



Chinook's Edge School Division Capital Plan 2018-2021

Ranking	Project ID	Project	Key Drivers	<i>In 1999, Alberta Infrastructure audited all schools for condition and awarded them a score to assist them in prioritizing condition.</i>
Annually applied for	11454	Olds Koinonia School Lease Support	Lease Support	Olds Koinonia School (private) has come under Chinook's Edge as an alternate program and we are applying for lease support. 3873 @ \$70.60 m ² x 1.6% \$4,374.94 = \$277,808.74
# 1	1219	Carstairs Elementary School Addition	Demographics Economic Growth	250 student classroom addition and expansion of existing gym for Carstairs Elementary School
# 2	12720	Jessie Duncan Elementary School Addition	Demographics Economic Growth	With the growth in Penhold, Jessie Duncan would require additional capacity of four classrooms based on enrolment pressures.
# 3	13151	École HJ Cody School Modernization	Demographics, Program Changes, Economic Growth	With the growth in Sylvan Lake, pressure is expected at the high school level. École HJ Cody wasn't originally designed as a high school (K-12) and modernization is required to support Inspiring Education. The modernization would accommodate projected growth increases and required program offerings. This school is now fed by three elementary schools into one middle school into the high school.
# 4	13506	École Olds Elementary School Modernization	Demographics Economic Growth	An expansion / modernization of École Olds Elementary School of five or six classrooms, one classroom per grade, based on utilization.
# 5	13700	Penhold Elementary School	Health and Safety Program Growth	A 500 capacity replacement school is requested.
# 6	13505	Carstairs New Elementary School	Demographics Economic Growth	New 500 capacity grades Pre K - 4 school. <i>The original request was for a 350 capacity grade 3-5 school.</i>

Additional background information on each of the requests and long term planning for those communities is presented below.

Town of Carstairs – Carstairs Elementary Expansion and New Schools

The Town of Carstairs has experienced major growth over the past several years. The community has consistently seen over 50 residential building permits each year for the past 5 years. The population of Carstairs has increased by 18.4% to 4077 based on 2016 census data as compared to 2011 census data.

Chinook’s Edge School Division has two schools in the Town of Carstairs. Carstairs Elementary with a K-2 school configuration and Hugh Sutherland School with a 3-12 grade configuration. Carstairs Elementary was opened as a K-4 school. However, to increase utilization rates in the Town of Carstairs and to accommodate the space needed for the grade levels at Carstairs Elementary, the school was reconfigured to a K-2 school. In September of 2013 the grade 4 students were relocated to Hugh Sutherland School and in September of 2015 the grade 3 students were relocated to Hugh Sutherland School. Chinook’s Edge School Division has used IMR funds to repurpose space at Hugh Sutherland to accommodate the increasing student enrollment at Hugh Sutherland. Chinook’s Edge School Division believes we have reached the point where additional space is needed immediately to address the lack of instructional space and the high utilization rates in the Town of Carstairs.

10 year enrollment numbers are provided below along with utilization rates for each school over the 10 year period.

Grade	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	24-25
K	101	90	97	95	96	97	98	99	100	101	102
1	91	96	95	88	96	98	99	100	101	102	103
2	81	86	105	98	90	98	100	101	102	103	104
3	68	77	87	109	100	92	100	102	103	104	105
4	70	63	81	91	111	102	94	102	104	105	106
5	50	69	69	88	93	113	104	96	104	106	107
6	69	49	73	73	89	95	115	106	98	106	108
7	65	69	47	76	76	91	97	117	108	100	108
8	57	66	70	51	76	78	93	99	119	110	102
9	52	55	66	68	51	78	80	95	101	121	112
10	45	52	58	67	69	53	80	82	97	103	123
11	51	48	49	61	71	71	55	82	84	99	105
12	47	47	51	53	62	73	73	57	84	86	101
K-12 Total	847	867	948	1018	1080	1139	1188	1238	1305	1346	1386
Utilization Rate	83%	85%	92%	96%	102%	107%	111%	116%	122%	125%	129%

Immediate Need – Phase 1

CESD is in immediate need of additional classroom space for Carstairs Elementary. An addition of 10 classrooms spaces and an expansion / addition to the Carstairs Elementary gym are needed to address the immediate utilization concerns in the Town of Carstairs. CESD recognizes the importance of this immediate need and have place it as the number one priority on the 2018/2021 Capital Plan. Based on current conservative growth plans illustrated in the chart above this would lower the utilization rate in

the Town of Carstairs to 105% in 2024/2025. This would allow the grade configurations to change to K-4 at Carstairs Elementary and 5-12 at Hugh Sutherland School.



