

Sherwood School District Facilities Planning and Assessment Report

by DOWA - IBI Group Architects, Inc. | August 2015



Overview of Report

The report has been organized to allow the reader to gain an insight at several different levels. The first part of this report provides an introduction to the project and an overview of the methodology used to conduct the study.

Part II consists of an Executive Summary organized into sections that focus on the district as a whole as well as each school individually. Summary information is provided, along with overall estimated costs for each facility. The Executive Summary for each facility does not contain every recommendation that is found in the Detailed Report; rather it provides highlighted observations in addition to the total cost for all levels of work. Recommendations for each project are divided into Levels I, II, and III.

Part III includes a capacity analysis of each District school facility. Individual school information data spreadsheets are provided summarizing student capacity based on the number of teaching stations, as well as the square footage of key common areas. Color-coded building floor plans for each school are included to illustrate current room assignments and uses.

Part IV provides an educational adequacy overview of each school in the District, based on interviews with the principal at each facility. The educational adequacy assessment determines the extent to which the current facility supports teaching and learning practices and goals.

The last portion of this report (Part V) contains a detailed report for each facility in the Sherwood School District. This section is where you will find information to support the observations stated in the Executive Summary. It includes full descriptions of site observations, images and breakdown of recommendations with associated costs. These reports include structural, architectural, mechanical, electrical, plumbing, food service and grounds components. Cost sheets are located at the end of each detailed facility report.

Project Budgets

Budget cost amounts have been established for each of the line item deficiencies identified in the facility assessment.

The cost analysis for each item is based on cost information from a professional cost estimator. Each item includes the actual estimated construction cost and the following mark ups:

- 10% General Contractor Overhead and Profit
- 16.5% Estimating Contingency

A factor of 25% for Project Soft Costs, including design fees, permits, special testing requirements, project management, furniture and equipment, and other project related costs have been applied to larger scale projects such as additions, remodels or significant system changes. (Please note that soft costs can increase dramatically if high System Development Charges are required and if local jurisdiction determines needs for wetlands mitigation and offsite improvements such as street and traffic related improvements).

If other recommendations result in more significant scope, a factor of 25% can be applied to the numbers provided for true projects costs. Please note that the mark ups do not include a factor for inflation.

Building Codes

The latest editions of the following codes were utilized in developing this assessment: International Mechanical Code (IMC), International Plumbing Code (IPC), International Electrical Code (IEC), National Fire Protection Association (NFPA) Codes and Standards, and American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE) Standard 90.1.

All references to "the code" or "code requirements" in the architectural components of this document refer to the 2014 Oregon Structural Specialty Code (OSSC).



OVERALL FACILITY ASSESSMENT

The Sherwood School District facilities have been well cared for and exhibit a high level of maintenance. The age of the facilities ranges from over 79 years to less than 6 years and all facilities show a high attention to detail in terms of care and maintenance. However, the majority of the facilities suffer from deferred maintenance issues, accessibility issues, building code and/or fire and life safety deficiencies. Deferred maintenance refers to those maintenance items or building repairs which may not have been performed at the optimum time due to budget or other constraints. These problems tend to exist at the older facilities. Facilities are in need of various upgrades in order to meet current and future needs of the school.

Observations and recommendations are based on the concept of a "useful life" of the building and its elements. In general, all products have a life span in terms of durability and maintenance. It is also based on the current use of each facility.

DISTRICT WIDE EVALUATION OF FACILITIES

The following charts are an overall evaluation of District facility improvements by category, by priority and by school. Individual charts for each facility are addressed in the Executive Summary and the Detailed Reports.

Buildings were reviewed under six categories: Structure/Substructure (structural systems, exterior, wall, roof and window assemblies), Interiors (including toilet facilities), Systems (mechanical, plumbing and fire protection), Electrical, Food Service and Grounds (included in this category are fields and grounds in addition to site components such as parking and sidewalks).

In the Detailed Summary for each facility, a rating system based on levels was used, ranging from Level I to Level III. The levels aided in determining the priority or need of each improvement listed. The levels represent the following evaluations:

Level I: Highest Priority - Issues that affect the life safety concerns of the occupant, related to notification of occupants to emergency situations and the ability to safely evacuate the facility; subcomponents of Level I include safety concerns such as electrical loads, hazardous materials that might be affected with remodel or modifications, and lack of fall protection. Level I items may also include structural upgrades to facilities constructed prior to current building codes. Level I items should be addressed within a five year plan.

Level II: Moderate Priority - Issues that are related to the integrity and adequacy of systems within the building to sufficiently withstand a potential significant seismic or wind event and still function; also related are the age of systems or building components that keep day to day operations running without constant repair. Issues may include mechanical, electrical and plumbing systems, fire suppression, lighting and security, as well as flooring, windows doors and other architectural components. Level II Items should be considered in a 5 to 10 year plan.

Level III: Low Priority - Issues that may over time affect the day to day maintenance of the building or long-term use of the facility. Issues also include access and clearances at equipment and fixtures, access for individuals with disabilities and both indoor and exterior environment quality. Level II items may also be issues that are related to the aesthetics of the building's interior and exterior as well as integrity and adequacy of building systems that don't pose any issues or are nearing the end of their remaining lifecycles. Level III Items could be considered long-term plans (10 years or more).



District Wide Facilities Assessment Costs

Recommendations by Category	Cost
Structure/Shell	\$11,489,295
Interiors	\$13,530,401
Systems	\$5,531,857
Electrical	\$961,834
Food Service	\$407,960
Grounds	\$1,676,386
Total	\$33,597,733

Recommendations by Priority	Cost
Level I	\$8,606,966
Level II	\$12,427,304
Level III	\$12,563,463
Total	\$33,597,733

Recommendations by Facility	Cost
Archer Glen Elementary School	\$914,615
Edy Ridge Elementary School	\$894,972
Hopkins Elementary School	\$2,291,555
Middleton Elementary School	\$1,910,445
Laurel Ridge Middle School	\$919,151
Sherwood Middle School	\$8,986,703
Sherwood High School	\$11,234,943
District Administrative Building	\$5,378,476
Support Services Building	\$1,066,873
Total	\$33,597,733

Soft costs have been added to larger scale recommendations.

School	Priority I	Priority II	Priority III
Archer Glen ES	\$205,841	\$328,540	\$380,324
Edy Ridge ES	\$26,573	\$117,134	\$751,265
Hopkins ES	\$669,475	\$1,183,124	\$438,956
Middleton ES	\$116,845	\$676,550	\$1,117,050
Laurel Ridge MS	\$12,238	\$125,648	\$781,265
Sherwood MS	\$6,537,974	\$1,748,748	\$699,981
Sherwood HS	\$1,022,873	\$1,998,976	\$8,213,094
District Administrative Building	\$8,456	\$5,306,121	\$63,899
Support Services Building	\$6,691	\$942,463	\$117,719
Total	\$8,606,966	\$12,427,304	\$12,563,463

District Wide Facilities Assessment Costs

Soft costs have been added to larger scale recommendations.



Critical Needs by Facility

Archer Glen Elementary School:

- Replace Gutters
- Enclose/Construct Entry Vestibule
- Replace Boilers
- Replace Select Lighting
- Additional Site Fencing

Edy Ridge Elementary School:

- Install bird netting/bird spikes on exterior
- Replace Select Lighting
- Replace Lighting Controls

Hopkins Elementary School:

- Replace Gutters
- Enclose/Construct Entry Vestibule
- Cosmetic Upgrades in Cafeteria
- Update Fire Alarm System
- Replace Select Lighting
- Additional Site Fencing

Middleton Elementary School:

- Replace Select Flooring
- Enclose/Construct Entry Vestibule
- Replace Chilled Water System
- Replace Select Mechanical Equipment

Laurel Ridge Middle School:

- Install bird netting/bird spikes on exterior
- Replace Select Ceiling Tiles
- Replace Select Lighting
- Replace Lighting Controls

Sherwood Middle School:

- Replace Select Windows
- Repaint Interior and Exterior Doors
- Replace Select Casework and Furniture
- Replace Dust Collector
- Replace Select Mechanical Systems
- Replace Select Lighting

Edy Ridge Elementary School

21472 SW Copper Terrace Sherwood, Oregon 97140

Built:2009Enrollment:676 students (2014-15 school year)

Floor Area: 80,905 SF



Key Recommendations:

- Install bird netting/bird spikes on exterior
- Replace Select Lighting
- Replace Lighting Controls

Facility Assessment Costs

Recommendations by Category	Cost	
Structure/Shell	\$	757,795
Interiors	\$	5,412
Systems	\$	57,707
Electrical	\$	68,310
Food Service	\$	2,150
Grounds	\$	3,598
Total	\$	894,972

	Recommendations by Priority	Cost	
Level I		\$	26,573
Level II		\$	117,134
Level III		\$	751,265
	Total	\$	894,972



Laurel Ridge Middle School

21416 SW Copper Terrace Sherwood, Oregon 97140

Built:2009Enrollment:567 students (2014-15 school year)

Floor Area: 80,905 SF



Key Recommendations:

- Install bird netting/bird spikes on exterior
- Replace Select Ceiling Tiles
- Replace Select Lighting
- Replace Lighting Controls

Facility Assessment Costs

Recommendations by Category	Cost	
Structure/Shell	\$	787,526
Interiors	\$	16,796
Systems	\$	57,746
Electrical	\$	53,130
Food Service	\$	-
Grounds	\$	3,953
Total	\$	919,151

Recommendations by Price	ority	Cost	
Level I			\$ 12,238
Level II			\$ 125,648
Level III			\$ 781,265
	Total		\$ 919,151

					Sherwood School Distri
				Elemen	tary School Capacity Study School Information
Edy Ridge Elementary					Capacity Analysis - Goal Class Siz
· · · ·	apacity: ho	wever, it is antic	pated that th	e school boun	dary changes in the fall will alleviate overcrowding
					nmodate full-day kindergarten in fall of 2015.The
					a 3rd grade classroom due to lack of space. The
school has no potential or underutilized cl	assrooms,	and only one (1) computer la	b.	• ·
Design Canasity Total Classroom	aired Cn				
Design Capacity - Total Classroom		1			
Classroom-sized Spaces - Main Bldg	28				acity of the building, as not every classroom-sized
Classroom-sized Spaces - Portables	0				n. Some classroom-sized spaces will inevitably nee
Total Classroom-sized Spaces	28	1		urposes, such	as SPED, computer labs, and other programs.
	# K-5	Building	Building	01 0	
Capacity Overview	Students	Capacity -	Capacity - w/ portables	% Capacity	Notes
		Main Bldg	w/portables		Tioles
				110%	The school's community room was converted to a
Spring 2015 Enrollment	689	624	N/A	Capacity	general classroom to alleviate overcrowding. No
				. ,	portable classrooms are present at this school. Or
				88%	(1) additional classroom will be required to
Projected Fall 2015 Enrollment	551	624	N/A	Capacity	accommodate full-day kindergarten in the fall.
	L			- spaony	
Classroom Need Summary					
		Capacity			
	Clsrm	current class	Total		
Classrooms	Quantity	size goals (2)	Capacity		Notes
Current # of Classrooms in Use for	24	26	624		ment is 689 students in 24 K-5 general classrooms
General K-5 Instruction (Main Bldg)					use of a room that was designed as a community
				room, but is b	eing used as a classroom due to overcrowding.
Current # of Portable Classrooms in Use	0	26	0	The	e are no portable classrooms at this school.
for General K-5 Instruction				Ine	
Total Classrooms in Use	24	26	624		
Potentially Available Classrooms - Main	0	26	0		
Building(1)					
Potentially Available Classrooms -	0	26	0		
Portables (1)	0	20	0		
Total Current and Potential					
Classrooms - Main Bldg and	24	26	624		
Portables					
Current Classroom Usage		-	1	-	
	Clsrm	Capacity		Spring 2015	
	Quantity	current class	Capacity	Enrollment	
Teaching Stations	Quantity	size goals (2)		Enromitorit	Notes
					One additional classroom is needed to
Kindergarten	3	26	78	103	accommodate full-day kindergarten.
					Exceeds average class size goal. Includes a
					community room that is now being used as a 3rd
1st - 5th Grade	21	26	546	586	grade classroom due to overcrowding.
Current Unassigned Classrooms	0	N/A	N/A	0	
Special Use and Support Spaces:	Clsrm				
Classroom spaces currently used for	Quantity				
other programs or services.	Cauntity				Notes
SPED (4)	1				Room E-25
ELL	1				Room E-5
Pre-K Program	0	İ			
Computer Lab	1	i			Room E-20
Music	1				
TOTAL Support Spaces	4				
Capacity of Core Spaces	4				
capacity of core spaces					
	Area in	Code	Max No. of		
		Code (3)	Occupants		Netes
Deem of Conce	Sq Ft				Notes
Room or Space	Sq Ft				
Room or Space	Sq Ft				
		15	202		d enrollment divided by code-allowed number of
Cafeteria	3410	15	227		d enrollment divided by code-allowed number of occupants),
Room or Space Cafeteria Gym Library		15 7 7	227 829 447		•

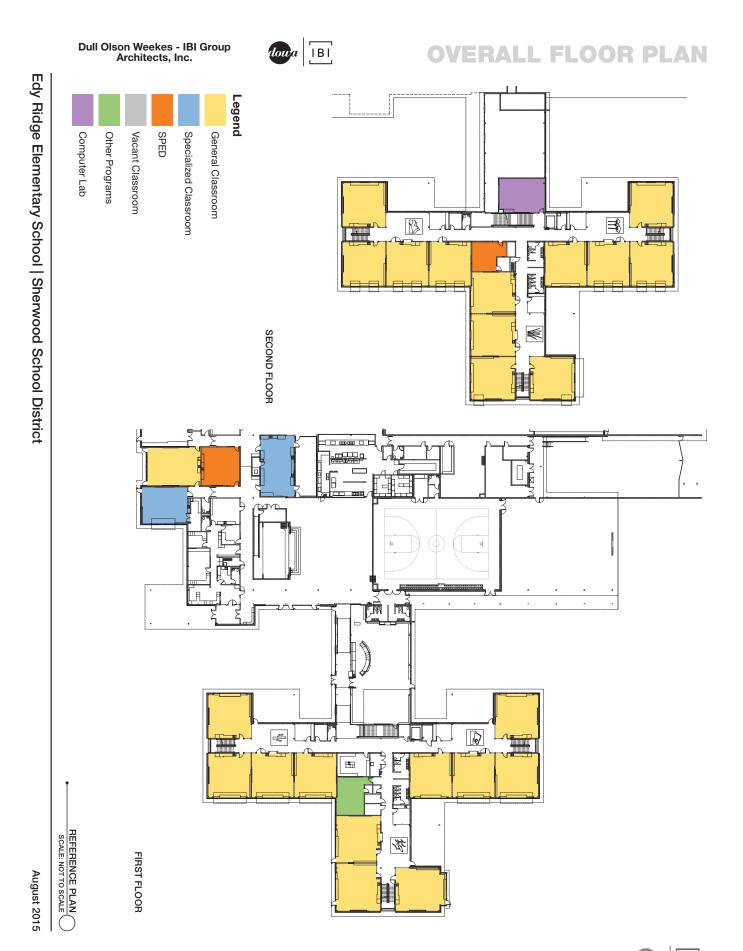
Notes:

(1.) Includes classrooms used for other programs or purposes (not general education). Does not include SPED, ELL, Pre-K or computer labs.

