

APPENDIX C: PRELIMINARY EQUIPMENT LIST

Yuba-Sutter Transit Next Generation Transit Facility Marysville, California



Prepared by:

WSP



April 2026

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EQUIPMENT LIST

INTRODUCTION

This Equipment List is organized as a working document to be updated as the design of the facility progresses. The purpose of this document is to identify types and quantities of new equipment items necessary for facility operation. Equipment denoted in this list is representative of the needs of each functional area of the facility as they were discussed with Yuba-Sutter Transit staff members. Equipment is listed by functional area with the following information:

Mark. All identical equipment items are assigned the same number. The Equipment Mark Number coordinates this list with equipment layout drawings and specifications.

Description. Description of equipment item.

Price. Estimated unit price not including installation.

Qty. Quantity of equipment item.

Ext. Extended Price. Equals Price times Quantity.

Area. Overall width and depth, respectively, in inches unless otherwise noted.

S.I. An asterisk (*) in this column identifies equipment items having Structural Impact on the facility.

Procurement Method. Column recommends responsibility to furnish and install equipment.

- CF/CI = Contractor Furnished/ Contractor Installed
- OF/CI = Owner Furnished/ Contractor Installed
- OF/OI = Owner Furnished/ Owner Installed

Spec. Specified By. Identifies suggested responsibility for specification preparation.

- WSP = WSP Fleet and Facilities.
- MEP = Mechanical, Electrical, Plumbing Engineer.

Remarks. Includes requirements to be considered during detailed d

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Mark #	Description	Price	Qty	Ext	Area	S.I.	Meth	Spec	Remarks
MAINTENANCE									
<u>PM Lift Bay (45' Bus)</u>									
1130	Cabinet, computer, shop	3,050	1	3,050	26x24		CF-CI	WSP	Casters available. Add \$130 for casters
1220	Desk, stand-up	1,930	1	1,930	35x28		CF-CI	WSP	
1860	Workbench, severe use	2,390	1	2,390	72x32		CF-CI	WSP	Fabricated
2832	Vise, combination, swivel base, 5"	1,821	1	1,821	8x14		CF-CI	WSP	Bench mounted
3304	Reel, vehicle exhaust, motor operated, w/ 6" hose	8,200	1	8,200	60x30	*	CF-CI	WSP	800cfm at source; 1200F max; 7.5"wc (reel); Ducted to outside. Single drop fan included. Non-bus diesel use. 240 lbs.
5713	Lift, drive-on, vertical rise, surface mount, 80,000lb, 48ft	220,000	1	220,000	56'x9'	*	CF-CI	WSP	Lift cost \$140,053, \$36,332 for bridge jacks, \$8,530 for light kit (pair)-5 total, \$4,380 for built-in air, \$2,966 for Remote Pendant Control, and \$23,42 for tape switch.
8190	Drops, air/electric, trapeze	5,370	1	5,370	24x6	*	CF-CI	WSP	Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives
8740	Reel bank (ATF, EC, EO1, EO2)	8,920	1	8,920		*	CF-CI	WSP	Plumbed to Lube Room. 100 lbs per reel.
				251,681					

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Mark #	Description	Price	Qty	Ext	Area	S.I.	Meth	Spec	Remarks
RR Flat Bays (45' Bus)									
1130	Cabinet, computer, shop	3,050	2	6,100	26x24		CF-CI	WSP	Casters available. Add \$130 for casters
1220	Desk, stand-up	1,930	3	5,790	35x28		CF-CI	WSP	
1860	Workbench, severe use	2,390	3	7,170	72x32		CF-CI	WSP	Fabricated
2832	Vise, combination, swivel base, 5"	1,821	3	5,463	8x14		CF-CI	WSP	Bench mounted
3304	Reel, vehicle exhaust, motor operated, w/ 6" hose	8,200	3	24,600	60x30	*	CF-CI	WSP	800cfm at source; 1200F max; 7.5"wc (reel); Ducted to outside. Single drop fan included. Non-bus diesel use. 240 lbs.
4950	Shower, drench, w/ eyewash	4,040	1	4,040	14x34	*	CF-CI	WSP	Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$130 for foot control.
5030	Cart, parts	600	3	1,800	48x24		CF-CI	WSP	
5460	Hopper, self-dumping, 3/4 yard	1,600	1	1,600	61x40		CF-CI	WSP	
5696	Lift, column, hydraulic, 6-set, 108,000 lb, wireless	115,000	3	345,000	45x52		CF-CI	WSP	Includes set of 6 jack stands, battery power, wireless comm. w/o wireless comm: -\$15,500 w/o battery pwr: +\$10,000
8190	Drops, air/electric, trapeze	5,370	3	16,110	24x6	*	CF-CI	WSP	Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives
8740	Reel bank (ATF, EC, EO1, EO2)	8,920	3	26,760		*	CF-CI	WSP	Plumbed to Lube Room. 100 lbs per reel.
9400	Handwash station, shop	5,600	1	5,600	36x24	*	CF-CI	WSP	Coordinate structural for wall mount
				450,033					