Phase 2

As the chart indicates above, the projected conservative growth rate will still see the unitization rate in Carstairs at 107% by 2024/2025. A new 500 capacity school will be needed in Carstairs prior to the 2024/2025 school year. The long term plan is to have this as a second K-4 school. However, if the numbers are needed Carstairs Elementary and the new school could become K-6 schools to reduce the utilization pressures at Hugh Sutherland School. CESD currently has this listed as #6 on the 2018/2021 Capital Plan.

Phase 3

With the continued growth in the Town of Carstairs an additional 500 capacity new high school will be needed. The current Hugh Sutherland School would transition to a 5-8 middle school and the new high school would have a grade 9-12 configuration. Based on current projections, CESD believes the need for the new high school will be on or before the 2027/2028 school year. This is not yet listed on the CESD Capital Plan but will become an increasing priority over the next several years.



Town of Penhold – Jessie Duncan School Expansion and Replacement School

The Town of Penhold has experienced major growth over the past several years. The community has consistently seen a high number of residential building permits each year for the past 5 years. The population of Penhold has increased by 32% to 3277 based on 2016 census data as compared to 2011 census data.

Chinook's Edge School Division currently has three schools within the Town of Penhold: Jessie Duncan School (K-2), Penhold Elementary School (3-5) and Penhold Crossing Secondary School (6-12). Over the past couple of years Chinook's Edge School Division has reconfigured the grade levels in the schools to fully utilize the capacity of the schools within the Town of Penhold. This has seen grade configurations changes at Jessie Duncan from a K-3 to a K-1, Penhold Elementary from a 4-9 to a 2-5 and Penhold Crossing to a 6-12. These changes were made to avoid the need to apply for relocatable classrooms and additional capital projects within the Town of Penhold. However, with the continued growth in the Town of Penhold, CESD was awarded 4 relocatables for the 2017-2018 school year which now has the school grade configurations as Jessie Duncan K-2, Penhold Elementary 3-5 and Penhold Crossing 6-12. The current utilization rates are as follows: Jessie Duncan 95%, Penhold Elementary 94% and Penhold Crossing 97%. The total utilization rate for the three schools in the community is 95%. However, because of the low number of grade 12 students leaving the school and the much higher numbers at the lower grades replacing these graduating students the community utilization rate will be at 104% at the start of the 18-19 school year.

Immediate Need – Phase 1

CESD appreciates that it would make the most sense to Alberta Infrastructure that we apply for relocatable classrooms for Penhold Crossing given that its utilization rate is the highest at 97%. Jessie Duncan was constructed with core infrastructure like a gymnasium to accommodate expansion. Adding relocatable classrooms to Jessie Duncan would allow Chinook's Edge School Division to avoid making a capital request for a larger gymnasium and library at Penhold Elementary or Penhold Crossing. In addition, Penhold Crossing was constructed with relocatable classrooms on it and there is no space on the site for additional relocatable classrooms because of the connected to the Penhold Multiplex. Space concerns within the Town of Penhold would be addressed by the addition of these 4 relocatable classrooms. Adding the relocatable classrooms to Jessie Duncan Elementary would allow Chinook's Edge School Division to reconfigure the schools back to K-3, 4-6 and 7-12 at the three schools which was the configuration prior to the need to make changes due to enrollment.

CESD's goal is to add one grade level back to Jessie Duncan which would require 4 additional classroom spaces.



Enrollment numbers and projections along with charts illustrating how the addition of one grade level impact the utilization rates at all the schools within the Town of Penhold have been included. This would leave us space at Penhold Crossing that will see a steady increase in utilization rates for the next several years as the larger numbers enter the school and the lower numbers graduate.

