40% Design Development Cost Estimate

New Public Works Facility

14 Forest Road

Town of Acton, Ma

Prepared by:

TCi Construction Cost Estimating

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Prepared for:

Weston and Sampson

March 27, 2025

MAIN CONSTRUCTION COST SUMMARY

	Bid Date	Building GSF	$/sf	Estimated Construction Cost
BASE ESTIMATE		42,530	$700.49	$29,791,811
TOTAL BASE CONSTRUCTION COSTS	**4TH QTR 2025**	**42,530**	**$700.49**	**$29,791,811**

Alternates

1. Add Vehicle Wash Bay Shell	add	**$705,436**
2. Add Vehicle Wash Bay Finish & Equipment	add	**$734,207**
3. Add Precast Concrete Sound & Light Barrier Wall	add	**$710,560**
4. Add Canopy Addition to Existing Salt Shed	add	**$356,483**
5. Add Monorails	add	**$77,764**

QUALIFICATIONS

This Schematic Design cost estimate was produced from drawings prepared by Weston and Sampson and their design team dated March 5, 2024.

This estimate includes all direct construction costs, general contractor's overhead and profit and design contingency. Cost escalation assumes bid received 4th quarter 2025.

Bidding conditions are expected to be public bidding to pre-qualified general contractors, and pre-qualified sub-contractors, open specifications for materials and manufactures. The project is expected to be bid and construction start there after with one continuous phase.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

ITEMS NOT CONSIDERED IN THIS ESTIMATE

All professional fees and insurance
All Furnishings, Fixtures and Equipment not identified
Items identified in the design as Not In Contract (NIC)
Items identified in the design as by others
Special foundations (unless indicated by design engineers)
Utility company back charges, including work required off-site
Work to City streets and sidewalks, (except as noted in this estimate)
Construction or occupancy phasing or off hours' work, (except as noted in this estimate)
Off hours
Ledge & contaminated soils
Building Permit
Temporary trailer rentals
Phasing
Tariffs cost increases

		42,530
CONSTRUCTION COST SUMMARY IN CSI FORMAT	***BASE ESTIMATE***	***$/sf***
DIV. 2 DEMOLITION		
020500 Demolition	$231,120	*$5.43*
024500 Hazardous Material Abatement	$115,125	*$2.71*
DIV. 3 CONCRETE		
033000 Cast-in-Place Concrete	$1,953,476	*$45.93*
DIV. 4 MASONRY		
042000 Unit Masonry (part of 040001 FSB)	$415,060	*$9.76*
DIV. 5 METALS		
055000 Metal Fabrications (part of 050001 FSB)	$410,730	*$9.66*
DIV. 6 WOODS & PLASTICS		
061000 Rough Carpentry	$41,060	*$0.97*
064020 Interior Architectural Woodwork	$80,390	*$1.89*
DIV. 7 THERMAL & MOISTURE PROTECTION		
072100 Thermal Insulation	$169,038	*$3.97*
072700 Air Barriers & Waterproofing (part of 070001 FSB)	$132,630	*$3.12*
074600 Cement Board Siding and Trim	$0	*$0.00*
075400 Membrane Roofing (part of 070002 FSB)	$0	*$0.00*
075450 Metal Roofing System (part of 070002 FSB)	$0	*$0.00*
077200 Roof Accessories	$11,700	*$0.28*
078410 Penetration Firestopping	$12,775	*$0.30*
079200 Joint Sealants (part of 070001 FSB)	$198,952	*$4.68*
DIV. 8 DOORS & WINDOWS		
081110 Doors and Frames	$95,085	*$2.24*
083110 Access Doors and Frames	$0	*$0.00*
083310 Overhead Coiling Doors	$250,400	*$5.89*
084110 Aluminum Windows	$76,000	*$1.79*
084500 Aluminum Storefront and Curtainwall	$247,850	*$5.83*
084550 Skylights	$48,000	*$1.13*
084555 Sunshades	$65,000	*$1.53*
084600 Translucent Windows	$195,000	*$4.58*
087100 Door Hardware	$42,000	*$0.99*
088000 Glazing	$34,250	*$0.81*
089000 Louvers and Vents	$15,000	*$0.35*
DIV. 9 FINISHES		
092110 Gypsum Board Assemblies	$610,025	*$14.34*
093000 Tiling	$62,700	*$1.47*
095100 Acoustical Ceilings	$64,100	*$1.51*
096510 Resilient Flooring and Accessories	$57,000	*$1.34*
096550 Carpet	$17,160	*$0.40*
097300 Resinous flooring and base	$23,400	*$0.55*
099000 Painting and Coating (part of 090007 FSB)	$301,835	*$7.10*
DIV 10 SPECIALTIES		
101400 Signage	$13,000	*$0.31*
102800 Toilet Accessories	$12,058	*$0.28*
104400 Fire Protection Specialties	$3,000	*$0.07*
106500 Toilet Partitions	$7,750	*$0.18*
108500 Lockers	$35,000	*$0.82*
109400 Screen Partitions	$9,300	*$0.22*
109500 Fall Arrest	$25,000	*$0.59*
DIV. 11 EQUIPMENT		
113100 Appliances	$0	*$0.00*
118100 Industrial Equipment	$848,500	*$19.95*
DIV. 12 FURNISHINGS		
122110 Horizontal Louver Blinds	$18,660	*$0.44*
DIV. 13 SPECIAL CONSTRUCTION		
13100 Pre-fabricated Metal Building, Mezzanine Steel and Decking	$4,808,585	*$113.06*
13200 Pre-fabricated Building (salt shed)	$0	*$0.00*
13300 Fuel Island Equipment and Canopy	$0	*$0.00*

CONSTRUCTION COST SUMMARY IN CSI FORMAT		***BASE ESTIMATE***	***42,530*** ***$/sf***
DIV. 21 FIRE SUPPRESSION			
210000 Fire Suppression - FSB		$441,576	*$10.38*
DIV. 22 PLUMBING			
220000 Plumbing - FSB		$1,161,159	*$27.30*
DIV. 23 HVAC			
220000 HVAC - FSB		$4,519,001	*$106.25*
DIV. 26 ELECTRICAL			
260000 Electrical - FSB		$1,872,406	*$44.03*
DIV. 31 EARTHWORK			
311000 Site Clearing		$231,975	*$5.45*
312000 Earthwork		$1,111,920	*$26.14*
312500 Erosion and Sedimentation Controls		$36,000	*$0.85*
315000 Ground Improvements		$0	*$0.00*
DIV. 32 EXTERIOR IMPROVEMENTS			
321216 Asphalt Paving		$604,884	*$14.22*
321213 Portland Cement Concrete Paving		$16,800	*$0.40*
321613 Curbs and Gutters		$81,020	*$1.91*
323100 Site Improvements		$28,000	*$0.66*
329000 Landscaping		$100,000	*$2.35*
DIV. 33 UTILITIES			
331000 Site Water Distribution		$69,060	*$1.62*
333000 Sanitary Sewerage Utilities		$232,900	*$5.48*
334000 Storm Drainage		$612,045	*$14.39*
335000 Gas		$0	*$0.00*
SUBTOTAL DIRECT (TRADE) COST		*$22,876,460*	*$537.89*
GENERAL CONDITIONS & REQUIREMENTS	11%	$2,516,411	
GL INSURANCE	1.4%	$320,270	
BONDS	1.8%	$411,776	
GC - OVERHEAD & PROFIT	4%	$1,044,997	
DESIGN AND PRICING CONTINGENCY	7.5%	$2,037,744	
ESCALATION TO 4TH QUARTER 2025 BID OPENING	2%	$584,153	
TOTAL BASE CONSTRUCTION COSTS		**$29,791,811**	*$700.49*