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Mark #	Description	Price	Qty	Ext	Area	S.I.	Meth	Spec	Remarks
<u>Air Conditioning / Electronics Bay (45' Bay)</u>									
1130	Cabinet, computer, shop	3,050	1	3,050	26x24		CF-CI	WSP	Casters available. Add \$130 for casters
1220	Desk, stand-up	1,930	1	1,930	35x28		CF-CI	WSP	
1860	Workbench, severe use	2,390	1	2,390	72x32		CF-CI	WSP	Fabricated
2832	Vise, combination, swivel base, 5"	1,821	1	1,821	8x14		CF-CI	WSP	Bench mounted
3304	Reel, vehicle exhaust, motor operated, w/ 6" hose	8,200	1	8,200	60x30	*	CF-CI	WSP	800cfm at source; 1200F max; 7.5"wc (reel); Ducted to outside. Single drop fan included. Non-bus diesel use. 240 lbs.
5074	Crane, bridge, suspended, 1 ton	49,500	1	49,500		*	CF-CI	WSP	Price based on 22' max span (1 girder); 100' runway, 19' hook height; Add \$6400 for 28' max span (2 girder)
5352	Forklift, electric, walk-behind, 2000 lb	12880	1	12880	33x60		CF-CI	WSP	84" minimum aisle operating width
5460	Hopper, self-dumping, 3/4 yard	1,600	1	1,600	61x40		CF-CI	WSP	
5713	Lift, drive-on, vertical rise, surface mount, 80,000lb, 48ft	220,000	1	220,000	56'x9'	*	CF-CI	WSP	Lift cost \$140,053, \$36,332 for bridge jacks, \$8,530 for light kit (pair)-5 total, \$4,380 for built-in air, \$2,966 for Remote Pendant Control, and \$23,42 for tape switch.
8190	Drops, air/electric, trapeze	5,370	1	5,370	24x6	*	CF-CI	WSP	Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives
8740	Reel bank (ATF, EC, EO1, EO2)	8,920	1	8,920		*	CF-CI	WSP	Plumbed to Lube Room. 100 lbs per reel.
				315,661					

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Mark #	Description	Price	Qty	Ext	Area	S.I.	Meth	Spec	Remarks
<u>Tire Bay/Storage (45' Bus)</u>									
1220	Desk, stand-up	1,930	1	1,930	35x28		CF-CI	WSP	
1640	Rack, tire, stackable	750	18	13,500	60x26		CF-CI	WSP	4 tires per rack, based on B305/85R22.5 size or, 6 standard auto type tires
1860	Workbench, severe use	2,390	1	2,390	72x32		CF-CI	WSP	Fabricated
2835	Vise, combination, swivel base, 6"	530	1	530	10x16		CF-CI	WSP	Bench mounted
3304	Reel, vehicle exhaust, motor operated, w/ 6" hose	8200	1	8200	60x30	*	CF-CI	WSP	800cfm at source; 1200F max; 7.5"wc (reel); Ducted to outside. Single drop fan included. Non-bus diesel use. 240 lbs.
4950	Shower, drench, w/ eyewash	4,040	1	4,040	14x34	*	CF-CI	WSP	Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$130 for foot control.
5030	Cart, parts	600	1	600	48x24		CF-CI	WSP	
5460	Hopper, self-dumping, 3/4 yard	1,600	1	1,600	61x40		CF-CI	WSP	
5645	Lift, axle, adj, 2 post, scissor, 60,000 lb	194,920	1	194,920		*	CF-CI	WSP	Includes pendant, low profile bus adapter; +\$37,155 for install; +\$274 adapter stand; +\$1240 adapter cart
8190	Drops, air/electric, trapeze	5,370	1	5,370	24x6	*	CF-CI	WSP	Quadruplex receptacle, quick disconnect for 3/8" & 1/2" impact drives
8740	Reel bank (ATF, EC, EO1, EO2)	8,920	1	8,920		*	CF-CI	WSP	Plumbed to Lube Room. 100 lbs per reel.
9400	Handwash station, shop	5,600	1	5,600	36x24	*	CF-CI	WSP	Coordinate structural for wall mount
				247,600					

