LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
PLUMBING
MONROE ADVANCED TECHNOLOGY ACADEMY

PLUMBING SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			PLUMBING FIXTURES (C)																			
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	DESIGN OCCUPANCY	LAV	QTY	WC	QTY	UR	QTY	SH	QTY	MR	QTY	SK	QTY	FD/ FS	QTY	OSD	QTY	EYE	QTY	EQ	QTY	REMARKS
4a		GENERAL CLASSROOMS AND LABS																								
4a.1	1	Computer Laboratory	1150	1150	30																					
4a.2	1	Distance Learning Lab/Group Meeting	1500	1500																						
		SUBTOTAL General Classrooms and Labs		2,650																						
5a		HEALTH & HUMAN SERVICES																								
5a.1a	2	LPN Classrooms I & II	900	1800	20																					
5a.1b	1	LPN Skills Lab	1150	1150	20	HC LAV	1	HCW/ BPL	1			HC SH	1			HC SS	7							ICE, IH	1 EA	IH = Insta-hot water dispenser BPL = Bedpan lugs
5a.1c	1	LPN Program Offices (4 stations)	400	400	N/A																					
5a.1d	1	Skills Lab Storage	150	150	N/A																					
5a.1e	1	LPN Program Equipment Storage	150	150	N/A																					
5a.1f	1	LPN Program Handicap Toilet	80	80	N/A	HC-LAV	1	HC-WC	1									3"FD	1							All FD's shall be provided with trap primer (typ.)
5a.1g	3	Healthcare/Laboratory Technician Classroom	900	2700	N/A																					
5a.2a	1	Healthcare/Lab Tech Program Lab	1150	1150	20											HC SS		3"FD	1					FUME HOOD, EW	1	EW = Eye wash
5a.2b	1	Lab Tech Office	120	120	N/A																					
5a.2c	1	Lab Tech Program Handicap Toilet	80	80	N/A	HC-LAV	1	HC-WC	1									3"FD	1							All exposed pipe-wrapped (typ.)
5a.2d	1	Lab Tech Storage	150	150	N/A																					
5a.3a	1	Administration of Justice Classroom/Lab	1150	1150	20											HC-SK	1					EW	1			
5a.3b	1	AoJ Program Storage	150	150	N/A																					
5a.4a	1	Physical Training Room Shared	150	150	N/A																			EWC/CUS	1	Electrical water cooler/cuspidor with water filler.
5a.4b	1	AoJ Forensics Lab	1150	1150	N/A											HC SS	1									

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5a.5a	1	Firefighter 1/EMT Classroom/Lab	750	750	20																					
5a.5b	1	Simulated Training Area	600	600	N/A	LAV	1	WC	1			SH/ TUB	1			SS SK	1									
5a.5c	1	Firefighter Program Storage	150	150	N/A																					
5a.5d	1	Vehicle Shelter	1000	1000	20													CB D	1					H& CHB	2	Catch basin drain – oil/sand interceptor
5a.5e	1	AoJ/ Program Storage	200	200	N/A																					
5a.5f	1	AoJ/Firefighter Office Suite	200	200	N/A																					
5a.5g	2	AoJ/Firefighter Locker/Toilets/Showers	550	1100	N/A	LAV	6	HCWC WC	2 3	UR	1	HCSH SH	2 4					FL.D.	3							T.P. = Trap Primer (EA-FD)
5a.5h	1	AoJ Firefighter Laundry	100	100	N/A																			COMB. WASHER/ DRYER	1 EA.	Provide required connections for gear washer
5a.6a	2	Cosmetology/Nail Design Laboratory	2400	4800	20											SS-SK	10							BW-SH Triple BW SH	15	EW (1) Per Lab – 2 total BW SH backwash shampoo sink = 15 connections
5a.6b	1	Cosmetology/Nail Classroom	600	600	20																					
5a.6c	2	Dispensary	400	800	N/A											SS-SK	2									
5a.6d	2	Cosmetology/Nail Design Lockers/Toilets	400	800	N/A	LAV	4	HCWC WC	2 2									3" FD	2							
5a.6e	2	Cosmetology/Nail Design Office Suite	120	240	N/A																					
5a.6f	1	Cosmetology/Nail Design Reception	300	300	N/A														1							
5a.6g	1	Cosmetology/Nail Design Laundry	100	100	N/A																			COMM. WASHER/ DRYER	1 EA.	
		SUBTOTAL Health and Human Services		22,270	140																					
5b		HOSPITALITY/TOURISM																								
5b.1a	1	Culinary Arts Laboratory (Kitchen)	1150	1150	20											SK W/ DISP.	1	3" FD	5					DW&GW 3-Com SK 2-Com SK	1 EA 1 EA 1 EA	Dishwasher & glass washer (FD) Floor Drain with T.P. Condensate to spill to OSD open site drain to cistern (typ.)