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING						
	GROSS FLOOR AREA CALCULATION						
	Admin/Support areas			**7,630**			
	Workshops			**3,630**			
	Fleet Storage			**23,670**			
	Fleet Maintenance			**7,600**			
	Mezzanines			**8,570**			
	TOTAL GROSS FLOOR AREA (not including mezzanine)				**42,530**	*gsf*	
	A10 FOUNDATIONS						
	A1010 STANDARD FOUNDATIONS						
	Strip footings to walls						
03300	Formwork	**2,700**	sf	18.00	48,600		
03300	Re-bar	**9,480**	lbs	2.50	23,700		
03300	Concrete material	**158**	cy	190.00	30,020		
03300	Placing concrete	**158**	cy	40.00	6,320		
	Foundation walls						
03300	Formwork	**16,200**	sf	18.00	291,600		
03300	Re-bar	**30,745**	lbs	2.50	76,863		
03300	Concrete material	**473**	cy	190.00	89,870		
03300	Placing concrete	**473**	cy	40.00	18,920		
	Back up knee walls						
03300	Formwork	**13,200**	sf	18.00	237,600		
03300	Re-bar	**11,700**	lbs	2.50	29,250		
03300	Concrete material	**180**	cy	190.00	34,200		
03300	Placing concrete	**180**	cy	40.00	7,200		
	F6 - Column footings						
03300	Formwork	**816**	sf	18.00	14,688		
03300	Re-bar	**3,600**	lbs	2.50	9,000		
03300	Concrete material	**48**	cy	190.00	9,120		
03300	Placing concrete	**48**	cy	40.00	1,920		
	F8 - Column footings						
03300	Formwork	**192**	sf	18.00	3,456		
03300	Re-bar	**1,125**	lbs	2.50	2,813		
03300	Concrete material	**15**	cy	190.00	2,850		
03300	Placing concrete	**15**	cy	40.00	600		
	F10 - Column footings						
03300	Formwork	**2,160**	sf	18.00	38,880		
03300	Re-bar	**15,750**	lbs	2.50	39,375		
03300	Concrete material	**210**	cy	190.00	39,900		
03300	Placing concrete	**210**	cy	40.00	8,400		
	F14 - Column footings						
03300	Formwork	**1,680**	sf	18.00	30,240		
03300	Re-bar	**17,175**	lbs	2.50	42,938		
03300	Concrete material	**229**	cy	190.00	43,510		
03300	Placing concrete	**229**	cy	40.00	9,160		
	Piers						
03300	Formwork	**1,280**	sf	18.00	23,040		
03300	Re-bar	**1,875**	lbs	2.50	4,688		
03300	Concrete material	**25**	cy	190.00	4,750		
03300	Placing concrete	**25**	cy	40.00	1,000		
	SUBTOTAL					1,224,471	

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING							
	A1030	LOWEST FLOOR CONSTRUCTION						
		8" Slab on grade						
03300		Vapor barrier	**34,900**	sf	2.00	69,800		
03300		Reinforcing	**38,390**	sf	2.50	95,975		
03300		Concrete - 8" thick	**923**	cy	190.00	175,370		
03300		Placing concrete	**923**	cy	45.00	41,535		
03300		Finishing and curing concrete	**34,900**	sf	1.65	57,585		
03300		Control joints - saw cut	**34,900**	sf	0.50	17,450		
		6" Slab on grade						
03300		Vapor barrier	**7,630**	sf	2.00	15,260		
03300		Reinforcing	**8,775**	sf	1.50	13,163		
03300		Concrete - 6" thick	**148**	cy	190.00	28,120		
03300		Placing concrete	**148**	cy	45.00	6,660		
03300		Finishing and curing concrete	**7,630**	sf	1.65	12,590		
03300		Control joints - saw cut	**7,630**	sf	0.50	3,815		
		Miscellaneous						
07210		R10 - 25 PSI Rigid insulation at 4' horizontal and 2' vertical	**4,100**	sf	5.00	20,500		
07210		R10 - 60 PSI Rigid insulation at 4' horizontal and 2' vertical	**4,000**	sf	5.50	22,000		
07210		R115 - 60 PSI rigid insulation under slab	**7,400**	sf	6.00	44,400		
07270		Damp proofing of foundation walls	**8,100**	sf	4.00	32,400		
03300		4' haunch under CM walls	**80**	cy	350.00	28,000		
03300		Pits, curbs, equipment Pads and supports	**1**	ls	15,000.00	15,000		
		SUBTOTAL					699,623	
		TOTAL - FOUNDATIONS						***$1,924,094***
	B10	***SUPERSTRUCTURE***						
	B1010	**FLOOR CONSTRUCTION**						
		Mezzanine Floor Structure - Steel:						
13100		W columns, beam, bracing, HSS tubes, L angles and Channels	**51**	tons	5,800.00	295,800		
		Mezzanine Floor Structure						
13100		Floor deck - 1 1/2'' deck	**8,570**	sf	5.50	47,135		
03300		WWF reinforcement	**9,856**	sf	2.00	19,712		
03300		2" Concrete Fill to metal deck	**114**	cy	195.00	22,230		
03300		Place and finish concrete	**8,570**	sf	2.00	17,140		
		Miscellaneous						
05500		Misc metals - overall added cost for FSB pricing	**51,100**	sf	4.00	204,400		
07841		Firestopping	**51,100**	sf	0.25	12,775		
		SUBTOTAL					619,192	
	B1020	**ROOF CONSTRUCTION**						
		Pre-fabricated Structure (includes steel, insulated metal panels walls and roof) :						
13100		Main Building - Prefabricated metal building package (galv steel, metal panels, metal roof, gutters, downspouts and snow guards)	**42,530**	sf	105.00	4,465,650		
13100		Open Canopy - Prefabricated metal building package (galv steel, metal panels, metal roof, gutters, downspouts and snow guards)				see alt 4		
		Miscellaneous						
05500		Overhead door openings	**10**	ea	1,500.00	15,000		
05500		Window openings	**380**	sf	12.00	4,560		
05500		Translucent window openings	**1,560**	sf	12.00	18,720		
		SUBTOTAL					4,503,930	
		TOTAL - SUPERSTRUCTURE						***$5,123,122***

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING							
	B20	*EXTERIOR CLOSURE*						
	B2010	**EXTERIOR WALLS**						
		Admin exterior wall back-up						
09211		6" Metal stud	**3,290**	sf	18.00	59,220		
09211		5/8" int gwb	**3,290**	sf	8.00	26,320		
09900		Paint	**2,961**	sf	2.00	5,922		
		CMU veneer						
04200		CMU veneer	**3,190**	sf	50.00	159,500		
07270		Air barrier	**3,190**	sf	10.00	31,900		
07210		Rigid insulation	**3,190**	sf	6.00	19,140		
		SUBTOTAL					302,002	
	B2020	**WINDOWS**						
		Storefront and windows						
84600		Translucent windows	**1,560**	sf	125.00	195,000		
84110		W - Aluminum windows (triple glazed)	**380**	sf	200.00	76,000		
84500		CW- Aluminum windows (triple glazed)	**784**	sf	200.00	156,800		
84555		Cantilevered Sunshades	**130**	lf	500.00	65,000		
08900		Louvers	**1**	ls	15,000.00	15,000		
07920		Backer rod & double sealant	**1,220**	lf	12.00	14,640		
06100		Wood blocking at openings	**1,220**	lf	10.00	12,200		
07920		Waterproofing - overall added cost for FSB pricing	**51,100**	sf	3.50	178,850		
		SUBTOTAL					713,490	
	B2030	**EXTERIOR DOORS**						
		Overhead doors						
08331		18x16 OHD	**2**	ea	28,800.00	57,600		
08331		16x16 OHD	**6**	ea	25,600.00	153,600		
08331		14x14 OHD	**2**	ea	19,600.00	39,200		
		Man Doors						
08111		G HM doors with half light/HMF-3 frame 3x7 HM	**8**	ea	2,500.00	20,000		
08111		F HM doors/HMF-3 frame 3x7 HM	**2**	ea	2,200.00	4,400		
84500		S1/Al 3x7 - Alum entries	**4**	ea	5,800.00	23,200		
08710		Hardware	**14**	lvs	650.00	9,100		
		Misc						
09900		Paint	**10**	ea	200.00	2,000		
07920		Backer rod & double sealant	**336**	lf	12.00	4,032		
06100		Wood blocking at openings	**336**	lf	10.00	3,360		
		SUBTOTAL					316,492	
		TOTAL - EXTERIOR CLOSURE						***$1,331,984***
	B30	*ROOFING*						
	B3010	**ROOF COVERINGS**						
		All roofing, gutters, downspouts and snow guards included with Prefabricated metal building						
84550		Skylights	**8**	ea	6,000.00	48,000		
		SUBTOTAL					48,000	
	B3020	**ROOF OPENINGS**						
07720		Roof hatch and ladder	**1**	ea	6,750.00	6,750		
07720		Roof ladders	**3**	ea	1,650.00	4,950		
10950		Fall arrest system allowance	**1**	ls	25,000.00	25,000		
		SUBTOTAL					36,700	
		TOTAL - ROOFING						***$84,700***

