

School Facility Evaluation Project
Part III - Space Adequacy

	School Name:		MOUNT ROYAL JR. HIGH		School Code:	9639
	Location:		2234 14 ST. S.W.		Facility Code:	1621
	Region:		CALGARY SOUTH		Superintendent:	DR. DONNA MICHAELS
	Jurisdiction:		CALGARY SCHOOL DISTRICT #19		Contact Person:	LEANNE SOLIGO
					Telephone:	(403) 214-1123
	Grades:		7-9		School Capacity:	390
Building Section	Year of Compl.	No. of Floors	Gross Bldg Area (Sq.M.)	Type of Construction (i.e., structure, roof, cladding)	Description of Mechanical Systems (incl. major upgrades)	Comments/Notes
Original Building	1952	1	482.1	Masonry, flat roof, brick exterior	Perimeter hot water heating with central low velocity ventilation.	
Additions/ Expansions	1966	2	3742.9	Masonry, flat roof, brick exterior	See above	
Total:			4225.1			
					Evaluator's Name:	NORMAN DOBELL
					& Company:	NORMAN DOBELL & ASSOC. ARCH.

Upgrading/ Modernization (identify whether minor or major)	N/A					
Portable Struct. (identify whether attached/perman. or free-standing/ relocatable)	N/A					
List of Reports/ Supplementary Information	Facility Asbestos Report					

School Facility Evaluation Project
Part III - Space Adequacy

	Evaluation Components	Summary Assessment			Estim. Cost
1	Site Conditions	Regrade and resurface parking area due to ponding			\$10,800
2	Building Exterior	N/A			\$30,000
3	Building Interior	N/A			\$144,100
4	Mechanical Systems	While systems are generally in good working order, base equipment is 35 years old and past life expectancy.			\$560,000
5	Electrical Systems	Install surge protection on the electrical system. Install more receptacles in the corridors. Retrofit lighting throughout to improve colour rendition and efficiency.			\$145,000
6	Portable Buildings	N/A			\$0
7	Space Adequacy:				
	7.1 Classrooms	Deficient	-10		
	7.2 Science Rooms/Labs	Deficient	-17		
	7.3 Ancillary Areas	Excessive	26		
	7.4 Gymnasium	Deficient	-259		
	7.5 Library/Resource Areas	Excessive	39		
	7.6 Administration/Staff Areas	Deficient	-259		
	7.7 CTS Areas	Deficient	-124		
	7.8 Other Non-Instructional Areas (incl. gross-up)	Deficient	-75		
	Overall School Conditions & Estim. Costs	Deficient	-689		\$889,900

Section 1	Site Conditions	Rating	Comments/Concerns	Estim. Cost
1.1	General Site Conditions			
1.1.1	Overall site size.	4	Adequate	
1.1.2	Outdoor athletic areas.	4	Playfields	
1.1.3	Outdoor playground areas, including condition of equipment and base.	4	Equipment in good condition	
1.1.4	Site landscaping.	4	Front yard landscaped	
1.1.5	Site accessories (i.e., perimeter and other fencing, guard rails, bike stands, flag poles).	4	Good condition	
1.1.6	Surface drainage conditions (i.e., drains away from building, signs of ponding).	4	No apparent problems	
1.1.7	Evidence of sub-soil problems.	4	No evidence	
1.1.8	Safety and security concerns due to site conditions.	4	None	
Other				

Section 1	Site Conditions	Rating	Comments/Concerns	Estim. Cost
1.2	Access/Drop-Off Areas/Roadways/Bus			
1.2.1	Vehicular and pedestrian access points (i.e., size, number, visibility, safety).	4	City streets, one access roadway - adequate	
1.2.2	Surfacing of on-site road network (note whether asphalt or gravel).	4	Asphalt	
1.2.3	Bus lanes/drop-off areas (note whether on-site or off-site).	4	City streets	
1.2.4	Fire vehicle access.	4	Good access from city streets	
1.2.5	Signage.	4	School signed at front	
Other				