(2.) Class size is 26 students per teaching station.

(3.) The floor area in square feet per person allowed per the Building Code.

(4.) SPED students are included in the total enrollment; however, SPED classrooms are not counted for capacity purposes. Self-contained SPED classrooms have significantly lower (and widely fluctuating) class sizes. Other SPED classrooms may provide primarily pull-out services. Consequently, these classrooms are not counted toward the overall capacity of the school.



36 CAPACITY STUDY

					Sherwood School Distri
				Elemen	tary School Capacity Study School Informatic
Edy Ridge Elementary				Ca	pacity Analysis - Capacity of Current Space
· · ·	apacity: ho	wever, it is antic	pated that th		dary changes in the fall will alleviate overcrowding
					nmodate full-day kindergarten in fall of 2015.The
					a 3rd grade classroom due to lack of space. The
school has no potential or underutilized cl	assrooms,	and only one (1) computer la	b.	
Design Capacity - Total Classroom	-sized Sn	2005			
Classroom-sized Spaces - Main Bldg	28	1			
Classroom-sized Spaces - Portables	0			'	acity of the building, as not every classroom-sized
Total Classroom-sized Spaces	28				n. Some classroom-sized spaces will inevitably nee
Total Classiconi-sized Spaces	20	Building	Building	urposes, such	as SPED, computer labs, and other programs.
	# K-5	Capacity -	Capacity -	% Capacity	
Capacity Overview	Students	Main Bldg	w/ portables		Notes
oupdoily over new		Main Didg	w/portables		110100
				115%	The school's community room was converted to a
Spring 2015 Enrollment	689	600	N/A	Capacity	general classroom to alleviate overcrowding. No
					portable classrooms are present at this school. Or
				92%	(1) additional classroom will be required to
Projected Fall 2015 Enrollment	551	600	N/A	Capacity	accommodate full-day kindergarten in the fall.
				σαρασιτγ	
Classroom Need Summary					
		Capacity			
	Clsrm	current class	Total		
Classrooms	Quantity	size goals (2)	Capacity		Notes
Current # of Classrooms in Use for	24	25	600	Current enrol	lment is 689 students in 24 K-5 general classrooms
General K-5 Instruction (Main Bldg)				This includes	use of a room that was designed as a community
				room, but is b	being used as a classroom due to overcrowding.
					· ·
Current # of Portable Classrooms in Use	0	25	0		
for General K-5 Instruction	Ŭ	20	Ű	The	re are no portable classrooms at this school.
Total Classrooms in Use	24	25	600		
	0	25	0		
Potentially Available Classrooms - Main	0	25	0		
Building(1)					
Potentially Available Classrooms -	0	25	0		
Portables (1)					
Total Current and Potential					
Classrooms - Main Bldg and	24	25	600		
Portables					
Current Classroom Usage					
ourrent olassiooni osage		O an a site		1	
	Clsrm	Capacity	Ormeriter	Spring 2015	
	Quantity	current class	Capacity	Enrollment	
Teaching Stations		size goals (2)			Notes
					One additional classroom is needed to
Kindergarten	3	25	75	103	accommodate full-day kindergarten.
					Exceeds average class size goal. Includes a
					community room that is now being used as a 3rd
1st - 5th Grade	21	25	525	586	grade classroom due to overcrowding.
Current Unassigned Classrooms	0	N/A	N/A	0	
Special Use and Support Spaces:	Clsrm				
Classroom spaces currently used for	Quantity				
other programs or services.	Guanny				Notes
SPED (4)	1				Room E-25
ELL	1				Room E-5
Pre-K Program	0				
Computer Lab	1				Room E-20
Music	1				
TOTAL Support Spaces	4				
Capacity of Core Spaces					
	Area in		Max No. of		
	Area in	Code (3)	Max No. of		
	Sq Ft		Occupants		Notes
Room or Space				Three (3) lu	nch periods will be needed in fall of 2015 (based or
Room or Space		1	1		d enrollment divided by code-allowed number of
Room or Space				protecte	
·	3410	15	227	projecte	occupants),
Room or Space Cafeteria Gvm				piojecie	occupants),
·	3410 5801 3126	15 7 7	227 829 447	projecte	•

Notes:

Includes classrooms used for other programs or purposes (not general education). Does *not* include SPED, ELL, Pre-K or computer labs.
 Class size is 25 students per teaching station.

(3.) The floor area in square feet per person allowed per the Building Code.

(4.) SPED students are included in the total enrollment; however, SPED classrooms are not counted for capacity purposes. Self-contained SPED classrooms have significantly lower (and widely fluctuating) class sizes. Other SPED classrooms may provide primarily pull-out services. Consequently, these classrooms are not counted toward the overall capacity of the school.

						Sherwood School Distri
Laurel Ridge Middle School					Seco	ondary School Capacity Study School Informati Capacity Analysis - Goal Class Si
Six-Period Day						
		1	-			
Capacity Summary						enrollment is very near its capacity. It is anticipated
f of Teaching Stations (1) (2)	23					the fall will alleviate overcrowding and bring class siz rators are concerned that the size of core spaces (e.
Class Size Goal	30			0		nt to meet the needs of the current student populatio
Periods / Day	6					
nstructional Periods	5					
Prep Factor	0.83					
Capacity - Main Building	573					
Capacity with Portables	N/A					
Design Capacity - Total Classroon		ces				
Classroom-sized Spaces - Main Bldg	27 (7)	This does n	ot reflect the	functional ca	pacity of the	e building, as not every classroom-sized space will be
Classroom-sized Spaces - Portables	0					ized spaces will inevitably need to be used for other
otal Classroom-sized Spaces	27	purposes, s), computer la	abs, and oth	ner programs.
		Building	Building			
	# Students	Capacity -	Capacity - w/	% Capacity		
Capacity Overview		Main Bldg	portables			Notes
Spring 2015 Enrollment	554	573	N/A	97%		
	001	0/0	14/7	capacity		
					1	boundary adjustments will ease overcrowding at
				86%		ge. No portable classrooms are present at this schoo
Projected Fall 2015 Enrollment	494	573	N/A	capacity		
Capacity Based on Potential Use						
6th - 8th Grade (6 period day)						
		Class Size	Capacity at	Prep Factor	Adjusted	
Feaching Stations	Quantity	Goals (3)	100% Use	(4)	Capacity	NOTE
General Classrooms (in use and	40		10.0	0.00		
available) (1) Current Unassigned Classrooms	16	30	480	0.83	398	
	0	30	0	0.83	0	Deeme M 7 M 90 and M 97
Science Labs Music	3	30 30	90 30	0.83	75 25	Rooms M-7, M-26 and M-27
Art Classrooms	1	30	30	0.83	25	M-3 and M-4 (counted as one teaching st.)
Electives / CTE	1	30	30	0.83	25	"Explore" Lab (FACS)
Gym (as P.E. CR) (2)	1	30	30	0.83	25	
TOTAL	23		690		573	
Special Use: CRs spaces for support or						
oullout programs	Quantity					NOTE
Classrooms used for other purposes or						
programs	0					
SPED (6)	2				Rooms	M-5 and M-6
ELL	0					
Auditorium	0					
Computer Lab	2				Rooms	M-1 and M-20
OTAL	4					
Capacity of Core Spaces						
Core Facility	Square Feet	Code (5)	Capacity			NOTE
	oquare i cel	0000 (0)	oupacity			NUL
						ds will be needed in fall of 2015 (based on projected
Cafeteria	4,183	15	279	er	nrollment di	vided by code-allowed number of occupants),
Gym	7,313	7	1045			Occupants seated in chairs
Library	2,920	7	417			Occupants seated in chairs

Notes:

(1.) For general instruction not requiring a specialized classroom.

(2.) The Gym is counted as a teaching station.

(3.) The District's class size goal for middle school grades is 30 students per class.

(4.) A prep factor has been calculated in order to take into account that classrooms are scheduled all but one period per day.

(5.) The area per person allowed in such occupancy type space per the Building Code.

(6.) SPED students are included in the total enrollment; however, SPED classrooms are not counted for capacity purposes. Self-contained SPED classrooms have significantly lower (and widely fluctuating) class sizes. Other SPED classrooms may provide primarily pull-out services. Consequently, these classrooms are not counted toward the overall capacity of the school.

DOWA-IBI GROUP ARCHITECTS SHERWOOD SCHOOL DISTRICT FACILITIES PLANNING AND ASSESSMENT REPORT





						Sherwood School Distri
Laurel Ridge Middle School						ondary School Capacity Study School Informati Capacity Analysis - Capacity of Current Spac
Six-Period Day						
		1				
Capacity Summary # of Teaching Stations (1) (2)	22					enrollment is very near its capacity. It is anticipated the fall will alleviate overcrowding and bring class siz
	23					rators are concerned that the size of core spaces (e.c.
Class Size Goal	30					nt to meet the needs of the current student population
Periods / Day	6					
nstructional Periods	5					
Prep Factor	0.83					
Capacity - Main Building	573					
Capacity with Portables	N/A					
Design Capacity - Total Classroor	n-sized Spa	ces				
Classroom-sized Spaces - Main Bldg	27 (7)	This does n	ot reflect the	functional ca	pacity of the	e building, as not every classroom-sized space will be
Classroom-sized Spaces - Portables	0					ized spaces will inevitably need to be used for other
Total Classroom-sized Spaces	27	purposes, s), computer la	abs, and oth	ner programs.
		Building	Building			
	# Students	Capacity -	Capacity - w/	% Capacity		
Capacity Overview		Main Bldg	portables			Notes
Chring 2015 Enrollmont	554	573	N/A	97%		
Spring 2015 Enrollment	554	575	IN/A	capacity		
						I boundary adjustments will ease overcrowding at
				0.00/	Laurel Ride	ge. No portable classrooms are present at this schoo
Projected Fall 2015 Enrollment	494	573	N/A	86% capacity		
5th - 8th Grade (6 period day)	Quantity	Class Size	Capacity at	Prep Factor	Adjusted	NOTE
6th - 8th Grade (6 period day) Teaching Stations	Quantity	Class Size Goals (3)	Capacity at 100% Use		Adjusted Capacity	NOTE
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1)	Quantity 16			Prep Factor		NOTE
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1)	,	Goals (3)	100% Use	Prep Factor	Capacity	NOTE
Sth - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms	16	Goals (3) 30	100% Use 480	Prep Factor (4)	Capacity 398	NOTE Rooms M-7, M-26 and M-27
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs	16 0	Goals (3) 30 30	100% Use 480 0	Prep Factor (4) 0.83 0.83	Capacity 398 0	
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms	16 0 3 1 1	Goals (3) 30 30 30 30 30 30	100% Use 480 0 90 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.)
Sth - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE	16 0 3 1 1 1	Goals (3) 30 30 30 30 30 30 30 30	100% Use 480 0 90 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25	Rooms M-7, M-26 and M-27
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2)	16 0 3 1 1 1 1	Goals (3) 30 30 30 30 30 30	100% Use 480 0 90 30 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 25 25	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.)
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL	16 0 3 1 1 1	Goals (3) 30 30 30 30 30 30 30 30	100% Use 480 0 90 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.)
Sth - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or	16 0 3 1 1 1 1 23	Goals (3) 30 30 30 30 30 30 30 30	100% Use 480 0 90 30 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 25 573	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS)
Sth - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or oullout programs	16 0 3 1 1 1 1	Goals (3) 30 30 30 30 30 30 30 30	100% Use 480 0 90 30 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 25 573	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.)
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or	16 0 3 1 1 1 1 23 Quantity	Goals (3) 30 30 30 30 30 30 30 30	100% Use 480 0 90 30 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 25 573	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS)
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs	16 0 3 1 1 1 1 23 Quantity 0	Goals (3) 30 30 30 30 30 30 30 30	100% Use 480 0 90 30 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 573	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS) NOTE
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6)	16 0 3 1 1 1 1 23 Quantity 0 2	Goals (3) 30 30 30 30 30 30 30 30	100% Use 480 0 90 30 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 573	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS)
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL	16 0 3 1 1 1 1 23 Quantity 0	Goals (3) 30 30 30 30 30 30 30 30	100% Use 480 0 90 30 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 573	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS) NOTE
Sth - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium	16 0 3 1 1 1 23 Quantity 0 2 0	Goals (3) 30 30 30 30 30 30 30 30	100% Use 480 0 90 30 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 573 Rooms	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS) NOTE
Sth - 8th Grade (6 period day) Feaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Sym (as P.E. CR) (2) FOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium Computer Lab	16 0 3 1 1 1 1 23 Quantity 0 2 0 0 0	Goals (3) 30 30 30 30 30 30 30 30	100% Use 480 0 90 30 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 573 Rooms	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS) NOTE
Sth - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium Computer Lab	16 0 3 1 1 1 1 23 Quantity 0 2 0 0 0 2	Goals (3) 30 30 30 30 30 30 30 30	100% Use 480 0 90 30 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 573 Rooms	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS) NOTE
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or orograms SPED (6) ELL Auditorium Computer Lab TOTAL	16 0 3 1 1 1 1 23 Quantity 0 2 0 0 0 2	Goals (3) 30 30 30 30 30 30 30 30	100% Use 480 0 90 30 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 573 Rooms	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS) NOTE
Capacity Based on Potential Use 6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium Computer Lab TOTAL Capacity of Core Spaces	16 0 3 1 1 1 1 23 Quantity 0 2 0 0 0 2	Goals (3) 30 30 30 30 30 30 30 30	100% Use 480 0 90 30 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 573 Rooms	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS) NOTE
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or orograms SPED (6) ELL Auditorium Computer Lab TOTAL	16 0 3 1 1 1 1 23 Quantity 0 2 0 0 0 2	Goals (3) 30 30 30 30 30 30 30 	100% Use 480 0 90 30 30 30 30 30	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 573 Rooms	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS) NOTE
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or orograms SPED (6) ELL Auditorium Computer Lab TOTAL Capacity of Core Spaces	16 0 3 1 1 1 1 23 Quantity 0 2 0 0 0 2 4	Goals (3) 30 30 30 30 30 30 30 	100% Use 480 0 90 30 30 30 30 690	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 573 Rooms Rooms	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS) NOTE M-5 and M-6 M-1 and M-20 NOTE
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium Computer Lab TOTAL Core Facility	16 0 3 1 1 1 1 23 Quantity 0 2 0 0 0 2 4 Square Feet	Goals (3) 30 30 30 30 30 30 30 30 	100% Use 480 0 90 30 30 30 690 690	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 573 Rooms Rooms	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS) NOTE M-5 and M-6 M-1 and M-20 NOTE NOTE ds will be needed in fall of 2015 (based on projected
6th - 8th Grade (6 period day) Teaching Stations General Classrooms (in use and available) (1) Current Unassigned Classrooms Science Labs Music Art Classrooms Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or orograms SPED (6) ELL Auditorium Computer Lab TOTAL Capacity of Core Spaces	16 0 3 1 1 1 1 23 Quantity 0 2 0 0 0 2 4	Goals (3) 30 30 30 30 30 30 30 	100% Use 480 0 90 30 30 30 30 690	Prep Factor (4) 0.83 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Capacity 398 0 75 25 25 25 25 573 Rooms Rooms	Rooms M-7, M-26 and M-27 M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS) NOTE M-5 and M-6 M-1 and M-20 NOTE

Notes:

(1.) For general instruction not requiring a specialized classroom.

(2.) The Gym is counted as a teaching station.