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5b.1b	2	Walk-In Freezer/Refrigerator	150	300	N/A															OSD	1					
5b.1c	1	Dry Food Storage	300	300	N/A																					
5b.1d	1	Culinary Arts Office	120	120	N/A																					
5b.1e	1	Kitchen Custodial	50	50	N/A									MR	1	SS-SK	1	FD	1							
5b.1f	1	Electrical Room	50	50	N/A																					
5b.1g	1	Laundry Room	100	100	N/A									MR	1			FD	1					STACKED WASHER/ DRYER	1	
5b.1h	2	Culinary Arts Lockers/Toilets	300	300	N/A	LAV	6	HCWC WC	2 3	UR	1							FD	2							
5b.1i	1	Culinary Arts Classroom	900	900	20																					
5b.1j	1	Culinary Arts Dining Area (Restaurant)	1150	1150	N/A															OSD	2					
5b.1k	2	Restaurant Rest Rooms	80	160	N/A	LAV	4	HCWC WC	2 1	UR	1							FD	2							
		SUBTOTAL HOSPITALITY/TOURISM		4,580																						
5c		INFORMATION TECHNOLOGY																								
5c.1a	2	CISCO Laboratory/Classroom	1150	2300	20																					
5c.1b	1	CISCO Networking Racks/Equipment Trainer	400	400	N/A																					
5c.1c	1	CISCO Storage	120	120	N/A																					
5c.1e	2	CISCO Locker/Toilet Rooms	300	600	N/A	LAV	6	HCWC WC	2 3	UR	1							FD	2							
5c.2a	1	Computer Systems Technology Laboratory/Classroom	1150	1150	20																					
5c.2b	1	CST Textbook/Software Storage	150	150	N/A																					
5c.2c	1	CST Hardware Storage	300	300	N/A																					
		SUBTOTAL INFORMATION TECHNOLOGY		5,020																						

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5d		ENGINEERING & CONSTRUCTION																								
5d.1a	1	HVAC & Electrical Lab	3200	3200	20	LAV	1	WC	1			BAH/ SH	1			SS-SK	2			OSD	16 +/-	EW	1			EW = Eyewash
5d.1b	1	HVAC & Electrical Classroom	600	600	20																					
5d.1c	1	HVAC & Electrical Tool Room	150	150	N/A																					
5d.1d	2	HVAC & Electrical Panel Boards/Transformer Room	300	600	N/A																					
5d.2a	1	Building Construction Lab	2400	2400	20											SS-SK	1					EW	1			EW = Eyewash
5d.2b	1	Building Construction Classroom	800	800	20																					
5d.2c	1	Building Construction Tool Room	200	200	N/A																					
5d.2d	1	Finishing Room	200	200	N/A																			CA	Drops 20	CA = Compressed air
5d.2e	1	Paints and Stains Storage	100	100	N/A																			CA	2	40 psi max, filter & dryer
5d.2f	1	Lumber Storage	300	300	N/A																					
5d.3a	1	Masonry Lab	3000	3000	20																					
5d.3b	1	Masonry Classroom	600	600	20																					
5d.3c	1	Masonry Tool Room	150	150	N/A																					
5d.4a	1	Welding Classroom/Labs	3600	3600	20									MR	1	SS-SK	1					EW	1			
5d.4b	1	Welding Tool Room	300	300	N/A																					
5d.4c	1	Welding Clean Storage	300	300	N/A																					
5d.4d	1	Welding Electrical Room	300	300	N/A																					