Section 1	Site Conditions	Rating	Comments/Concerns	Estim. Cost
1.3	Parking Lots and Sidewalks			
1.3.1	Number of parking spaces for staff, students and visitors (including stalls for disabled persons).	4	Sufficient parking for staff; two handicap stalls; visitor parking on street	
1.3.2	Layout and safety of parking lots.	4	Adequate	
1.3.3	Surfacing and drainage of parking lots (note whether asphalt or gravel).	3	Asphalt has some pooling areas - repave and level	\$10,800
1.3.4	Layout and safety of sidewalks.	4	Adequate	
1.3.5	Surfacing and drainage of sidewalks (note type of material).	4	Concrete - drainage good	
1.3.6	Curb cuts and ramps for barrier free access.	4	As required	
Other				
	Overall Site Conditions & Estimated Costs			\$10,800

Section 2	Building Exterior	Rating	Comments/Concerns		Estim. Cost
2.1	Overall Structure		Bldg. Section	Description/Condition	
2.1.1	Floor structure and beams (i.e., signs of bending, cracking, heaving, settlement, voids, rust, stains).	4		None apparent	
2.1.2	Wall structure and columns (i.e., signs of bending, cracking, settlement, voids, rust, stains).	4		None apparent	
2.1.3	Roof structure (i.e., signs of bending, cracking, voids, rust, stains).	5		Building re-roofed in 1998	
Other					

Section 2	Building Exterior	Rating	Comments/Concerns		Estim. Cost
2.2	Roofing and Skylights <i>Identify the availability of an up-to-date inspection report or roofing program. Note if roof sections are of different ages and/or in varying states of repair.</i>		Bldg. Section or Roof Section	Description/Condition/Age	
2.2.1	Based on the inspection report (and to the extent possible, direct observation), assess and rate roof conditions and estimate costs for required improvements (i.e., covering materials, membrane, insulation, other components).	4		Roof was replaced in 1998 - good condition	
2.2.2	Roof accessories (i.e., ladders, stairs, hatches, masts, exhaust hoods, chimneys, gutters, downspouts, splashpads).	4		Good condition	
2.2.3	Control of ice and snow falling from roof.	4		Flat roof - no problems	
2.2.4	Skylights (i.e., signs of distress, leaks, ice build-up, condensation, deteriorated materials/seals).	N/A			
Other					

Section 2	Building Exterior	Rating	Comments/Concerns		Estim. Cost
2.3	Exterior Walls/Building Envelope		Bldg. Section	Description/Condition	
2.3.1	Exterior wall finishes (i.e., signs of deterioration, cracks, brick spalling, effluorescence, water stains).	4		Masonry - good repair	
2.3.2	Fascias, soffits, parapets (i.e., signs of looseness, stains, rust, peeling paint).	4		Good repair	
2.3.3	Building envelope (i.e., evidence of air infiltration/ exfiltration through the exterior wall or ice build up on wall, eaves, canopy).	4		No damage evident	
2.3.4	Interface of roof drainage and ground drainage systems.	4		Internal roof drainage to municipal system	
2.3.5	Inside faces of exterior walls (i.e., signs of cracks, water stains, dust spots).	4		No evidence of problems	
Other		3		Allowance for renovations for boiler replacement	\$10,000

Section 2	Building Exterior	Rating	Comments/Concerns		Estim. Cost
2.4	Exterior Doors and Windows		Bldg. Section	Description/Condition	
2.4.1	Doors (i.e., signs of deterioration, rusting metal, glass cracks, peeling paint,	3		Original - replace doors and hardware	\$20,000
2.4.2	Door accessories (i.e., latches, hardware, screens, locks, alarms, holders, closers, security devices)	3		See 2.4.1	
2.4.3	Exit door hardware (i.e., safety and/or code concerns).	3		See 2.4.1	
2.4.4	Windows (i.e., signs of deterioration, rusting metal, glass cracks, peeling paint, damaged seals, sealed unit failure).	4		Aluminum frames - appear satisfactory	
2.4.5	Window accessories (i.e., latches, hardware, screens, locks, alarms, holders, closers, security devices).	4		Appear adequate	
2.4.6	Building envelope (i.e., signs of heavy condensation on doors or windows).	4		None noted	
Other					
	Overall Bldg Exterior Condition & Estim Costs				\$30,000

Section 3	Building Interior - Overall Conditions	Rating	Comments/Concerns		Estim. Cost
3.1	Interior Structure		Bldg. Section	Description/Condition	
	3.1.1 Interior walls and partitions (i.e., signs of cracks, spalling, paint peeling).	4		No apparent problems	
	3.1.2 Floors (i.e., signs of cracks, heaving, settlement).	4		No apparent problems	
	Other				
3.2	Materials and Finishes		Bldg. Section	Description/Condition	
	3.2.1 Floor materials and finishes.	4		Battleship linoleum; 12/12 vinyl tile - all satisfactory	
	3.2.2 Wall materials and finishes.	4		Drywall painted	
	3.2.3 Ceiling materials and finishes.	4		Lay-in acoustic tile	