(3.) The District's class size goal for middle school grades is 30 students per class.

(4.) A prep factor has been calculated in order to take into account that classrooms are scheduled all but one period per day.

(5.) The area per person allowed in such occupancy type space per the Building Code.

(6.) SPED students are included in the total enrollment; however, SPED classrooms are not counted for capacity purposes. Self-contained SPED classrooms have significantly lower (and widely fluctuating) class sizes. Other SPED classrooms may provide primarily pull-out services. Consequently, these classrooms are not counted toward the overall capacity of the school.

Edy Ridge Elementary School

Educational Programs / Instructional Delivery

Edy Ridge is Sherwood School District's newest elementary school. The school building features flexible learning environments and team rooms for teacher planning activities. Staff are generally pleased with the condition and layout of their facility. An art room is shared with the adjacent Laurel Ridge Middle School.

The school does not include a dedicated space for a before / afterschool program (e.g. Champions). A program was previously offered in the gym, but it was very distracting to teachers. It would be beneficial to be able to support this program onsite in a dedicated room or space.

Special Education

Edy Ridge has two (2) SPED resource rooms – one is used for ELL, whereas the other is used to deliver pull-out services for students with IEP's. SPED rooms are smaller than general classrooms. The school also includes two (2) "think rooms." The space that was designed as the OT/PT room has no natural light and is positioned far away from the students served. Consequently, this room is currently used for other purposes.

Technology

Edy Ridge has a one-to-one student/device ratio in two classrooms, supplying iPads and/or Chromebooks. The school is working to increase the student/device ratio in other classrooms. Classroom audio-visual technology is very functional. Ceiling-mounted projectors are included in all classrooms. Smart Boards are present in approximately nine (9) classrooms; however, this technology is being phased out. The school needs to add marker/white boards to the classrooms where the Smart Boards are being removed. Staff report that wireless capacity is sufficient.

The high windows in the cafeteria can interfere with the ability to see projected images – the school would like the ability to darken the room. The projectors in some classrooms need to be brighter, as daylighting interferes with the ability to see projected images. The District is replacing bulbs (as they burn out) with higher lumens. The speakers in the gym vs. the cafeteria were not connected at the time of installation; consequently, announcements cannot be broadcast on both sides at the same time.

Safety / Security

Edy Ridge includes design features that support security and access control. Edy Ridge is the only elementary school in the District with a vestibule-style entry. Rolling cage doors can seal off instructional wings from public areas (e.g. cafeteria). Staff report that stairs and corridors can become congested during dismissals and arrivals.

Laurel Ridge Middle School

Educational Programs / Instructional Delivery

Laurel Ridge is Sherwood School District's newest middle school facility. High enrollment limits the school's ability to use some spaces for their intended purposes due to capacity issues.³ The current overcrowded conditions present challenges related to use of the cafeteria. The school currently has three lunches – staff would prefer to offer two lunches, but there are obstacles to implementing this change (not just facility-related – there are other issues also).

General classrooms support instructional needs. There is a lack of planning space for teachers. The number of science labs (3) is sufficient; however, additional equipment is needed to meet future needs. A band room is provided; however, there is not a separate room for choir. The school would like to add a woodworking shop. Additional library storage is needed. The facility includes an art classroom that is shared with Edy Ridge. The space is functional, though the art room tables are showing wear and tear. Ample display areas are provided throughout the school.

The school only has one gym – it does not have an auxiliary gym or a weight room. Staff feel that a second gym is needed. Locker rooms are generally adequate. There is a muddy path from road to track – a paved walkway would be beneficial (students track in mud).

Special Education

One SPED classroom with a divider wall is provided at Laurel Ridge. The SPED classroom is smaller than general classrooms; however, the provided space is sufficient.

Technology

Classrooms are equipped with ceiling-mounted data projectors and document cameras. Some classrooms have Smart Boards. Audio amplification systems are present in classrooms. Wireless is generally sufficient for teachers to stream content, though it can be slow at times. Two computer labs are present (including one adjacent to the library). The lab next to the library is unusable during certain times of the year, as the school must store books in this area due to lack of space.

Teachers report that students have trouble seeing the screens in classrooms; this is particularly true in the science labs, where rooms are long and narrow. Teachers must hook their computer up to the data projector show videos in class; it would be helpful to have the ability to project videos in a manner that allows simultaneous use of their laptop.

Safety / Security

Laurel Ridge is equipped with a vestibule-style entry. The glass interior walls can present security-related challenges. An intercom / panic button system is located in the main office only, and staff report that it is complicated to use. Every classroom has a telephone, as well as doors equipped with intruder locks. Window coverings are provided throughout the facility.



³ Laurel Ridge's enrollment is expected to decrease following school boundary adjustments in fall of 2015, alleviating overcrowded conditions to some degree.

The configuration of the stairs has presented a hazard during crowded transitions. The stairs are very wide – there are rails on each side, but not in the middle. Students have fallen in the past, when they have lost their footing and had nothing to grab onto.

Top Parity Issues between Schools

While recognizing that every school building provides unique resources and challenges, it is the District's goal to offer a certain level of parity in the educational resources of Sherwood students (where feasible). During the principal interviews, the following items were mentioned as parity issues between school facilities in the District.

- <u>Flexibility</u>: The District's newer school facilities provide flexible learning environments, allowing teachers to more easily adapt spaces for a variety of learning approaches. Teachers in the District's older facilities are more limited in their activities due to the lack of breakout spaces and other design features.
- <u>Art Spaces</u>: The District's newer elementary and middle schools have access to an art classroom; the older elementary and middle schools do not have this resource. Consequently, the newer schools have the ability to offer an expanded array of STEAM activities, whereas the older schools are not necessarily equipped to accommodate messy, hands-on projects.
- <u>Technology</u>: Access to technology is not uniform across all District schools. Some schools are much better equipped in terms of computer labs, mobile devices, and audio-visual equipment.
- <u>Community Room</u>: Some schools include a community room, whereas others do not have this resource. Community rooms have proven to be heavily utilized within the District it is felt that all schools would benefit from a space.
- <u>Parking</u>: Parking is at a premium at some schools, limiting their ability to host events. Site constraints may limit the District's ability to expand parking at certain sites.
- <u>Access to Meeting Spaces</u>: Some school buildings do not include sufficient meeting spaces to accommodate small and/or large group meetings (particularly those requiring auditory privacy). This is particularly an issue with older and more crowded facilities within the District.
- <u>Gymnasium Space(s)</u>: There is a disparity in the number and sizes of gymnasium space(s) among District schools. This presents an obstacle to providing sufficient P.E. instructional time to students, as well as meeting community needs for extracurricular athletics.
- <u>Quality of Furnishings</u>: There was a noted disparity in the condition, age, function and aesthetics of furnishings in the older vs. newer District schools.
- <u>Outdoor Play Areas</u>: Some District school sites include outdoor learning resources and student gardens, as well as ample covered play areas. Other schools have more basic play structures and fields.

Edy Ridge Elementary School

21472 SW Copper Terrace Sherwood, Oregon 97140

Built:2009Enrollment:676 students (2014-15 school year)

Floor Area: 80,905 SF



Field Review Team: Thea Wayburn, DOWA – IBI Group John Mayer, Froelich Engineers Ray Soucie, RSA Robert Connell, MFIA Engineers Gary Adovnik, MFIA Engineers Scott Miller, MFIA Engineers

Report Date: AUGUST 2015

Date of Field Visit: April 23, 2015

Weather: Cloudy with times of rain

Site Contacts: Dale Goracke

General Building Description:

Edy Ridge Elementary School is the newest elementary school in the School District, and was constructed approximately 6 years ago. It is on the same campus as Laurel Ridge Middle School, and physically shares several spaces including a Community Room.

Time of Day: 2:30 pm

Neighborhood: Residential

Edy Ridge is a structural steel framed building. The structure is founded on conventional spread footings and the first level consists of a 5" reinforced concrete slab on grade. Intermediate floor levels are framed with steel beams and composite metal deck with concrete topping. The roof is framed with a mix of steel wide flange beams and open web steel joists supporting a metal deck that serves as the roof diaphragm. Lateral loads are resisted by a combination of CMU shear walls and special concentric steel braced frames located throughout the buildings.

Overall this facility is in excellent condition. The only issue/observation is that the size and type of exposed structure on the building's exterior has provided areas for birds to nest and be a nuisance for building maintenance.

A full building review of architectural, structural, mechanical, electrical, plumbing and low voltage components was conducted. Food Service was reviewed concurrently and will be referenced in this report; a detailed Food Service assessment will be located in the Appendix of this report. A Roofing Assessment was conducted at a later date and will also be included in the Appendix of this report.

An educational adequacy interview with each School Principal was conducted concurrently with the physical building review. This information will be included in a separate section of this Report.



A10 – STRUCTURE / SUBSTRUCTURE			
Item		Findings	Comments
A10.1	Foundations	No issues observed	
A10.2	Subgrade Enclosures	There are several locations where shrinkage cracks were evident in the existing slab on grade.	The cracks that were viewed were very small in width and do not pose a structural concern.
A10.3	Structural Systems	No issues observed	
RECON	IMENDATIONS		
A20 - E		IENTS	
ltem		Findings	Comments
A20.1	Exterior Walls	No issues observed	 Exterior wall materials are comprised of concrete masonry units (CMU) of varying colors and sizes and metal siding.
A20.2	Doors and Hardware	No issues observed	Typical hardware is lever- type hardware.
A20.3	Windows and Skylights	No issues observed	
A20.4	Roof	 Roofing is in good condition. 	 Roofing is a TPO membrane system. See Appendix for complete Roofing Report.
A20.5	Canopies and Covered Walks	No issues observed	
A20.6	Gutters and Downspouts	No issues observed	
A20.7	Trim and Overhangs	• Many of the roof overhangs are open web steel joists, which have provided areas for birds to nest and cause maintenance issues. Bird nests were observed as well.	
RECON	IMENDATIONS		
A20.4 A20.7		nt of roofing in long term maintenance plans (15 plus or netting in large overhang areas (by classroom com	

B - INTERIORS			
B10 – II	NTERIOR CIRCULAT	ION	
ltem		Findings	Comments
B10.1	Construction and Exiting	No issues observed	 Building is fully sprinklered. Fire doors are present in select locations.
B10.2	Stairs and Handrails	No issues observed	 Stairs and handrails are in very good condition.
B10.3	Ramps and Elevators	No issues observed	 Portions of this building are 2-story, and an elevator is present (Schindler). A ramp provides an accessible route to Stage and in front of the Library.
B10.4	Accessibility	• The permanent barriers designed at both classrooms stairs have been removed and the space under the stairs appears to be used for instruction. See Figure B10.4.	This may violate the reduced vertical clearance requirements stated in ANSI (American National Standards Institute) A117.1 Section 307.4.
B10.5	Signage	No issues observed	
P20 II			
B20 – II	NTERIOR FINISHES	Findings	Comments

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B20.2	Ceilings	No issues observed	 Ceilings include painted gypsum board, wood and
B a a a			acoustical tile ceiling clouds.
B20.3	Ceiling Issues	No issues observed	
B20.4	Fixed Equipment	No issues observed	 The stage curtains and lighting are in excellent condition. Typical classroom equipment includes projectors, Smart Boards and markerboards. Built-in wood benches near the main entry are in excellent condition. The Gymnasium has (6) backstops and manual bleachers (5 rows) as well as a scoreboard.
B20.5	Walls	 Hallway walls in the office area lack cornerguards. See Figure B20.5. 	 Gymnasium walls have wall padding. The wall between the Gymnasium and Cafeteria is an operable wall with tackable finish.
B20.6	Wall Finishes	 No issues observed 	 Wall finishes include wood paneling, wainscoting, painted gypsum board and exposed concrete block. Tackable wall areas are present throughout this facility. Kitchen walls have FRP (fiber reinforced panel) paneling.
B20.7	Furnishings	 Room E12 has one set of broken blinds. 	 Furniture throughout this facility is in excellent condition. Blinds are in good condition.
RECOM	IMENDATIONS	<u></u>	
B20.1 B20.5 B20.7	Replace transition s	all hallway walls in the main office area.	
B30 – IN	NTERIOR COMPONE	INTS	
ltem		Findings	Comments
B30.1	Interior Windows	No issues observed	
B30.2	Interior Doors and Hardware	No issues observed	• Doors are wood with painted metal frames, and are generally in very good condition.
B30.3	Acoustics	No issues observed	
B30.4	Casework	The plastic laminate sill in Room E9 was	 All other casework is in

B30.5	Safety/Security	No issues observed	bubblers. Exterior windows and interior doors and windows have horizontal louver blinds.
RECON	MENDATIONS		
B30.4	Replace damaged	plastic laminate.	
B40 – 1	OILET FACILITIES		
Item		Findings	Comments
B40.1	Walls and Wall Finishes	No issues observed	Restroom walls are painted gypsum board and ceramic tile or resilient flooring and gypsum board (staff restrooms).
B40.2	Floors and Floor Finishes	No issues observed	Flooring is resilient flooring or ceramic tile.
B40.3	Ceilings	No issues observed	Ceilings are all painted gypsum board.
	Partitions	No issues observed	
B40.4	Partitions		i i i i i i i i i i i i i i i i i i i
B40.4 B40.5	Fixtures	 No issues observed 	
		No issues observedNo issues observed	
B40.5	Fixtures		

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C - SYS	C - SYSTEMS				
C10 - P	LUMBING				
ltem		Findings	Comments		
C10.1	Water Service	No issues observed	A well is present on site for irrigation.		
C10.2	Piping	No issues observed	 Pipe is copper and PEX water piping. 		
C10.3	Drain and Vent Systems	No issues observed	 Cast iron waste lines above the floor slab; plastic waste lines below the slab. Plastic vent lines throughout. Grease interceptor for the entire kitchen. 		
C10.4	Fixtures	No issues observed	• Flush valve water closets and urinals are present.		
C10.5	Water Pressure and Service	No issues observed	Pressure: 70 PSI.		
C10.6	Storm and Overflow Drains	No issues observed	 Plastic pipe below grade. The roof is a flat roof drained with gutters. 		
C10.7	Water Heater	 The water heater connection is leaking and not tight. 	There are two tank style condensing gas fired water heaters with recirculation system.		
RECOM	IMENDATIONS				
C10.7	Tighten connectior	n at water heater.			
C20 - H	VAC				
ltem		Findings	Comments		
C20.1	Mechanical Equipment	No issues observed			
C20.2	Air Filtration	No issues observed	• 2" 30%		
C20.3	Equipment Accessibility	No issues observed	Roof access is good to most units.		
C20.4	Air Distribution and Ventilation	Access to fire smoke dampers is difficult.	 Sheet metal duct work system was observed. Displacement VAV system present at classrooms. 		
C20.5	Controls	• It is noted there are problems with lighting control system.	 Controls are Automated Logic digital control system. 		
C20.6	Generator	No issues observed	Gas fired generator		
C20.7	Cooling Systems	Refrigerant lines need insulation protection.	 Central air handler units are present with integral DX cooling system. Mini-split units are located in the data closets. 		
C20.8	Chillers	None present			