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5d.5a	1	Computer Integrated Engineering and Design Classroom and Lab	2000	2000	20											SS-SK	1									
5d.5b	1	Computer Integrated Engineering and Design Office	120	120	N/a																					
5d.5c	1	CEID Hardware Storage	250	250	N/A																					
5d.6a	2	HVAC/Welding Lockers/Toilets/Showers	300	300	N/A	LAV	6	HCWC WC	2 3	UR	1	HCSH SH	2 2					FD	1							
5d.6b	1	Engineering and Construction Office Suite	300	300	N/A																					
5d.6c	2	Building Construction/Masonry Lockers/Toilets/Showers	300	300	N/A	LAV	6	HCWC WC	2 3	UR	1	HCSH SH	2 2					FD	1							
		SUBTOTAL ENGINEERING & CONSTRUCTION		20,670																						
5e		TRANSPORTATION																								
5e.1a	1	Auto Servicing Technology Lab	7500	7500	20																			CA	10	CA = Compressed air *See Write Up
5e.1b	1	AST Classroom	1200	1200	20																					
5e.1c	1	Auto Servicing Technology Parts Storage	200	200	N/A																					
5e.1d	1	AST Storage	500	500	N/A																					
5e.1e	1	AST Tool Storage	150	150	N/A																					
5e.1f	1	AST Shop Manual Library	150	150	N/A																					
5e.2a	1	Collision Repair Technology Lab	7500	7500	20											SS-SK	10	FD	10			COUNTER MOUNTED	10			Central Vacuum System
5e.2b	1	Collision Repair Technology Classroom	600	600	20																					
5e.2c	1	CRT Reference Room/Teaching Aids	200	200	N/A																					
5e.2d	1	Equipment Storage	150	150	N/A																					
5e.2e	1	CRT Paint Storage/Accudraft Mix Room	800	800	N/A																					

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5e.2f	1	Detailing and Wash Bay/Detailing Materials Storage	450	450	N/A													Catch BASIN	2					CENTRAL OIL INTER-CEPTOR		(2) CW & HW Mixing Valves with hose reels, C.B. w/ sand oil interceptor
5e.2g	1	Collision Repair Tool Storage	150	150	N/A																					
5e.3a	1	AST/Collision Repair Technology Instructor Office Suite	100	100	N/A													FD	2							
5e.3b	2	AST/Collision Repair Program Shared Lockers/Shower/Toilet	300	600	N/A	LAV	6	WC HGWC	3 2	UR	1	SH HCSH	2 2													
		SUBTOTAL TRANSPORTATION		20,250																						
5f		COMMUNICATIONS																								
5f.1a	1	Graphic Communications/Production Lab	2700	2700	20											SS-SK	2									
5f.1b	1	Production Printing Office	400	400	N/A																					
5f.1c	1	Loading Area	800	800	N/A																					
5f.1c.1	1	Paper Storage	600	600	N/A																					
5f.1d	1	Materials Storage	200	200	N/A																					
5f.1e	1	Graphic Communications Lab/Classroom	1150	1150	20																					
5f.1f	1	Graphic Communications Program Storage	500	500	N/A																					
5f.1g	1	Graphic Communications Ink/Supply Storage	200	200	N/A																					
5f.1h	1	Graphic Communications Plate Room	200	200	N/A											SS-SK	1									
5f.1i	1	Graphic Communications Instructor Office	200	200	N/A																					
5f.2a	1	Television Production Studio/Classroom	2600	2600	20																					
5f.2b	1	Television Production Control/Editing Room	900	900	20																					
5f.2c	1	Television Production Set Storage	600	600	N/A																					
5f.2d	1	Television Production Video Equipment Storage	300	300	N/A																					
5f.2e	2	Audio Rooms	100	200	N/A																					