Section 3	Building Interior - Overall Conditions	Rating	Comments/Concerns		Estim. Cost
3.2	Materials and Finishes (cont'd)		Bldg. Section	Description/Condition	
	3.2.4 Interior doors and hardware.	4		Condition adequate -- Note: fire doors missing in two locations to be rehung	
	3.2.5 Millwork	3		Original - replace in classrooms	\$29,100
	3.2.6 Fixed/wall mounted equipment (i.e., writing boards, tackboards, display boards, signs).	3		Blackboards - replace with whiteboards; tackboards satisfactory	\$20,000
	3.2.7 Any other fixed/mounted specialty items (i.e., CTS equipment, gymnasium equipment).	4		Equipment in good condition	
	3.2.8 Washroom materials and finishes.	4		Floors - ceramic tile; walls - drywall painted; ceiling - 12/12 acoustic tile	
	Other				

Section 3	Building Interior - Overall Conditions	Rating	Comments/Concerns		Estim. Cost
3.3	Health and Safety Concerns --- Intent is to identify renovations considered necessary to meet applicable codes, primarily due to safety concerns. Basis of evaluation should be an up-to-date inspection report from the authority having jurisdiction together with direct observations as appropriate. Evaluator should note if in his opinion a comprehensive code evaluation is required. 3.3.1 Building construction type - combustible or non-combustible, sprinklered or non-sprinklered. 3.3.2 Fire separations (i.e., between buildings, wings, zones if non-sprinklered). 3.3.3 Fire resistance rating of materials (i.e., corridor walls and doors). 3.3.4 Exiting distances and access to exits. 3.3.5 Barrier-free access. 3.3.6 Availability of hazardous materials audit (i.e., evidence of safety concerns with respect to asbestos, PCB's, chemicals). 3.3.7 Other health and safety concerns (i.e., evidence of excessive noise conditions, air quality problems) Other		Bldg. Sectio	Description/Condition	
		4		Non-combustible, non-sprinklered	
		4		Appear compliant	
		4		Appear compliant	
		4		Appear compliant	
		3		Elevator and two handicap washrooms required.	\$95,000
		FI		See Owner's Report	
		4		None apparent	
	Overall Bldg Interior Condition & Estim Costs				\$144,100

Section 4	Mechanical Systems	Rating	Comments/Concerns		Estim. Cost
4.1	Mechanical Site Services				
	4.1.1 Site drainage systems (i.e., surface and underground systems, catch basins).	4		Catch basins to city storm.	
	4.1.2 Exterior plumbing systems (i.e., irrigation systems, hose bibs).	4		Irrigation system in for inner grassed areas. Non-freeze hose bibs around the complex.	
	4.1.3 Outside storage tanks.	N/A			
	Other				
4.2	Fire Suppression Systems		Bldg. Section	Description/Condition	
	4.2.1 Fire hydrants and siamese connections.	4		Fire hydrant in front of school. No siamese connection.	
	4.2.2 Fire suppression systems (i.e., pumps, sprinklers, piping, reservoirs, hoses, stand pipes, CO2 systems).	4		No sprinklers/ fire hose cabinet inside front door, also hallways.	
	4.2.3 Hand extinguishers, blankets and showers (i.e., in CTS areas).	2		Water hand extinguishers in cabinets through out complex. Should be replaced with type ABC.	\$5,000
	4.2.4 Other special situations (e.g., flammable storage areas, science labs, CTS areas).	N/A			
	Other				