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING							
	C10	*INTERIOR CONSTRUCTION*						
	C1010	**PARTITIONS**						
09211		Type 1B GWB partition	**1,740**	sf	12.00	20,880		
09211		Type 1D GWB partition	**840**	sf	12.00	10,080		
09211		Type 2A/B GWB partition	**2,280**	sf	14.00	31,920		
09211		Type 3A GWB partition	**9,446**	sf	20.00	188,920		
09211		Type 3B GWB partition	**2,520**	sf	21.00	52,920		
09211		4B 2H GWB rated partition	**400**	sf	24.00	9,600		
04200		8A 1HR walls	**1,120**	sf	26.00	29,120		
04200		Type 8A - 8" CMU walls	**4,584**	sf	33.00	151,272		
		Separation wall between shops						
04200		8" CMU walls to 13' between shops	**1,066**	sf	33.00	35,178		
09211		6A - 6" lgmf and gwb walls above to deck between shops	**1,230**	sf	18.00	22,140		
		Separation walls F1 (line D)						
09211		8" lgmf with gwb each side - above knee wall 5'-4" to deck (knee wall w/ concrete)	**5,500**	sf	24.00	132,000		
03300		Concrete knee wall	**52**	cy	850.00	44,200		
07210		3" closed cell spray foam	**5,500**	sf	10.00	55,000		
04200		4" CMU behind knee wall	**1,333**	sf	30.00	39,990		
07210		2" rigid behind knee wall	**1,333**	sf	6.00	7,998		
07270		AVB	**6,833**	sf	10.00	68,330		
		Misc						
06100		Rough blocking	**1,500**	lf	10.00	15,000		
10940		Wire mesh partitions and doors	**62**	lf	150.00	9,300		
		SUBTOTAL					923,848	
	C1020	**INTERIOR DOORS**						
		Frames						
08111		HMF-1 single	**13**	ea	720.00	9,360		
08111		HMF-1 double	**7**	ea	800.00	5,600		
08111		HMF-2 single	**1**	ea	750.00	750		
08111		HMF-2 double	**2**	ea	825.00	1,650		
08111		HMF-3 single	**5**	ea	900.00	4,500		
08111		HMF-4 single	**8**	ea	1,100.00	8,800		
08111		HMF-5 single	**3**	ea	1,200.00	3,600		
		Doors						
08111		F - WD	**19**	ea	775.00	14,725		
08111		G - WD	**2**	ea	800.00	1,600		
08111		FG - WD	**4**	ea	825.00	3,300		
08111		F - HM	**9**	ea	740.00	6,660		
08111		G - HM	**13**	ea	780.00	10,140		
		Hardware						
08710		Hardware	**47**	lvs	700.00	32,900		
		Misc						
08800		Glazing to doors	**285**	sf	50.00	14,250		
08800		Glazing to frames	**400**	sf	50.00	20,000		
84500		AS1 interior storefront	**1**	ea	24,300.00	24,300		
84500		AS2 interior storefront	**1**	ea	24,300.00	24,300		
84500		AS3 interior storefront	**1**	ea	5,250.00	5,250		
84500		Interior storefront doors	**2**	ea	4,500.00	9,000		
09900		Paint HM frames	**13**	ea	200.00	2,600		
07920		Sealants & caulking	**13**	ea	110.00	1,430		
12211		Interior blinds	**6**	ea	200.00	1,200		
		SUBTOTAL					205,915	

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING						
	C1030 SPECIALTIES / MILLWORK						
06402	Restroom vanities	**14**	lf	435.00	6,090		
06402	Window sills	**54**	lf	65.00	3,510		
06402	Multi-purpose back walls cabinets, counter and shelving	**18**	lf	650.00	11,700		
06402	Multipurpose window counter	**22**	lf	300.00	6,600		
06402	Admin Kitchette base/wall cabinets and counter	**15**	lf	650.00	9,750		
06402	Workforce alcove base, wall cabinet and counter	**9**	lf	650.00	5,850		
06402	Copy/Mail base/wall cabinets and counter	**10**	lf	650.00	6,500		
06402	Layout base/wall cabinets and counter	**10**	lf	650.00	6,500		
06402	Admin office base/wall cabinets and counter	**14**	lf	650.00	9,100		
06402	Large conf base cabinet/counter	**13**	lf	450.00	5,850		
06402	Supply closet shelving	**14**	lf	210.00	2,940		
06402	Vestibule service counter	**10**	lf	300.00	3,000		
06402	Admin service counter	**10**	lf	300.00	3,000		
84500	Lobby sliding window unit	**40**	sf	125.00	5,000		
10140	Tack/white boards	**2**	ea	500.00	1,000		
	Lockers						
10850	Large Lockers	**31**	ea	950.00	29,450		
10850	Lockers benches	**3**	ea	750.00	2,250		
10850	ADA benches	**2**	ea	1,650.00	3,300		
	Restrooms						
10650	Toilet partitions HC	**2**	ea	1,600.00	3,200		
10650	Toilet partitions Reg	**3**	ea	1,300.00	3,900		
10650	Toilet partitions urinal screen	**1**	ea	650.00	650		
10280	Soap disp	**8**	ea	30.00	240		
10280	Mirror	**8**	ea	285.00	2,280		
10280	Robe hook	**20**	ea	30.00	600		
10280	Grab bar	**10**	ea	150.00	1,500		
10280	Shower seat and bars	**3**	ea	285.00	855		
10280	Wet gear hooks	**14**	ea	65.00	910		
10280	SRWR	**4**	ea	250.00	1,000		
10280	TTD	**7**	ea	110.00	770		
10280	SND	**4**	ea	165.00	660		
10280	PTD	**5**	ea	330.00	1,650		
10280	Hooks	**12**	ea	40.00	480		
10280	Shower curtain and rods	**3**	ea	276.00	828		
10280	Jan closet MB	**1**	ea	285.00	285		
	Miscellaneous						
06100	Plywood backers, locker bases and misc	**1,500**	sf	5.00	7,500		
10440	Fire extinguisher cabinets	**12**	ea	250.00	3,000		
10140	Town seal	**1**	ea	500.00	500		
10140	Cast alum letters - entry	**32**	ea	200.00	6,400		
10140	Cast alum letters - OHDs	**8**	ea	200.00	1,600		
10140	Code signage	**1**	ls	3,500.00	3,500		
	SUBTOTAL					163,698	
	TOTAL - INTERIOR CONSTRUCTION						***$1,293,461***

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING							
	C20	STAIRCASES						
	C2010	STAIR CONSTRUCTION						
05500		Mezzanine Stairs	5	ea	17,500.00	87,500		
05500		Mezzanine 4 step	1	ea	3,500.00	3,500		
05500		Mezzanine railings	240	lf	185.00	44,400		
05500		Gates	3	ea	1,250.00	3,750		
05500		Ladders	2	ea	1,250.00	2,500		
03300		Concrete material in pan infill	5	ea	1,200.00	6,000		
		SUBTOTAL					147,650	
	C2020	STAIR FINISHES						
09900		Paint to mezzanine stairs	5	ea	3,850.00	19,250		
09900		Paint to mezzanine rails/gates	240	lf	35.00	8,400		
		SUBTOTAL					27,650	
		TOTAL - STAIRCASES						$175,300
	C30	INTERIOR FINISHES						
	C3010	WALL FINISHES						
09900		Paint to GWB	27,000	sf	1.50	40,500		
09900		Paint to interior CMU	10,234	sf	2.50	25,585		
09300		Wall tile	1,500	sf	33.00	49,500		
06100		FRP to janitor closet	200	sf	15.00	3,000		
		SUBTOTAL					118,585	
	C3020	FLOOR FINISHES						
09651		LVT	3,300	sf	14.00	46,200		
09665		Carpet tile	1,860	sf	6.00	11,160		
09730		RF - Resinous Flooring	1,300	sf	18.00	23,400		
09900		SC - Sealed Concrete	52,810	sf	1.50	79,215		
09665		Walk off mats	2	ea	3,000.00	6,000		
09300		Tile	400	sf	33.00	13,200		
09651		Rubber base	1,800	lf	6.00	10,800		
09900		Line stripping	850	sf	5.00	4,250		
		SUBTOTAL					194,225	
	C3030	CEILING FINISHES						
09510		A1 - ACT ceilings; 2' x 2'	5,200	sf	10.00	52,000		
09510		A2 - ACT ceilings; 2' x 2'	1,100	sf	11.00	12,100		
09211		G1 - GWB ceilings	400	sf	15.00	6,000		
09211		G2 - GWB ceilings	500	sf	18.00	9,000		
09211		L gwb soffits	300	lf	95.00	28,500		
09211		P1 ceilings	225	sf	45.00	10,125		
09211		Drop gwb soffits	40	lf	60.00	2,400		
09900		Paint to GWB ceilings and soffits	1,900	sf	2.00	3,800		
09900		Exposed prefab metal columns and beams	44,125	sf	2.50	110,313		
		SUBTOTAL					234,238	
		TOTAL - INTERIOR FINISHES						547,048
	D20	PLUMBING						
	D20	PLUMBING, GENERALLY						
		Equipment						
220000		Water Meter	1	ea	2,950.00	2,950		
220000		Backflow Preventor Assembly	1	ea	6,045.00	6,045		
220000		Water Pressure Regulator	1	ea	1,170.00	1,170		
220000		Heat Pump Water Heaters - EWH 1 & 2	2	ea	15,112.50	30,225		
220000		Hot Water Storage Tank - ST 1	1	ea	7,020.00	7,020		
220000		Recirc Pump	1	ea	1,235.00	1,235		
220000		Expansion Tank	1	ea	455.00	455		
220000		Thermostatic Mixing Valve	2	ea	2,710.50	5,421		
220000		Oil/Water Seperator	1	ea	11,830.00	11,830		
220000		Air Compressor w/ Dryer	1	ea	31,083.00	31,083		
220000		Trap Primers	9	ea	425.00	3,825		
220000		Make Up Water Station	1	ea	1,140.00	1,140		
220000		Plumbing Specialties	1	ls	11,398.70	11,399		
220000		Equipment Connections	22	ea	845.00	18,590		