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Mark #	Description	Price	Qty	Ext	Area	S.I.	Meth	Spec	Remarks
Common Work Area									
1140	Cabinet, flammable materials, large	3,510	1	3,510	43x18		CF-CI	WSP	45 gallon capacity
1860	Workbench, severe use	2,390	1	2,390	72x32		CF-CI	WSP	Fabricated
2085	Buffer/grinder, 8", w/ pedestal	4,030	1	4,030	22x11		CF-CI	WSP	Push button magnetic starter
2205	Drill press, variable speed, 15"	2,790	1	2,790	14x20		CF-CI	WSP	For drilling wood or metal - up to 5/8" steel Add \$250 for 3 phase option.
2532	Press, electric/hydraulic, 50 ton	27,490	1	27,490	42x36x76		CF-CI	WSP	Single acting, spring return 48.5" vert clr, 28.75" horz clr
2835	Vise, combination, swivel base, 6"	530	1	530	10x16		CF-CI	WSP	Bench mounted
2900	Welder, MIG, wire feed, portable, w/ cart	6,930	1	6,930	19x39		CF-CI	WSP	MIG & Fux Cored welding
2920	Welder, oxyacetylene, portable, w/ cart	2,480	1	2,480	25x13		CF-CI	WSP	Gas welding
3560	Tank, parts cleaning, solvent, medium	4,730	1	4,730	42x30		CF-CI	WSP	
4950	Shower, drench, w/ eyewash	4,040	1	4,040	14x34	*	CF-CI	WSP	Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$130 for foot control.
5785	Pallet, containment, hazardous materials	1,180	1	1,180	53x53		CF-CI	WSP	Fluorinated polyethylene construction for resistance to chlorinated cleaning solvents
8492	Press, oil filter, pneumatic	4,130	1	4,130	28x28		CF-CI	WSP	
9400	Handwash station, shop	5,600	1	5,600	36x24	*	CF-CI	WSP	Coordinate structural for wall mount
				69,830					
Electronics Shop									
1456	Rack, bulk storage, w/ deck	1,370	1	1,370	72x24		CF-CI	WSP	\$850 Per Add-On
1531	Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck	2,380	1	2,380	114x42	*	CF-CI	WSP	3 shelves w/ wire mesh deck. Struct Eng to design slab for support and seismic anchors as needed
1802	Workbench, electronics, anti-static top, 6 ft.	1,500	2	3,000	72x30		CF-CI	WSP	
1860	Workbench, severe use	2,390	1	2,390	72x32		CF-CI	WSP	Fabricated
2832	Vise, combination, swivel base, 5"	1,821	1	1,821	8x14		CF-CI	WSP	Bench mounted
5132	Crane, jib, found. mtd., 10', 2 ton	5,492	1	5,492		*	CF-CI	WSP	Sleeve mounted. Continuous Rotation standard.
				16,453					

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Mark #	Description	Price	Qty	Ext	Area	S.I.	Meth	Spec	Remarks
<u>Lube/Compressor Room</u>									
2168	Compressor, air, rec. mtd., 25 HP dplx	47,730	1	47,730	89x61		CF-CI	WSP	Size to be confirmed by Mech. Includes vibration isolation pads. Provide 48" clr space all around
2222	Dryer, air, desiccant, 150 CFM	8,000	1	8,000	32x20		CF-CI	WSP	Size to be confirmed by Mechanical
4950	Shower, drench, w/ eyewash	4,040	1	4,040	14x34	*	CF-CI	WSP	Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$130 for foot control.
5290	Dolly, drum, caster base, 600 pound	235	1	235	24D		CF-CI	WSP	
5785	Pallet, containment, hazardous materials	1,180	1	1,180	53x53		CF-CI	WSP	Fluorinated polyethylene construction for resistance to chlorinated cleaning solvents
8525	Pump, air piston (ATF), 4.25", 10:1	7,750	1	7,750			CF-CI	WSP	Size to be confirmed by Mechanical. Add \$330 for wall mounted
8566A	Pump, air piston (EO1), 4.25", 10:1	7,750	1	7,750			CF-CI	WSP	Size to be confirmed by Mechanical. Add \$335 for wall mounted
8566B	Pump, air piston (EO2), 4.25", 10:1	7,750	1	7,750			CF-CI	WSP	Size to be confirmed by Mechanical. Add \$335 for wall mounted
8586	Pump, diaphragm (EC)	2,130	1	2,130			CF-CI	WSP	Size to be confirmed by Mechanical. Wall mounted.
8940A	Tank, storage, cube, 280 gallon (ATF)	4,750	1	4,750	34x58		CF-CI	WSP	Above ground double wall for lubricants
8940B	Tank, storage, cube, 280 gallon (EC)	4,750	1	4,750	34x58		CF-CI	WSP	Above ground double wall for lubricants
8940C	Tank, storage, cube, 280 gallon (EO1)	4,750	1	4,750	34x58		CF-CI	WSP	Above ground double wall for lubricants
8940D	Tank, storage, cube, 280 gallon (EO2)	4,750	1	4,750	34x58		CF-CI	WSP	Above ground double wall for lubricants
				105,565					
<u>Waste Fluid Collection</u>									
8991	Tank, waste, 250 gal, w/ pump (WC)	7,190	1	7,190	44x44		CF-CI	WSP	Above ground double wall, w/ leak detection
8992	Tank, waste, 500 gal, w/ pump (WO)	14,640	1	14,640	82x44		CF-CI	WSP	Above ground double wall, w/ leak detection
				14,640					

