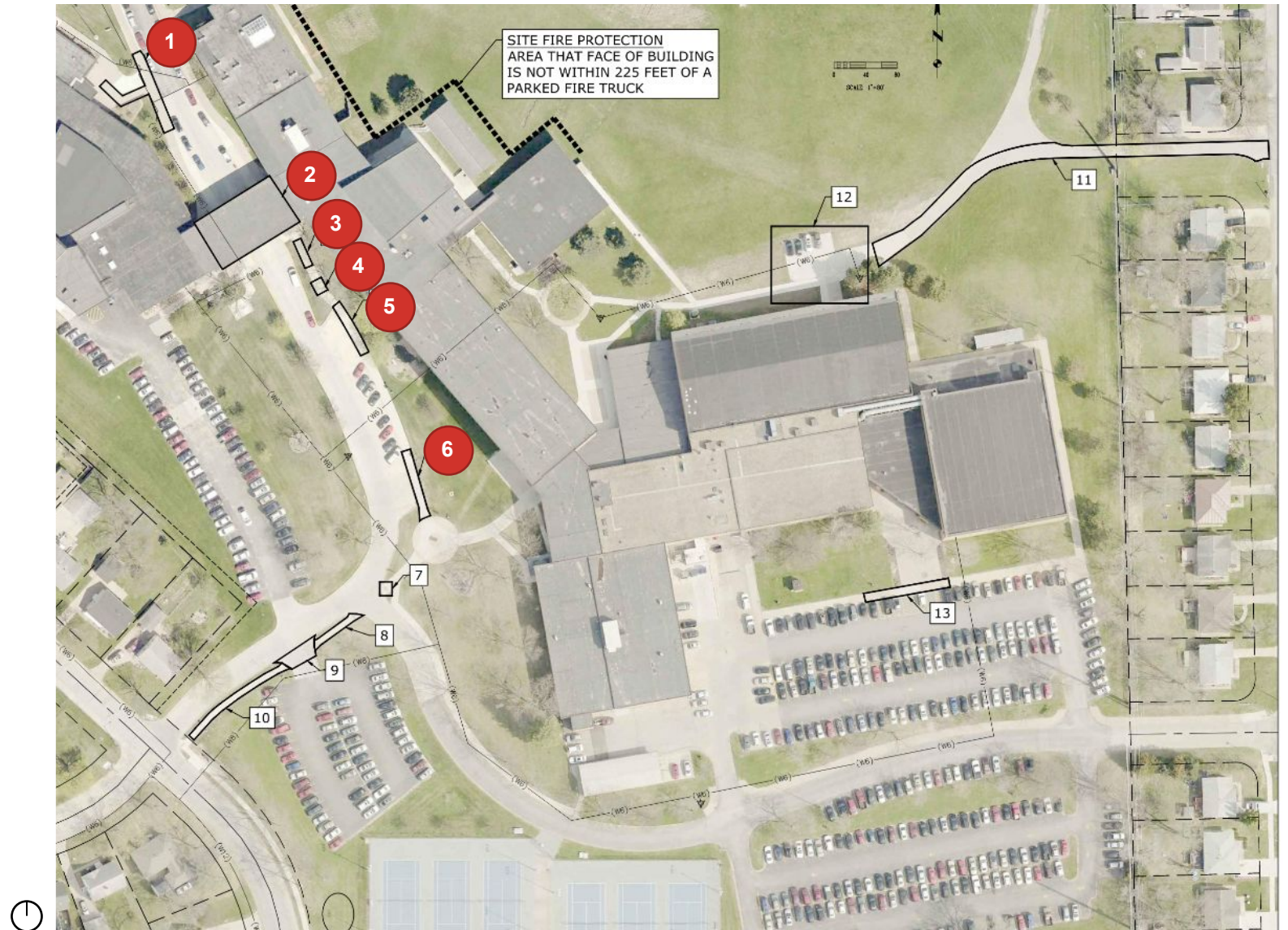
Jefferson High School

341,018 GSF SCHOOL SIZE
750 NSF AVG CLASSROOM



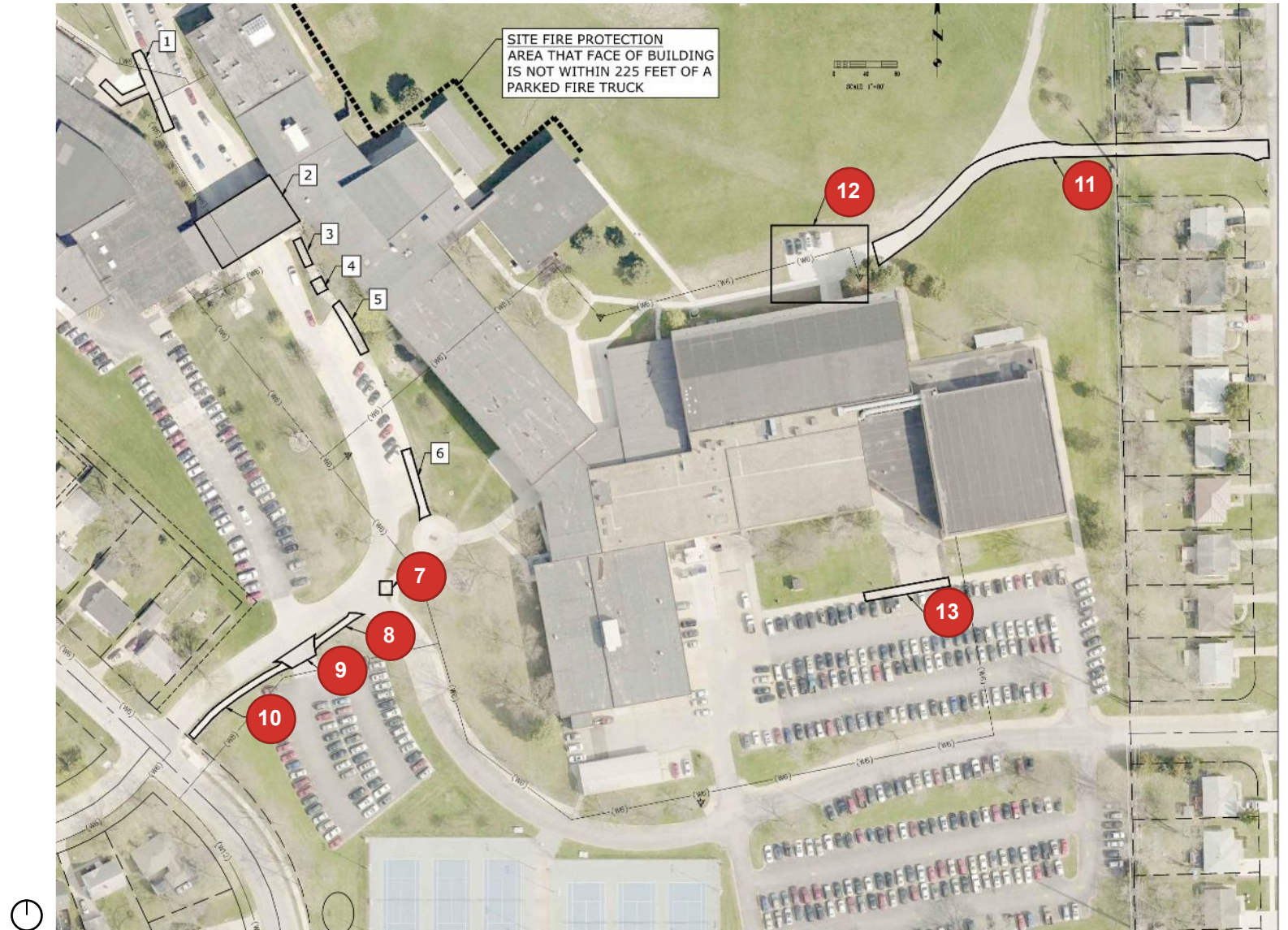
Site Deficiencies

1. Ramp cross slope exceeds 2%, ramp longitudinal slope exceeds 5%. wrong parking space marked as accessible, cracking and joint differential exceeds 1/2", and non compliant curb ramp location for accessible stall
2. Cross slope exceeds 2%
3. Accessible route exceeds 2% cross slope
4. Joint differential exceeds 1/2", cross slope exceeds 2%
5. Cross slope exceeds 2%, ramp longitudinal slope exceeds 8.33%
6. Cross slope exceeds 2%, ramp longitudinal slope exceeds 8.33%

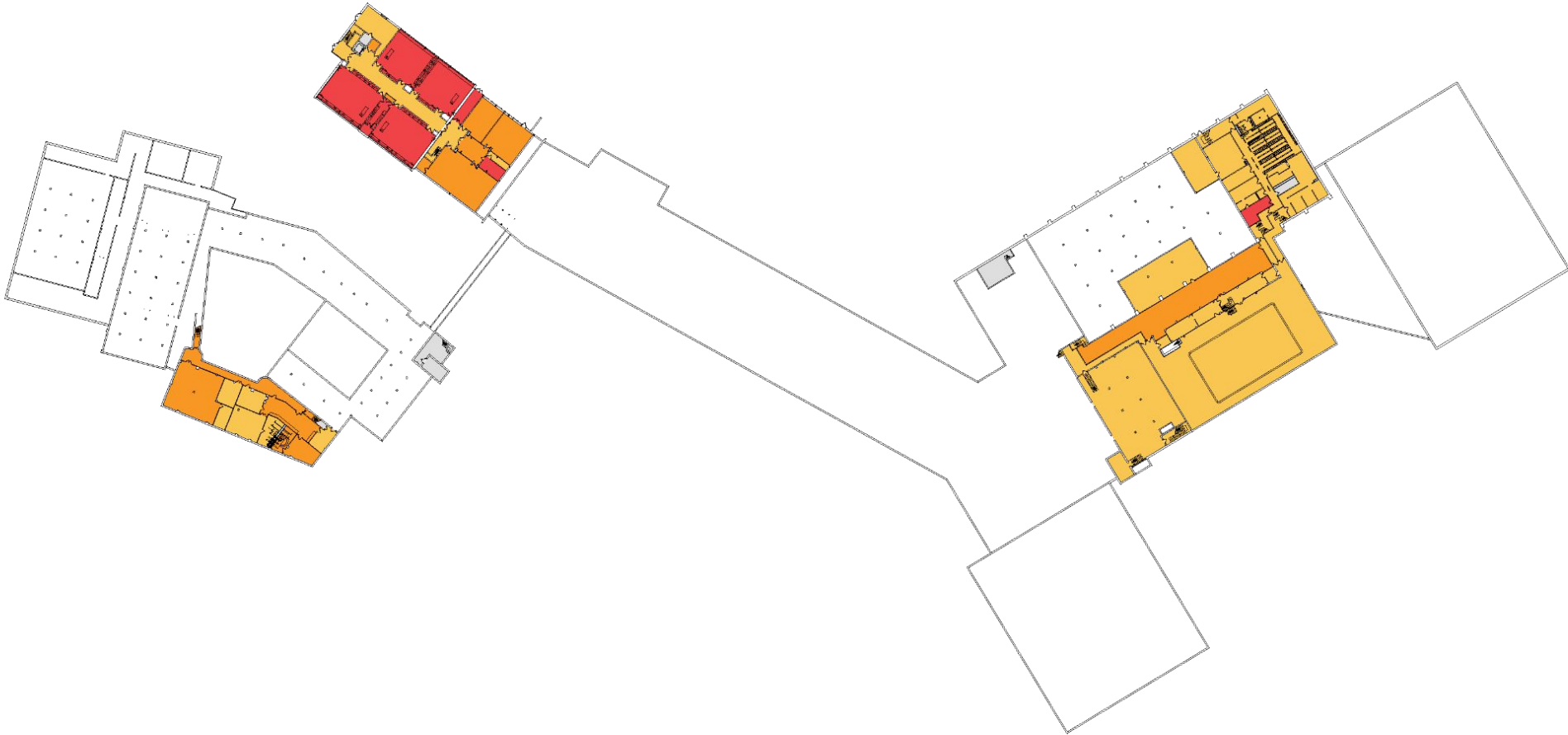


Site Deficiencies

7. Cross slope exceeds 2%, truncated domes non compliant
8. Cross slope exceeds 2%
9. Cross slope exceeds 2%, longitudinal slope exceeds 5%
10. Longitudinal slope exceeds 5%
11. Fire access road less than 20' in width, and longitudinal slope exceeds 10% in spots (may have or can obtain variance from crfd)
12. No compliant fire access turn around
13. Cross slope exceeds 2% and non compliant ramp access to accessible stalls