C20.9	Heating Systems	Corridor radiant heaters need floor support.	 Central air handler units with hot water heating coils. VAV reheat coils are hot water. Hot water radiators present at perimeter of classrooms and corridors.
C20.10	Boiler	 There is a leak at one boiler combination temperature / pressure gauge. See Figure C20.10.a. There are leaks at the boiler flue material joints. See Figure C20.10.b. 	Condensing gas fired stainless steel are Aerco Benchmark units.
RECOM	MENDATIONS		
C20.4 C20.5 C20.7 C20.9 C20.10	dampers. Remove lighting co Install refrigerant li	alysis of building under new code to eliminate the nee ontrol system and place lights on BAS. ne insulation protection. to corridor radiators. d stacks.	
C30 – F	RE PROTECTION		
ltem		Findings	Comments
C30.1	Fire Suppression System	No issues observed	Building is fully sprinklered.
		No issues observed	Service is in place and
C30.2	Water Service and Backflow Prevention		appears appropriate.
C30.2	and Backflow	No issues observed	Pressure: 70 PSI
C30.3 C30.4	and Backflow Prevention System	No issues observed No issues observed	
C30.3 C30.4 C30.5	and Backflow Prevention System Pressure Standpipes Fire Pump	No issues observed No issues observed	
C30.3 C30.4 C30.5 C30.6	and Backflow Prevention System Pressure Standpipes Fire Pump Fire Sprinkler Pipe Condition	No issues observed	
C30.3 C30.4 C30.5	and Backflow Prevention System Pressure Standpipes Fire Pump Fire Sprinkler	No issues observed No issues observed	
C30.3 C30.4 C30.5 C30.6	and Backflow Prevention System Pressure Standpipes Fire Pump Fire Sprinkler Pipe Condition Fire Department	No issues observed No issues observed No issues observed	
C30.3 C30.4 C30.5 C30.6 C30.7	and Backflow Prevention System Pressure Standpipes Fire Pump Fire Sprinkler Pipe Condition Fire Department Connection Fire Sprinkler	No issues observed No issues observed No issues observed No issues observed	
C30.3 C30.4 C30.5 C30.6 C30.7 C30.8	and Backflow Prevention System Pressure Standpipes Fire Pump Fire Sprinkler Pipe Condition Fire Department Connection Fire Sprinkler Zoning Flow Monitoring	No issues observed	Pressure: 70 PSI

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	D - ELECTRICAL				
D10 - ELECTRICAL EQUIPMENT					
ltem		Findings	Comments		
D10.1	Transformers	No issues observed			
D10.2	Switchgear and Panelboards	No issues observed	 This is a recently constructed facility with sufficient expansion capability. Equipment is Square D. 		
D10.3	Lighting	 Indirect lighting in cafeterias and media centers appears underlit. See Figure D10.3. Some fluorescent bulb types are hard to obtain. 	Ceilings are not white in these locations.		
D10.4	Lighting Controls	Maintenance personnel indicate programming is difficult.	 Leviton lighting control panels are used in some areas. 		
D10.5	Back-up and Emergency Power	 No issues observed 	 This is a recently constructed facility with sufficient expansion capability. 		
D10.6	Egress and Emergency Lighting	No issues observed			
D10.7	Exit Signage	No issues observed			
D10.8	Sensors	No issues observed			
RECOM D10.3	reduced maintena	ghting with LED direct lighting for increased lighting lev nce costs. Install dimmers for better control, as LED lig ed to fluorescent lighting.			
	Replace indirect lig	ghting with LED direct lighting for increased lighting lev nce costs. Install dimmers for better control, as LED lig			
D10.3	Replace indirect lig	ghting with LED direct lighting for increased lighting lev nce costs. Install dimmers for better control, as LED lig ed to fluorescent lighting.			
D10.3	Replace indirect lig reduced maintena dimmed as oppose	ghting with LED direct lighting for increased lighting lev nce costs. Install dimmers for better control, as LED lig ed to fluorescent lighting.			
D10.3 D20 – S Item	Replace indirect lig reduced maintena dimmed as oppose	ghting with LED direct lighting for increased lighting lev nce costs. Install dimmers for better control, as LED lig ed to fluorescent lighting.	ght fixtures are more easily		
D10.3 D20 – S Item D20.1 D20.2	Replace indirect lig reduced maintena dimmed as oppose SAFETY / SECURIT Fire Alarm Smoke Detection	ghting with LED direct lighting for increased lighting lev nce costs. Install dimmers for better control, as LED lig ed to fluorescent lighting.	ght fixtures are more easily Comments		
D10.3 D20 – S Item D20.1 D20.2 D20.3	Replace indirect lig reduced maintena dimmed as oppose SAFETY / SECURIT Fire Alarm Smoke Detection Pull Stations	ghting with LED direct lighting for increased lighting levence costs. Install dimmers for better control, as LED liged to fluorescent lighting. Y Findings No issues observed	ght fixtures are more easily Comments		
D10.3 D20 – S Item D20.1 D20.2 D20.3 D20.4	Replace indirect lig reduced maintena dimmed as oppose SAFETY / SECURIT Fire Alarm Smoke Detection Pull Stations Annunciation	ghting with LED direct lighting for increased lighting levence costs. Install dimmers for better control, as LED liged to fluorescent lighting. Y Findings No issues observed No issues observed	ght fixtures are more easily Comments		
D10.3 D20 – S Item D20.1	Replace indirect lig reduced maintena dimmed as oppose SAFETY / SECURIT Fire Alarm Smoke Detection Pull Stations	ghting with LED direct lighting for increased lighting levence costs. Install dimmers for better control, as LED liged to fluorescent lighting. Y Findings • No issues observed • No issues observed • No issues observed	ght fixtures are more easily Comments		
D10.3 D20 – S Item D20.1 D20.2 D20.3 D20.4 D20.5 D20.6	Replace indirect lig reduced maintena dimmed as oppose SAFETY / SECURIT Fire Alarm Smoke Detection Pull Stations Annunciation Addressable Zones and System Monitoring	ghting with LED direct lighting for increased lighting levence costs. Install dimmers for better control, as LED liged to fluorescent lighting. Y Findings • No issues observed	ght fixtures are more easily Comments		
D10.3 D20 – S Item D20.1 D20.2 D20.3 D20.4 D20.5 D20.6 D20.7	Replace indirect lig reduced maintena dimmed as oppose SAFETY / SECURIT Safety / Securit Fire Alarm Smoke Detection Pull Stations Annunciation Addressable Zones and System Monitoring Access Control	ghting with LED direct lighting for increased lighting levence costs. Install dimmers for better control, as LED lighted to fluorescent lighting. Y Findings No issues observed 	ght fixtures are more easily Comments		
D10.3 D20 – S Item D20.1 D20.2 D20.3 D20.4 D20.5 D20.6	Replace indirect lig reduced maintena dimmed as oppose SAFETY / SECURIT Fire Alarm Smoke Detection Pull Stations Annunciation Addressable Zones and System Monitoring	ghting with LED direct lighting for increased lighting levence costs. Install dimmers for better control, as LED liged to fluorescent lighting. Y Findings • No issues observed • No issues observed	Comments • Fire Alarm - EST		

RECOMMENDATIONS

ltem		Findings	Comments
D30.1	Backbone Cabling Infrastructure	No issues observed	Siemens
D30.2	Horizontal Cabling Infrastructure	No issues observed	Cable: Mohawk Cable
D30.3	MDF and IDF Grounding	No issues observed	
D30.4	MDF and IDF Conditions	• The IDF near the Main Office needs cooling.	
D30.5	Projection and Smart Boards	No issues observed	
D30.6	Audio Reinforcement	No issues observed	
D30.7	CATV	No issues observed	

D40 – TECHNOLOGY COMMUNICATIONS			
Item		Findings	Comments
D40.1	Paging and Intercom – Head End Condition	No issues observed	Telecenter
D40.2	Master Clock	No issues observed	Sapling
D40.3	Infrastructure	No issues observed	
D40.4	Speakers	No issues observed	Rauland
D40.5	Coverage	No issues observed	
D40.6	Clock System	No issues observed	Sapling
D40.7	Clock – Head End	No issues observed	Sapling
RECOM	MENDATIONS		
D30.4	Add cooling to ID	F Room.	



E - FOOD SERVICE				
E10- FOOD SERVICE				
Item		Findings	Comments	
E10.1	Equipment	 There is excessive ice build-up in the walk-in freezer. The Dish Room lacks a spray reel. 	See Appendix for complete Food Service Report.	
E10.2	Deliveries and Storage	No issues observed		
E10.3	Serving Line and Flow	Serving line edges are not protected.		
RECOMMENDATIONS				
E10.1 E10.3	Seal air gap and conc Add cornerguards to s	luit in walk-in freezer. Add spray reel. serving line edges.		

F - GRO	F - GROUNDS			
F10 – S	ITE CIRCULATIO	N AND PARKING		
ltem		Findings	Comments	
F10.1	Parking Lots	No issues observed	 There are (112) standard parking stalls and (5) accessible stalls. Carpool and compact parking stalls are provided. A separate staff lot is located near the building entry. 	
F10.2	Site Signage	No issues observed	 There are (2) site signs onsite. A flagpole is present. 	
F10.3	Vehicular Circulation	No issues observed	 Drive aisles are 2-way and adequately sized. Separate fire lanes are provided. 	
F10.4	Curbs and Sidewalks	Fire lane curbs are showing wear.	• Sidewalks and other non- painted curbs are in excellent condition.	
F10.5	Accessibility	The courtyard area near the cafeteria is tiered, and not fully accessible.	 The site itself and exterior doors locations are fully accessible. A door actuator is located at the main entrance. 	
F10.6	Bikes and Bike Parking	No issues observed	 Bike parking is located in (2) areas, both covered. One of these locations is at the main entry. 	
RECOM	MENDATIONS			
F10.4	Repaint all fire lar			
F20 - SI	TE COMPONENT			
ltem		Findings	Comments	
F20.1	Fields	No issues observed	 Site includes a large field area with several soccer nets and (2) baseball fields. 	
F20.2	Landscaping	• It is noted that plantings are in fair condition. Plant type and wear and tear have attributed to this. As a result, the sloped area is bark and dirt that becomes an issue in wet weather conditions. However, no issues observed at the time of the site visit.	 Landscaping includes lawn areas, trees and plants. A landscape architect and civil engineer should be consulted to review existing conditions and proposed options to mitigate issues. 	
F20.3	Irrigation	Not Applicable		
F20.4	Site Buildings	There is evidence of bird nesting/presence at the covered play area.	 The covered play area is in excellent condition. There are basketball backstops located under the covered play. Trash area is enclosed 	



			and gated.
F20.5	Site Security	• Play fields are accessed by crossing the fire/bus lane.	
F20.6	Fencing	No issues observed	
F20.7	Playground Equipment	No issues observed	There are (2) playground areas. Equipment is located in bark chips areas.
F20.8	Play Surfaces	No issues observed	
F20.9	Site Lighting	See Electrical Section	
F20.10	Grading and Drainage	No issues observed	
RECOM	MENDATIONS		
F20.4	Install bird spikes	or netting at covered play area.	

DOWA-IBI GROUP ARCHITECTS SHERWOOD SCHOOL DISTRICT FACILITIES PLANNING AND ASSESSMENT REPORT

IMAGES

Figure B10.4 – Under Stair Use



Figure B20.5 – Office Walls



Figure B30.4 – Damaged Sill





Figure C20.10.a – Boiler



Figure C20.10.b – Boiler



Figure D10.3 – Lighting





		ority L							
Edy Ridge Elementary		Refer		Prio	rity Level	Driv	ority Level	Dri	ority Leve
TEMS		II	 	r no		- FIN	II	- rn	III
A - STRUCTURE/SHELL						1			
A10 - STRUCTURE/SUBSTRUCTURE	Г			r		1		r	
A20 - EXTERIOR COMPONENTS									
A20.4 1 Budget for roof replacement (15 plus years)			Х					\$	750,00
A20.7 1 Add bird netting/bird spike at building exterior	x				\$7,795				
TOTALS - STF	RUCTU	IRE/S	HELL	\$	7,795	\$	-	\$	750,00
B - INTERIORS	T	1	1	r				1	
B10 - INTERIOR CIRCULATION B10.4 1 Reinstall existing barriers under stairs (no cost)	x			\$	-				
B10.4 1 Reinstall existing barriers under stairs (no cost)	^			ð	-				
B20 - INTERIOR FINISHES									
B20.1 1 Replace transition strips in (6) classrooms		х					\$986		
B20.5 1 Add cornerguards		х					\$759		
		~					φr05		
B20.6 1 Replace blinds		Х					\$537		
B30 - INTERIOR COMPONENTS									
B30.4 1 Replace damaged laminate top		х					\$3,130		
B40 - TOILET FACILITIES									
TOT	ALS - I	NTEE		e		\$	5,412	\$	
	AL3 - 1			φ	-	φ	5,412	φ	
C - SYSTEMS									
C10 - PLUMBING	1			1		[Γ	
C10.7 1 Tighten connection at water heater		х				\$	150		
C20 - HVAC									
C20- HVAC C20.4 1 Complete code analysis of building		х				\$	1,265		
							,		
C20.5 1 Remove lighting control system and replace		х				\$	28,462		
C20.7 1 Install refrigerant line protections		х				\$	2,530		
		~				Ŷ	2,000		
C20.9 1 Add floor supports for radiators		х				\$	10,120		
C20.10 1 Replace gauge/stacks	-	v				¢	15 400		
C20.10 1 Replace gauge/stacks		X				\$	15,180		
C30 - FIRE PROTECTION									
то	TALS	SYS	TEMS	\$	-	\$	57,707	\$	
D - ELECTRICAL									
D10 - ELECTRICAL EQUIPMENT	T	1		I				1	
D10.3 1 Replace fluorescent lighting		х				\$	53,130		
									-
D20 - SAFETY/SECURITY	-								
D30 - TECHNOLOGY	-							-	
D30.4 1 Add cooling to IDF rooms near Offices (for both	x			\$	15,180				
	1 ^	1		Ψ	10,100			-	
buildinas)									
buildinas)									