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Mark #	Description	Price	Qty	Ext	Area	S.I.	Meth	Spec	Remarks
<u>Battery Room</u>									
2030	Bench, battery	2,190	1	2,190	169.5x24		CF-CI	WSP	Fabricated
2125	Charger, battery, fixed	1,180	1	1,180	19x16		CF-CI	WSP	For up to 10 batteries, 1 bus bar included
4010	Building, storage, hazardous materials, prefabricated	69,040	1	69,040	144x72		CF-CI	WSP	Includes fire suppression, heater, air conditioning, eye wash, shelving, ramp.
4670	Tester, battery load	2,110	1	2,110	11x11		CF-CI	WSP	
4950	Shower, drench, w/ eyewash	4,040	1	4,040	14x34	*	CF-CI	WSP	Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$130 for foot control.
5010	Cart, battery	3,200	1	3,200	48x30		CF-CI	WSP	
5015	Cart, battery lift	1,570	1	1,570	30x22		CF-CI	WSP	
5785	Pallet, containment, hazardous materials	1,180	1	1,180	53x53		CF-CI	WSP	Fluorinated polyethylene construction for resistance to chlorinated cleaning solvents
9400	Handwash station, shop	5,600	1	5,600	36x24	*	CF-CI	WSP	Coordinate structural for wall mount
				90,110					
<u>Floor Scrubber Parking</u>									
3357	Scrubber, floor, walk-behind, electric	29,400	1	29,400	a) 38x65 b) 10x11		CF-CI	WSP	a) Scrubber dims b) Battery Charger dims
				29,400					
<u>Forklift Parking</u>									
5350	Forklift, electric, sit-down, 4000 lb	45,000	1	45,000	42x120 21x22x27 (charger)		CF-CI	WSP	132" minimum aisle operating width
				45,000					

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Mark #	Description	Price	Qty	Ext	Area	S.I.	Meth	Spec	Remarks
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PARTS STOREROOM

Parts Storeroom

1113	Cabinet, 9 drawer, 59"	4,090	11	44,990	30x28		CF-CI	WSP	Lockable. Credit \$530 if overhead cabinet not used
1140	Cabinet, flammable materials, large	3,510	2	7,020	43x18		CF-CI	WSP	45 gallon capacity
1456	Rack, bulk storage, w/ deck	1,370	4	5,480	72x24		CF-CI	WSP	\$850 Per Add-On
1531	Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck	2,380	5	11,900	114x42	*	CF-CI	WSP	3 shelves w/ wire mesh deck. Struct Eng to design slab for support and seismic anchors as needed
1680	Shelving unit, 18"	790	26	20,540	36x18		CF-CI	WSP	Add \$575 per add on. Deduct \$6 for floor anchors: (2) pair left & right support feet
1683	Shelving unit, 24"	890	8	7,120	36x24		CF-CI	WSP	Add \$700 per add on. Deduct \$6 for floor anchors: (2) pair left & right support feet
				97,050					

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Mark #	Description	Price	Qty	Ext	Area	S.I.	Meth	Spec	Remarks
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FUEL/WASH/SERVICE

Fueling Position

5450	Center, service, windshield	-	2	-	18.5x19x 34.5		CF-CI	WSP	
5464	Hopper, self-dumping, 2 yard	2,120	2	4,240	65x58		CF-CI	WSP	
7800	Vault/receiver, farebox, mobile bin	36,000	2	72,000			CF-CI	WSP	
8065	Dispenser, diesel fuel, stand type, 60 GPM	13,710	2	27,420	40x16		CF-CI	WSP	Extra high volume nozzle for bus, used in conjunction w/ satellite. Add \$1400 for Posi/Lock nozzle
8210	Fuel management system, transit	110,000	2	220,000	Cntr- 24x8, RIH- 16x8		CF-CI	WSP	Price based on 2 lanes, tracking 2 commodities each. Includes all installation. Data loggers not included, Add \$500 per.
8245	Gantry, fuel, w/ hose & nozzle	38,500	2	77,000	23'x36		CF-CI	WSP	Includes Posi/Lock nozzle
8936	Tank, vault, steel, fire rated, double wall, 15,000 gallons	180240	1	180240	548x95		CF-CI	WSP	Requires slab. Add \$4200 for tank mount pump/dispenser.
				580,900					

Central Vacuum

3622	Vacuum system, central, 4-station simultaneous (stationary)	25,350	1	25,350	79x36		CF-CI	WSP	4 active station operation
				25,350					

Cleaning Storage

1185	Cabinet, storage, shop, 18"	700	2	1,400	36x18		CF-CI	WSP	
1680	Shelving unit, 18"	790	3	2,370	36x18		CF-CI	WSP	Add \$575 per add on. Deduct \$6 for floor anchors: (2) pair left & right support feet
				3,770					

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Automatic Bus Washer/Detail Clean

3819	Washer, vehicle, gantry	253,000	1	253,000	16'x60'	*	CF-CI	WSP	Installation included. Includes RO
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253,000

Chassis Wash

3722	Washer, pressure, hot water, Electric	15,560	1	15,560	34x25x52		CF-CI	WSP	
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3722A	Hose Reel for 3722	1,380	2	2,760			CF-CI	WSP	
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4950	Shower, drench, w/ eyewash	4,040	1	4,040	14x34	*	CF-CI	WSP	
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Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$130 for foot control.