Floor Assessment / Jefferson High School



⌚ Lower Level

Floor Assessment / Jefferson High School



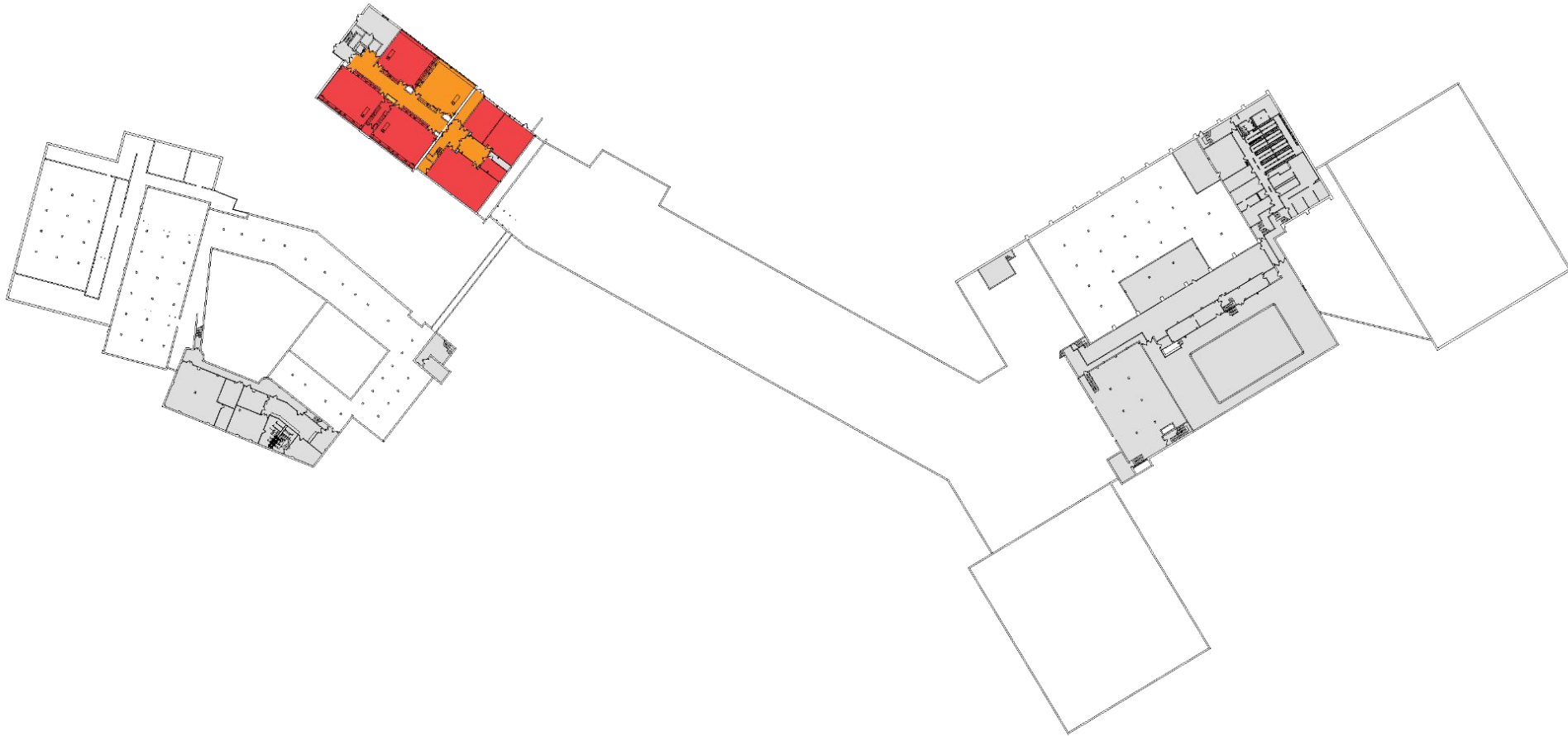
⌚ Level 1

Floor Assessment / Jefferson High School



⌚ Level 2

Ceiling Assessment / Jefferson High School



⌚ Lower Level

Ceiling Assessment / Jefferson High School



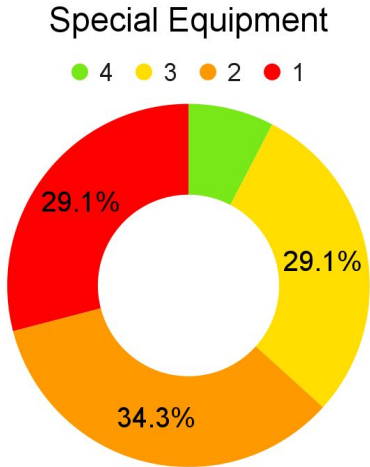
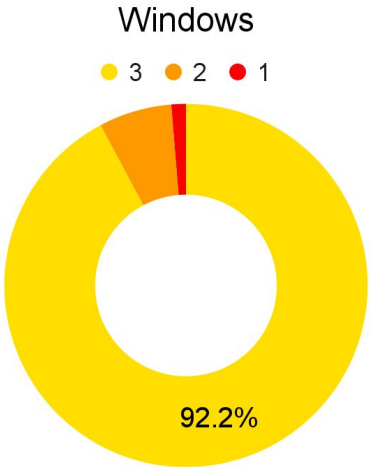
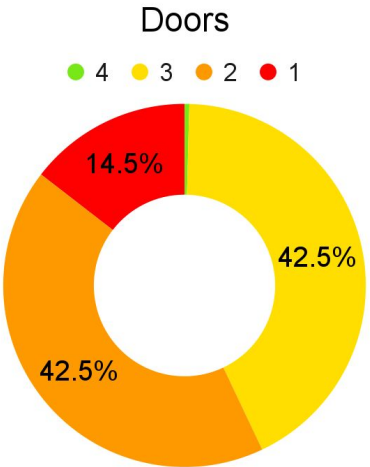
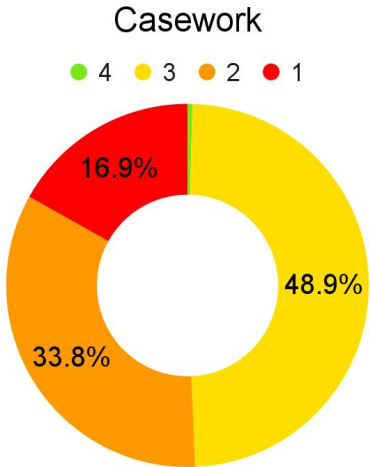
🕒 Level 1