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING						
	Fixtures						
220000	Water Closets	**8**	ea	1,413.50	11,308		
220000	Urinal	**2**	ea	1,216.54	2,433		
220000	Lavatory	**8**	ea	1,292.50	10,340		
220000	Showers	**3**	ea	2,035.00	6,105		
220000	Sink - Mop	**1**	ea	1,292.50	1,293		
220000	Kitchen Sink	**2**	ea	1,527.54	3,055		
220000	Kitchen Sink Garbage Disposal	**2**	ea	780.00	1,560		
220000	Laundry Sink	**1**	ea	1,560.00	1,560		
220000	Shop Sink	**1**	ea	4,810.00	4,810		
220000	Emergency Shower	**1**	ea	3,918.75	3,919		
220000	Drinking Fountian	**1**	ea	2,887.50	2,888		
220000	Wall Hydrant	**6**	ea	357.50	2,145		
220000	Hose Bibbs	**2**	ea	258.50	517		
220000	Hose Stations	**3**	ea	884.00	2,652		
220000	Ice Machine Box	**1**	ea	181.50	182		
220000	Outlet Box	**1**	ea	287.64	288		
220000	Compressed Air Outlets	**10**	ea	294.87	2,949		
220000	Floor Drains	**23**	ea	654.50	15,054		
220000	Floor Sinks	**3**	ea	808.50	2,426		
220000	(13) Trench Drains	**200**	lf	158.50	31,700		
220000	Trench Drain Catch Basin	**6**	ea	1,365.00	8,190		
220000	Clean Outs	**12**	ea	262.00	3,144		
220000	Vent Thru Roof	**24**	ea	290.00	6,960		
220000	Hose Connection	**5**	ea	475.00	2,375		
220000	Compressed Air Equipment Connections	**5**	ea	475.00	2,375		
220000	Fixture Rough Ins	**39**	ea	624.00	24,336		
	Piping						
220000	Water Service	**25**	lf	168.32	4,208		
220000	Water - 1/2"	**1,120**	lf	39.00	43,680		
220000	Water - 3/4"	**980**	lf	42.25	41,405		
220000	Water - 1"	**490**	lf	48.75	23,888		
220000	Water - 1 1/4"	**70**	lf	53.95	3,777		
220000	Water - 1 1/2"	**252**	lf	59.80	15,070		
220000	Water - 2"	**252**	lf	68.25	17,199		
220000	Water - 3"	**350**	lf	97.50	34,125		
220000	UGSan - 2"	**14**	lf	94.25	1,320		
220000	UGSan - 3"	**140**	lf	123.50	17,290		
220000	UGSan - 4"	**526**	lf	130.00	68,380		
220000	San - 2"	**73**	lf	94.25	6,880		
220000	San - 3"	**76**	lf	123.50	9,386		
220000	San - 4"	**154**	lf	130.00	20,020		
220000	UGVent- 2"	**25**	lf	94.25	2,356		
220000	UGVent - 3"	**50**	lf	123.50	6,175		
220000	UGVent - 4"	**14**	lf	130.00	1,820		
220000	UGOil Vent - 2 1/2"	**350**	lf	117.65	41,178		
220000	UGOil Vent - 3"	**151**	lf	133.90	20,219		
220000	UGOil Vent - 4"	**375**	lf	140.40	52,650		
220000	Oil Vent - 2 1/2"	**118**	lf	117.65	13,883		
220000	Oil Vent - 3"	**112**	lf	133.90	14,997		
220000	Oil Vent - 4"	**105**	lf	140.40	14,742		
220000	Oil Vent - 6"	**56**	lf	166.40	9,318		
220000	UG Oil Waste - 3"	**14**	lf	133.90	1,875		
220000	UG Oil Waste - 4"	**1,009**	lf	140.40	141,664		
220000	UG Oil Waste - 6"	**560**	lf	166.40	93,184		
220000	Compressed Air- 1/2"	**49**	lf	41.60	2,038		
220000	Compressed Air - 3/4"	**1,120**	lf	45.50	50,960		
220000	Compressed Air - 1"	**260**	lf	51.35	13,351		
220000	Compressed Air - 1 1/2"	**251**	lf	58.50	14,684		
220000	Compressed Air - 2"	**133**	lf	71.50	9,510		
220000	Insulation	**3,539**	lf	13.98	49,475		
220000	Reduction for no design & market	**(1)**	ls	150,000.00	(150,000)		
	Trade Requirements						
220000	Project Supervision	**800**	hrs	130.00	104,000		
220000	Coordination	**400**	hrs	130.00	52,000		
	SUBTOTAL					1,153,659	
	TOTAL - PLUMBING						***$1,153,659***

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING						
	D30 HVAC						
	D30 HVAC						
	Equipment						
230000	(9) Ground Source Geothermal Heat Pumps - GSHP 1 thru 3	**125**	tons	1,982.50	247,813		
230000	Geothermal Heat Exchanger - HX 1	**1**	ea	14,040.00	14,040		
230000	Geothermal Pumps - P 1A & B	**2**	ea	33,540.00	67,080		
230000	VFD - Geothermal Pumps P1 A & B	**2**	ea	26,520.00	53,040		
230000	Primary Loop Pumps - P 2A & B	**2**	ea	3,770.00	7,540		
230000	VFD - Primary Loop Pumps - P 2A & B	**2**	ea	2,080.00	4,160		
230000	Secondary Loop Pumps - P 3A & B	**2**	ea	3,282.50	6,565		
230000	VFD - Secondary Loop Pumps - P 3A & B	**2**	ea	3,120.00	6,240		
230000	Geothermal Pumps - P 4A & B	**2**	ea	5,915.00	11,830		
230000	VFD - Geothermal Pumps - P 4A & B	**2**	ea	3,120.00	6,240		
230000	Air Seperator - Geothermal	**1**	ea	5,460.00	5,460		
230000	Expansion Tank - Geothermal	**1**	ea	8,053.50	8,054		
230000	Buffer Tank - Geothermal	**1**	ea	17,290.00	17,290		
230000	Bypass Chemical Shot Feeder - Geothermal	**1**	ea	2,750.00	2,750		
230000	Glycol Feeder - Geothermal	**1**	ea	10,465.00	10,465		
230000	Glycol - Geothermal	**220**	gal	33.50	7,370		
230000	Air Seperator - Dual Temp Water	**1**	ea	5,460.00	5,460		
230000	Expansion Tank - Dual Temp Water	**1**	ea	8,053.50	8,054		
230000	Bypass Chemical Feeder - Dual Temp Water	**1**	ea	2,750.00	2,750		
230000	Radiant Manifold - Fleet Maintenance	**6**	ea	5,070.00	30,420		
230000	Radiant Floor Coverage - Fleet Maintenance Bay	**7,600**	sf	20.00	152,000		
230000	(1) Energy Recovery Unit - ERU 1	**2,500**	cfm	9.25	23,125		
230000	(3) Heat Recovery Unit - HRU 1, 2, & 3	**7,000**	cfm	14.50	101,500		
230000	(1) Energy Recovery Ventilator - ERV 1	**1,090**	cfm	8.50	9,265		
230000	(1) Heating & Ventilation - H&V 1	**2,500**	cfm	5.00	12,500		
230000	Gravity Ventilators	**7**	ea	5,785.00	40,495		
230000	(10) Louvers & Dampers - Outside & Exhaust	**115**	sf	205.00	23,575		
230000	Ductless Spelt AC - IDF	**1**	ea	3,185.00	3,185		
230000	Exhaust Fan - EF 1	**1**	ea	4,420.00	4,420		
230000	Exhaust Fan - EF 2 & 3	**2**	ea	5,070.00	10,140		
230000	Exhaust Fan - EF 4A, B, & C	**3**	ea	6,565.00	19,695		
230000	Exhaust Fan - EF 4D & E	**2**	ea	4,244.50	8,489		
230000	Ceiling Fans	**7**	ea	7,865.00	55,055		
230000	Car-Mon Fans - VEF	**7**	ea	3,975.00	27,825		
230000	Polypotent Hose Reels	**7**	ea	792.00	5,544		
230000	RGDs	**80**	ea	292.00	23,360		
	Geothermal Well Field						
230000	Geothermal Wells	**30**	ea	15,000.00	450,000		
230000	Geo-Manifold & Vaults	**2**	ea	16,510.00	33,020		
230000	Geothermal Horizontal Piping to Manifold	**1,140**	lf	49.40	56,316		
230000	Geothermal Horizontal Piping from Manifold to Geo Mechanical Room	**800**	lf	110.50	88,400		
230000	Sediment and Water Handling	**1**	ls	50,000.00	50,000		
	Sheet Metal						
230000	Galvanized	**60,000**	lbs.	17.35	1,041,000		
230000	Sheet Metal Specialties	**1**	ls	112,775.00	112,775		
230000	Equipment Connections	**1**	ls	14,040.00	14,040		
	Piping						
230000	Dual Temp Water from GSHP to Equipment	**3,200**	lf	123.50	395,200		
230000	Refrigerant Line Sets	**1**	ea	1,332.50	1,333		
230000	Condensate	**240**	lf	42.90	10,296		
230000	Geothermal Piping at GSHP Mechanical Room	**200**	lf	49.40	9,880		
230000	Dual Temp Specialties	**1**	ls	39,520.00	39,520		
230000	Refrigerant Specialties	**1**	ls	333.25	333		
230000	Geothermal Specialties	**1**	ls	2,470.00	2,470		
230000	Equipment Connections	**1**	ls	18,070.00	18,070		
	Insulation						
230000	Sheet Metal - Galvi	**44,200**	sf	4.35	192,270		
230000	Piping	**3,440**	lf	19.85	68,284		