5715	Lift, drive-on, vertical rise, recessed, wet environment, 80,000lb, 48ft	167,000	1	167,000	49'x9'	*	CF-CI	WSP	Lift cost \$140,053, \$8,530 for light kit (pair)-5 total, \$5,878 for stainless steel remote panel, \$11,712 for tape switch.
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189,360

Charging Infrastructure

8000	Charging Cabinet, 200kW, DC Outlet
8050	Charging Dispenser, Plug-In, Overhead Facility Mounted
8055	Cord Management, Main Control Box, Wall/Column
8100	Charging Cabinet, 180kW, DC Output, Dual Plug-In, Non-Revenue
8150	Charging Cabinet, 180kW, DC Output, Dual Plug-In

EQUIPMENT LIST SUMMARY

TOTAL Equipment (CF-CI)	2,785,403
Equipment Installation 15%	417,810
TOTAL Equipment + Installation (CF-CI)	3,203,213

MECHANICAL UTILITY MATRIX

INTRODUCTION

The following equipment Utility Requirements Matrix provides detailed utility information on new equipment items to be included in this project. The purpose of this matrix is to aid in location and sizing of necessary utilities related to equipment. The matrix is divided into two sections, Mechanical and Electrical. The following abbreviations are utilized in the matrix.

A	Amperes
BTU	British Thermal Unit
CFM	Cubic feet per minute
EC	Electrical Contractor
GPM	Gallons per minute
HP	Horsepower
J-Box	Junction Box
NG	Natural Gas
PSI	Pounds per square inch
S	Supplier
VAC	Volts (AC)
W	Watts

The matrix is arranged numerically by Equipment Mark Number for easy reference to the corresponding item in the Equipment List, Equipment Cutsheets, and Equipment Layout Drawings.

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Draft Preliminary Equipment List - Utility Matrix
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Mechanical

Mark #	Description	Meth	Water (P)	NG (P)	Drain (P)	Air (I)	Mech (M)	Remarks (Mech)
1113	Cabinet, 9 drawer, 59"	CF-CI						
1130	Cabinet, computer, shop	CF-CI						
1140	Cabinet, flammable materials, large	CF-CI						
1185	Cabinet, storage, shop, 18"	CF-CI						
1220	Desk, stand-up	CF-CI						
1456	Rack, bulk storage, w/ deck	CF-CI						
1531	Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck	CF-CI						
1640	Rack, tire, stackable	CF-CI						
1680	Shelving unit, 18"	CF-CI						
1683	Shelving unit, 24"	CF-CI						
1802	Workbench, electronics, anti-static top, 6 ft.	CF-CI						
1860	Workbench, severe use	CF-CI						
2030	Bench, battery	CF-CI					1 CFM / sqft of general ventilation, min.	Battery rooms require adeq. ventilation. Mech to check codes.
2085	Buffer/grinder, 8", w/ pedestal	CF-CI						
2125	Charger, battery, fixed	CF-CI						
2168	Compressor, air, rec. mtd., 25 HP dplx	CF-CI			Floor drain	Outlet: 1- 1/4", NPT(F)		
2205	Drill press, variable speed, 15"	CF-CI						
2222	Dryer, air, desiccant, 150 CFM	CF-CI						
2532	Press, electric/hydraulic, 50 ton	CF-CI						
2832	Vise, combination, swivel base, 5"	CF-CI						
2835	Vise, combination, swivel base, 6"	CF-CI						
2900	Welder, MIG, wire feed, portable, w/ cart	CF-CI						
2920	Welder, oxyacetylene, portable, w/ cart	CF-CI						