Ceiling Assessment / Jefferson High School



⌚ Level 2

Additional Assessments / Jefferson High School

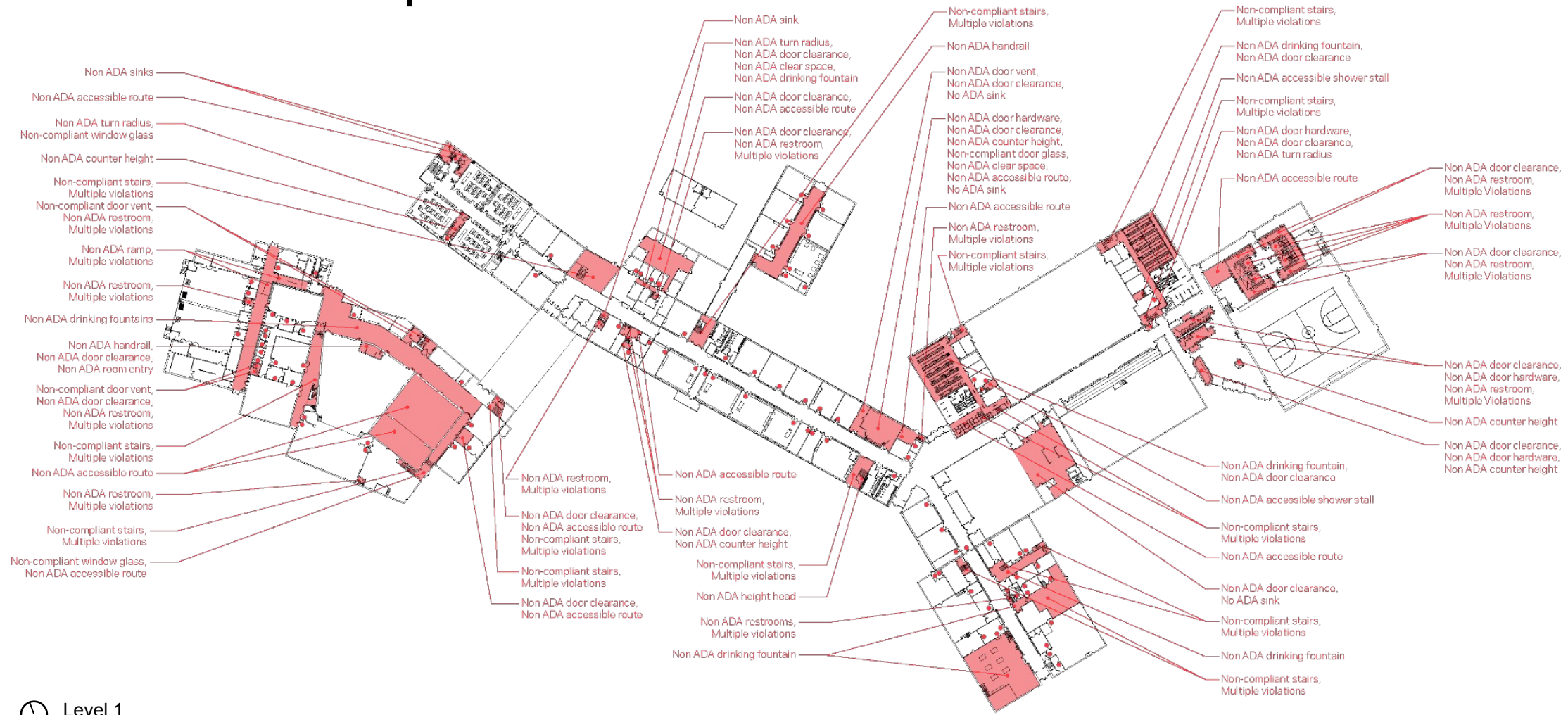


ADA/Code Compliance



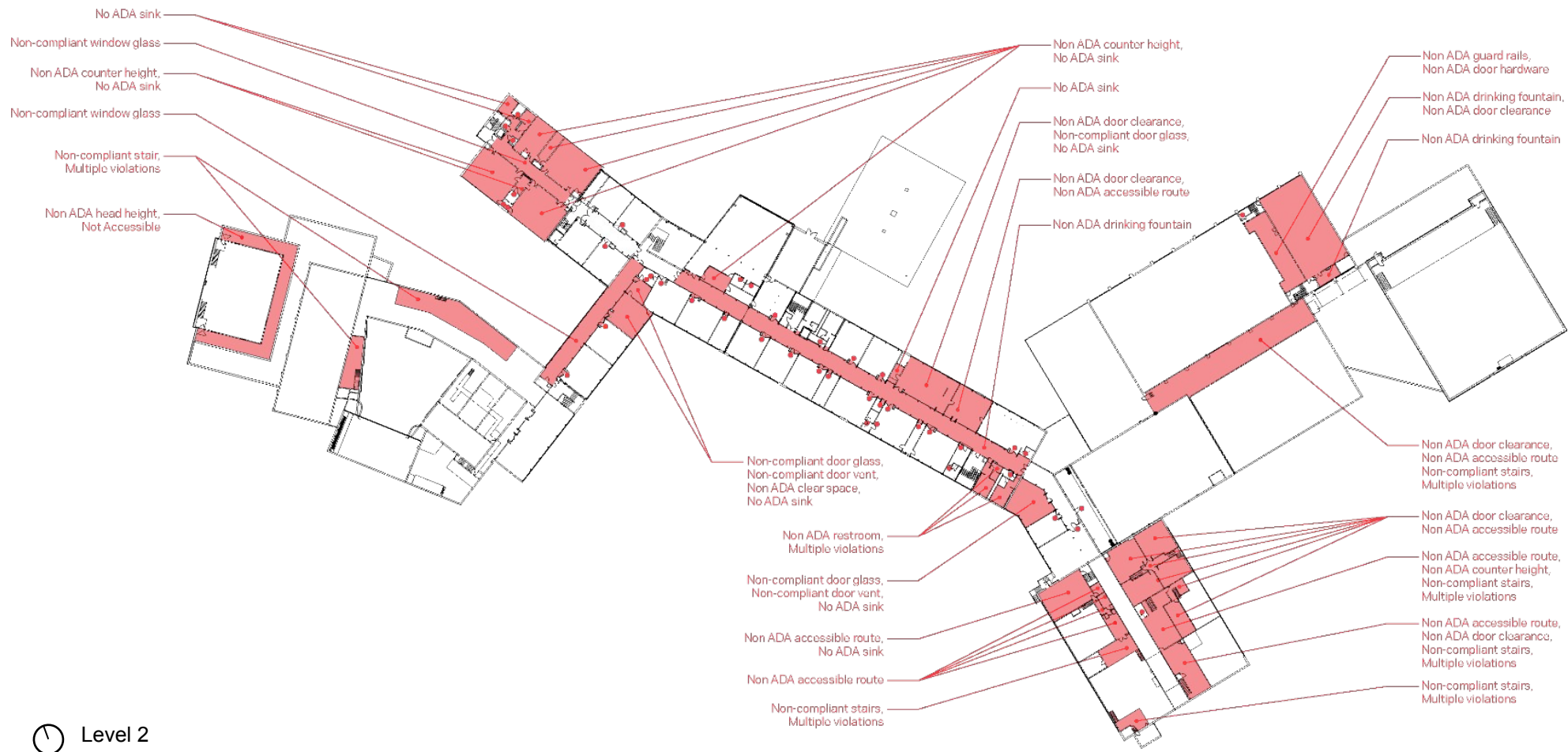
⌚ Lower Level

ADA/Code Compliance



🕒 Level 1

ADA/Code Compliance



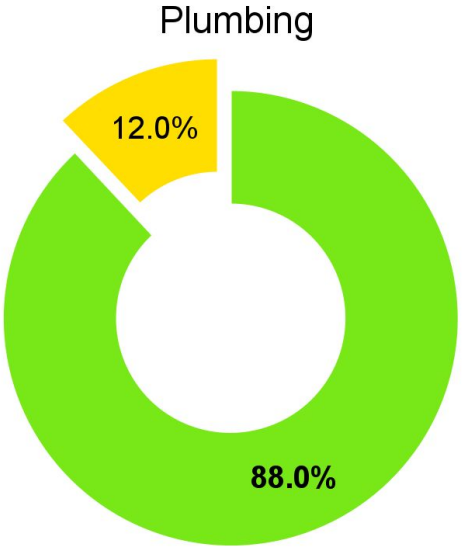
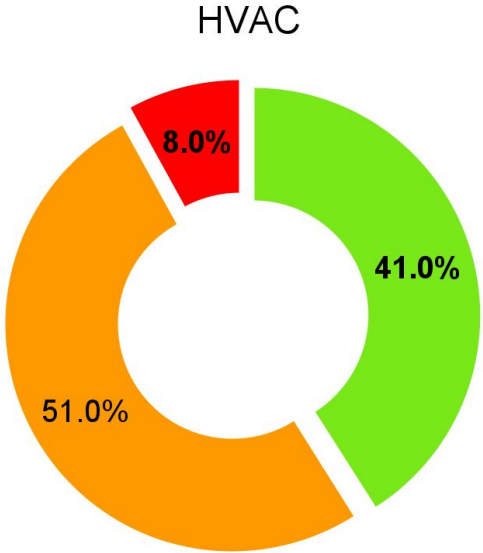
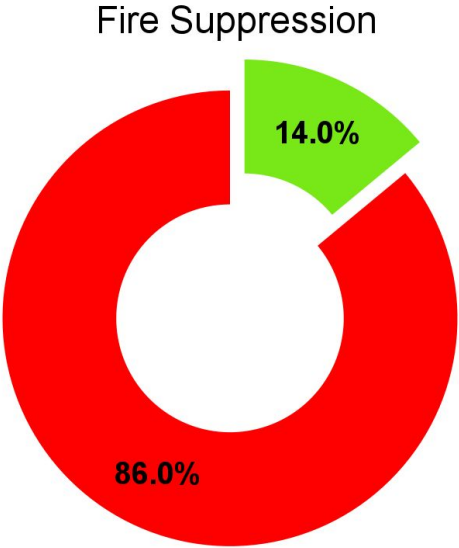
⌚ Level 2

ADA/Code Compliance

1. Non-compliant entrances to classrooms
2. Non-compliant fixtures and stalls in restrooms
3. Non ADA casework and sinks
4. Non-compliant stairs/guardrails and handrails
5. Non-compliant accessible route to locker rooms
6. Non-compliant locker room showers and restrooms
7. Non-compliant casework/display case barriers
8. Non-compliant glass in corridors
9. Non-compliant ramp slope/handrails
10. Non-compliant drinking fountains

Mechanical

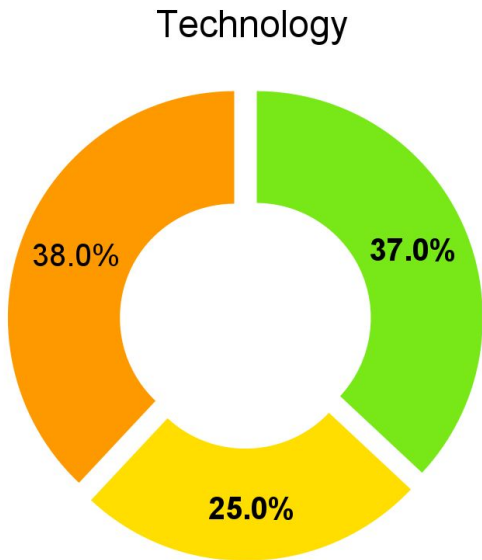
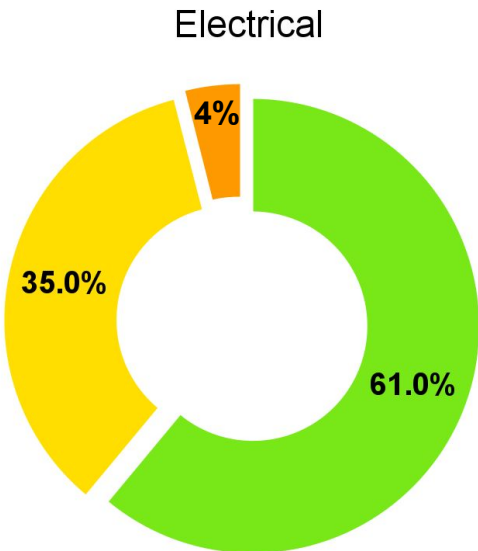
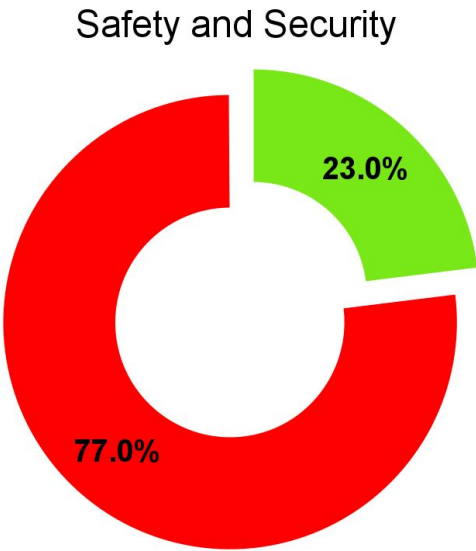
Fire Suppression		
	Science & Fine Arts	Good
	Main building	No Coverage
Plumbing		
	Fixtures	Adequate
	Supply Piping	Adequate
	Drain Piping	Adequate
	Vent Piping	Replace
HVAC		
	Main Bldg Terminal Heat Pumps	Replace
	Ventilation Air Handling Equipment	Refurbish
	Sci / Fine Arts HVAC	Replace
	HVAC Piping	Good
	HVAC Controls	Replace
	Geothermal Wells	Good



KEY	
Very Poor	0-5 yrs
Poor	5-10 yrs
Fair	10-15 yrs
Good	15-20 yrs

Electrical

	System	Notes