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5f.2f	1	Television Production Classroom	600	600	N/A																					
5f.3a	1	Computer Digital and Animation Laboratory	1500	1500	20																					
5f.3b	1	Computer and Digital Animation Storage	120	120	N/A																					
5f.4	1	Television Production Office and Computer and Digital Animation Office Suite	300	300	N/A																					
		SUBTOTAL COMMUNICATIONS		14,070																						
5g		ENVIRONMENTAL SCIENCES & TECHNOLOGY																								
5g.1a	1	Retail Greenhouse	18,750	18,750	N/A													FD	10							
5g.1b	2	Production Greenhouses	3,750	11,250	N/A													FD	6							Fertigation System – mist system propogation, general watering benches
5g.1c	1	Holding/Stock Plant Greenhouse	1500	1500	N/A																					Fertigation System – mist system propogation, general watering benches
5g.1d	2	Environmental Program Classrooms	600	1200	20																					
5g.1e	2	Environmental Program Offices	120	240	N/A																					
5g.1f	1	Floral Production Lab	1200	1200	20											DEEP SS-SK	4	FD	2							(1) Shallow sink
5g.1g	1	Floral Production Storage	225	225	N/A																					
5g.1h	1	Floral Production Walk-In Cooler	500	500	N/A															OSD	1					To Storm Cistern
5g.1i	1	Potting Area	2500	2500	N/A											DEEP SS-SK	2	FD	1							
5g.1j	1	Potting Area Storage	900	900	N/A																					
5g.1k	1	Pesticide Storage	400	400	N/A													FD	1							Water supply with BFP
5g.1l	1	Lath Area	2400	2400	N/A													FD	4							

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5g.1m	1	Outdoor Retail Nursery Area	2400	2400	N/A													FD	4							
5g.1n	1	Heavy Equipment Garage Storage	2400	2400	N/A													Catch BASIN	2							Catch basin with integral sand oil interceptor
5g.1o	1	Small Engine Repair & Maintenance/Turf Lab	2400	2400	20											SS-SK	1	FD	1							
5g.1p	1	Small Engines Classroom	900	900	20																					
5g.1q	1	Small Engine Storage	150	150	N/A													FD	1							
5g.1r	1	Small Engine Tool Room	150	150	N/A																					
5g.1s	2	Environmental Program Lockers/Toilet/Showers	600	1200	N/A	LAV	6	WC HCWC	3 2	UR	1	SH WCSH	2 2					FD	2							
		SUBTOTAL ENVIRONMENTAL SCIENCES & TECHNOLOGY		50,665																						
6a		ADMINISTRATION																								
6a.1a	1	General Office/Waiting	800	800																						
6a.1b	1	Principal's Office	300	300																						
6a.1c	1	Asst. Principal's Office	300	300																						
6a.1d	1	Records Vault	150	150																						
6a.1e	1	Attendance	80	80																						
6a.1f	1	Paper Storage	100	100																						
6a.1g	1	Admin. Storage	200	200																						
6a.1w	1	Bookkeepers Office	120	120																						
6a.2a	1	Clinic Waiting	50	50																						
6a.2b	1	Clinic Examination	200	200																						
6a.2c	2	Clinic Toilets	65	130		LAV	2	HCWC	2																	
6a.2d	2	Clinic Rest Areas	120	120																						
6a.3	1	Conference/Coffee Room	250	250												SS-SK	1									Provide one (1) disposer

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6a.4a	1	Guidance Waiting	100	100												SS-SK	2									(1) sink with disposer; (1) sink with solids inceptor
6a.4b	2	Counselor Office	120	240																						
6a.4c	1	Special Ed/ESL Office	320	320																						
6a.4d	1	Coordinator Office	300	300																						
6a.5a	1	Mail/Copy/Faculty Work Room	400	400												SS-SK	1									
6a.5b	2	Faculty Toilets	65	130		LAV	2	HCWC	2									FD	2							
6a.5c	1	Faculty Break Room	200	200												SS-SK	1									
6a.6a	2	Security Specialists	100	200																						
6a.6b	1	Data/Comm Head End	80	80																						
6a.6c	1	IT Tech and Servers	100	100																						
		SUBTOTAL ADMINISTRATION		4,870																						
6b		CUSTODIAL																								
6b.1a	1	Custodial Office	200	200																						
6b.1b	1	Custodial Toilet/Shower	80	80		LAV	1	HCWC	1			HCSH	1					FD	1							
6b.1c	1	Custodial Supplies Storage	250	250																						
6b.1d	6	Janitors' Closets	40	240										MR	6											
		SUBTOTAL CUSTODIAL		770																						
6c		MULTIPURPOSE/COMMONS/FOOD SERVICE																								
6c.1a	1	Multipurpose Room	6000	6000																				EWC	2	Bi-Level
6c.1b	1	Furniture/Portable Stage Storage	750	750																						
6c.1d	1	Kitchen/Food Preparation	3000	3000										MR	1					OSD	2					See Write-Up