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING						
	Controls						
230000	ATC	**51,100**	sf	7.50	383,250		
230000	CO2/NO2 Monitoring	**51,100**	sf	3.00	153,300		
230000	BMS Network	**1**	ls	30,700.00	30,700		
230000	Network Integration	**1**	ls	10,150.00	10,150		
	Commissioning						
230000	Start Up	**320**	hrs	130.00	41,600		
230000	Testing, Adjusting, & Balancing	**400**	hrs	135.00	54,000		
230000	3rd Party C Assist	**240**	hrs	140.00	33,600		
	Trade Requirements						
230000	Project Supervision	**800**	hrs	130.00	104,000		
230000	Coordination	**400**	hrs	130.00	52,000		
230000	Crane	**1**	ls	12,500.00	12,500		
230000	Rigging	**80**	hrs	130.00	10,400		
	SUBTOTAL					4,511,501	
	TOTAL - HVAC						***$4,511,501***
	D40 FIRE PROTECTION						
	D40 FIRE PROTECTION						
210000	FP service equipment, valves, compressors and misc	**1**	ls	20,000.00	20,000		
210000	Sprinkler heads	**568**	ea	150.00	85,200		
210000	Branch sprinkler piping with fittings & hangers	**6,816**	lf	36.00	245,376		
210000	Main sprinkler piping with fittings & hangers	**1,200**	lf	55.00	66,000		
210000	Hydraulic calculations, coordination and testing	**1**	ls	25,000.00	25,000		
	SUBTOTAL					441,576	
	TOTAL - FIRE PROTECTION						***$441,576***
	D50 ELECTRICAL						
	D50 ELECTRICAL						
	Light Fixtures						
260000	Light Fixtures	**51,100**	sf	7.00	357,700		
	Branch Circuitry						
260000	Branch Circuitry	**42,530**	sf	4.50	191,385		
260000	Lighting Control Devices	**42,530**	sf	1.00	42,530		
260000	Power Wiring Devices	**42,530**	sf	1.75	74,428		
	Power Circuitry						
260000	Motor Feeders	**42,530**	sf	3.00	127,590		
	Power Distribution						
260000	3/4" Met, 4#10	**50**	lf	12.32	616		
260000	1 1/4" Met, 4#3	**10**	lf	28.06	281		
260000	1 1/2" Met, 4#1	**40**	lf	36.63	1,465		
260000	2" Met, 4 3/0	**30**	lf	52.75	1,583		
260000	2 1/2" Met, 4 250Mcm	**10**	lf	68.88	689		
260000	4" Met, 4 500 Mm	**10**	lf	118.80	1,188		
260000	4" Met, 4 600 Mm	**100**	lf	141.17	14,117		
260000	4" Rigid, 4 600 Mm	**40**	lf	178.51	7,140		
260000	1 1/2" Met, future PV	**200**	lf	15.55	3,110		
260000	3" Met, future PV	**200**	lf	22.70	4,540		
260000	4" Met, future PV	**100**	lf	28.73	2,873		
260000	PV Power Pillbox, WP	**2**	ea	456.00	912		
260000	PV Comm Pillbox, WP	**2**	ea	264.00	528		
	Lightning Protection & Grounding						
260000	Lightning Protection				NIC		
260000	Service Grounding	**1**	ls	3,840.00	3,840		
260000	MDF Grounding	**1**	ls	1,440.00	1,440		

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING						
	Power Equipment						
260000	100 Amp Panel Board	1	ea	4,276.80	4,277		
260000	225 Amp Panel Board, 60P	1	ea	8,720.40	8,720		
260000	400 Amp Panel Board, 2-Section	1	ea	16,560.00	16,560		
260000	800 Amp Main Switchboard	1	ls	36,000.00	36,000		
260000	Current Monitor	3	ea	2,280.00	6,840		
260000	Lighting Control Panel - Allow	1	ea	5,328.00	5,328		
260000	SPD @ MDB	1	ea	2,688.00	2,688		
260000	30 Kav Transformer	1	ea	6,768.00	6,768		
260000	75 Kav Transformer	1	ea	10,008.00	10,008		
260000	112 Kav Transformer	1	ea	11,520.00	11,520		
260000	800 Amp CT Cabinet	1	ea	7,452.00	7,452		
260000	800 Amp Service Disconnect	2	ea	11,652.00	23,304		
260000	600 Amp Service Disconnect EG	1	ea	8,739.00	8,739		
260000	Meter Pan	1	ea	588.00	588		
260000	300 Kw Emerg Generator, WP Encl	1	ea	131,880.00	131,880		
260000	Auto transfer SW 800A	1	ea	20,995.20	20,995		
260000	EG Enunciator	1	ea	1,392.00	1,392		
260000	EG Junk Box	3	ea	108.00	324		
260000	EPO Pushbutton	2	ea	192.00	384		
260000	600 Amp Encl Cut Brkr	2	ea	7,020.00	14,040		
260000	Motor Disconnects	42,530	sf	2.00	85,060		
	Systems						
260000	Fire Alarm System	51,100	sf	3.50	178,850		
260000	BDA Allowance	1	ls	40,000.00	40,000		
260000	Telecommunications System	42,530	sf	1.00	42,530		
260000	Security Access Control System	42,530	sf	2.00	85,060		
260000	CCTV Security System	42,530	sf	1.00	42,530		
260000	Sound/PA/Intercom System	42,530	sf	1.00	42,530		
260000	A/V System Roughen Allowance				NIC		
	Misc						
260000	Temp Power and Lighting	1	ls	25,000.00	25,000		
260000	Startup, Testing, Commissioning	1	ls	20,000.00	20,000		
	Sitework Electrical						
	Site Lighting						
260000	Type SL1 Light Pole w/ 1-Fixt	7	ea	3,552.00	24,864		
260000	Type SL6 Flagpole Light	3	ea	504.00	1,512		
260000	1" PVC, 3#8, #10 UG	790	lf	10.34	8,169		
260000	#10 Wire in Poles	630	lf	1.14	718		
260000	Site Lighting Controls	1	ls	3,552.00	3,552		
	EV Charging Stations						
260000	EV Charging Station	4	ea	5,376.00	21,504		
260000	1" PVC, 3#8, #10 UG	1,000	lf	10.34	10,340		
	Site Utilities						
260000	Utility Pole Riser	1	ls	3,552.00	3,552		
260000	4" PVC CDT UG (Pri)	280	lf	17.09	4,785		
260000	Utility Transformer Pad	1	ls	3,552.00	3,552		
260000	4" PVC, 4 600 Mm UG (Sec)	150	lf	130.32	19,548		
260000	4" PVC CDT UG (Spare)	50	lf	17.06	853		
260000	3" PVC, 4 350MCM UG	180	lf	75.19	13,534		
260000	1" PVC, EG Controls, 120v, UG	270	lf	9.44	2,549		
	Telecommunications						
260000	Telecomm Utility Riser	1	ls	3,552.00	3,552		
260000	4" PVC (Tel, empty)	800	lf	17.09	13,672		
260000	1 1/4" Innerduct	600	lf	3.24	1,944		
	Misc						
260000	Temp Power	1	ls	4,680.00	4,680		
260000	Misc Site Demo	1	ls	2,304.00	2,304		
260000	Misc Eqpt Rentals	1	ls	2,400.00	2,400		
	SUBTOTAL					1,864,906	
	TOTAL - ELECTRICAL						***$1,864,906***