ELECTRICAL	General Lighting & Controls	Partial Replacement
	Theater Lighting & Controls	Replace
	Emergency Light Systems	Adequate
	Power System - 480V Service	Good
	Power System - 208V Service	Good
	Power System - Branch Panels 1980 & Older	Replace
	Power System - Branch Panels 1980 & Newer	Adequate
TECH.	IT Network	Replace
	Clocks	Partial Replacement
	Paging System	Replace
	Classroom A/V System	Replace
SAFETY & SECURITY	Door Entry Station	Good
	Access Control	Adequate
	Cameras	Adequate
	Fire Alarm	Replace



KEY	
Very Poor	0-5 yrs
Poor	5-10 yrs
Fair	10-15 yrs
Good	15-20 yrs

Assessment Cost

Site Improvements	\$ 184,500	
Building Exterior	\$ 5,019,641	
Interior Deficiencies	\$ 5,840,363	
Mechanical	\$ 9,406,790	
Electrical	\$ 4,655,000	
Food Service	\$ 0	
General Conditions	\$ 1,506,378	
SUBTOTAL		\$ 26,612,671

Kennedy High School

305,887 GSF SCHOOL SIZE
745 NSF AVG CLASSROOM

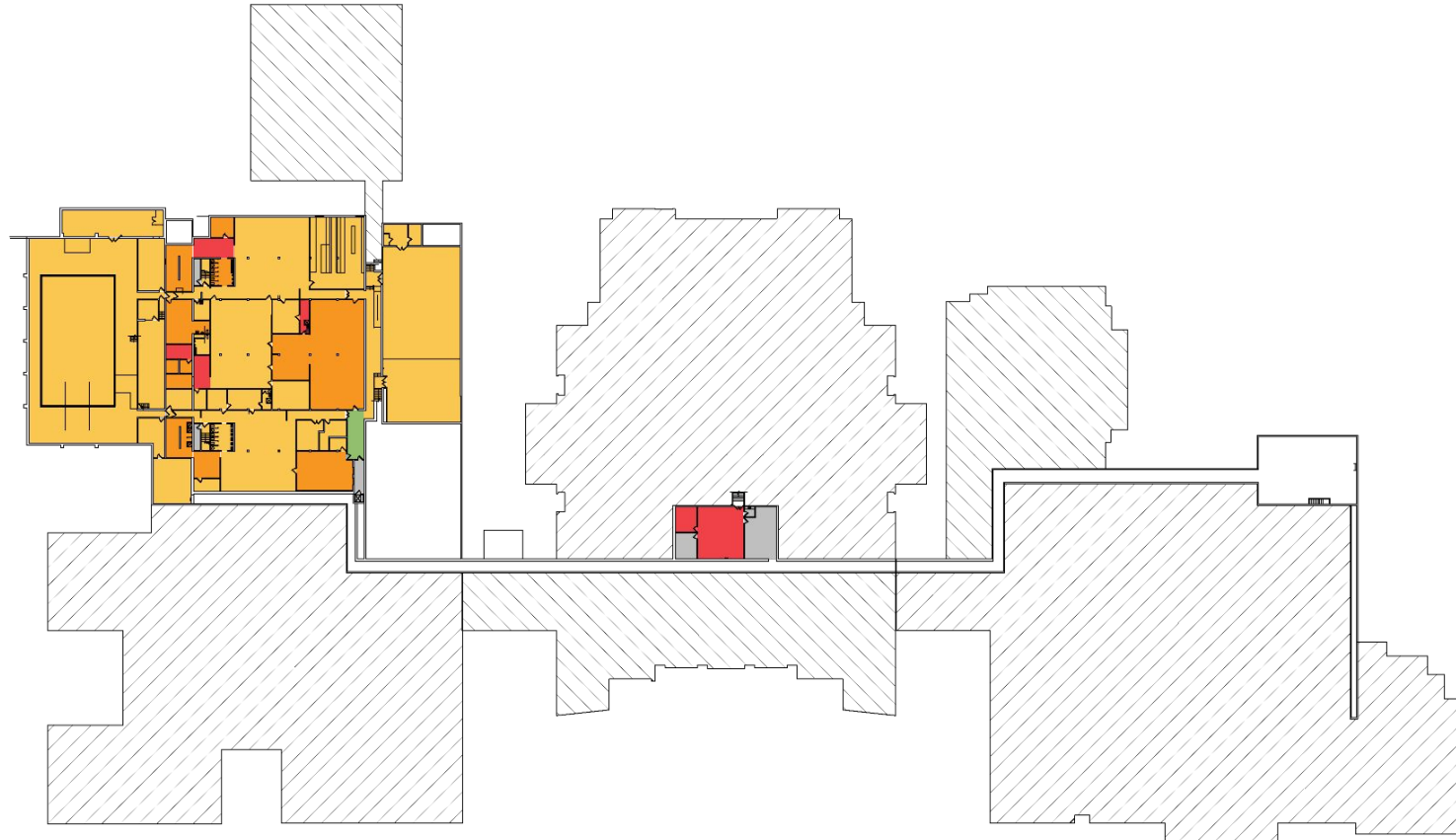


Site Deficiencies

1. ADA parking stall exceeds 2% slope in any direction. cracking and joint differential in excess of 1/2 inch.
- 2A. No accessible route to any location
- 2B. Accessible route exceeds 2% cross slope. cracking and joint differential in excess of 1/2 inch.
3. Accessible parking and route: Cross slope in excess of 2%
4. Accessible route: Longitudinal slope in excess of 5%. Cross slope in excess of 2%
5. ADA parking stall exceeds 2% slope in any direction. Cracking and joint differential in excess of 1/2 inch.