F20 - SITE COMPONENTS X \$ 2,333 X \$ 2,333 X \$ 1,26 TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,26 TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,26 TOTALS BY CATEGORY STRUCTURE/SHELL \$ 757,79 INTERIORS \$ 5,41 SYSTEMS \$ 5,770 ELECTRICAL \$ 68,31 FOOD SERVICE \$ 2,15 GROUNDS \$ 3,59 TOTALS BY PRIORITY LEVEL 1 \$ 26,57 LEVEL 1 \$ 26,57 LEVEL 1 \$ 26,57 LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13	Edy Ridge Elementary	(Refer Legeno	to	Priority Level	Priority Level	Pr	iority Level
E10.1 1 Seal air gaps and electrical conduit X \$ 1,265 2 Add spray real to Dish Room X \$ 5,06 E10.3 1 Add stainless steel cornerguards to serving line X \$ \$ 379 TOTALS - FOOD SERVICE \$ 1,265 \$ 885 \$ F10.3 1 Add stainless steel cornerguards to serving line X \$ \$ 379 TOTALS - FOOD SERVICE \$ 1,265 \$ 885 \$ F10.5 SITE CORPULATION AND PARKING F10.4 1 Repaint all fire lane curbs X \$ \$ 1,266 F20.4 1 Add bird netting or spikes at covered play area X \$ \$ 2,333 \$ \$ 1,266 TOTALS - GROUNDS \$ 2,333 \$ \$ 1,266 TOTALS - GROUNDS \$ 2,333 \$ \$ 1,266 TOTALS - GROUNDS \$ 2,333 \$ \$ <t< th=""><th>E - FOOD SERVICE</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	E - FOOD SERVICE							
2 Add spray real to Dish Room X X X S 506 E10.3 1 Add stainless steel cornerguards to serving line X \$ 379 TOTALS - FOOD SERVICE \$ 1,265 \$ 885 \$ F10-SITE CIRCULATION AND PARKING F10.4 1 Repaint all fire lane curbs X \$ 1,265 \$ 885 \$ F20.4 1 Add bird netting or spikes at covered play area X \$ 2,333 \$ - \$ 1,265 TOTALS - GROUNDS F20.4 1 Add bird netting or spikes at covered play area X \$ 2,333 \$ - \$ 1,265 TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,265 TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,266 TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,266								
E10.3 1 Add stainless steel cornerguards to serving line X \$ 379 TOTALS - FOOD SERVICE \$ 1,265 \$ 885 \$ F10-SITE CIRCULATION AND PARKING X \$ 1,265 \$ 885 \$ F10-SITE CIRCULATION AND PARKING X \$ 1,265 \$ 885 \$ F20-SITE COMPONENTS X \$ 1,265 \$	3	X	x		\$ 1,265	\$ 506		
TOTALS - FOOD SERVICE 1,265 885 \$ F10 - SITE CIRCULATION AND PARKING I			~			¢ 000		
F - GROUNDS F10 - SITE CIRCULATION AND PARKING F10.4 1 Repaint all fire lane curbs X F20.5 X F20.4 1 Add bird netting or spikes at covered play area X STRUCTURE/SHELL \$ TOTALS - GROUNDS \$ 2,333 - \$ 1.26 TOTALS - GROUNDS \$ \$ 5.41 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ <td>E10.3 1 Add stainless steel cornerguards to serving line</td> <td></td> <td>Х</td> <td></td> <td></td> <td>\$ 379</td> <td></td> <td></td>	E10.3 1 Add stainless steel cornerguards to serving line		Х			\$ 379		
F10 - SITE CIRCULATION AND PARKING X \$ 1.26 F10.4 1 Repaint all fire lane curbs X \$ 1.26 F20 - SITE COMPONENTS X \$ 2,333 - F20.4 1 Add bird netting or spikes at covered play area X \$ 2,333 - TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,26 TOTALS BY CATEGORY TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,26 TOTALS BY CATEGORY TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,26 TOTALS BY CATEGORY STRUCTURE/SHELL \$ 757,79 \$ 1,26 INTERIORS \$ 5,41 \$ 57,70 \$ 1,26 SYSTEMS \$ 57,70 \$ 1,26 \$ 68,31 SYSTEMS \$ 57,70 \$ 1,26 \$ 2,15 GROUNDS \$ 3,59 \$ 57,70 \$ 8,31 FOOD SERVICE \$ 2,15 \$ 68,31 \$ 68,31 FOOD SERVICE \$ 2,15 \$ 89,97 \$ 59 TOTALS BY PRIORITY LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13 \$ 117,13	TOTALS	- FOO	D SEF	RVICE	\$ 1,265	\$ 885	\$	-
F10.4 1 Repaint all fire lane curbs X \$ 1,26 F20 SITE COMPONENTS X \$ 2,333 - F20.4 1 Add bird netting or spikes at covered play area X \$ 2,333 - TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,26 TOTALS BY CATEGORY TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,26 TOTALS BY CATEGORY STRUCTURE/SHELL \$ 757,79 INTERIORS \$ 5,41 \$ 57,70 ELECTRICAL \$ 66,31 FOOD SERVICE \$ 2,15 GROUNDS \$ 3,59 FACILITY TOTAL \$ 894,97 TOTALS BY PRIORITY LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13	F - GROUNDS							
F20 - SITE COMPONENTS X \$ 2,333 X \$ 1,26 TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,26 TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,26 TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,26 TOTALS BY CATEGORY INTERIORS \$ 5,41 \$ 757,79 INTERIORS \$ 57,70 ELECTRICAL \$ 68,31 SYSTEMS \$ 57,70 ELECTRICAL \$ 68,31 FOOD SERVICE \$ 2,15 \$ 3,59 GROUNDS \$ 3,59 \$ 3,59 TOTALS BY PRIORITY IEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13 117,13								
F20.4 1 Add bird netting or spikes at covered play area X \$ 2,333 . \$ 1,26 TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,26 TOTALS - GROUNDS \$ 2,333 \$ - \$ 1,26 TOTALS BY CATEGORY STRUCTURE/SHELL \$ 757,79 INTERIORS \$ 5,41 SYSTEMS \$ 57,70 ELECTRICAL \$ 68,31 FOOD SERVICE \$ 2,15 GROUNDS \$ 3,59 TOTALS BY PRIORITY LEVEL 1 \$ 26,57 LEVEL 1 \$ 26,57 LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13	F10.4 1 Repaint all fire lane curbs			X			\$	1,265
TOTALS - GROUNDS \$ 2,333 \$ \$ 1,26 TOTALS - GROUNDS \$ 2,333 \$ \$ 1,26 TOTALS BY CATEGORY INTERIORS \$ 2,333 \$ - \$ 1,26 TOTALS BY CATEGORY INTERIORS \$ 7,57,79 INTERIORS \$ 5,41 SYSTEMS \$ 57,70 ELECTRICAL \$ 68,31 FOOD SERVICE \$ 2,15 GROUNDS \$ 3,59 TOTALS BY PRIORITY LEVEL 1 \$ 26,57 LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13	F20 - SITE COMPONENTS							
TOTALS BY CATEGORY STRUCTURE/SHELL \$ 757,79 INTERIORS \$ 5,41 SYSTEMS \$ 57,70 ELECTRICAL \$ 68,31 FOOD SERVICE \$ 2,15 GROUNDS \$ 3,59 FACILITY TOTAL \$ 894,97 TOTALS BY PRIORITY LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13	F20.4 1 Add bird netting or spikes at covered play area	X			\$ 2,333			
STRUCTURE/SHELL \$ 757,79 INTERIORS \$ 5,41 SYSTEMS \$ 57,70 ELECTRICAL \$ 68,31 FOOD SERVICE \$ 2,15 GROUNDS \$ 3,59 FACILITY TOTAL \$ 894,97 TOTALS BY PRIORITY LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13	тот	ALS -	GRO	UNDS	\$ 2,333	\$-	\$	1,265
INTERIORS \$ 5,41 SYSTEMS \$ 57,70 ELECTRICAL \$ 68,31 FOOD SERVICE \$ 2,15 GROUNDS \$ 3,59 FACILITY TOTAL \$ 894,97 TOTALS BY PRIORITY LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13	TOTALS BY CATEGORY			1	• •		1	
SYSTEMS \$ 57,70 ELECTRICAL \$ 68,31 FOOD SERVICE \$ 2,15 GROUNDS \$ 3,59 FACILITY TOTAL \$ 894,97 TOTALS BY PRIORITY LEVEL 1 LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13					STRUC	TURE/SHELL	\$	757,795
ELECTRICAL \$ 68,31 ELECTRICAL \$ 68,31 FOOD SERVICE \$ 2,15 GROUNDS \$ 3,59 FACILITY TOTAL \$ 894,97 TOTALS BY PRIORITY LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13						INTERIORS	\$	5,412
FOOD SERVICE \$ 2,15 GROUNDS \$ 3,59 FACILITY TOTAL \$ 894,97 TOTALS BY PRIORITY LEVEL 1 LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13						SYSTEMS	\$	57,707
GROUNDS \$ 3,59 FACILITY TOTAL \$ 894,97 TOTALS BY PRIORITY LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13						ELECTRICAL	\$	68,310
FACILITY TOTAL \$ 894,97 TOTALS BY PRIORITY LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13					F	DOD SERVICE	\$	2,150
TOTALS BY PRIORITY LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13						GROUNDS	\$	3,598
LEVEL 1 \$ 26,57 LEVEL 2 \$ 117,13					FAC	ILITY TOTAL	\$	894,972
LEVEL 2 \$ 117,13	TOTALS BY PRIORITY							
				Γ		LEVEL 1	\$	26,573
LEVEL 3 \$ 751,26						LEVEL 2	\$	117,134
						LEVEL 3	\$	751,265
PRIORITY TOTAL \$ 894,97					PRIC	RITY TOTAL	\$	894,972

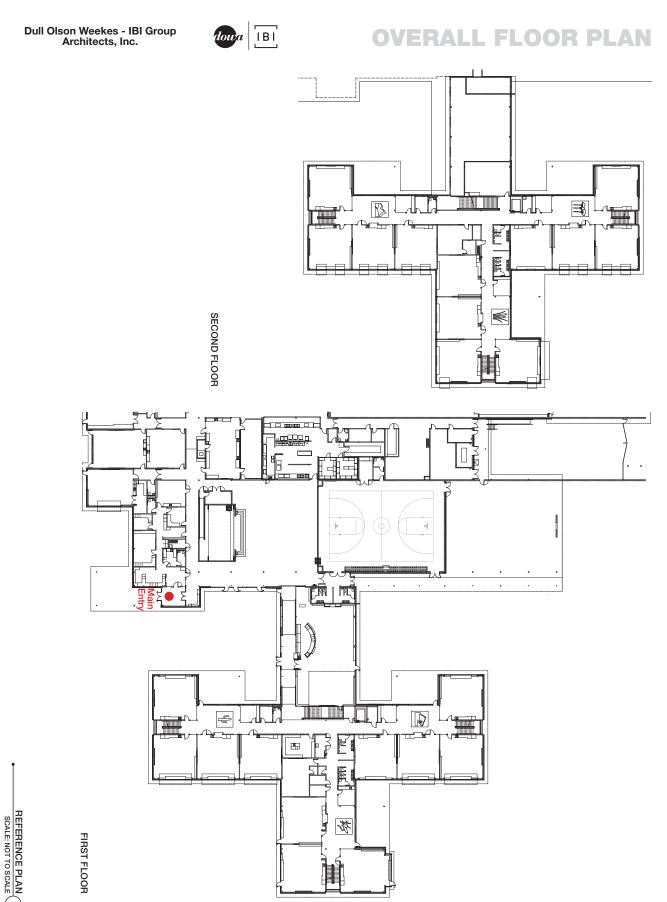
LEGEND: PRIORITY LEVELS

Level I: Highest Priority; Issues that affect the life safety concerns of the occupant, related to notification of occupants to emergency situations and the ability to safely evacuate the facility; subcomponents of Level I include safety concerns such as electrical loads, hazardous materials that might be affected with remodel or modifications, lack of fall protection. Level I items may also include structural upgrades to facilities constructed prior to current building codes or systems or components at the end of their useful life. Level I items need to be addressed within a 5-year timeframe.

Level II: Moderate Priority; Issues that are related to the integrity and adequacy of systems within the building to sufficiently withstand a major event and still function; also related are the age of systems or building components that keep day to day operations running without constant repair. Issues may include mechanical, electrical and plumbing systems, fire suppression, lighting and security, as well as flooring, windows doors and other architectural components. Level II Items may be part of a 5-10 year timeframe.

Level III: Lower Priority; Issues that may over time affect the day to day maintenance of the building or long term use of the facility. Issues also include access and clearances at equipment and fixtures, access for individuals with disabilities and both indoor and exterior environment quality in addition to cosmetic/aesthetic upgrades. Level III Items would be considered in a 10+ year timeframe.





August 2015

Laurel Ridge Middle School

21416 SW Copper Terrace Sherwood, Oregon 97140

Built:2009Enrollment:567 students (2014-15 school year)

Floor Area: 80,905 SF



Field Review Team:	Thea Wayburn, DOWA – IBI Group
	John Mayer, Froelich Engineers
	Ray Soucie, RSA
	Gary Adovnik, MFIA Engineers
	Robert Connell, MFIA Engineers
	Scott Miller, MFIA Engineers

Report Date: AUGUST 2015

Date of Field Visit: April 23, 2015

Weather: Cloudy with times of rain

Site Contacts: Dale Goracke

Time of Day: 1:00 pm Neighborhood: Residential

General Building Description:

Laurel Ridge Middle School is one of (2) middle schools in the School District, and was constructed approximately 6 years ago. It is on the same campus as Edy Ridge Elementary School, and physically shares several spaces including a Community Room.

Laurel Ridge is a structural steel framed building. The structure is founded on conventional spread footings and the first level consists of a 5" reinforced concrete slab on grade. Intermediate floor levels are framed with steel beams and composite metal deck with concrete topping. The roof is framed with a mix of steel wide flange beams and open web steel joists supporting a metal deck that serves as the roof diaphragm. Lateral loads are resisted by a combination of CMU shear walls and special concentric steel braced frames located throughout the buildings.

Overall this facility is in excellent condition. The only issue/observation is that the size and type of exposed structure on the building's exterior has provided areas for birds to nest and be a nuisance for building maintenance.

A full building review of architectural, structural, mechanical, electrical, plumbing and low voltage components was conducted. Food Service was reviewed concurrently and will be referenced in this report; a detailed Food Service assessment will be located in the Appendix of this report. A Roofing Assessment was conducted at a later date and will also be included in the Appendix of this report.

An educational adequacy interview with each School Principal was conducted concurrently with the physical building review. This information will be included in a separate section of this Report.



A10 – S	TRUCTURE / SUB	STRUCTURE	
ltem		Findings	Comments
A10.1	Foundations	No issues observed	
A10.2	Subgrade Enclosures	• There are several locations where shrinkage cracks were evident in the existing slab on grade.	 The cracks that were viewed were very small in width and do not pose a structural concern.
A10.3	Structural Systems	No issues observed	
RECON	IMENDATIONS		
A20 - E		NENTS	Γ
ltem		Findings	Comments
A20.1	Exterior Walls	No issues observed	 Exterior wall materials are comprised of concrete masonry units (CMU) of varying colors and sizes and metal siding.
A20.2	Doors and Hardware	No issues observed	• Typical hardware is lever- type hardware.
A20.3	Windows and Skylights	No issues observed	
A20.4	Roof	 Roofing is in good condition. 	 Roofing is a TPO membrane system. See Appendix for complete Roofing Report.
A20.5	Canopies and Covered Walks	No issues observed	• The main entry canopy is a metal and wood structure and in excellent condition.
A20.6	Gutters and Downspouts	No issues observed	
A20.7	Trim and Overhangs	• Many of the roof overhangs are open web steel joists, which have provided areas for birds to nest and cause maintenance issues. Bird nests were observed as well. See Figures A20.7.a and b.	
RECON	IMENDATIONS		
A20.4 A20.7		ent of roofing in long term maintenance plans (15 plus or netting in large overhang areas (by classroom comr	

B - IN	TERIORS		
B10 – II		ΓΙΟΝ	
ltem		Findings	Comments
B10.1	Construction and Exiting	No issues observed	 Building is fully sprinklered. Fire doors are present in select locations.
B10.2	Stairs and Handrails	Handrail finishes are starting to show wear.	Stairs are in excellent condition.
B10.3	Ramps and Elevators	No issues observed	 Portions of this building are 2-story, and an elevator is present (Schindler). A ramp provides an accessible route to Stage and in front of the Library.
B10.4	Accessibility	No issues observed	
B10.5	Signage	No issues observed	
820 – II	VTERIOR FINISHES		
Item		Findings	Comments
B20.1	Flooring	No issues observed	 Most floors are stained and polished concrete, all which are in very good condition. Carpeting is located in select areas and is in very good condition. The Gymnasium has wood flooring. Kitchen flooring is quarry tile.
B20.2	Ceilings	• See B20.3.	 Ceilings include painted gypsum board, wood and acoustical tile ceiling clouds.
B20.3	Ceiling Issues	There are several water damaged tiles observed throughout this facility. See Figure B20.3.	 It is not known if the water damage is from recent or prior issues.