Section 4	Mechanical Systems	Rating	Comments/Concerns		Estim. Cost
4.3	Water Supply and Plumbing Systems		Bldg. Section	Description/Condition	
4.3.1	Domestic water supply (i.e., pressure, volume, quality - note whether municipal or well supply).	4		2 1/2" domestic water supply from City.	
4.3.2	Water treatment system(s).	N/A			
4.3.3	Pumps and valves (including backflow prevention valves).	3		No backflow device.	\$5,000
4.3.4	Piping and fittings.	4		Copper.	
4.3.5	Plumbing fixtures (i.e., toilets, urinals, sinks)	3		Water closet, urinals and basins are old. Water closet flushometer. Urinals flush tanks.	\$10,000
4.3.6	Domestic hot water system (i.e., heater, storage tanks, failure alarms, pressure, volume, recirculation).	3		Rudd 560 hot water boiler. 460,000 BTU 386 gal/hr. c/w necessary safety controls, old and should be replaced. Separate storage tank (state) 119gal, good condition.	\$10,000
4.3.7	Sanitary and storm sewers, including sumps and pits (note whether sewage system is municipal or septic).	4		Sanitary and storm drains to City system.	
Other		4		Boiler room has one sanitary sump single pump, one weeping tile sump single pump to storm line. Additional weeping tile sump outside boiler room single pump to storm.	

Section 4	Mechanical Systems	Rating	Comments/Concerns		Estim. Cost
4.4	Heating Systems		Bldg. Section	Description/Condition	
4.4.1	Heating capacity and reliability (including backup capacity).	3		Two peerless hot water boilers Model 210-17-W 3,360,000 Btu each. Ser. 210-2467 & 210-2466 c/w 3 Stork circulating pumps.	\$190,000
4.4.2	Heating controls (including use of current energy management technology).	3		Pneumatic. Single air compressor c/w air dryer. Systems are old. (See 4.7.1)	
4.4.3	Fresh air for combustion and condition of the combustion chimney.	4		Combustion air c/w fan & recirc. Damper. Pressure relief from boiler room.	
4.4.4	Treatment of water used in heating systems.	4		Pot feeder Dearborn chemical.	
4.4.5	Low water cutoff/pressure relief valves and failure alarms (i.e., hot water heating).	4		Low water cut-off and other safety devices. Acceptable.	
4.4.6	Heating air filtration systems and filters.	3		See 4.5.1	
4.4.7	Heating humidification systems and components.	3		See 4.5.1	

Section 4	Mechanical Systems	Rating	Comments/Concerns		Estim. Cost
4.4	Heating Systems (cont'd)		Bldg. Section	Description/Condition	
4.4.8	Heating distribution systems (i.e., piping, ductwork) and associated components	3		Black iron piping. To convectors in classrooms and throughout. Reheat coils are mixed air plenum. (See 4.4.1)	
4.4.9	Heating piping, valve and/or duct insulation.	4		Piping is old, insulation looks good but is old. Asbestos has been removed.	
4.4.10	Heat exchangers.	N/A			
4.4.11	Heating mixing boxes, dampers and linkages.	N/A		See ventilation.	
4.4.12	Heating distribution/circulation in larger spaces (i.e., user comfort, temperature of outside wall surfaces).	3		Convector heaters on outside walls. (See 4.5.1)	
4.4.13	Zone/unit heaters and controls.	3		Entrance has forced flow units. (See 4.5.1)	
Other					

Section 4	Mechanical Systems	Rating	Comments/Concerns		Estim. Cost
4.5	Ventilation Systems		Bldg. Section	Description/Condition	
	4.5.1 Air handling units capacity and condition.	3		Gym has its own system. Built up supply plenum c/w heating coil, outside and relief air also CHICAGO inline return fan. Main and second floor has one CHICAGO main R/A fan - outside & relief air. Fan room becomes R/A plenum. Swamp cooler is the supply fan. Units are old.	\$210,000
	4.5.2 Outside air for the occupant load (if possible, reference CFM/occupant).	3		Outside air appears to be sufficient but units are old. (See 4.5.1)	
	4.5.3 Air distribution system (if possible, reference number of air changes/hour).	3		See 4.5.1	
	4.5.4 Exhaust systems capacity and condition.	4		Good.	
	4.5.5 Separation of out flow from air intakes	4		Good.	
	4.5.6 Special/dedicated ventilation and/or exhaust systems (i.e., kitchen, labs, CTS areas).	4		Shop has dust collector system for all units. Two small exhaust hoods for welding. Paint room has its own exhaust hood system.	
Other					