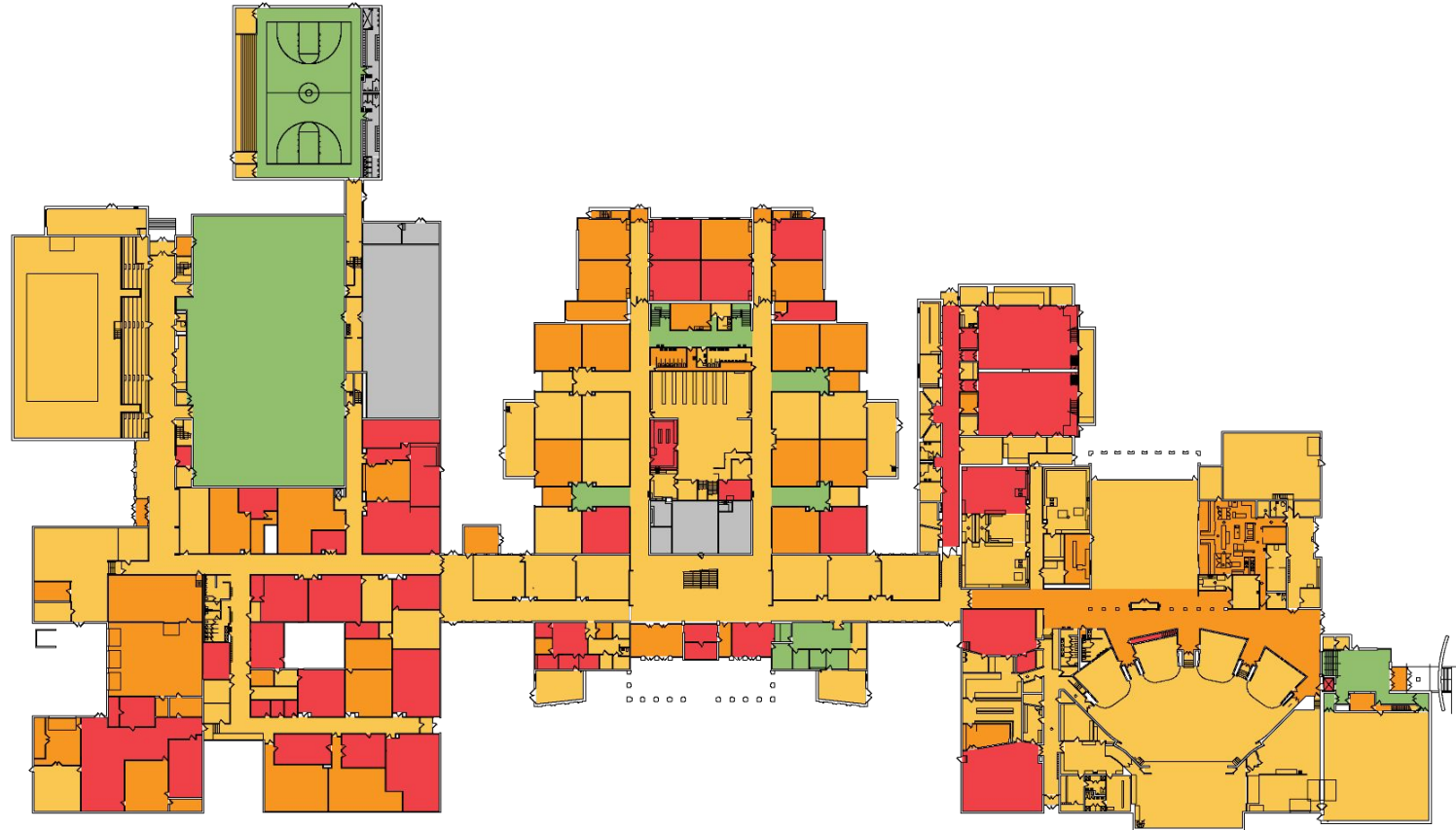


Floor Assessment / **Kennedy High School**



⊖ Lower Level

Floor Assessment / Kennedy High School



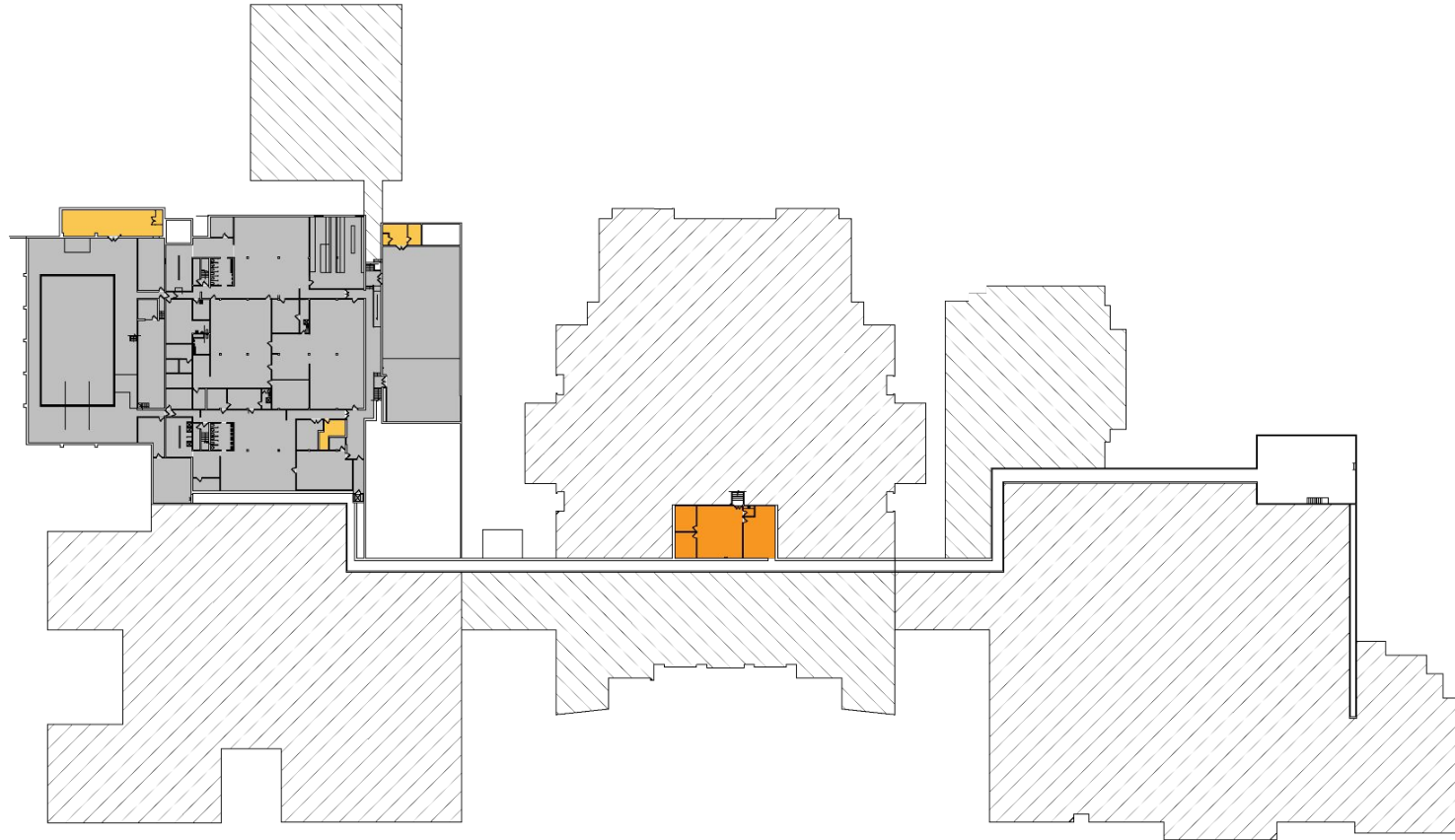
⊙ Level 1

Floor Assessment / Kennedy High School



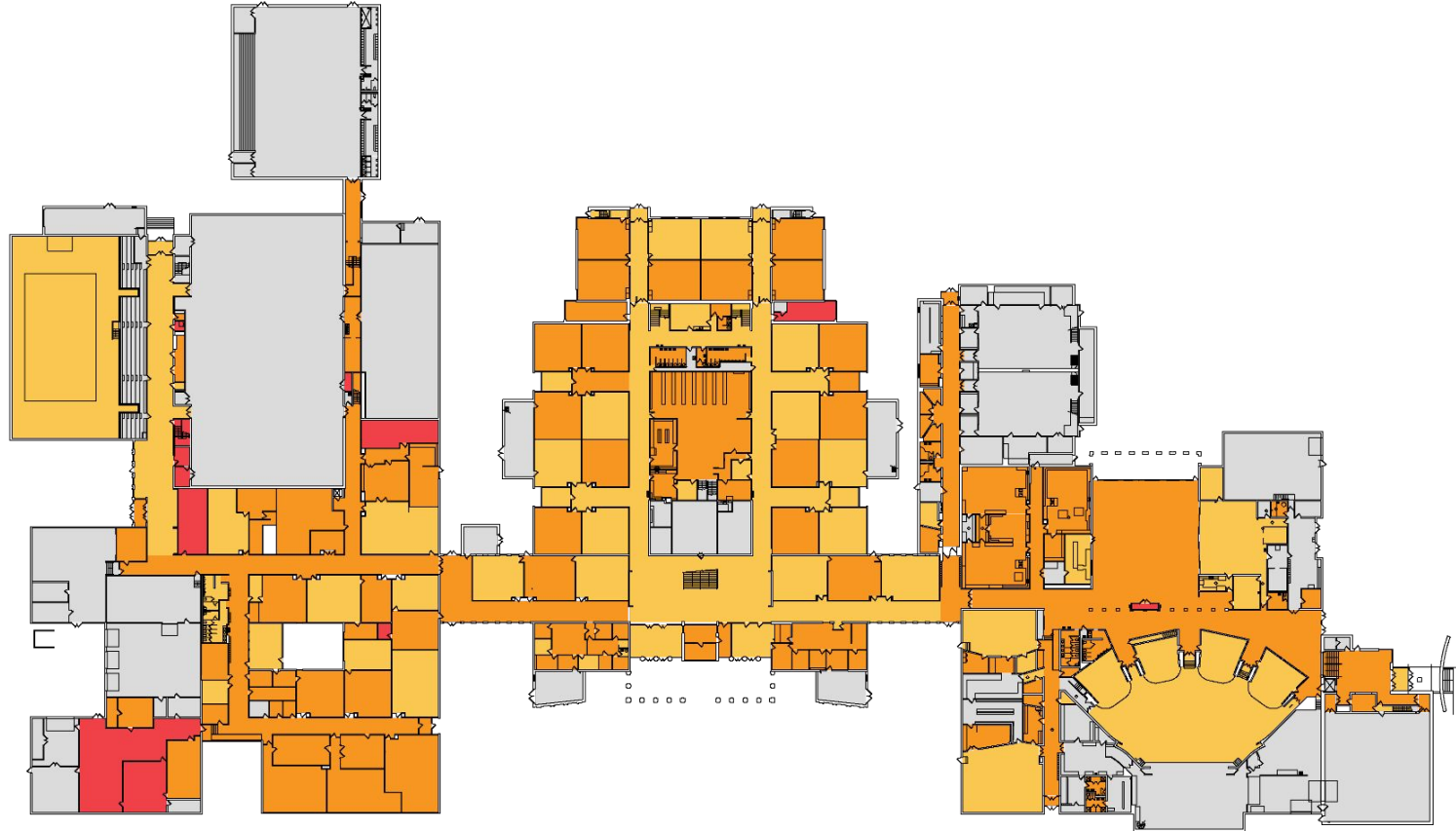
⊖ Level 2

Ceiling Assessment / Kennedy High School



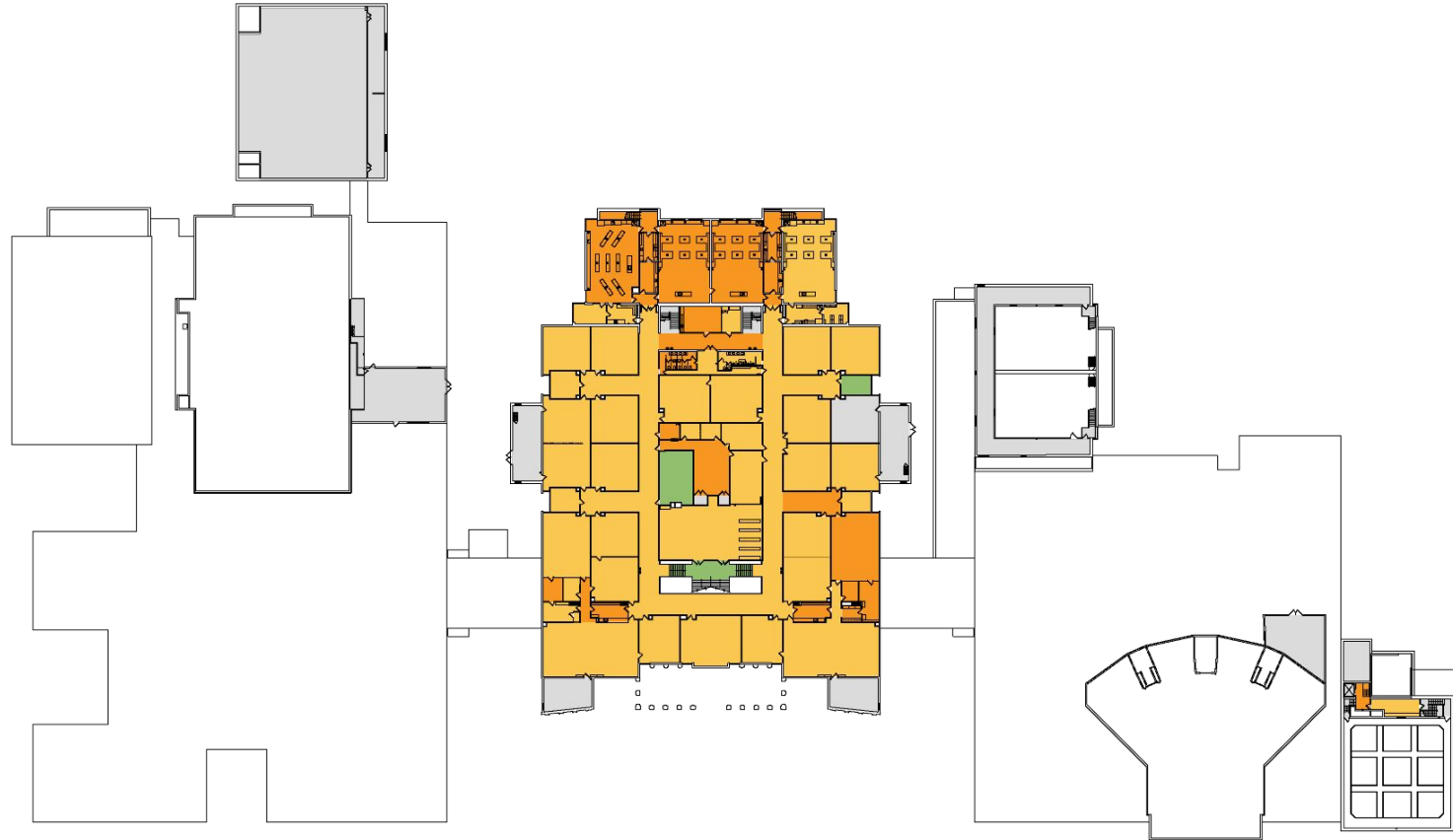
⊖ Lower Level

Ceiling Assessment / Kennedy High School



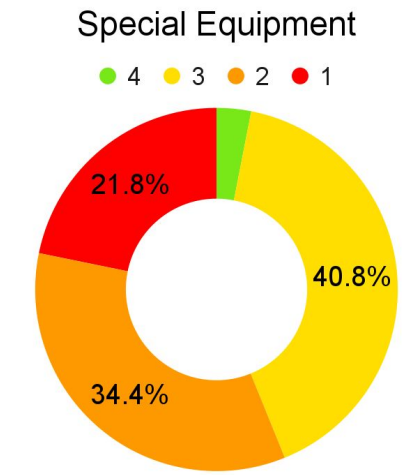
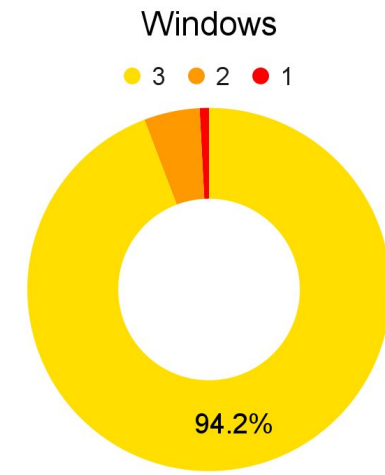
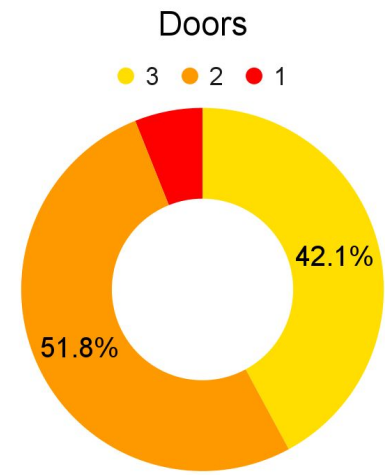
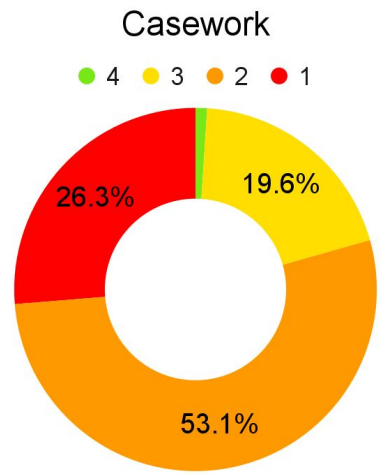
⊖ Level 1