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Mechanical

Mark #	Description	Meth	Water (P)	NG (P)	Drain (P)	Air (I)	Mech (M)	Remarks (Mech)
3304	Reel, vehicle exhaust, motor operated, w/ 6" hose	CF-CI					Ducted to outside; verify if central system	800cfm at source; 1200F max; 7.5"wc (reel); Ducted to outside. Single drop fan included. Non-bus diesel use
3357	Scrubber, floor, walk-behind, electric	CF-CI						
3560	Tank, parts cleaning, solvent, medium	CF-CI						
3622	Vacuum system, central, 4-station simultaneous (stationary)	CF-CI					6 inch exhaust	
3722	Washer, pressure, hot water, Electric	CF-CI						
3722A	Hose Reel for 3722	CF-CI						3000psi line press. @ approx 140F, spec pipe run accordingly, no copper.
3819	Washer, vehicle, gantry	CF-CI	1", 45 PSI, 25 GPM		6" min.	1/2", 100 PSI, 1/2 CFM		Drain to reclaim or sewer
4010	Building, storage, hazardous materials, prefabricated	CF-CI						
4670	Tester, battery load	CF-CI						
4950	Shower, drench, w/ eyewash	CF-CI	1-1/4" hot & cold		1-1/4"			1) Maint Areas: connect drain to ind. waste / oil-water sep. 2) Battery Areas: connect drain to acid neutralizing basin
5010	Cart, battery	CF-CI						
5015	Cart, battery lift	CF-CI						
5030	Cart, parts	CF-CI						
5074	Crane, bridge, suspended, 1 ton	CF-CI						
5132	Crane, jib, found. mtd., 10', 2 ton	CF-CI						
5290	Dolly, drum, caster base, 600 pound	CF-CI						
5350	Forklift, electric, sit-down, 4000 lb	CF-CI						
5352	Forklift, electric, walk-behind, 2000 lb	CF-CI						
5450	Center, service, windshield	CF-CI						
5460	Hopper, self-dumping, 3/4 yard	CF-CI						

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Mark #	Description	Meth	Water (P)	NG (P)	Drain (P)	Air (I)	Mech (M)	Remarks (Mech)
5464	Hopper, self-dumping, 2 yard	CF-CI						
5645	Lift, axle, adj, 2 post, scissor, 60,000 lb	CF-CI			See remarks	1/2", 90 PSI, 5 CFM		Drain or alarm in pit bottom.
5696	Lift, column, hydraulic, 6-set, 108,000 lb, wireless	CF-CI						
5713	Lift, drive-on, vertical rise, surface mount, 80,000lb, 48ft	CF-CI						a)locking system, b)rolling jacks
5715	Lift, drive-on, vertical rise, recessed, wet environment, 80,000lb, 48ft	CF-CI						a)locking system
5785	Pallet, containment, hazardous materials	CF-CI						
7800	Vault/receiver, farebox, mobile bin	CF-CI						
8065	Dispenser, diesel fuel, stand type, 60 GPM	CF-CI						1-1/2" fuel supply inlet
8190	Drops, air/electric, trapeze	CF-CI				10 CFM 150-250 PSI 3/4" Connect		Quick disconnect for 3/8" & 1/2" impact drives, filter, regulator & lubricator.
8210	Fuel management system, transit	CF-CI						
8245	Gantry, fuel, w/ hose & nozzle	CF-CI						1-1/2" fuel supply inlet
8492	Press, oil filter, pneumatic	CF-CI			3/4" drain line to waste oil collection	1/2", 200 PSI, 44 CFM		
8525	Pump, air piston (ATF), 4.25", 10:1	CF-CI				1/2", 100 PSI, 40 CFM		3/4" material outlet
8566A	Pump, air piston (EO1), 4.25", 10:1	CF-CI				1/2", 100 PSI, 40 CFM		3/4" material outlet

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Mark #	Description	Meth	Water (P)	NG (P)	Drain (P)	Air (I)	Mech (M)	Remarks (Mech)
8566B	Pump, air piston (EO2), 4.25", 10:1	CF-CI				1/2", 100 PSI, 40 CFM		3/4" material outlet
8586	Pump, diaphragm (EC)	CF-CI				1/4", 40 PSI, 28 CFM		3/4" material inlet and outlet
8740	Reel bank (ATF, EC, EO1, EO2)	CF-CI	As required			As required		1/2" reel inlet; line working pressure 5000 PSI (CG), 1000 PSI (all other)
8936	Tank, vault, steel, fire rated, double wall, 15,000 gallons	CF-CI						
8940A	Tank, storage, cube, 280 gallon (ATF)	CF-CI						
8940B	Tank, storage, cube, 280 gallon (EC)	CF-CI						
8940C	Tank, storage, cube, 280 gallon (EO1)	CF-CI						
8940D	Tank, storage, cube, 280 gallon (EO2)	CF-CI						
8991	Tank, waste, 250 gal, w/ pump (WC)	CF-CI				1/2", 20- 50 PSI, 10 CFM		
8992	Tank, waste, 500 gal, w/ pump (WO)	CF-CI				1/2", 20- 50 PSI, 10 CFM		
9400	Handwash station, shop	CF-CI	3/4" hot & cold		1-1/4"			Wall mount

ELECTRICAL UTILITY MATRIX

INTRODUCTION

The following equipment Utility Requirements Matrix provides detailed utility information on new equipment items to be included in this project. The purpose of this matrix is to aid in location and sizing of necessary utilities related to equipment. The matrix is divided into two sections, Mechanical and Electrical. The following abbreviations are utilized in the matrix.