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING						
	E20 FURNISHINGS						
	E2010 FIXED FURNISHINGS						
12211	Horizontal Louver Blinds/Blackout	**1,164**	sf	15.00	17,460		
11310	Kitchen appliances				by owner		
	SUBTOTAL					$17,460	
	E2020 MOVABLE FURNISHINGS						
	All movable furnishings to be provided and installed by owner					NIC	
	SUBTOTAL						
	TOTAL - FURNISHINGS						***$17,460***
	F10 INDUSTRIAL EQUIPMENT						
	MAINTENANCE						
11810	MA-1 5 Ton Bridge Crane 1 N 14 22 13	**1**	ea	185,000.00	185,000		
11810	MB-1 70,000lb. Two-Post Inground Lift 1 N 14 45 00	**1**	ea	195,000.00	195,000		
11810	MB-1A Inground Lift Control Console 1 N 14 45 00	**1**	ea		ink above		
11810	MB-2 6-Post Mobile Column Lift 6 N 14 45 00	**6**	ea	18,500.00	111,000		
11810	MB-3 20,000lb. Two Post Lift 1 N 14 45 00	**1**	ea	38,000.00	38,000		
11810	MB-4 10,000lb. Two Post Asymmetric Lift 1 N 14 45 00	**1**	ea	20,000.00	20,000		
11810	Fluid distribution system	**1**	ls	125,000.00	125,000		
11810	MC-1 5-Gallon Bucket Shelving 2 N 11 11 29	**2**	ea		ink above		
11810	MC-2 600-Gallon Compartment Tank (New Fluids) 1 N 11 11 29	**1**	ea		ink above		
11810	MC-3 500-Gallon Waste Oil Tank 1 N 11 11 29	**1**	ea		ink above		
11810	MC-4A Fluid Reel Bank 1 N 11 11 29	**1**	ea		ink above		
11810	MC-4B Fluid Reel Bank 1 N 11 11 29	**1**	ea		ink above		
11810	MC-5 Wall Mounted Lube Pumps 5 N 11 11 29	**5**	ea		ink above		
11810	MC-6 Low Profile Truck Caddy 1 N 11 11 29	**1**	ea		ink above		
11810	MC-7 Waste Oil Caddy 3 N 11 11 29	**3**	ea		ink above		
11810	MC-8 Waste Oil Pump out System 1 N 11 11 29	**1**	ea		ink above		
11810	MC-9 55-Gallon Fluid Drum (WWF) 1 N 11 11 29	**1**	ea		ink above		
11810	MC-10 Oil Filter Drain Box 1 N 11 11 29	**1**	ea		ink above		
11810	MC-11 55-Gallon Fluid Drum w/ Hand Pump (Coolant) 1 N 11 11 29	**1**	ea		ink above		
11810	MC-12 55-Gallon Fluid Drum w/ Hand Pump (ATF) 1 N 11 11 29	**1**	ea		ink above		
11810	MC-13 Lube Trolley (Grease) 1 N 11 11 29	**1**	ea		ink above		
11810	MC-14A Lube Trolley (Gear Oil) 1 N 11 11 29	**1**	ea		ink above		
11810	MC-14B Lube Trolley (5W-30 Diesel) 1 N 11 11 29	**1**	ea		ink above		
11810	MC-14C Lube Trolley (15W-40) 1 N 11 11 29	**1**	ea		ink above		
11810	MC-15 Fluid Storage Room Sump Alarm 1 N 11 11 29	**1**	ea		ink above		
11810	MD-1 Steel Workbench 4 N 12 40 00	**4**	ea	1,200.00	4,800		
11810	MD-2 Steel Work Bench w/ Elec. Shelf 2 N 12 40 00	**2**	ea	1,500.00	3,000		
11810	MD-4 Transmission Teardown Workbench 1 N 12 40 00	**1**	ea	1,600.00	1,600		
11810	MD-5 Grated Welding Bench 1 N 12 40 00	**1**	ea	1,600.00	1,600		
11810	MF-1 Welder & Wire Feeder 1 ERO N/A	**ERO**					
11810	MF-2 Multiprocessor Welder 1 ERO N/A	**ERO**					
11810	MF-3 Multipurpose Welder 1 N 12 40 00	**1**	ea	5,000.00	5,000		
11810	MF-4 Portable Weld Fume Extractor 1 N 12 40 00	**1**	ea	8,500.00	8,500		
11810	MG-1 Tire Balancer 1 N N/A	**1**	ea	2,250.00	2,250		
11810	MG-2 Tire Changer 1 N N/A	**1**	ea	2,200.00	2,200		
11810	MG-3 Tire Storage Rack 5 N 12 40 00	**5**	ea	1,850.00	9,250		
11810	MH-1 Toolbox Red 1 ERO N/A	**ERO**					
11810	MH-2 Toolbox Black (US General) 1 ERO N/A	**ERO**					
11810	MH-3 Toolbox Black (Snap-On) 1 ERO N/A	**ERO**					
11810	MH-4 Toolbox Black Tall (Snap-On) 1 ERO N/A	**ERO**					
11810	MH-5 Hose Cubby Storage 4 ERO N/A	**ERO**					
11810	MH-6 Parts Shelving (6'x2') 15 N 12 40 00	**15**	ea	650.00	9,750		
11810	MH-7 Cantilever Rack (12' Stock) 1 N 12 40 00	**1**	ea	2,200.00	2,200		
11810	MH-8 Bin Storage Cabinet 1 N 12 40 00	**1**	ea	1,900.00	1,900		
11810	MH-9 Flammable Cabinet (45 Gallons) 2 N 12 40 00	**2**	ea	3,200.00	6,400		

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING						
11810	MM-1 Battery Rack 2 ERO N/A	**ERO**					
11810	MM-2 Tool Cart 3 ERO N/A	**ERO**					
11810	MM-3 Parts Washer 1 ERO N/A	**ERO**					
11810	MM-4 Topside Creeper 1 ERO N/A	**ERO**					
11810	MM-5 Power Washer 1 ERO N/A	**ERO**					
11810	MM-6 Torch Cart & Kit 1 N N/A	**1**	ea	600.00	600		
11810	MM-7 Battery Charger 2 N N/A	**2**	ea	500.00	1,000		
11810	MM-8 Drill Press 1 N 12 40 00	**1**	ea	2,500.00	2,500		
11810	MM-9 Hydraulic Shop Press (50 Ton) 1 N 12 40 00	**1**	ea	18,500.00	18,500		
11810	MM-10 Pedestal Grinder 1 N 12 40 00	**1**	ea	900.00	900		
11810	MM-11 Bench Vice 3 N 12 40 00	**3**	ea	800.00	2,400		
11810	MM-12 Bench Grinder 1 N 12 40 00	**1**	ea	1,100.00	1,100		
11810	MM-13 Metal Cutting Band Saw 1 N 12 40 00	**1**	ea	2,250.00	2,250		
11810	MM-14 Small Engine Vehicle Lift 1 N 12 40 00	**1**	ea	850.00	850		
	MEZZANINE						
11810	MD-3 Heavy Duty Steel Workbench 1 N 12 40 00	**1**	ea	1,600.00	1,600		
11810	ME-1 Hydraulic Hose Crimper 1 N 12 40 00	**1**	ea	1,500.00	1,500		
11810	ME-2 Hydraulic Hose Cut Off Machine 1 N 12 40 00	**1**	ea	2,500.00	2,500		
11810	ME-3 Hydraulic Hose Reel Rack 1 N 12 40 00	**1**	ea	3,500.00	3,500		
11810	ME-4 Bin Storage Cabinet 1 N 12 40 00	**1**	ea	1,500.00	1,500		
	FLEET STORAGE						
11810	VC-1 DEF Tote with Pump out 1 ERO N/A	**ERO**					
11810	VC-2 55-Gallon Fluid Drum w/ Hand Pump (WWF) 1 N 11 11 29	**1**	ea	500.00	500		
11810	VH-1 Flammable Cabinet (60 Gallons) 1 ERO N/A	**ERO**					
11810	VH-2 Locking Hanging Tool Pallet Rack 1 N 12 40 0	**1**	ea	600.00	600		
	HIGHWAY WORKSHOP						
11810	HD-1 Heavy Duty Workbench w/ Casters 2 N 12 40 00	**2**	ea	1,300.00	2,600		
11810	HD-2 Electric Workbench w/ Cabinets 1 N 12 40 00	**1**	ea	1,600.00	1,600		
11810	HH-1 Flammable Cabinet (40 Gallons) 1 ERO 12 40 00	**ERO**					
11810	HH-2 Locking Hanging Tool Pallet Rack 1 N 12 40 00 (1) On Mezzanine	**1**	ea	950.00	950		
11810	HH-3 Bin Storage Cabinet 1 N 12 40 00	**1**	ea	1,500.00	1,500		
11810	HH-4 Parts Shelving (6' x 2') 4 N 12 40 00 On Mezzanine	**4**	ea	650.00	2,600		
11810	HH-5 Sign Storage Rack 2 N 12 40 00 On Mezzanine	**2**	ea	1,100.00	2,200		
11810	HH-6 Rolling Tool Chest 1 N 12 40 00	**1**	ea	1,850.00	1,850		
11810	HH-7 Cantilever Rack (8' Stock) 1 N 12 40 00	**1**	ea	2,000.00	2,000		
11810	HH-8 Cantilever Rack (12' Stock) 1 N 12 40 00	**1**	ea	2,200.00	2,200		
11810	HH-9 Stencil Storage Rack 2 N 12 40 00 On Mezzanine	**2**	ea	850.00	1,700		
11810	HH-10 Large Bin Shelving (Sign Hardware) 1 N 12 40 00 On Mezzanine	**1**	ea	1,450.00	1,450		
11810	HM-1 Bench Vice 1 N 12 40 00	**1**	ea	800.00	800		
	CARPENTRY WORKSHOP						
11810	CD-1 Heavy Duty Workbench w/ Casters 2 N 12 40 00	**2**	ea	1,500.00	3,000		
11810	CH-1 Flammable Cabinet (30-Gallons) 1 ERO N/A On Mezzanine	**ERO**					
11810	CM-1 Chop Saw (Hitachi) 1 ERO N/A	**ERO**					
11810	CM-2 Edge Planar 1 ERO N/A	**ERO**					
11810	CM-3 Standing Band Saw 1 ERO N/A	**ERO**					
11810	CM-4 Table Saw (Powermatic) 1 ERO N/A	**ERO**					
11810	CM-5 Drill Press (Powermatic) 1 ERO N/A	**ERO**					
11810	CM-6 Portable Dust Collector 1 N 12 40 00	**1**	ea	4,500.00	4,500		
11810	CM-7 Thickness Planar 1 N 12 40 00	**1**	ea	3,500.00	3,500		