Ceiling Assessment / Kennedy High School

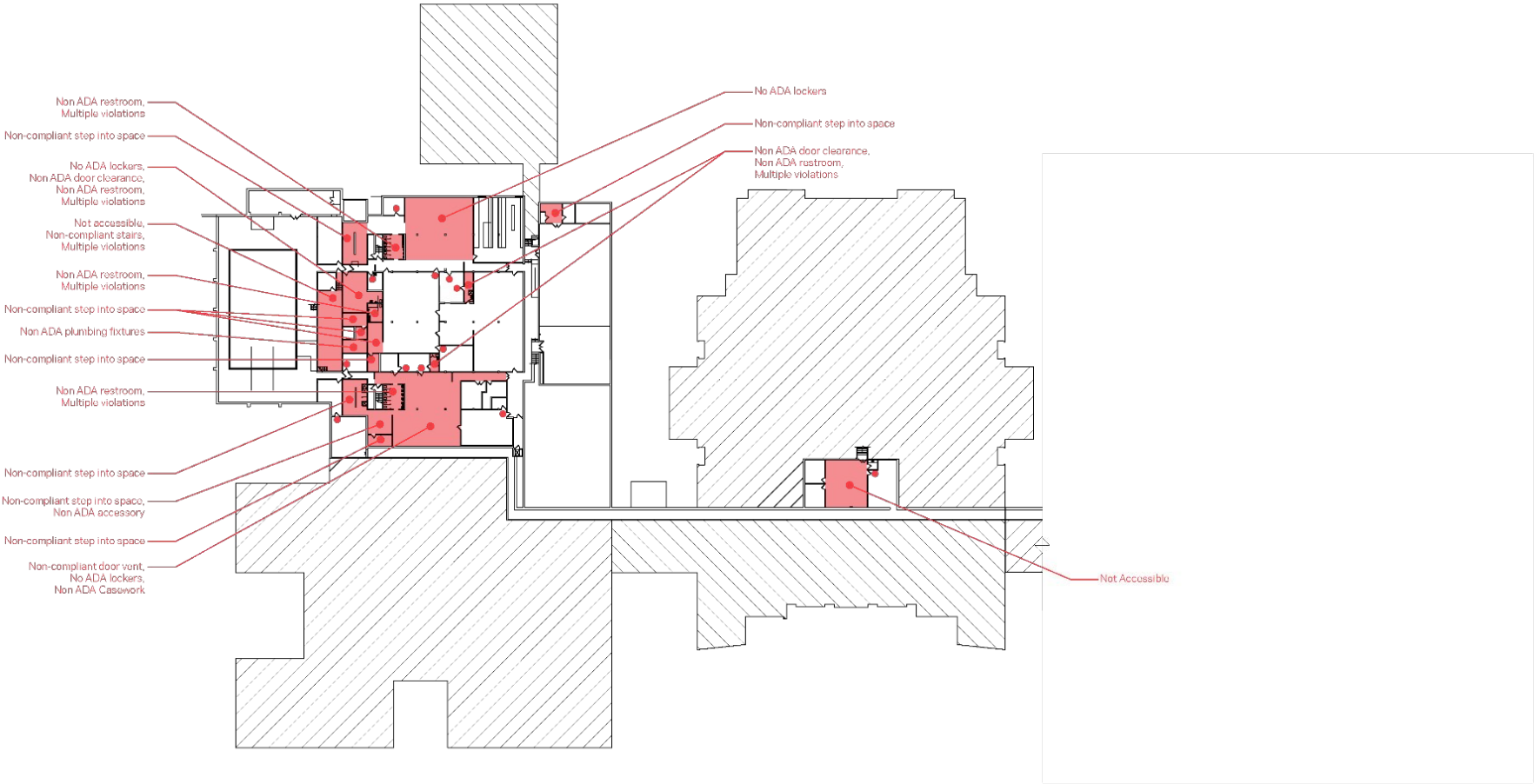


⊖ Level 2

Additional Assessments / Kennedy High School

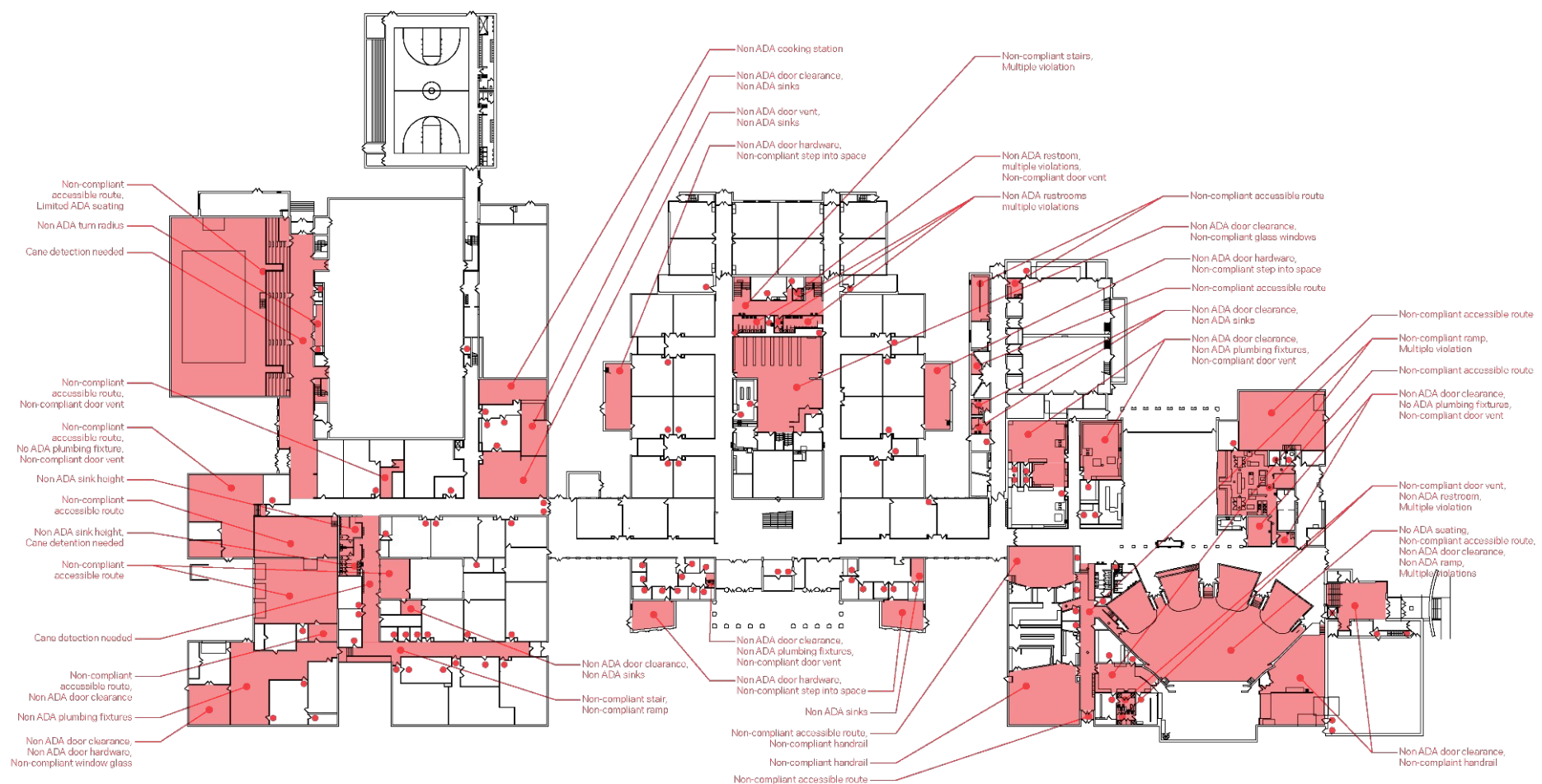


ADA/Code Compliance



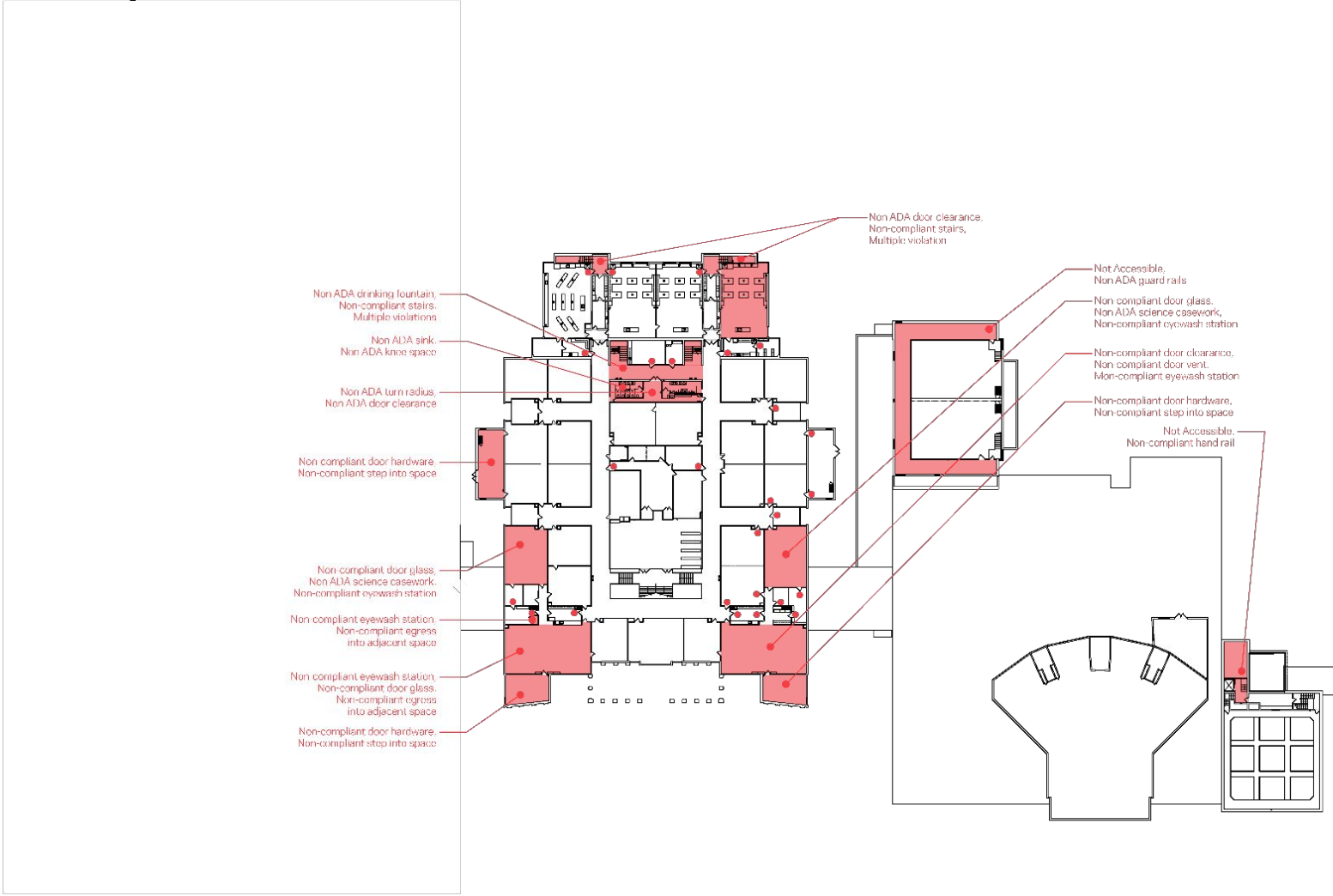
⊖ Lower Level

ADA/Code Compliance



⊕ Level 1

ADA/Code Compliance



⊖ Level 2

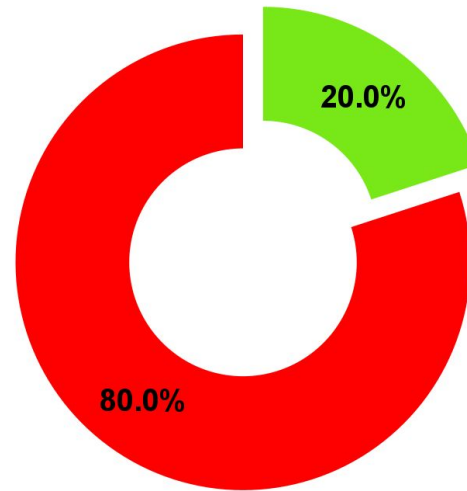
ADA/Code Compliance

1. Non-compliant entrances to classrooms
2. Non-compliant fixtures and stalls in restrooms
3. Non ADA casework and sinks
4. Non-compliant stairs/guardrails and handrails
5. Non-compliant accessible route to classrooms
6. Non-compliant locker room showers, restrooms, and lockers
7. Non-compliant ramp slope and handrails
8. Non-compliant floor level change
9. Rooms or areas are inaccessible or not accessible through typical route
10. Food service equipment insufficient and past life expectancy

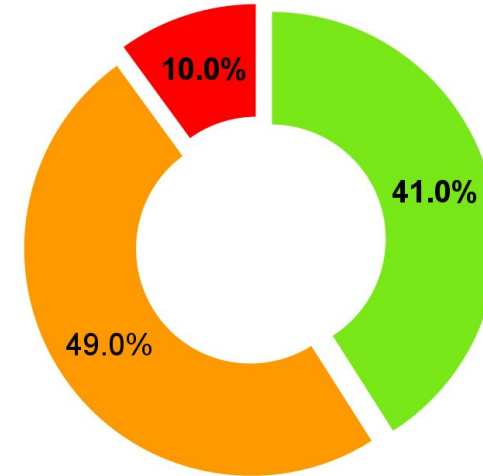
Mechanical

Fire Suppression		
	Science & Fine Arts	Good
	Main building	No Coverage
Plumbing		
	Fixtures	Adequate
	Supply Piping	Adequate
	Drain Piping	Adequate
	Vent Piping	Replace
HVAC		
	Main Bldg Terminal Heat Pumps	Replace
	Ventilation Air Handling Equipment	Refurbish
	Sci / Fine Arts HVAC	Replace
	HVAC Piping	Good
	HVAC Controls	Replace
	Geothermal Wells	Good

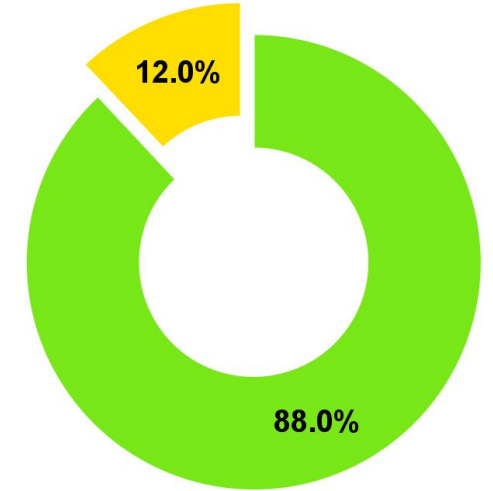
Fire Suppression



HVAC



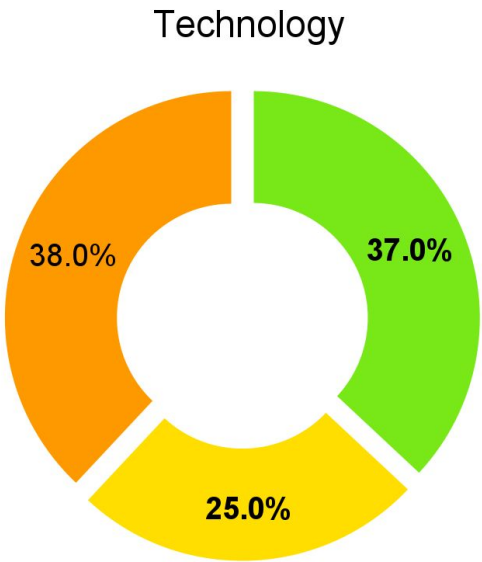
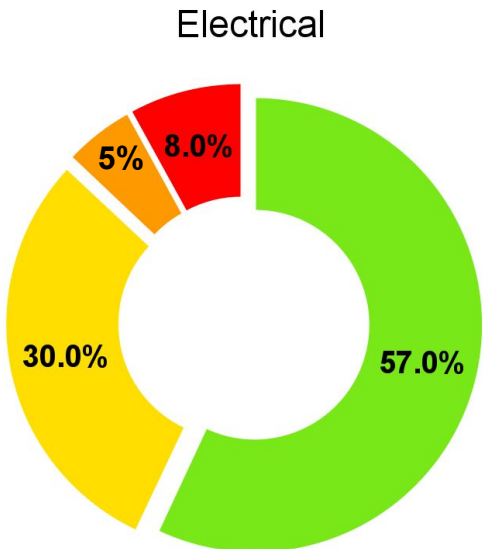
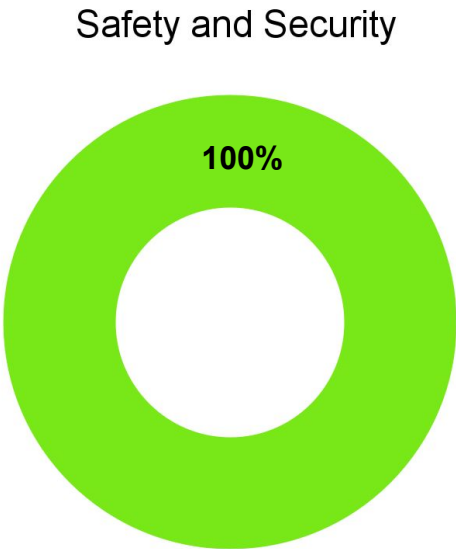
Plumbing



KEY	
Very Poor	0-5 yrs
Poor	5-10 yrs
Fair	10-15 yrs
Good	15-20 yrs

Electrical

	System	Notes
ELECTRICAL	General Lighting & Controls	Partial Upgrade
	Theater Lighting & Controls	Upgrade
	Emergency Light Systems	Adequate
	Power System - Substations	Good
	Power System - Substations	Replace 2
	Power System - Branch Panels 1965 Vintage	Replace
	Power System - Branch Panels 1980 & Newer	Adequate
TECH.	IT Network	Replace
	Clocks	Replace
	Paging System	Good
	Classroom A/V System	Replace
SAFETY & SECURITY	Door Entry Station	Good
	Access Control	Adequate
	Cameras	Adequate
	Fire Alarm	Good



KEY	
Very Poor	0-5 yrs
Poor	5-10 yrs
Fair	10-15 yrs
Good	15-20 yrs

Assessment Cost

Site Improvements	\$	164,600	
Building Exterior	\$	1,245,612	
Interior Deficiencies	\$	5,128,757	
Mechanical	\$	8,419,586	
Electrical	\$	3,683,000	
Food Service	\$	894,634	
General Conditions	\$	1,181,568	
	SUBTOTAL		\$ 20,874,360