A	Amperes
BTU	British Thermal Unit
CFM	Cubic feet per minute
EC	Electrical Contractor
GPM	Gallons per minute
HP	Horsepower
J-Box	Junction Box
NG	Natural Gas
PSI	Pounds per square inch
S	Supplier
VAC	Volts (AC)
W	Watts

The matrix is arranged numerically by Equipment Mark Number for easy reference to the corresponding item in the Equipment List, Equipment Cutsheets, and Equipment Layout Drawings.

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Electrical

Mark #	Description	Meth	Volt (E)	Ph (E)	Load (E)	Connect (E)	Comm (C)	Remarks (Elec)
1113	Cabinet, 9 drawer, 59"	CF-CI						
1130	Cabinet, computer, shop	CF-CI	120	1	20A	Plug-in NEMA 5- 20R	Network connectio n	
1140	Cabinet, flammable materials, large	CF-CI						
1185	Cabinet, storage, shop, 18"	CF-CI						
1220	Desk, stand-up	CF-CI						
1456	Rack, bulk storage, w/ deck	CF-CI						
1531	Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck	CF-CI						
1640	Rack, tire, stackable	CF-CI						
1680	Shelving unit, 18"	CF-CI						
1683	Shelving unit, 24"	CF-CI						
1802	Workbench, electronics, anti-static top, 6 ft.	CF-CI	120	1	20A	J-Box w/ local fused disc.		Hardwire unit into j-box. Receptacle included on equipment
1860	Workbench, severe use	CF-CI						
2030	Bench, battery	CF-CI						
2085	Buffer/grinder, 8", w/ pedestal	CF-CI	460	3	3/4HP / 1.6A	J-box w/ local fused disc.		Provide duplex outlet connected to energizing switch to control lights.
2125	Charger, battery, fixed	CF-CI	120	1	10A	Plug-in NEMA 5- 15R		
2168	Compressor, air, rec. mtd., 25 HP dplx	CF-CI	460	3	65A (50HP)	J-Box w/ local fused disc.		
2205	Drill press, variable speed, 15"	CF-CI	460	3	1HP	J-Box w/ local fused disc.		120v, 1ph option 220v, 1ph option 220v, 3ph option

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Electrical

Mark #	Description	Meth	Volt (E)	Ph (E)	Load (E)	Connect (E)	Comm (C)	Remarks (Elec)
2222	Dryer, air, desiccant, 150 CFM	CF-CI	120	1	0.25HP	Plug-in NEMA 5-15R		
2532	Press, electric/hydraulic, 50 ton	CF-CI	120	1	1.5HP	Plug-in NEMA 5-15R		
2832	Vise, combination, swivel base, 5"	CF-CI						
2835	Vise, combination, swivel base, 6"	CF-CI						
2900	Welder, MIG, wire feed, portable, w/ cart	CF-CI	460	3	20A	Plug-in NEMA L8-60R		460v / 575v 3 Ph optional Revise NEMA plug as necessary for final selected input voltage. NEMA L8-60R (480)
2920	Welder, oxyacetylene, portable, w/ cart	CF-CI						
3304	Reel, vehicle exhaust, motor operated, w/ 6" hose	CF-CI	1) 120 2) 460	1) 1 2) 3	1) 5 A 2) 2HP (5A)	J-box, Disc panel and xformer if fan incld, by mnf J-Box if reel only		1) Reel Motor 2) Fan Motor Fan included. Modify if multidrop system is provided by Mech Engineer.
3357	Scrubber, floor, walk-behind, electric	CF-CI	120	1	10A	J-Box w/ local fused disc.		
3560	Tank, parts cleaning, solvent, medium	CF-CI	120	1	1/3HP	Plug-in NEMA 5-15R		

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Mark #	Description	Meth	Volt (E)	Ph (E)	Load (E)	Connect (E)	Comm (C)	Remarks (Elec)
3622	Vacuum system, central, 4-station simultaneous (stationary)	CF-CI	460	3	15HP	J-Box w/ local fused disc.		
3722	Washer, pressure, hot water, Electric	CF-CI						Waterproof
3722A	Hose Reel for 3722	CF-CI						
3819	Washer, vehicle, gantry	CF-CI	208	3	40A	J-Box w/ local fused disc.		Wet environment, disconnect at control panel
4010	Building, storage, hazardous materials, prefabricated	CF-CI	208	1	12HP	J-Box w/ local fused disc.		distribution panel included Light 10 amp, A/C 10 amp, Heat 20 amp. 40 amp total. Incl. add. circuits for equip. to be located inside. Provide means to ground
4670	Tester, battery load	CF-CI						
4950	Shower, drench, w/ eyewash	CF-CI						
5010	Cart, battery	CF-CI						
5015	Cart, battery lift	CF-CI						
5030	Cart, parts	CF-CI						
5074	Crane, bridge, suspended, 1 ton	CF-CI	460	3	1.37HP	J-Box w/ local fused disc		Provide power within 1'-0" of end of elec. runway
5132	Crane, jib, found. mtd., 10', 2 ton	CF-CI						
5290	Dolly, drum, caster base, 600 pound	CF-CI						
5350	Forklift, electric, sit-down, 4000 lb	CF-CI	460	3	10A	J-Box w/ local fused disc.		Floor mounted battery charger. 208v and 240v optional.