Section 4	Mechanical Systems	Rating	Comments/Concerns		Estim. Cost
4.5	Ventilation Systems (cont'd)		Bldg. Section	Description/Condition	
	<i>Note: Only complete the following items if there are separate ventilation and</i>				
	4.5.7 Ventilation controls (including use of current energy management technology).	3		Pneumatic, with some D.D.C. control. (See 4.7.1)	
	4.5.8 Air filtration systems and filters.	4		Filters are low efficiency type.	
	4.5.9 Humidification system and components.	3		Swamp cooler sytem serves as supply fan, filter media has some cooling and humidification. See ventilation. (See 4.5.1)	
	4.5.10 Heat exchangers.	N/A			
	4.5.11 Ventilation distribution system and components (i.e., ductwork, diffusers, mixing boxes, dampers, linkages).	3		Ductwork and inulation are old. (See 4.5.1)	
	Other				

Section 4	Mechanical Systems	Rating	Comments/Concerns		Estim. Cost
4.6	Cooling Systems		Bldg. Section	Description/Condition	
	4.6.1 Cooling system capacity and condition (i.e., chillers, cooling towers, condensers).	N/A			
	4.6.2 Cooling distribution system and components (i.e., ductwork, diffusers, mixing boxes, dampers, linkages)	N/A			
	4.6.3 Cooling system controls (including use of current energy management technology).	N/A			
	4.6.4 Special/dedicated cooling systems (i.e., labs, CTS areas).	N/A			
	Other				
4.7	Building Control Systems		Bldg. Section	Description/Condition	
	4.7.1 Building wide/system wide control systems and/or energy management systems.	3		Generally, building controls are pneumatic, some remote control & monitoring energy management, antiquated. Recommend control modification.	\$130,000
	Overall Mech Systems Condition & Estim. Costs				\$560,000

Section 5	Electrical Systems	Rating	Comments/Concerns		Estim. Cost
5.1	Site Services				
5.1.1	Primary service capacity and reliability (i.e., access, location, components, installation, bus sizes - note whether overhead or underground).	3		Main Services - Underground - 1200 Amp, 120/208V, 3 phase, 4 wire. Service was installed in 1966 but is in good condition. Near end of life cycle.	\$15,000
5.1.2	Site and building exterior lighting (i.e., safety concerns).	4		Exterior lighting is in good condition. Parking lot is also lit from building.	
5.1.3	Vehicle plug-ins (i.e., number, capacity, condition).	4		There are 20 stalls for staff parking and they all have power plug-ins in good condition.	
Other					
5.2	Life Safety Systems		Bldg. Section	Description/Condition	
5.2.1	Fire and smoke alarm systems (i.e., safety concerns, up-to-date technology, regularly tested).	3		F.A. system was installed in 1999. Some fire doors have mechanical hold open devices but are not released with F.A. system.	\$2,000
5.2.2	Emergency lighting systems (i.e., safety concerns, condition).	5		Existing system is new and in good condition.	
5.2.3	Exit lighting and signage (i.e., safety concerns, condition).	3		Exit lights are old and need repair or replacement. Some additional exit lighting required.	\$6,000
Other					

Section 5	Electrical Systems	Rating	Comments/Concerns		Estim. Cost
5.3	Power Supply and Distribution		Bldg. Section	Description/Condition	
5.3.1	Power service surge protection.	3		No surge protection installed on main service.	\$1,500
5.3.2	Panels and wireways capacity and condition.	3		Most panels are nearly full and in fair condition. Future expansion will require changes. Some panels require schedules.	\$3,500
5.3.3	Emergency generator capacity and condition and/or UPS (if applicable).	N/A			
5.3.4	General wiring devices and methods.	3		General wiring devices are in good condition. Corridors have limited receptacles.	\$1,000
5.3.5	Motor controls.	4		Loose controls are used and in some cases are new, as well, some are older. Replace through attrition.	
Other					

Section 5	Electrical Systems	Rating	Comments/Concerns		Estim. Cost
5.4	Lighting Systems		Bldg. Section	Description/Condition	
5.4.1	Interior lighting systems and components (i.e., illumination levels, conditions, controls).	3		Interior lighting has not been upgraded. Many areas require more lighting. Classrooms +26 (poor), gym +37 (OK), corridors +14 (poor), administration +79 (good), CTS areas +60 (good).	\$80,000
5.4.2	Replacement of ballasts (i.e., health and safety concerns).	4		Ballasts are being replaced as required.	
5.4.3	Implementation of energy efficiency measures and recommendations.	3		None is presently in place. Recommend retrofitting existing fixtures not included in Section 5.4.1 with T8 technology. Also, exits can be replaced with LED s required in Section 5.2.3.	\$34,000
Other					