IBI

B20 /	Fixed Equipment	• Exposed ductwork in the Overnooium in	• The Cympasium hee (6)
B20.4	Fixed Equipment	 Exposed ductwork in the Gymnasium is damaged and painted finishes are chipped off. See Figure B20.4. 	 The Gymnasium has (6) backstops and manual bleachers (5 rows) as well as a scoreboard. Double height lockers are present in classroom hallways, and are in excellent condition. Built-in wood benches near the main entry are in excellent condition. The stage curtains and lighting are in excellent condition. Typical classroom equipment includes projectors, Smart Boards and markerboards. Science classrooms are equipped with eyewashes, and fire extinguishers (and blankets).
B20.5	Walls	No issues observed	 Gymnasium walls have wall padding. The wall between the Gymnasium and Cafeteria is an operable wall with tackable finish. All gypsum walls have wall protection (i.e. cornerguards).
B20.6	Wall Finishes	No issues observed	 Wall finishes include wood paneling, wainscoting, painted gypsum board and exposed concrete block. Tackable wall areas are present throughout this facility. Kitchen walls have FRP (fiber reinforced panel) paneling.
B20.7	Furnishings	No issues observed	Blinds are in good condition.
RECOM	MENDATIONS	l	
B20.4	gauge sheet metal.	ductwork in Gymnasium. Remove existing ductwor	k and replace with a heavier
	TERIOR COMPONE		
Item	Interior Mindour	Findings	Comments
B30.1 B30.2	Interior Windows Interior Doors and Hardware	 No issues observed Several doors show a significant wear, considering the age of the building. See Figure B30.2. The finish on the doors and frames to the 	 Doors with wear are located near the Kitchen and Gymnasium areas. Doors are wood with painted

B30.3 B30.4	Acoustics	No issues observed	 generally in very good condition. Acoustical wall (and ceiling) treatment is present throughout the facility, especially in higher volume spaces.
			treatment is present throughout the facility, especially in higher volume
B30.4	Casework		
		• The interior carpet finish of the instrument storage casework is ripped and damaged in several locations. See Figure B30.4.	 All other casework is in excellent condition. Classroom sinks include bubblers.
B30.5	Safety/Security	No issues observed	 Exterior windows and interior doors and windows have horizontal louver blinds. Classroom wings do not have the ability to be locked off for after-hours use of the building.
RECOMM	IENDATIONS		
fi p B30.4 F	from traffic and wea protection. Remove and replac	Applate at (10) interior door locations and replace with ar. Repaint frames at music classroom. Replace do be damaged carpet finish from instrument storage.	pors or add larger kickplates for
	DILET FACILITIES		
Item		Findings	Comments
	Walls and Wall Finishes	 No issues observed 	 Restroom walls are painted gypsum board and ceramic tile or resilient flooring and gypsum board (staff restrooms).
-	Floors and Floor Finishes	 No issues observed 	 Flooring is resilient flooring or ceramic tile.
	0.111	No issues observed	Ceilings are all painted
	Ceilings		gypsum board.
B40.3	Partitions	No issues observed	gypsum board.
B40.3 B40.4	0		gypsum board.
B40.3 B40.4 B40.5	Partitions	No issues observed	gypsum board.
B40.3 B40.4 B40.5 B40.6	Partitions Fixtures	 No issues observed No issues observed 	gypsum board.

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C - SYS	STEMS		
C10 - PI	UMBING		
Item		Findings	Comments
C10.1	Water Service	No issues observed	• A well is present on site for irrigation.
C10.2	Piping	No issues observed	Pipe is copper and PEX water.
C10.3	Drain and Vent Systems	No issues observed	 Cast iron waste lines above the floor slab; plastic waste lines below the slab. Plastic vent lines throughout. Grease interceptor for the entire kitchen.
C10.4	Fixtures	No issues observed	• Flush valve water closets and urinals are present.
C10.5	Water Pressure and Service	No issues observed	Pressure: 70 PSI.
C10.6	Storm and Overflow Drains	No issues observed	 Plastic pipe below grade. The roof is a flat roof drained with gutters.
C10.7	Water Heater	The water heater connection is leaking and not tight.	There are two tank style condensing gas fired water heaters with recirculation system.
RECOM	MENDATIONS		
C10.7	Tighten connection	n at water heater.	
C20 - H	VAC		
ltem		Findings	Comments
C20.1	Mechanical Equipment	No issues observed	
C20.2	Air Filtration	No issues observed	• 2" 30%
C20.3	Equipment Accessibility	No issues observed	Roof access is good to most units.
C20.4	Air Distribution and Ventilation	Access to fire smoke dampers is difficult.	 Sheet metal duct work system was observed. Displacement VAV system present at classrooms.
C20.5	Controls	• It is noted there are problems with lighting control system.	Controls are Automated Logic digital control system.
C20.6	Generator	No issues observed	Gas fired generator
C20.7	Cooling Systems	Refrigerant lines need insulation protection.	 Central air handler units are present with integral DX cooling system. Mini-split units are located in the data closets.
C20.8	Chillers	None present	

C20.9	Heating Systems	Corridor radiant heaters need floor support.	 Central air handler units with hot water heating coils. VAV reheat coils are hot water. Hot water radiators present at perimeter of classrooms and corridors.
C20.10	Boiler	 There is a leak at one boiler combination temperature / pressure gauge. See Figure C20.10.a. There are leaks at the boiler flue material joints. See Figure C20.10.b. 	 Condensing gas fired stainless steel are Aerco Benchmark units.
RECOM	MENDATIONS		
C20.4 C20.5 C20.7 C20.9 C20.10	dampers. Remove lighting co Install refrigerant li	alysis of building under new code to eliminate the nee ontrol system and place lights on BAS. ne insulation protection. to corridor radiators. d stacks.	ed for some fire smoke
C30 – F	IRE PROTECTION		
Item		Findings	Comments
Item C30.1	Fire Suppression System	Findings No issues observed	Comments Building is fully sprinklered.
C30.1	Suppression System Water Service and Backflow	No issues observed	Building is fully sprinklered.Service is in place and
C30.1 C30.2 C30.3 C30.4	Suppression System Water Service and Backflow Prevention System Pressure Standpipes	No issues observed No issues observed	 Building is fully sprinklered. Service is in place and appears appropriate.
C30.1 C30.2 C30.3 C30.4 C30.5	Suppression System Water Service and Backflow Prevention System Pressure Standpipes Fire Pump	No issues observed No issues observed No issues observed	 Building is fully sprinklered. Service is in place and appears appropriate.
C30.1 C30.2 C30.3 C30.4	Suppression System Water Service and Backflow Prevention System Pressure Standpipes Fire Pump Fire Sprinkler Pipe Condition	 No issues observed No issues observed No issues observed No issues observed 	 Building is fully sprinklered. Service is in place and appears appropriate.
C30.1 C30.2 C30.3 C30.4 C30.5	Suppression System Water Service and Backflow Prevention System Pressure Standpipes Fire Pump Fire Sprinkler	No issues observed	 Building is fully sprinklered. Service is in place and appears appropriate.
C30.1 C30.2 C30.3 C30.4 C30.5 C30.6	Suppression System Water Service and Backflow Prevention System Pressure Standpipes Fire Pump Fire Sprinkler Pipe Condition Fire Department Connection Fire Sprinkler	 No issues observed 	 Building is fully sprinklered. Service is in place and appears appropriate.
C30.1 C30.2 C30.3 C30.4 C30.5 C30.6 C30.7	Suppression System Water Service and Backflow Prevention System Pressure Standpipes Fire Pump Fire Sprinkler Pipe Condition Fire Department Connection	 No issues observed 	 Building is fully sprinklered. Service is in place and appears appropriate.

D10 - E						
D10 - ELECTRICAL EQUIPMENT						
ltem		Findings	Comments			
D10.1	Transformers	No issues observed				
D10.2	Switchgear and Panelboards	No issues observed	 This is a recently constructed facility with sufficient expansion capability. Equipment: Square D 			
D10.3	Lighting	 Indirect lighting in cafeterias and media centers appears underlit. See Figure D10.3. Some fluorescent bulb types are hard to obtain. 	Ceilings are not white in these locations.			
D10.4	Lighting Controls	Maintenance personnel indicate programming is difficult.	 Leviton lighting control panels are used in some areas. 			
D10.5	Back-up and Emergency Power	No issues observed	This is a recently constructed facility with sufficient expansion capability.			
D10.6	Egress and Emergency Lighting	No issues observed				
D10.7	Exit Signage	No issues observed				
D10.8	Sensors	No issues observed				
	IMENDATIONS					
D10.3	Replace indirect lig	ghting with LED direct lighting for increased lighting le nce costs. Install dimmers for better control, as LED li ed to fluorescent lighting.	vels, energy savings, and ght fixtures are more easily			
D10.3	Replace indirect lig	nce costs. Install dimmers for better control, as LED li ed to fluorescent lighting.	evels, energy savings, and ight fixtures are more easily			
D10.3 D20 – S	Replace indirect lig reduced maintena dimmed as oppose	nce costs. Install dimmers for better control, as LED li ed to fluorescent lighting.	evels, energy savings, and ight fixtures are more easily Comments			
D10.3 D20 – S Item	Replace indirect lig reduced maintena dimmed as oppose	nce costs. Install dimmers for better control, as LED li ed to fluorescent lighting.	ght fixtures are more easily			
D10.3 D20 – S Item D20.1 D20.2	Replace indirect lig reduced maintena dimmed as oppose AFETY / SECURIT Fire Alarm Smoke Detection	nce costs. Install dimmers for better control, as LED li ed to fluorescent lighting. Y Findings	ght fixtures are more easily Comments			
D10.3 D20 – S Item D20.1 D20.2 D20.3	Replace indirect lig reduced maintena dimmed as oppose SAFETY / SECURIT Fire Alarm Smoke Detection Pull Stations	 nce costs. Install dimmers for better control, as LED lied to fluorescent lighting. Y Findings No issues observed No issues observed No issues observed No issues observed 	ght fixtures are more easily Comments			
D10.3 D20 – S Item D20.1 D20.2 D20.3 D20.4	Replace indirect lig reduced maintena dimmed as oppose SAFETY / SECURIT Fire Alarm Smoke Detection Pull Stations Annunciation	 nce costs. Install dimmers for better control, as LED lied to fluorescent lighting. Y Findings No issues observed 	ght fixtures are more easily Comments			
D10.3 D20 – S Item D20.1	Replace indirect lig reduced maintena dimmed as oppose SAFETY / SECURIT Fire Alarm Smoke Detection Pull Stations	 nce costs. Install dimmers for better control, as LED lied to fluorescent lighting. Y Findings No issues observed No issues observed No issues observed No issues observed 	ght fixtures are more easily Comments			
D10.3 D20 – S Item D20.1 D20.2 D20.3 D20.4	Replace indirect lig reduced maintena dimmed as oppose AFETY / SECURIT Fire Alarm Smoke Detection Pull Stations Annunciation Addressable Zones and	 nce costs. Install dimmers for better control, as LED lied to fluorescent lighting. Y Findings No issues observed 	ght fixtures are more easily Comments			
D10.3 D20 – S Item D20.1 D20.2 D20.3 D20.4 D20.5 D20.6	Replace indirect lig reduced maintena dimmed as oppose SAFETY / SECURIT Fire Alarm Smoke Detection Pull Stations Annunciation Addressable Zones and System	 nce costs. Install dimmers for better control, as LED lied to fluorescent lighting. Y Findings No issues observed 	ght fixtures are more easily Comments			
D10.3 D20 – \$ Item D20.1 D20.2 D20.3 D20.4 D20.5	Replace indirect lig reduced maintena dimmed as oppose SAFETY / SECURIT Fire Alarm Smoke Detection Pull Stations Annunciation Addressable Zones and System Monitoring	 nce costs. Install dimmers for better control, as LED lied to fluorescent lighting. Y Findings No issues observed 	ght fixtures are more easily Comments Fire Alarm - EST			

RECOMMENDATIONS

D30 - TECHNOLOGY				
ltem		Findings	Comments	
D30.1	Backbone Cabling Infrastructure	No issues observed	Siemens	
D30.2	Horizontal Cabling Infrastructure	No issues observed	Cable: Mohawk Cable	
D30.3	MDF and IDF Grounding	No issues observed		
D30.4	MDF and IDF Conditions	See Edy Ridge Report		
D30.5	Projection and Smart Boards	No issues observed		
D30.6	Audio Reinforcement	No issues observed		
D30.7	CATV	No issues observed		
RECOM	MENDATIONS			

D40 – T	D40 – TECHNOLOGY COMMUNICATIONS				
ltem		Findings	Comments		
D40.1	Paging and Intercom – Head End Condition	 No issues observed 	Telecenter		
D40.2	Master Clock	No issues observed	Sapling		
D40.3	Infrastructure	No issues observed			
D40.4	Speakers	No issues observed	Rauland		
D40.5	Coverage	No issues observed			
D40.6	Clock System	No issues observed	Sapling		
D40.7	Clock – Head End	No issues observed	Sapling		
RECOM	MENDATIONS				



E - FO	OD SERVICE						
E10- FOOD SERVICE							
Item		Findings	Comments				
E10.1	Equipment	See Edy Ridge Report					
E10.2	Deliveries and Storage	See Edy Ridge Report					
E10.3	Serving Line and Flow	See Edy Ridge Report					
RECON	IMENDATIONS						

F - GR	OUNDS		
F10 – S	ITE CIRCULATION	N AND PARKING	
ltem		Findings	Comments
F10.1	Parking Lots	No issues observed	 There are (110) standard parking stalls and (5) accessible stalls. Carpool and compact parking stalls are provided.
F10.2	Site Signage	No issues observed	 There are (2) site signs onsite. A flagpole is present.
F10.3	Vehicular Circulation	No issues observed	 Drive aisles are 2-way and adequately sized. Separate fire lanes are provided.
F10.4	Curbs and Sidewalks	 Fire lane curbs are showing wear. 	Sidewalks and other non- painted curbs are in excellent condition.
F10.5	Accessibility	The courtyard area near the cafeteria is tiered, and not fully accessible.	 The site itself and exterior doors locations are fully accessible. A door actuator is located at the main entrance.
F10.6	Bikes and Bike Parking	No issues observed	 Bike parking is located in (2) areas, both covered. One of these locations is at the main entry.
RECON	IMENDATIONS		
F10.4	Repaint all fire lan	e curbs.	
F20 - SI	TE COMPONENT	S	1
ltem		Findings	Comments
F20.1	Fields	No issues observed	• Site includes a football field with 8-lane asphalt track, tennis courts and baseball fields. Large field areas are also available for soccer.
F20.2	Landscaping	No issues observed	• Landscaping includes lawn areas, trees and plants.
F20.3	Irrigation	Not Applicable	
F20.4	Site Buildings	There is evidence of bird nesting/presence at the covered play area.	 The covered play area is in excellent condition. There are (6) backstops located under the covered play. Trash area is enclosed and gated.
F20.5	Site Security	• Play fields are accessed by crossing the fire/bus lane.	
F20.6	Fencing	No issues observed	
F20.7	Playground Equipment	No issues observed	



F20.8	Play Surfaces	No issues observed	
F20.9	Site Lighting	See Electrical Section	
F20.10	Grading and Drainage	No issues observed	
RECOM	MENDATIONS		
F20.4	Install netting or b	ird spikes at the covered play area.	