Enrollment Data

Enrollment Data Based on Current Community Capacity Based on Adjusted Enrollments

Year	Pre-K	K	1	2	3	4	5	6	7	8	9	10	11	12	Total	Utilization %
15-16	20	64	71	56	68	68	58	40	69	48	50	34	35	23	704	101%
16-17	21	83	65	73	59	74	70	62	41	70	52	43	27	32	772	109%
17-18	19	78	74	65	68	58	71	68	57	41	53	46	36	29	763	95%
18-19	20	80	80	76	67	70	60	73	70	59	43	55	48	38	839	104%
19-20	20	81	82	82	76	69	72	62	75	72	61	45	57	50	904	112%

Capacity Data If 4 Relocatable Classrooms were approved and Jessie Duncan became K-3, Penhold Elementary became 4-6 and Penhold Crossing became 7-12 - Based on adjusted enrollment numbers.

Jessie Duncan	15-16	16-17	17-18	18-19	19-20
Pre K	20	21	19	20	20
K	64	83	78	80	81
Grade 1	71	65	74	80	82
Grade 2			65	76	82
Grade 3				67	78
Utilize %	90%	103%	95%	92%	98%

Penhold Elementary	15-16	16-17	17-18	18-19	19-20
Grade 2	56	73			
Grade 3	68	59	68		
Grade 4	68	74	58	70	69
Grade 5	58	70	71	60	72
Grade 6				73	62
Utilize %	121%	134%	93.5%	96%	96%

Penhold Crossing	15-16	16-17	17-18	18-19	19-20
Grade 6	40	62	68		
Grade 7	69	41	57	70	75
Grade 8	48	70	41	59	72
Grade 9	50	52	53	43	61
Grade 10	34	43	46	55	45
Grade 11	35	27	36	48	57
Grade 12	23	32	29	38	50
Utilize %	99%	108%	97%	92%	105%

- With the addition of the requested 4 relocatable classrooms CESD projects that the Penhold Community would be at 100% utilization rate in 2019-2020 as a result of 38 grade 12 students leaving the school and 75 grade 7 students entering the school.

Phase 2

As the population in the Town of Penhold continues to grow and the utilization continues to increase. There will be a need for additional classroom space. There is no room for adding additional classroom spaces to the existing three schools. Penhold Elementary School is in need of a complete renovation. Penhold Elementary School was constructed in 1961 and only has the capacity for 230 students. CESD has listed a 500 student capacity replacement school for Penhold Elementary as # 5 on the 2018-2021 Capital Plan. Once the replacement school is constructed the existing Penhold Elementary would be demolished or sold. The replacement school would increase the capacity of the schools by 270 students which would address the utilization needs and the need to renovate the existing Penhold Elementary building.



Town Of Sylvan Lake – École H.J. Cody Modernization

The Town of Sylvan Lake is one of the fastest growing towns in Alberta. Over the past number of years grade configurations changes, relocatable additions to C.P. Blakely and a new K-6 school have been needed to address the growth in Sylvan Lake. École H.J. Cody School is the only high school in the Town of Sylvan Lake and is in need of a complete modernization. Minor renovations occurred in 1997 but the original building was constructed in 1957. CESD recognizes the need for a complete modernization of École H.J. Cody school to bring the only high school in a town of over 15,000 people to a level appropriate for high school education in Alberta today. The enrollment projections below are based on the current enrollment of the feeder schools for École H.J. Cody School.

Year	9	10	11	12	Total	Utilization Rate
15-16	170	174	170	172	686	87%
16-17	155	160	162	174	651	83%
17-18	171	145	152	168	636	82%
18-19	176	172	148	159	655	84%
19-20	203	179	175	151	708	90%
20-21	131	206	182	178	697	89%
21-22	164	134	209	185	692	88%
22-23	185	167	137	212	701	89%
23-24	176	188	170	140	674	86%
24-25	168	179	191	173	711	90%



Through the lens of student learning, why is modernization needed at École H.J. Cody?