Section 5	Electrical Systems	Rating	Comments/Concerns		Estim. Cost
5.5	Network and Communication Systems		Bldg. Section	Description/Condition	
	5.5.1 Telephone system and components (i.e., capacity, reliability, condition).	4		Telephone system is in good condition.	
	5.5.2 Other communication systems (i.e., public address, intercom, CCTV, satellite or cable TV).	4		P.A. system is in good condition.	
	5.5.3 Network cabling (if available, should be category 5 or better).	4		All cable is category 5 for network system.	
	5.5.4 Network cabling installation (i.e., in conduit, secured to walls or tables).	4		Cabling has been installed in conduit.	
	5.5.5 Wiring and telecommunication closets (i.e., size, security, ventilation/cooling, capacity for growth).	4		Equipment is located in storage room and is not vented. Heat does not seem to be a problem.	
	5.5.6 Provision for dedicated circuits for network equipment (i.e., hubs, switches, computers).	4		Equipment has been supplied with dedicated power.	
	Other				

Section 5	Electrical Systems	Rating	Comments/Concerns		Estim. Cost
5.6	Miscellaneous Systems		Bldg. Section	Description/Condition	
5.6.1	Site and building surveillance system (if applicable).	N/A			
5.6.2	Intrusion alarms (if applicable).	3		Existing system is in good condition. Door contacts are not installed.	\$2,000
5.6.3	Master clock system (if applicable).	4		Master clock system is in good condition.	
Other					
5.7	Elevators/Disabled Lifts (If applicable)				
5.7.1	Elevator/lift size, access and operating features (i.e., sensing devices, buttons, phones, detectors).	4		Existing stair lift is in good condition.	
5.7.2	Condition of elevators/lifts.	4		Stair lift is in good condition.	
5.7.3	Lighting and ventilation of elevators/lifts.	N/A			
Other					
	Overall Elect. Systems Condition & Estim Costs				\$145,000

Section 6	Portable Buildings	Rating	Comments/Concerns	Estim. Cost
	Note: Separate sheets can be completed, if necessary, for portable buildings of different ages and/or conditions.	NA		
6.1.1	Foundation and structure (i.e., signs of bending, cracking, settlement, rust, voids, stains).			
6.1.2	Roof materials and components (i.e., signs of deterioration, leaks, ice build-up).			
6.1.3	Exterior wall finishes (i.e., signs of deterioration, cracks, water stains).			
6.1.4	Doors and windows (i.e., signs of deterioration, rusting hardware, glass cracks, peeling paint, damaged seals).			
6.1.5	Interior finishes (i.e., floors, walls, ceiling).			
6.1.6	Millwork (i.e., counters, shelving, vanities, cabinets).			
6.1.7	Fixed/wall mounted equipment (i.e., writing boards, tackboards, display boards, signs)			
6.1.8	Heating system.			
6.1.9	Ventilation system.			
6.1.10	Electrical, communication and data network systems.			
6.1.11	Health and safety concerns (i.e., fire and smoke alarms, fire protection systems, exiting, fire resistance rating of materials).			
6.1.12	Barrier-free access.			
	Overall Portable Bldgs Condition & Estim Costs			\$0

Section 7	Space Adequacy	This Facility			Equiv. New Facility			Surplus/ Deficiency	Comments/Concerns
		No.	Size	Total Area	No.	Size	Total Area		
7.1	Classrooms	10	79	790	10	80	800	-10	
7.2	Science Rooms/Labs	2	85 135	223	2	120	240	-17	
7.3	Ancillary Areas (i.e., Art, Computer Labs, Drama, Music,)	4	VAR.	336	1 2	130 90	310	26	
7.4	Gymnasium (incl. gym storage)	1		386	1		655	-269	
7.5	Library/Resource Areas	1		229	1		190	39	
7.6	Administration/Staff, Physical Education, Storage Areas			199			458	-259	
7.7	CTS Areas								
	7.7.1 Business Education	0		0	1		115	-115	
	7.7.2 Home Economics	1		139	1		160	-21	
	7.7.3 Industrial Arts	1		292	1		280	12	
	7.7.4 Other CTS Programs	N/A							
7.8	Other Non-Instructional Areas (i.e., circulation, wall area, crush space, wc area)			924			999	-75	
	Overall Space Adequacy Assessment	20		3518	20		4207	-689	