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		SUBTOTAL MULTIPURPOSE/COMMONS/FOOD SERVICE		9,750																					
6d		VOCATIONAL ASSESSMENT																							
6d.1a	1	Phase 1 Assessment	600	600																					
6d.1b	1	Phase 2 Assessment	2480	2480												SS-SK	4								
6d.1c	1	Vocational Assessment Office	240	240																					
6d.1d	1	Vocational Assessment Storage	150	300																					
6d.1e	1	Handicap Toilet	80	80		LAV	1	HCWC	1									FD	1						
6d.1f	1	Instructor Toilet	50	50		LAV	1	HCWC	1									FD	1						
		SUBTOTAL VOCATIONAL ASSESSMENT		3,750																					
6e		TEXTBOOK STORAGE																							
6e.1a		Textbook Storage/Copier	300	300																					
		SUBTOTAL		300																					
6f		STUDENT STORAGE																							
6f.1	1	AV Storage	300	300																					
6f.2	1	Adult ed Storage/Copier	300	300																					
6f.3	1	Student Lockers (800)	1000	1000																					
		SUBTOTAL		1,600																					
6g		PUBLIC USE																							
6g.1	2	Public Toilets Women	400	1200		LAV	12	WC HCWC	9 3									FD	2						

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6g.2	2	Public Toilets Men	400	1200		LAV	12	WC HCWC	7 3	UR HCUR	1 1							FD	2							
6g.3	2	Vending/Lounge	400	800																						
		SUBTOTAL PUBLIC USE		3,200																						
6h		CAREER RESOURCE/LIBRARY/MEDIA CENTER																								
6h.1a	1	Career Resource Center	250	250																						
6h.1b	1	Library	800	800																						
6h.1c	1	AV Storage	200	200																						
6h.1d	1	Library Office/Work Room	200	200																						
6h.1e	1	Guidance Department	250	250																						
6h.1f	1	General Computer Lab	1200	1200																						
		SUBTOTAL CAREER RESOURCE/LIBRARY		2,900																						
7b		MECHANICAL ROOM																								
7b.1	1	Mechanical room	3000	3000																						
		SUBTOTAL		3,000																						
7c		ELECTRICAL ROOM																								
7c.1	1	Electrical Switchgear	1000	1000																						
7c.2	4	Electrical Rooms	50	200																						
		SUBTOTAL		1,200																						
7d		TELEPHONE/DATA EQUIPMENT ROOMS																								
7d.1	1	Telephone Equipment	300	300																						

LOUDOUN COUNTY PUBLIC SCHOOLS
MEP SERVICES SCHEDULES
PLUMBING
MONROE ADVANCED TECHNOLOGY ACADEMY

PLUMBING SERVICES SCHEDULE

GENERAL (A)			NET AREA/OCCUPANCY (B)			PLUMBING FIXTURES (C)																			
DESIGN CODE	NO. SPACES	DESCRIPTION	UNIT	TOTAL	DESIGN OCCUPANCY	LAV	QTY	WC	QTY	UR	QTY	SH	QTY	MR	QTY	SK	QTY	FD/ FS	QTY	OSD	QTY	EYE	QTY	EQ	QTY	REMARKS
7d.2	8	Data Closets	150	1200																						
		SUBTOTAL		1,500																						
		TOTAL NET S.F.		173,015																						
	.	Add 23 % for circulation, wall thickness and other allowable factors.		39,793																						
		TOTAL GROSS S.F.		212,808																						

* See Architectural package for details.

END OF FACILITY LIST - EDUCATION SPECIFICATION NO. 3