IMAGES

Figure A20.7.a – Bird Issues



Figure A20.7.b – Bird Issues



Figure B20.3 – Ceiling Tiles



Figure B20.4 – Damaged Duct





Figure B30.2 – Worn Doors



Figure B30.4 – Instrument Storage



Figure C20.10.a - Boilers



Figure C20.10.b – Boilers



Figure D10.3 – Lighting







		Pri	iority L	.evel						
Laurel Ridge Middle School			(Refer							
	age middle School		Legen	1 .		y Level	Pric	ority Level	Pri	ority Leve
ITEMS A - STRUCT			II			1		II		III
	CTURE/SUBSTRUCTURE			1	[1	
A10-51K	CTURE/SUBSTRUCTURE									
A20 - EXTI	RIOR COMPONENTS									
A20.4	1 Budget for roof replacement (15+ yea	rs)		Х					\$	780,00
A20.7	1 Install bird netting/bird spikes to buildi	ng's exterior X			\$	7,526				
A20.7					φ	7,520				
	Т	OTALS - STRUCT	URE/S	HELL	\$	7,526	\$	_	\$	780,00
B - INTERIO					•	.,	Ť		Ť	
	RIOR CIRCULATION			1						
B10 - INTE B01.2	1 Repaint all interior handrails		x				\$	1,897		
501.2							Ψ	1,097		
B20 - INTE	RIOR FINISHES									
B20.3	1 Replace damaged ceiling tiles		Х				\$	600		
	2 Repaint exposed ductwork in Gymnas		Х				\$	600		
	3 Replace damaged ductwork with heav	vier gauge X			\$	2,024				
B30 - INTE	RIOR COMPONENTS									
B30.2	1 Remove existing kickplates and replace	ce with larger	x				\$	1,882		
	ones									
	 Repaint frames at Music Classroom Replace doors at Music Classroom 		X				\$ \$	632 3,342		
	4 Replace select doors		X				φ \$	3,795		
							Ŷ	0,100		
B30.4	1 Replace carpeting in instrument stora	ge cabinets	x				\$	2,024		
B40 - TOIL	ET FACILITIES									
		TOTAL -	INTEF	RIORS	\$	2,024	\$	14,772	\$	
C - SYSTEM										
C - SYSTEM										
			x				\$	189		
C10 - PLUI C10.7	IBING 1 Tighten connection at water heater		X				\$	189		
C10.7	IBING 1 Tighten connection at water heater									
C10 - PLUI C10.7	IBING 1 Tighten connection at water heater		x				\$	189		
C10 - PLUI C10.7 C20 - HVA	IBING 1 Tighten connection at water heater									
C10 - PLUI C10.7 C20 - HVA C20.4 C20.5	IBING 1 Tighten connection at water heater 1 Complete code analysis of building 1 Remove lighting control system and re	2place	X				\$	1,265 28,462		
C10 - PLU C10.7 C20 - HVA C20.4	IBING 1 Tighten connection at water heater 1 Complete code analysis of building	place	x				\$	1,265		
C10 - PLUI C10.7 C20 - HVA C20.4 C20.5	IBING 1 Tighten connection at water heater 1 Complete code analysis of building 1 Remove lighting control system and re	splace	X				\$	1,265 28,462		
C10 - PLUI C10.7 C20 - HVA C20.4 C20.5 C20.7	IBING 1 Tighten connection at water heater 2 1 Complete code analysis of building 1 Remove lighting control system and restrictions 1 Install refrigerant line protections	>place	X X X X				\$	1,265 28,462 2,530		
C10 - PLUI C10.7 C20 - HVA C20.4 C20.5 C20.7 C20.9 C20.10	IBING 1 Tighten connection at water heater 1 Complete code analysis of building 1 Remove lighting control system and restrictions 1 Install refrigerant line protections 1 Add floor supports for radiators 1 Replace gauge/stacks	2place	X X X X X				\$ \$ \$	1,265 28,462 2,530 10,120		
C10 - PLUI C10.7 C20 - HVA C20.4 C20.5 C20.7 C20.9 C20.10	IBING 1 Tighten connection at water heater 2 1 Complete code analysis of building 1 Remove lighting control system and restance 1 Install refrigerant line protections 1 Add floor supports for radiators	>place	X X X X X				\$ \$ \$	1,265 28,462 2,530 10,120		
C10 - PLUI C10.7 C20 - HVA C20.4 C20.5 C20.7 C20.9 C20.10	IBING 1 Tighten connection at water heater 1 Complete code analysis of building 1 Remove lighting control system and restrictions 1 Install refrigerant line protections 1 Add floor supports for radiators 1 Replace gauge/stacks	>place	X X X X X				\$ \$ \$	1,265 28,462 2,530 10,120		

Laurel Ridge Middle School	(I L	Refer	to d)	Prio	rity Level	-	Pr	iority Level
ITEMS D - ELECTRICAL		II		<u> </u>	1	II		III
D10 - ELECTRICAL EQUIPMENT	1	1	1	1		[1	
D10.3 1 Replace fluorescent lighting		х				\$ 53,130		
D20 - SAFETY/SECURITY								
D30 - TECHNOLOGY								
D40 - TECHNOLOGY COMMUNICATIONS								
TOTAL	S - EL	ECTF	RICAL	\$	-	\$ 53,130	\$	-
E - FOOD SERVICE								
E10 - FOOD SERVICE								
SEE EDY RIDGE								
TOTALS	FOO	D SEF	RVICE	\$	-	\$-	\$	-
F - GROUNDS								
F10 - SITE CIRCULATION AND PARKING								
F10.4 1 Repaint all fire lane curbs			Х				\$	1,265
F20 - SITE COMPONENTS								
F20.4 1 Add bird spikes or netting to covered play area	Х			\$	2,688			
тот	ALS -	GRO	UNDS	\$	2,688	\$-	\$	1,265
TOTALS BY CATEGORY				•			-	
					STRUC	TURE/SHELL	\$	787,526
						INTERIORS	\$	16,796
						SYSTEMS	\$	57,746
						ELECTRICAL	\$	53,130
					FC	DOD SERVICE	\$	-
						GROUNDS	\$	3,953
					FAC	LITY TOTAL	\$	919,151
TOTALS BY PRIORITY			1					
						LEVEL 1	\$	12,238
						LEVEL 2 LEVEL 3	\$ \$	125,648 781,265
					PRIO	RITY TOTAL	э \$	919,151
LEGEND:					. 100		Ψ	515,151

LEGEND:

PRIORITY LEVELS

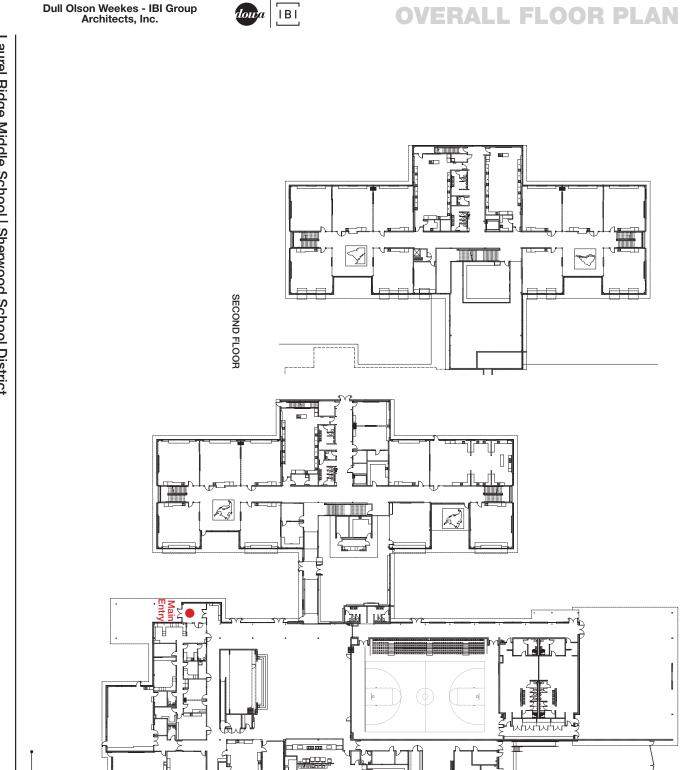
Level I: Highest Priority; Issues that affect the life safety concerns of the occupant, related to notification of occupants to emergency situations and the ability to safely evacuate the facility; subcomponents of Level I include safety concerns such as electrical loads, hazardous materials that might be affected with remodel or modifications, lack of fall protection. Level I items may also include structural upgrades to facilities constructed prior to current building codes or systems or components at the end of their useful life. Level I items need to be addressed within a 5-year timeframe.

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components. Level II Items may be part of a 5-10 year timeframe.

	Priority	Level			
Levrel Didae Middle Osheel	(Refer to				
Laurel Ridge Middle School		nd)	Priority Level	Priority Level	Priority Level
ITEMS	I II	III	I	II	Ш
Level II: Moderate Priority; Issues that are related to sufficiently withstand a major event and still function keep day to day operations running without constan systems, fire suppression, lighting and security, as w	i; also rela t repair. Is	ted are ssues m	the age of syste	ms or building c hanical, electrica	components that al and plumbing

Level III: Lower Priority; Issues that may over time affect the day to day maintenance of the building or long term use of the facility. Issues also include access and clearances at equipment and fixtures, access for individuals with disabilities and both indoor and exterior environment quality in addition to cosmetic/aesthetic upgrades. Level III Items would be considered in a 10+ year timeframe.



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SCALE: NOT TO SCALE August 2015

FIRST FLOOR

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Sherwood School District Evaluation Of District Wide Foodservice Facilities April 22, 2015



Laurel Ridge MS & Edy Ridge ES

Date April 22, 2015

General conditions: The Kitchen is well maintained and in very good condition.

Walk-ins: The freezer has excessive ice build-up on the common wall at the ceiling. This is a sign of an air gap leak at the panel joints. It should be sealed as soon as possible to prevent further issues from developing. The light fixture has ice inside the lens. Seal electrical conduit as soon as possible. **Life Expectancy:** 10 Years **Estimate:** \$1,000.00

Dish Room: In good condition. Life Expectancy: 10 Years

Main Cooking Equipment: In good condition. Life Expectancy: 10 Years

Main Exhaust System: Working well. Life Expectancy: Indefinite

Fire protection system: N/A

Service Line: In general good condition. Suggest adding Stainless Steel foot and edge guards to protect wearing laminate. **Life Expectancy:** 10-15 Years. **Estimate:** \$300.00

Miscellaneous Comments: A spray real is desired in Dish Room to spray down tables. **Estimate:** \$400.00

Rough order of magnitude cost for equipment replacement: \$1,700.00



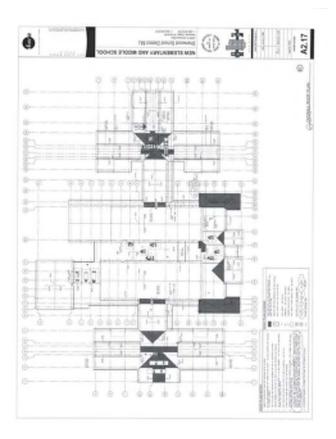


Edy Ridge Elementary School

Single Ply TPO: 618 Squares

The school was constructed in 2008-2009 and is roofed with a GAF TPO membrane system that appears to be holding up well. A few minor leaks have occurred but have been dealt with via warranty. There are minimal roof penetrations and most roof areas drain well meaning this roof should reach its full life expectancy of 25 years meaning replacement should be scheduled in approximately 19 years or approximately in 2034.

Budget for Replacement of TPO Membrane in 19 years: \$750,000.00



LAUREL RIDGE AND EDY RIDGE ROOF DIAGARM



OPEN CLEAN ROOF WITH GOOD SLOPE



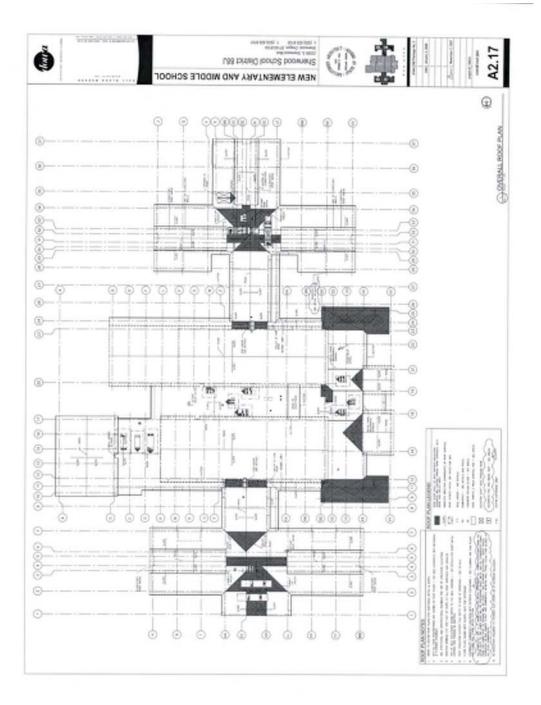


Laurel Ridge Middle School

Single Ply TPO: 703 Squares

The school was constructed in 2008-2009 and is roofed with a GAF TPO membrane system that appears to be holding up well. A few minor leaks have occurred but have been dealt with via warranty. There are minimal roof penetrations and most roof areas drain well meaning this roof should reach its full life expectancy of 25 years meaning replacement should be scheduled in approximately 19 years or approximately in 2034.

Budget for Replacement of TPO Membrane in 19 years: \$780,000.00



DOWA-IBI GROUP ARCHITECTS SHERWOOD SCHOOL DISTRICT FACILITIES PLANNING AND ASSESSMENT REPORT

LAUREL RIDGE AND EDY RIDGE ROOF DIAGARM





OPEN CLEAN ROOF WITH GOOD SLOPE

SUMMARY

The District has many roofing needs throughout the various buildings. These needs vary from immediate to longterm and from minor repairs to major projects. The following is a summary of the budgets required to make these necessary repairs or replacements arranged by timeframe required.

PROJECT	TIMELINE	COST ESTIMATE
Immediate roofing repair/replacement projects:	0-2 years:	\$ 234,000
Roofing Replacement projects:	2-5 years:	\$1,279,000
Roofing Replacement projects:	5-10 years:	\$ 412,900
Roofing Replacement projects:	10-20 years:	\$2,827,000
Long-term Roofing Replacement projects:	20 + years:	\$ 541,000
TOTAL ROOFING BUDGET REQUIREMENTS		\$5,293,900
PROFESSIONAL FEES AND PERMITS (SOFT COSTS)		\$ 688,207
CONTINGENCY (10%)		\$ 530,000
TOTAL BUDGET IMPACT		\$6,512,107

As you can see roofs comprise a very sizeable budget impact and should be budgeted both for long and short term projects to protect your facility envelopes. These projects will require approximately \$1,500,000 in the next 5 years and another \$3,200,000 in the following 15 years. These estimate are based on today's dollars and will need to be adjusted for both inflation and the volatile price of petroleum based products.

We would strongly recommend a roofing standard be adopted to minimize the large variety of systems to reduce costs for replacement and repairs, as well to ease such efforts. A standard for the various systems would be appropriate and each roof must be looked at for specific requirements for any particular system. In most districts we recommend a standard for shingles, a standard for metal roofing, as well as a standard for single ply systems. We have put together roofing educational programs for school boards before and would be happy to provide one to your District if you have an interest in learning more about these various systems, their performances, and applications.