- The lack of facility at the school, in specific areas, is impeding the educational quality of our students. With having nearly 100 students in a Phys Ed block, there cannot be adequate space to design learning and lessons. Further, when the climate of Sylvan Lake has undesirable conditions outside for several months of the year, there is not a reasonable ability to have physical education outside for many months.
- Modernization would allow for the creating and building of space that reflects the needs of our students. A further gym, workout area, classroom and break out space, all would contribute to a better environment.
- There are few spaces for students to work independently or in small groups, and with our high school redesign plans to increase student responsibility and ownership, it is impossible to do so without spaces that support this philosophy... for example, it would make sense to re-structure the spaces in the learning commons.
- Larger class sizes could be better accommodated with larger functional classroom spaces.
- More whiteboard space for student to be able to brainstorm in groups and better present findings
- Alternative lighting through light fixtures with multiple settings or more adjustable screens/window coverings - can adjust brightness for students when needed - often extremes of too much blinding artificial light or darkness.
- Added flexible learning areas.
- Many classrooms and hallways were originally designed for elementary sizes and are too crowded for 30 plus to learn. Additional space must be considered for our growing population.
- In times of extreme heat or cold, the building does not compensate to the appropriate temperature. As a result, learning is affected.
- There are no breakout spaces or variety of spaces to enhance student learning.

Through the lens of the physical building, why is modernization needed at École H.J. Cody?

- This building has been built in phases over 60 years. These phases have not been considerate of the expanding population of Sylvan Lake or the unique functionality of a high school population.
- Without an adequate shop, lab space, gym space, wellness areas or classroom space to accommodate the growing class sizes we are facing each day.
- In order to remain competitive and a positive part of the ever expanding community, we need to move towards learning areas that allow for further creativity.
- We need to create spaces that are sufficient to serve the needs of a growing community in the decades to come.
- Thin wooden walls between rooms makes sound travel very easily.
- Larger hallways for better movement throughout school, especially if crowded during an emergency.
- Lack of sufficient washroom facilities for staff.
- Temperature control in gymnasium is non-existent, as well as in some classrooms.
- Electrical system is insufficient for demand of projectors operating, lab equipment in use, chromebook carts charging, etc. (breakers have blown).
- Storage spaces in the school (drama, janitors, stairwell, phys.ed., shop, etc.) are make-shift and potentially unsanitary and dysfunctional.
- Classrooms do not match students' size (because this school began as a k-12 school, many elementary size rooms are now being used for high school students).
- Not sufficient science lab space given number of students that access these courses.
- There are blocks in the day where 100 students are in the gym for phys. ed class. That number of students is far too many for the current space.
- Bigger Lockers so that kids can easily keep all of their books and learning items at school.
- The school has one hallway, there are no alternative routes to get to the other side of the school. For example, to get to the drama room from home ec, the only choice is up the senior hallway, through the common area and up the junior hallway.
- The band room is very small. The ceiling is below a standard consideration. The space cannot hold the whole band comfortably. Storage is very limited and underdeveloped.
- A larger cafeteria style eating area is needed.

Town of Olds – École Olds Elementary Modernization and Expansion

The Town of Olds continues to see steady population growth. The population has increased by 11.5% to 9184 since the 2011 Census. With the continued growth, CESD is in need of additional classroom space in École Olds Elementary School. École Olds Elementary School was constructed in 1960 and is also in need of a complete modernization. CESD has listed the renovation and addition of 6 classroom spaces of #4 on the 2018/2021 Capital Plan. The current and project enrollment and utilization rates are provided as support for this request.

Year	Pre-K	K	1	2	3	4	Total	Utilization Rate
15-16	35	80	101	128	106	92	542	101%
16-17	33	112	91	106	127	103	572	104%
17-18	30	104	116	89	107	126	572	104%
18-19	29	107	108	115	90	111	559	102%
19-20	30	108	109	110	117	92	556	103%
20-21	31	109	110	111	112	119	592	108%
21-22	32	110	111	112	113	114	592	108%
22-23	33	111	112	113	114	115	598	109%
23-24	34	112	113	114	115	116	604	109%
24-25	35	113	114	115	116	117	610	110%