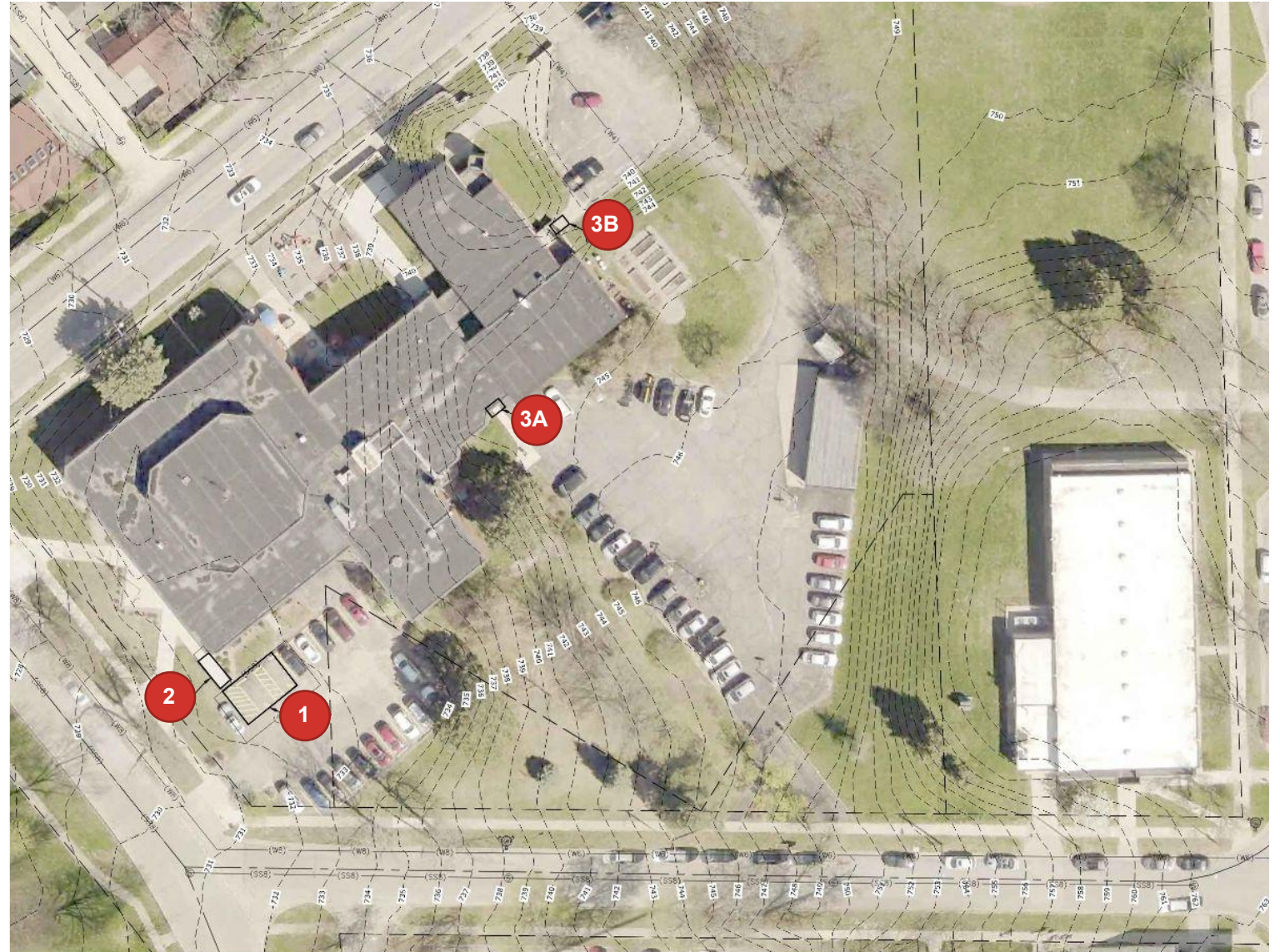
Metro High School

44,450 GSF SCHOOL SIZE
745 NSF AVG CLASSROOM

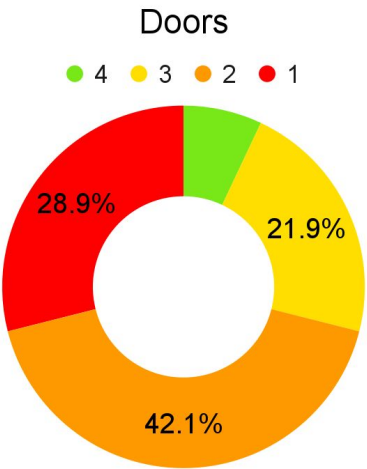
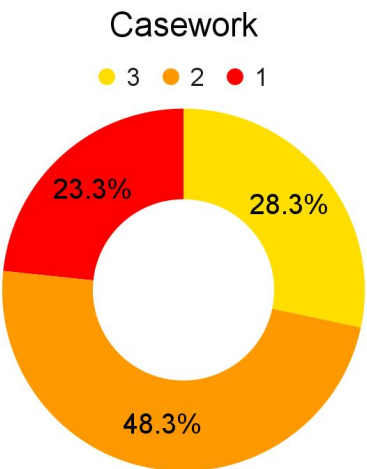
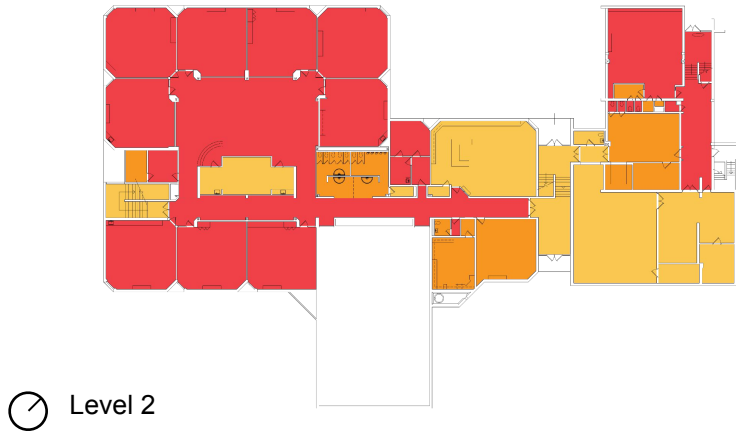
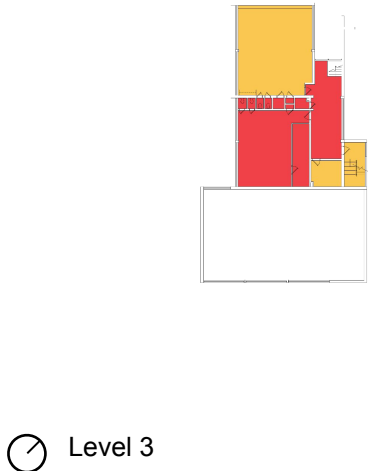
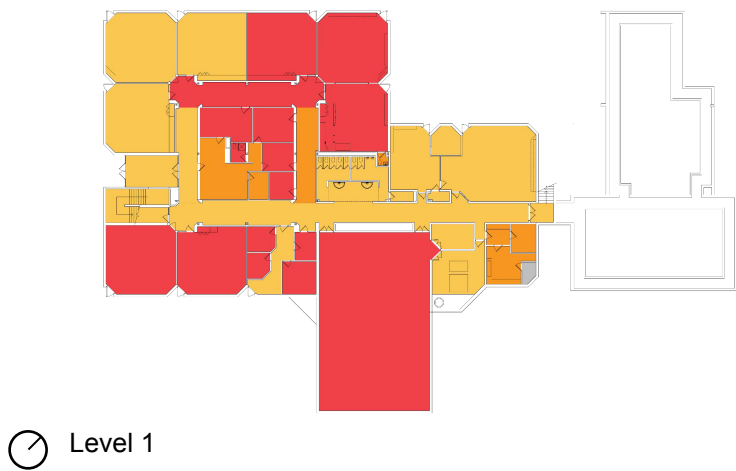


Site Deficiencies

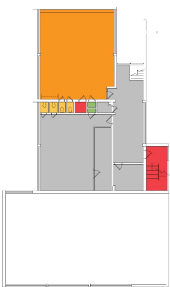
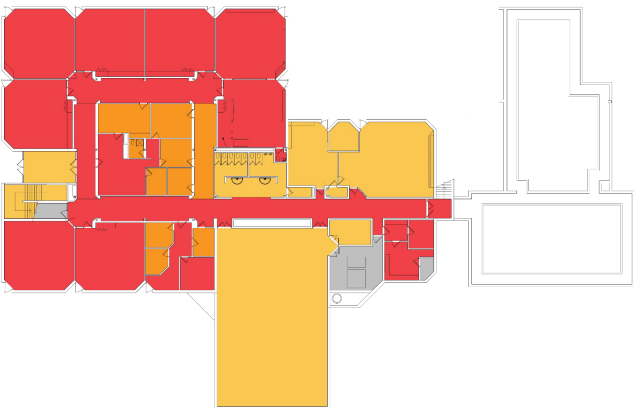
1. ADA parking stall exceeds 2% slope in any direction
2. Accessible route: longitudinal slope exceeds 5%, cross slope exceeds 2%
3. Non-compliant egress - elevation differential in excess of 1/2 inch