					Sherwood School Distri		
				Elemen	tary School Capacity Study School Information		
Edy Ridge Elementary				Ca	pacity Analysis - Capacity of Current Space		
, , , , , , , , , , , , , , , , , , , ,		This analysis	reflects She		ol District's capacity methodology used in 201		
and bring class sizes within District goals.	One (1) a shared con	wever, it is antic dditional classro nmunity room (v	cipated that th com will be ne with Laurel Rie	e school boun eded to accon	dary changes in the fall will alleviate overcrowding nmodate full-day kindergarten in fall of 2015.The grade classroom due to lack of space. The school		
Design Capacity - Total Classroom	-sized Sn	aces					
Classroom-sized Spaces - Main Bldg	28			I			
Classroom-sized Spaces - Portables	0			,	acity of the building, as not every classroom-sized		
Total Classroom-sized Spaces	28				 Some classroom-sized spaces will inevitably nee as SPED, computer labs, and other programs. 		
		Building	Building				
	# K-5	Capacity -	Capacity -	% Capacity			
Capacity Overview	Students	Main Bldg	w/ portables		Notes		
Spring 2015 Enrollment	689	600	N/A	115% Capacity	The school's community room was converted to general classroom to alleviate overcrowding. No		
					portable classrooms are present at this school. Or		
Projected Fall 2015 Enrollment	551	600	N/A	92% Capacity	 additional classroom will be required to accommodate full-day kindergarten in the fall. 		
Classroom Need Summary							
	Clsrm		Total				
Classrooms	Quantity	Class size (2)	Capacity		Notes		
Current # of Classrooms in Use for General K-5 Instruction (Main Bldg)	24	25	600	Current enrollment is 689 students in 24 K-5 general classroom This includes use of a room that was designed as a communit room, but is being used as a classroom due to overcrowding.			
Current # of Portable Classrooms in Use for General K-5 Instruction	0	25	0	There are no portable classrooms at this school.			
Fotal Classrooms in Use	24	25	600				
Potentially Available Classrooms - Main Building(1)	0	25	0				
Potentially Available Classrooms - Portables (1)	0	25	0				
Total Current and Potential Classrooms - Main Bldg and Portables	24	25	600				
Current Classroom Usage		I		1			
Surrent Classicolli Osage		r	1	1			
Feaching Stations	Clsrm Quantity	Class size (2)	Capacity	Spring 2015 Enrollment	Notes		
					One additional classroom is needed to		
Kindergarten	3	25	75	103	accommodate full-day kindergarten.		
					Exceeds average class size goal. Includes a community room that is now being used as a 3rd		
1st - 5th Grade	21	25	525	586	grade classroom due to overcrowding.		
Current Unassigned Classrooms	0	N/A	N/A	0			
Special Use and Support Spaces: Classroom spaces currently used for	Clsrm Quantity				Notes		
other programs or services.					Notes		
SPED (4)	1				Room E-25		
	1				Room E-5		
Pre-K Program	0				2		
Computer Lab Music	1	<u> </u>			Room E-20		
TOTAL Support Spaces	4						
o TAL Support Spaces	4						
Canacity of Core Spaces			Max No. of				
Capacity of Core Spaces	Area in	Code (3)	Occupanta				
· · ·	Area in Sq Ft	Code (3)	Occupants	Three (3) lu	Notes nch periods will be needed in fall of 2015 (based o		
		Code (3)	Occupants				
Capacity of Core Spaces Room or Space Cafeteria	Sq Ft 3410	15	227		nch periods will be needed in fall of 2015 (based o d enrollment divided by code-allowed number of occupants),		
Room or Space	Sq Ft				nch periods will be needed in fall of 2015 (based or d enrollment divided by code-allowed number of		

(1.) Includes classrooms used for other programs or purposes (not general education). Does not include SPED, ELL, Pre-K or computer labs.

(2.) Class size is 25 students per teaching station.

(3.) The floor area in square feet per person allowed per the Building Code.

(4.) SPED students are included in the total enrollment; however, SPED classrooms are not counted for capacity purposes. Self-contained SPED classrooms have significantly lower (and widely fluctuating) class sizes. Other SPED classrooms may provide primarily pull-out services. Consequently, these classrooms are not counted toward the overall capacity of the school.

						Sherwood School District			
						ondary School Capacity Study School Information			
Laurel Ridge Middle School						Capacity Analysis - Capacity of Current Space			
Six-Period Day	_	TI	nis analysis	reflects She	erwood Sc	hool District's capacity methodology used in 2014			
Capacity Summary			Capacity Co	mments: La	urel Ridge's	enrollment is very near its capacity. It is anticipated			
# of Teaching Stations (1) (2)	23	that the school boundary changes in the fall will alleviate overcrowding and lowe							
Class Size Goal	30		sizes. School administrators are concerned that the size of core spaces (e.g. cafeteria and gym) may be insufficient to meet the needs of the current student population.						
Periods / Day	6		gym) may be	e insufficient	to meet the	needs of the current student population.			
Instructional Periods	5								
Prep Factor	0.83								
Capacity - Main Building	573								
Capacity with Portables	N/A								
Design Capacity - Total Classroor	n-sized Spa	ces							
Classroom-sized Spaces - Main Bldg	27 (7)		ot reflect the	functional ca	pacity of the	e building, as not every classroom-sized space will be			
Classroom-sized Spaces - Portables	0					ized spaces will inevitably need to be used for other			
Total Classroom-sized Spaces	27	purposes, s	uch as SPED), computer la	abs, and otl	ner programs.			
		Building	Building						
	# Students	Capacity -	Capacity -	% Capacity					
Capacity Overview		Main Bldg	w/ portables			Notes			
Capacity Overview			portables			Notes			
				97%					
Spring 2015 Enrollment	554	573	N/A	capacity					
					The schoo	l boundary adjustments will ease overcrowding at			
					Laurel Ride	ge. No portable classrooms are present at this school.			
Projected Fall 2015 Enrollment	494	573	N/A	86%					
	101	010	14/74	capacity					
Capacity Based on Potential Use	I		<u> </u>						
6th - 8th Grade (6 period day)									
		Class size	Capacity at	Prep Factor	Adjusted				
Teaching Stations General Classrooms (in use and	Quantity	(3)	100% Use	(4)	Capacity	NOTE			
available) (1)	16	30	480	0.83	398				
Current Unassigned Classrooms	0	30	0	0.83	0				
Science Labs	3	30	90	0.83	75	Rooms M-7, M-26 and M-27			
Music	1								
		30	30	0.83	25				
Art Classrooms	1	30 30	30 30	0.83	25 25	M-3 and M-4 (counted as one teaching st.)			
						M-3 and M-4 (counted as one teaching st.) "Explore" Lab (FACS)			
Electives / CTE	1	30	30	0.83	25				
Electives / CTE Gym (as P.E. CR) (2) TOTAL	1 1	30 30	30 30	0.83 0.83	25 25				
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or	1 1 1 23	30 30	30 30 30	0.83 0.83	25 25 25	"Explore" Lab (FACS)			
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or	1 1 1	30 30	30 30 30	0.83 0.83	25 25 25				
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or	1 1 1 23	30 30	30 30 30	0.83 0.83	25 25 25	"Explore" Lab (FACS)			
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs	1 1 23 Quantity 0	30 30	30 30 30	0.83 0.83	25 25 25 573	"Explore" Lab (FACS) NOTE			
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6)	1 1 23 Quantity 0 2	30 30	30 30 30	0.83 0.83	25 25 25 573	"Explore" Lab (FACS)			
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL	1 1 23 Quantity 0 2 0	30 30	30 30 30	0.83 0.83	25 25 25 573	"Explore" Lab (FACS) NOTE			
Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium	1 1 23 Quantity 0 2 0 0 0	30 30	30 30 30	0.83 0.83	25 25 25 573 Rooms	"Explore" Lab (FACS) NOTE : M-5 and M-6			
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium Computer Lab	1 1 23 Quantity 0 2 0 0 0 2	30 30	30 30 30	0.83 0.83	25 25 25 573 Rooms	"Explore" Lab (FACS) NOTE			
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium Computer Lab TOTAL	1 1 23 Quantity 0 2 0 0 0	30 30	30 30 30	0.83 0.83	25 25 25 573 Rooms	"Explore" Lab (FACS) NOTE : M-5 and M-6			
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium Computer Lab	1 1 23 Quantity 0 2 0 0 0 2	30 30	30 30 30	0.83 0.83	25 25 25 573 Rooms	"Explore" Lab (FACS) NOTE : M-5 and M-6			
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium Computer Lab TOTAL	1 1 23 Quantity 0 2 0 0 0 2	30 30	30 30 30	0.83 0.83	25 25 25 573 Rooms	"Explore" Lab (FACS) NOTE : M-5 and M-6			
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium Computer Lab TOTAL	1 1 23 Quantity 0 2 0 0 0 2	30 30	30 30 30	0.83 0.83	25 25 25 573 Rooms	"Explore" Lab (FACS) NOTE : M-5 and M-6			
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium Computer Lab TOTAL Capacity of Core Spaces	1 1 23 Quantity 0 2 0 0 2 4	30 30 30	30 30 30 690	0.83 0.83 0.83	25 25 25 573 Rooms	"Explore" Lab (FACS) NOTE M-5 and M-6 M-1 and M-20 NOTE			
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium Computer Lab TOTAL Capacity of Core Spaces Core Facility	1 1 23 Quantity 0 2 0 0 2 4 Square Feet	30 30 30 Code (5)	30 30 690 Capacity	0.83 0.83 0.83	25 25 25 573 Rooms	"Explore" Lab (FACS) NOTE M-5 and M-6 M-1 and M-20 NOTE ds will be needed in fall of 2015 (based on projected			
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium Computer Lab TOTAL Capacity of Core Spaces Core Facility Cafeteria	1 1 23 Quantity 0 2 0 0 2 4 Square Feet 4,183	30 30 30 Code (5)	30 30 690 Capacity 279	0.83 0.83 0.83	25 25 25 573 Rooms	"Explore" Lab (FACS) NOTE M-5 and M-6 NOTE NOTE ds will be needed in fall of 2015 (based on projected vided by code-allowed number of occupants),			
Electives / CTE Gym (as P.E. CR) (2) TOTAL Special Use: CRs spaces for support or pullout programs Classrooms used for other purposes or programs SPED (6) ELL Auditorium Computer Lab TOTAL Capacity of Core Spaces Core Facility	1 1 23 Quantity 0 2 0 0 2 4 Square Feet	30 30 30 Code (5)	30 30 690 Capacity	0.83 0.83 0.83	25 25 25 573 Rooms	"Explore" Lab (FACS) NOTE M-5 and M-6 M-1 and M-20 NOTE ds will be needed in fall of 2015 (based on projected			

Notes:

(1.) For general instruction not requiring a specialized classroom.

(2.) The Gym is counted as a teaching station.

(3.) The District's class size goal for middle school grades is 30 students per class.

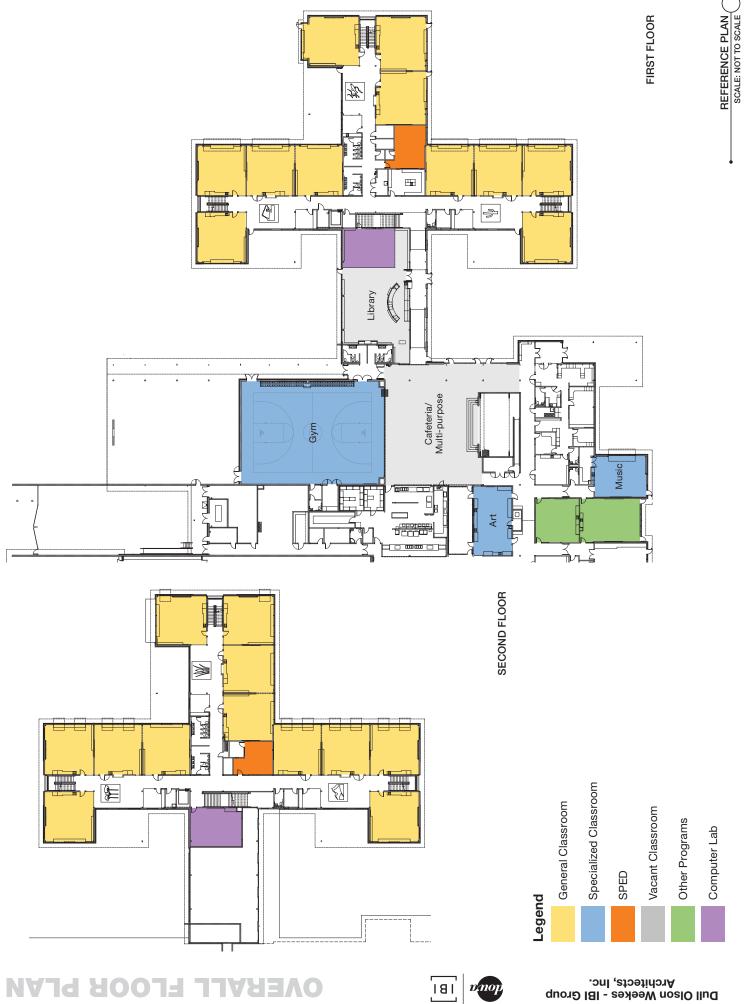
(4.) A prep factor has been calculated in order to take into account that classrooms are scheduled all but one period per day.

(5.) The area per person allowed in such occupancy type space per the Building Code.

(6.) SPED students are included in the total enrollment; however, SPED classrooms are not counted for capacity purposes. Self-contained SPED classrooms have significantly lower (and widely fluctuating) class sizes. Other SPED classrooms may provide primarily pull-out services. Consequently, these classrooms are not counted toward the overall capacity of the school.

EDY RIDGE

Current				
Main Building	Classrooms	Avg. Class	Utilization	Students
General Ed	23	25	1	575
Science	0	25	1	
Extended Learning Spaces	6	25	1	
Team Rooms	6	12	1	
Sped	2	8 to 15	1	
OT/PT (LRMS is using)	1	25	0	
Art Room - Share LRMS	1	32	0	
PE	1	25	1	
Music	1	25	1	
Computer Lab	2	25	1	
		Current Maxin	num Capacity	575
	E	nrollment as c	of 12/30/2015	538



Edy Ridge Elementary School | Sherwood School District

January 2016

Laurel Ridge MS

Current				
Main Building	Classrooms	Avg. Class	Utilization	Students
General Ed	17	30	0.83	425
Science	3	30	0.83	75
SPED - Intervention	2	10	0.83	17
Band/Choir	1	40	0.83	33
FACS	1	36	0.83	30
PE / Athletics	1	40	1.00	40
Computer Lab	2	36	0.00	(
OT/PT Room	1	25	0.00	C
		Maxin	num Capacity	620
Other Programs	Classrooms	Avg. Class	Utilization	Students
#Capacity Adjustment				-70
		Capac	ity Reduction	-70
		Total Availa	able Capacity	550
		nrollment as o	of 12/30/2015	499
otes:				

utilization of health, Spanish, band and FACS classes at less than .83 due to scale; Capacity of 620 not operational.



Laurel Ridge Middle School | Sherwood School District

REFERENCE PLAN SCALE: NOT TO SCALE



Dull Olson Weekes - IBI Group Architects, Inc.