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Mark #	Description	Meth	Volt (E)	Ph (E)	Load (E)	Connect (E)	Comm (C)	Remarks (Elec)
5352	Forklift, electric, walk-behind, 2000 lb	CF-CI	120	1	10A	Plug-in NEMA 5-15R		Internal battery charger
5450	Center, service, windshield	CF-CI						
5460	Hopper, self-dumping, 3/4 yard	CF-CI						
5464	Hopper, self-dumping, 2 yard	CF-CI						
5645	Lift, axle, adj, 2 post, scissor, 60,000 lb	CF-CI	460	3	10HP	J-Box w/ local fused disc.		Explosion proof components & connections in lift vault
5696	Lift, column, hydraulic, 6-set, 108,000 lb, wireless	CF-CI	120	1	20A	Plug-in NEMA 5-20R		Power for battery charger. If non-battery option, then use: 460v, 3ph, 21amp
5713	Lift, drive-on, vertical rise, surface mount, 80,000lb, 48ft	CF-CI	a)460, b)120, c)120	3	a)15HP (Surface) 20HP (Flush), b)5A, c)15A	J-Box w/ local fused disc.		a)lift, b)controls, c)lights 208v / 230v avail.
5715	Lift, drive-on, vertical rise, recessed, wet environment, 80,000lb, 48ft	CF-CI	a)460, b)120, c)120	3	a)15HP (Surface) 20HP (Flush), b)5A, c)15A	J-Box w/ local fused disc.		a)lift, b)controls, c)lights 208v / 230v avail.
5785	Pallet, containment, hazardous materials	CF-CI						
7800	Vault/receiver, farebox, mobile bin	CF-CI						

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Mark #	Description	Meth	Volt (E)	Ph (E)	Load (E)	Connect (E)	Comm (C)	Remarks (Elec)
8065	Dispenser, diesel fuel, stand type, 60 GPM	CF-CI	120	1	2A	J-Box w/ local fused disc.		Power for solenoid valves, integral to fuel management system; provide electrical ground; Class 1 Div 1 inside cabinet; Class 1 Div 2 at 20ft away and 18in high
8190	Drops, air/electric, trapeze	CF-CI	120	1	20A	J-Box w/ local fused disc.		Quadruplex receptacle
8210	Fuel management system, transit	CF-CI	1) 120 2) 120	1) 1 2) 1	1) 20A 2) 20A	J-Box w/ local fused disc.		1) Dedicated circuit for system controller 2) 2nd dedicated circuit for system controller Both Required
8245	Gantry, fuel, w/ hose & nozzle	CF-CI						
8492	Press, oil filter, pneumatic	CF-CI						
8525	Pump, air piston (ATF), 4.25", 10:1	CF-CI						Provide electrical ground per manufacturer's requirement
8566A	Pump, air piston (EO1), 4.25", 10:1	CF-CI						Provide electrical ground per manufacturer's requirement
8566B	Pump, air piston (EO2), 4.25", 10:1	CF-CI						Provide electrical ground per manufacturer's requirement
8586	Pump, diaphragm (EC)	CF-CI						Provide electrical ground per manufacturer's requirement
8740	Reel bank (ATF, EC, EO1, EO2)	CF-CI						
8936	Tank, vault, steel, fire rated, double wall, 15,000 gallons	CF-CI	1) 120 2) 120	1) 1 2) 1	1) 10A 2) 13A	1) J-box 2) J-box Provide local fused disc.		1) Alarm Console 2) Pump
8940A	Tank, storage, cube, 280 gallon (ATF)	CF-CI						

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 Electrical

Mark #	Description	Meth	Volt (E)	Ph (E)	Load (E)	Connect (E)	Comm (C)	Remarks (Elec)
8940B	Tank, storage, cube, 280 gallon (EC)	CF-CI						
8940C	Tank, storage, cube, 280 gallon (EO1)	CF-CI						
8940D	Tank, storage, cube, 280 gallon (EO2)	CF-CI						
8991	Tank, waste, 250 gal, w/ pump (WC)	CF-CI						
8992	Tank, waste, 500 gal, w/ pump (WO)	CF-CI						
9400	Handwash station, shop	CF-CI						