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING						
	TREES & GROUNDS WORKSHOP						
11810	TC-1 2-Drum Spill Pallet 1 N 12 40 00 Pesticide Mixing	**1**	ea	650.00	650		
11810	TD-1 Heavy Duty Workbench w/ Casters 2 N 12 40 00	**2**	ea	1,500.00	3,000		
11810	TD-2 Electric Workbench 1 N 12 40 00	**1**	ea	1,600.00	1,600		
11810	TH-1 Flammable Cabinet (30-Gallons) 1 ERO N/A	**ERO**					
11810	TH-2 Brown Tool Drawer 1 ERO N/A	**ERO**					
11810	TH-3 Metal Locking Cabinet 2 N 12 40 00	**2**	ea	450.00	900		
11810	TH-4 Bin Storage Cabinet 1 N 12 40 00	**1**	ea	1,500.00	1,500		
11810	TH-5 Hanging Tool Pallet Rack 1 N 12 40 00	**1**	ea	2,500.00	2,500		
11810	TH-6 Town Toolbox (New) 1 N 12 40 00	**1**	ea	2,500.00	2,500		
11810	TH-7 Parts Shelving (6' x 2') 2 N 12 40 00 On Mezzanine	**2**	ea	650.00	1,300		
11810	TH-8 Locking Hanging Tool Pallet Rack 2 N 12 40 00 On Mezzanine	**2**	ea	950.00	1,900		
11810	TH-9 Flammable Cabinet (45 Gallons) 1 N 12 40 00 Pesticide Storage	**1**	ea	3,200.00	3,200		
11810	TH-10 Flammable Cabinet (90 Gallons) 1 N 12 40 00 Fuel Storage	**1**	ea	4,200.00	4,200		
11810	TM-1 Lawnmower Blade Sharpener 1 ERO N/A	**ERO**					
11810	TM-2 Small Engine Vehicle Lift 1 N 12 40 00	**1**	ea	850.00	850		
11810	TM-3 Bench Vice (Small) 1 N 12 40 00	**1**	ea	600.00	600		
11810	TM-4 Bench Vice (Large) 1 N 12 40 00	**1**	ea	800.00	800		
11810	TM-5 Pedestal Grinder 1 N 12 40 00	**1**	ea	1,300.00	1,300		
11810	Connect and or install ERO equipment	**100**	hrs	150.00	15,000		
	SUBTOTAL					848,500	
	TOTAL - INDUSTRIAL EQUIPMENT						***$848,500***
	B SITEWORK						
	Building Demolition						
	Shed and containers removals				by owner		
	<u>Environmental materials</u>						
02450	Fuel Island USTs				with fuel island bid		
02450	Remove DPW lubricants, grease, paint, fluids, batteries, oils and misc				by owner		
	Building						
02450	Haz-mat - Joint compound	**7,500**	sf	5.00	37,500		
02450	Haz-mat - Window glazing	**525**	lf	15.00	7,875		
02450	Haz-mat - Caulking	**250**	lf	15.00	3,750		
02450	Haz-mat - Floor tile	**7,000**	sf	8.00	56,000		
02450	Haz-mat - Misc	**1**	ls	10,000.00	10,000		
02050	Demolish existing building	**19,260**	sf	12.00	231,120		
220000	Demo, cut and cap plumbing	**1**	ls	7,500.00	7,500		
230000	Demo, cut, cap and decommission HVAC	**1**	ls	7,500.00	7,500		
260000	Demo/make safe electrical	**1**	ls	7,500.00	7,500		
	SUBTOTAL					368,745	
	Site Demo & Prep						
312000	Mobilization	**1**	ea	7,500.00	7,500		
311000	Site fencing, protection, barricades	**1**	ls	25,000.00	25,000		
311000	Stabilized Construction Entrance	**1**	ea	7,500.00	7,500		
312500	Compost filter tubes and silt fence	**2,000**	lf	18.00	36,000		
311000	Tree/stump removals	**1.8**	acre	15,000.00	27,000		
311000	Clear and grub	**79,500**	sf	0.90	71,550		
311000	Sawcut and remove paving & curbing	**82,500**	sf	0.85	70,125		
311000	Remove concrete walks, pads and misc items at building perimeter	**2,000**	sf	5.00	10,000		
311000	Remove drainage structures	**4**	ea	1,500.00	6,000		
311000	Remove drainage piping	**240**	lf	20.00	4,800		
311000	Protect water service through site	**1**	ls	10,000.00	10,000		
	SUBTOTAL					275,475	

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING						
	Earthwork						
312000	Strip topsoil	**2,700**	cy	15.00	40,500		
312000	Screen & Respread	**2,625**	cy	25.00	65,625		
312000	Export Waste/Excess	**500**	cy	25.00	12,500		
312000	Site Cuts to Fills	**4,175**	cy	20.00	83,500		
312000	Cuts to Export	**1,450**	cy	10.00	14,500		
312000	Transport and dispose excess soils off site - clean/unrestricted	**1,450**	cy	25.00	36,250		
312000	Remove and export Unsuitable Beneath Building Foundation/Slab	**6,500**	cy	45.00	292,500		
312000	Import structural fill for building foundation/slab	**4,250**	cy	60.00	255,000		
312000	E&B to support Geo-thermal and utility work	**2,000**	cy	25.00	50,000		
312000	Unsuitable materiasl allowance	**1**	ls	100,000.00	100,000		
	Structural excavation and backfill						
312000	Import 12" subbase for under slabs	**1,574**	cy	60.00	94,440		
312000	E&E foundation footing and walls	**1,250**	cy	20.00	25,000		
312000	E&B foundation column footings	**500**	cy	20.00	10,000		
	SUBTOTAL					1,079,815	
	Paving and curbing						
321216	12" Dense Grade at paving and walks	**2,748**	cy	58.00	159,384		
321216	5" Asphalt pavement	**73,000**	sf	6.00	438,000		
321216	Patch roads and connections	**1**	ls	7,500.00	7,500		
312000	Crushed stone	**167**	cy	65.00	10,855		
321613	Granite curbs	**1,190**	lf	58.00	69,020		
321613	Batum berm	**600**	lf	20.00	12,000		
	SUBTOTAL					696,759	
	Storm						
334000	CB	**14**	ea	6,500.00	91,000		
334000	DMH	**16**	ea	8,500.00	136,000		
334000	Modify existing structures	**1**	ls	5,000.00	5,000		
334000	12" HDPE piping	**320**	lf	110.00	35,200		
334000	15" HDPE piping	**160**	lf	115.00	18,400		
334000	18" HDPE piping	**260**	lf	125.00	32,500		
334000	24" HDPE piping	**125**	lf	145.00	18,125		
334000	30" HDPE piping	**8**	lf	165.00	1,320		
334000	Perimeter building roof drainage piping/boots	**350**	lf	45.00	15,750		
334000	Storm tech MC-4500 Storm water infiltration system (E,B, prep and manifolds)	**115**	Ch	2,250.00	258,750		
	SUBTOTAL					612,045	
	Water						
331000	8" FP DI water main	**220**	lf	125.00	27,500		
331000	6" FP DI water	**120**	lf	110.00	13,200		
331000	4" Dom DI water	**16**	lf	85.00	1,360		
331000	Gates & valves	**6**	ea	1,500.00	9,000		
331000	Hydrants	**2**	ea	6,500.00	13,000		
331000	Water CTE	**1**	ea	5,000.00	5,000		
	SUBTOTAL					69,060	
	Sanitary Septic						
333000	4,000 gal tank	**1**	ea	25,000.00	25,000		
333000	Piping	**120**	lf	95.00	11,400		
333000	D box	**1**	ea	3,500.00	3,500		
333000	Leaching trenches	**4**	ea	27,500.00	110,000		
	Sanitary Holding						
333000	4" cast iron piping and venting	**100**	lf	125.00	12,500		
333000	6" cast iron piping	**20**	lf	150.00	3,000		
333000	Oil water seep	**1**	ea	17,500.00	17,500		
333000	10,000 gal Holding tank	**1**	ea	50,000.00	50,000		
	SUBTOTAL					232,900	