Floor Assessment / Metro High School

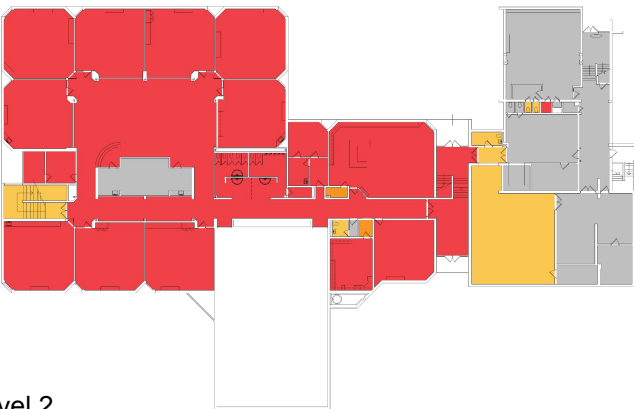


Ceiling Assessment / Metro High School



Level 1

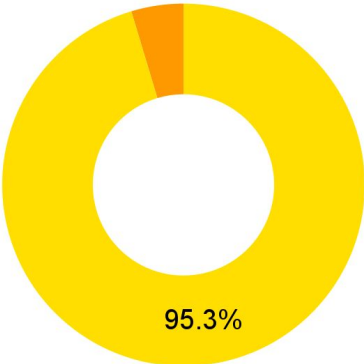
Level 3



Level 2

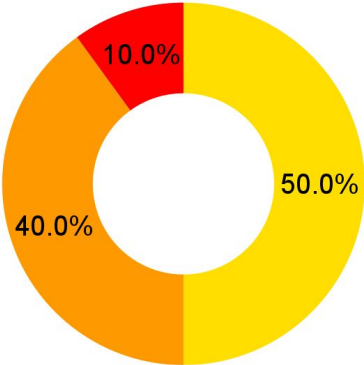
Windows

3 2



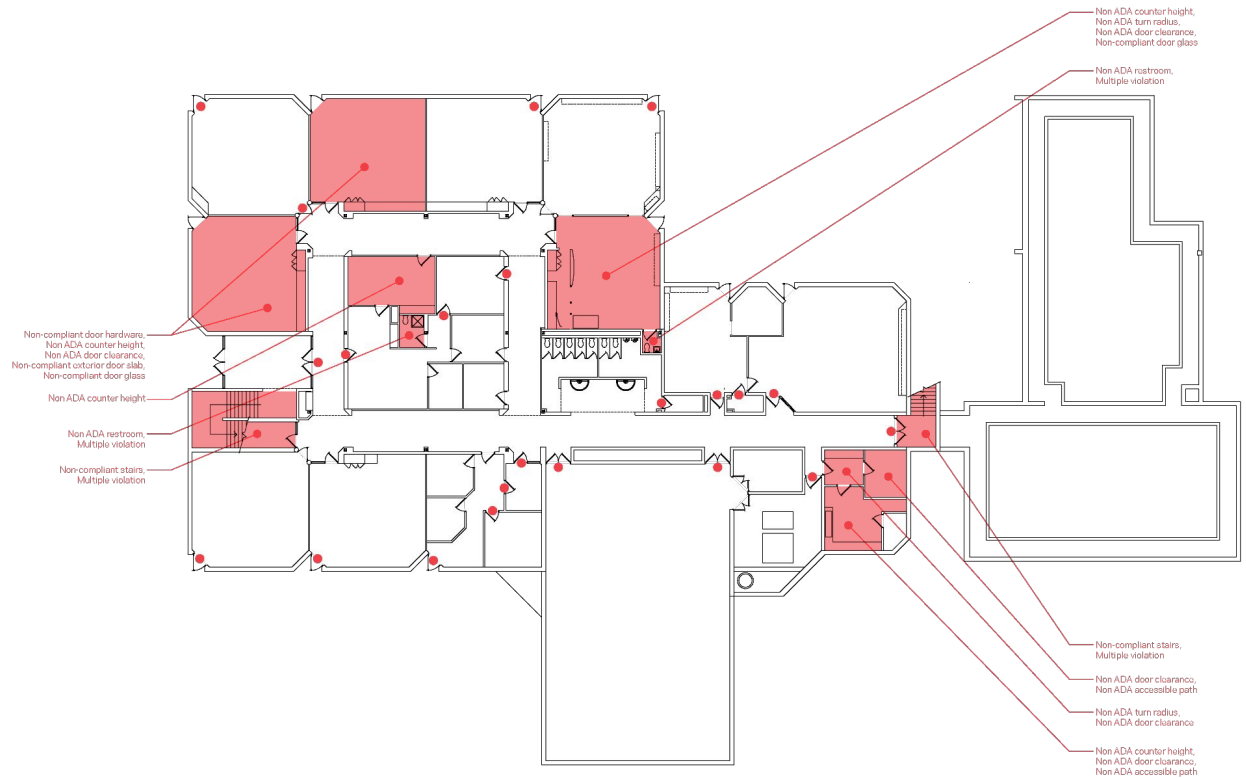
Special Equipment

3 2 1



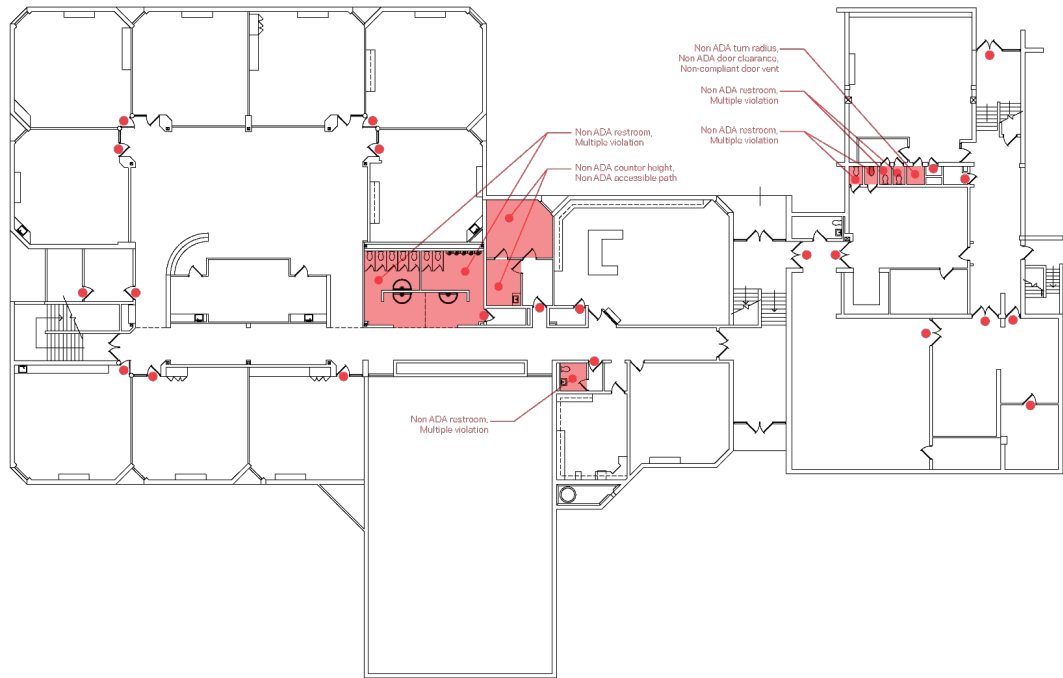
ADA/Code Compliance

1. Non-compliant entrances to classrooms
2. Non-compliant entrances to exterior from classrooms
3. Non-compliant fixtures and stalls in restrooms
4. Non-compliant stairs/guardrails and handrails
5. Non-compliant casework and sinks
6. Non-compliant drinking fountains
7. Rooms or levels that are inaccessible or not accessible through typical route

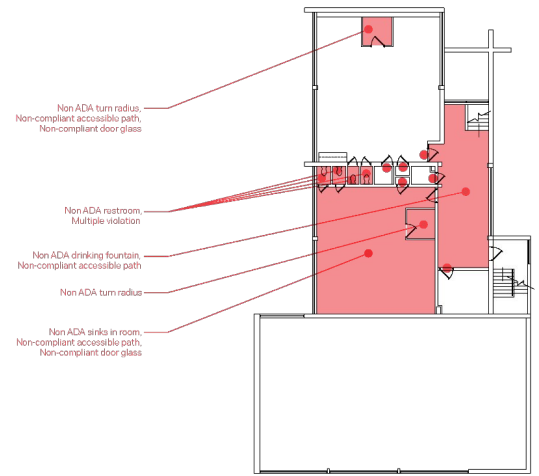


Level 1

ADA/Code Compliance



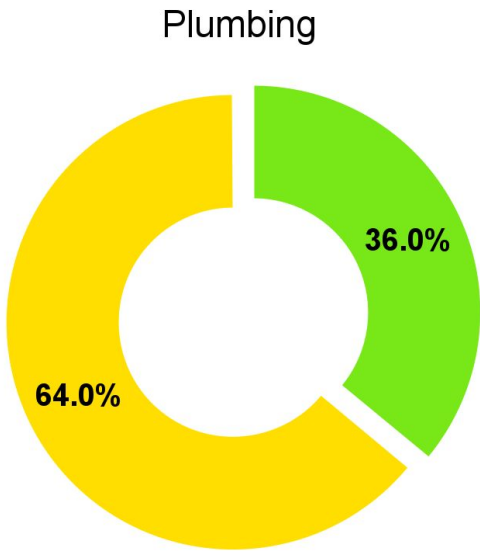
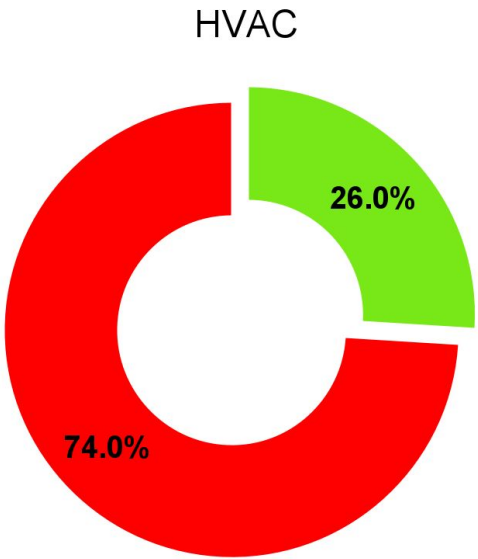
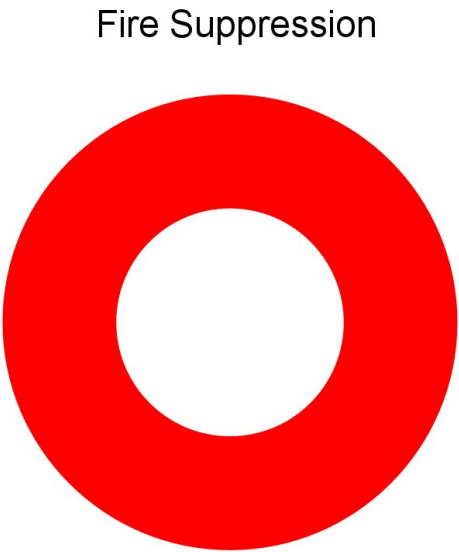
Level 2



Level 3

Mechanical

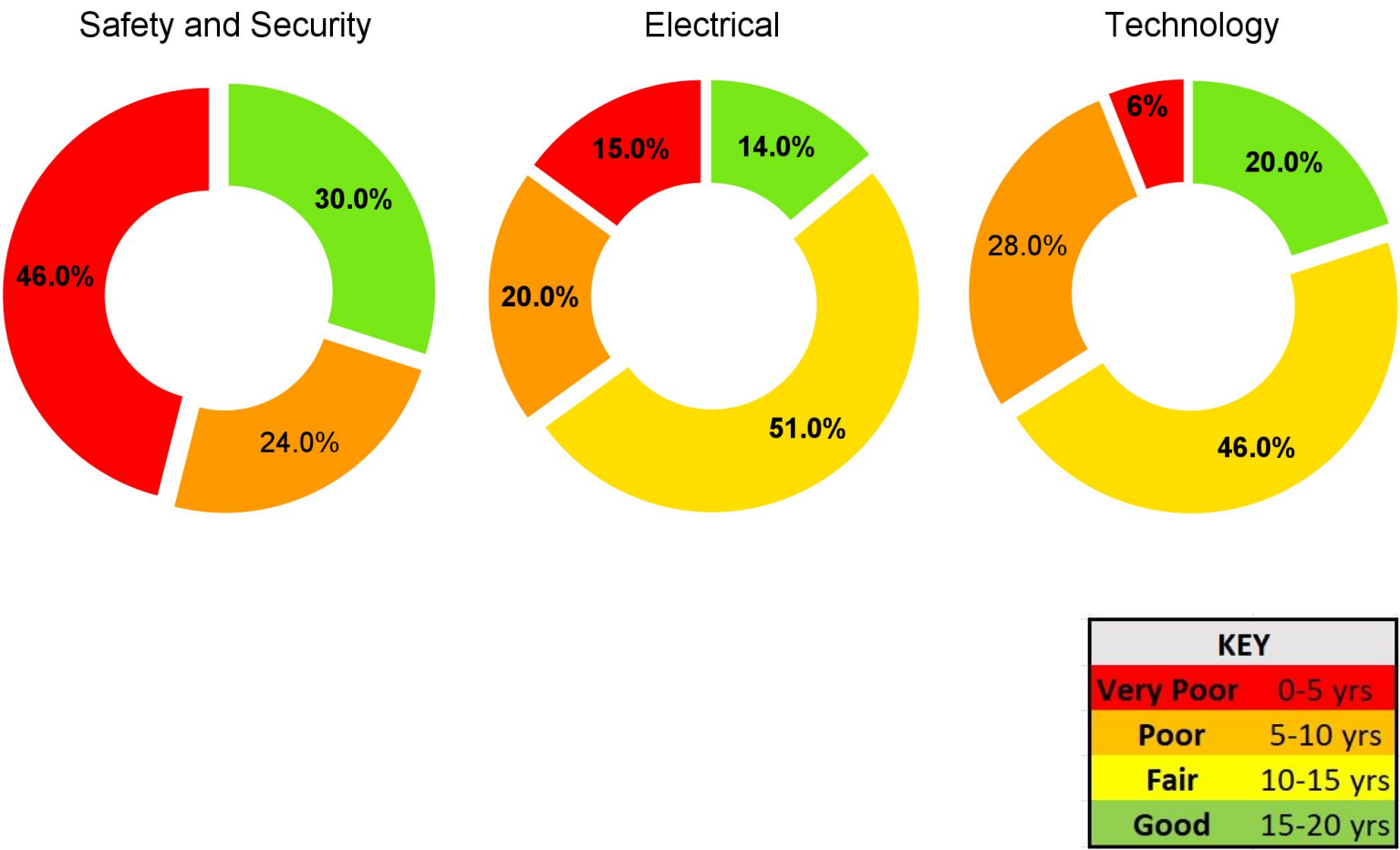
Fire Suppression	
Main building	No Coverage
Plumbing	
Fixtures	Adequate
Supply Piping	Replace
Drain Piping	Replace
Vent Piping	Replace
HVAC	
Unit Ventilators	Replace
Chiller	Good
Boiler	Replace
Gym AHU	Replace
Office RTU	Replace
Dedicated Chilled Water Piping	None
Dual Temperature Piping	Adequate
Controls	Replace



KEY	
Very Poor	0-5 yrs
Poor	5-10 yrs
Fair	10-15 yrs
Good	15-20 yrs

Electrical

System		Notes
ELECTRICAL	General Lighting & Controls	Upgrade
	Emergency Light Systems	Adequate
	Power System - 208V Service	Replace
	Power System - Branch Panels 1980 & Older	Replace
	Power System - Branch Panels 1980 & Newer	Adequate
TECH.	IT Network	Replace
	Clocks	Replace
	Paging System	Replace
	Classroom A/V System	Replace
SAFETY & SECURITY	Door Entry Station	Poor
	Access Control	Adequate
	Cameras	Adequate
	Fire Alarm	Replace



Assessment Cost

Site Improvements	\$	16,850	
Building Exterior	\$	1,372,909	
Interior Deficiencies	\$	1,452,479	
Mechanical	\$	2,003,000	
Electrical	\$	938,000	
Food Service	\$	0	
General Conditions	\$	346,232	
	SUBTOTAL		\$ 6,130,232

Total Assessment Cost

Washington	\$23,765,588	
Jefferson	\$26,612,671	
Kennedy	\$20,874,360	
Metro	\$ 6,130,232	
Franklin	\$35,916,871	
Mckinley	\$32,828,014	
Roosevelt	\$34,231,876	
Wilson	\$30,975,857	
Harding	\$ 8,674,136	
Taft	\$ 8,169,152	
SUBTOTAL		\$228,178,757

Group Activity



Any Surprises?

Have enough data?

Group Activity



Any “Big picture” thoughts or ideas?

Elementary Discussion