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING						
	Site Improvements						
323100	Security arm gate and access key pad	**1**	ea	15,000.00	15,000		
323100	Parking signs	**10**	ea	250.00	2,500		
321213	Concrete walks	**1,200**	sf	14.00	16,800		
323100	Parking space lines, symbols and hatching	**42**	ea	250.00	10,500		
05500	Site bollards	**33**	ea	800.00	26,400		
03300	Transformer Pad	**1**	ea	5,000.00	5,000		
03300	Generator Pad	**1**	ea	8,500.00	8,500		
312000	E&B Elec/communication duct banks	**250**	lf	55.00	13,750		
03300	Encase duct banks in concrete	**74**	cy	350.00	25,900		
	SUBTOTAL					124,350	
	Landscaping						
329000	Landscaping allowance	**1**	ls	100,000.00	100,000		
	SUBTOTAL					100,000	
	TOTAL - SITEWORK						***3,559,149***

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	1. Add Vehicle Wash Bay Shell						
	GROSS FLOOR AREA CALCULATION						
	Wash Bay			**1,800**			
	TOTAL GROSS FLOOR AREA				**1,800**	*gsf*	
A10	***FOUNDATIONS***						
A1010	**STANDARD FOUNDATIONS**						
	Strip footings to walls						
	Formwork	**100**	sf	18.00	1,800		
	Re-bar	**360**	lbs	2.50	900		
	Concrete material	**6**	cy	190.00	1,140		
	Placing concrete	**6**	cy	40.00	240		
	Foundation walls						
	Formwork	**600**	sf	18.00	10,800		
	Re-bar	**1,170**	lbs	2.50	2,925		
	Concrete material	**18**	cy	190.00	3,420		
	Placing concrete	**18**	cy	40.00	720		
	Back up knee walls						
	Formwork	**180**	sf	18.00	3,240		
	Re-bar	**130**	lbs	2.50	325		
	Concrete material	**2**	cy	190.00	380		
	Placing concrete	**2**	cy	40.00	80		
	F6 - Column footings						
	Formwork	**48**	sf	18.00	864		
	Re-bar	**225**	lbs	2.50	563		
	Concrete material	**3**	cy	190.00	570		
	Placing concrete	**3**	cy	40.00	120		
	F10 - Column footings						
	Formwork	**160**	sf	18.00	2,880		
	Re-bar	**1,200**	lbs	2.50	3,000		
	Concrete material	**16**	cy	190.00	3,040		
	Placing concrete	**16**	cy	40.00	640		
	Piers						
	Formwork	**64**	sf	18.00	1,152		
	Re-bar	**75**	lbs	2.50	188		
	Concrete material	**1**	cy	190.00	190		
	Placing concrete	**1**	cy	40.00	40		
	SUBTOTAL					39,217	
A1030	LOWEST FLOOR CONSTRUCTION						
	8" Slab on grade						
	Vapor barrier	**1,800**	sf	2.00	3,600		
	Reinforcing	**1,980**	sf	2.50	4,950		
	Concrete - 8" thick	**48**	cy	190.00	9,120		
	Placing concrete	**48**	cy	45.00	2,160		
	Finishing and curing concrete	**1,800**	sf	1.65	2,970		
	Control joints - saw cut	**1,800**	sf	0.50	900		
	Miscellaneous						
	R10 - 60 PSI Rigid insulation at 4' horizontal and 2' vertical	**400**	sf	5.50	2,200		
	Dampproofing of foundation walls	**300**	sf	4.00	1,200		
	Pits, curbs, equipment Pads and supports	**1**	ls	2,500.00	2,500		
	SUBTOTAL					29,600	
	TOTAL - FOUNDATIONS						***$68,817***

DESCRIPTION		QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
1. Add Vehicle Wash Bay Shell							
B10	***SUPERSTRUCTURE***						
B1020	**ROOF CONSTRUCTION**						
	Pre-fabricated Structure (includes steel, insulated metal panels walls and roof) :						
	Main Building - Prefabricated metal building package (galv steel, metal panels, metal roof, gutters, downspouts and snow guards)	**1,800**	sf	100.00	180,000		
	Miscellaneous						
	Overhead door openings	**2**	ea	1,500.00	3,000		
	Translucent window openings	**200**	sf	12.00	2,400		
	SUBTOTAL					185,400	
	TOTAL - SUPERSTRUCTURE						***$185,400***
B20	***EXTERIOR CLOSURE***						
B2010	**EXTERIOR WALLS**						
	CMU veneer	**150**	sf	50.00	7,500		
	Air barrier	**150**	sf	10.00	1,500		
	Rigid insulation	**150**	sf	6.00	900		
	SUBTOTAL					9,900	
B2020	**WINDOWS**						
	Translucent windows	**200**	sf	150.00	30,000		
	Backer rod & double sealant	**100**	lf	12.00	1,200		
	Wood blocking at openings	**100**	lf	10.00	1,000		
	Waterproofing - overall aded cost for FSB pricing	**1,800**	sf	4.00	7,200		
	SUBTOTAL					39,400	
B2030	**EXTERIOR DOORS**						
	16x16 OHD poly at washbay	**2**	ea	30,000.00	60,000		
	G SS-1 door / SSF frame 3x7	**3**	ea	4,500.00	13,500		
	F SS doors with SS frame 6x7 HM	**1**	ea	6,500.00	6,500		
	Hardware	**4**	lvs	650.00	2,600		
	Misc						
	Backer rod & double sealant	**120**	lf	12.00	1,440		
	Wood blocking at openings	**120**	lf	10.00	1,200		
	SUBTOTAL					85,240	
	TOTAL - EXTERIOR CLOSURE						***$134,540***
B30	***ROOFING***						
B3010	**ROOF COVERINGS**						
	All roofing, gutters, downspouts and snow guards included with Prefabricated metal building						
	SUBTOTAL					-	
B3020	**ROOF OPENINGS**						
	Fall arrest system allowance	**1**	ls	2,500.00	2,500		
	SUBTOTAL					2,500	
	TOTAL - ROOFING						***$2,500***
C10	***INTERIOR CONSTRUCTION***						
C1010	**PARTITIONS**						
	Separation wall between Wash bay and maintenance						
	16 - CMU wall at wash bay to 13'	**780**	sf	35.00	27,300		
	16 - Upper walls at wash bay - 6" lgmf and sheathing	**840**	sf	18.00	15,120		
	Separation wall between Wash equipment and maintenance						
	8A CMU wall at wash equip to 13'	**540**	sf	35.00	18,900		
	SUBTOTAL					61,320	

DESCRIPTION		QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
1. Add Vehicle Wash Bay Shell							
C1020	**INTERIOR DOORS**						
	All doors in exterior B2030						
	SUBTOTAL					-	
TOTAL - INTERIOR CONSTRUCTION							**$61,320**
B	**SITEWORK**						
	Structural excavation and backfill						
	Over excavate foundation footprint	**267**	cy	10.00	2,670		
	Import structural fill	**80**	cy	60.00	4,800		
	Import 12" subbase for under slabs	**100**	cy	60.00	6,000		
	Backfill foundation footing and walls	**46**	cy	20.00	920		
	Backfill foundation column footings	**30**	cy	20.00	600		
	SUBTOTAL					14,990	
	Site Improvements						
	Exterior wash bay catwalk/stair	**1**	ea	20,000.00	20,000		
	Footings for exterior wash bay catwalk/stair	**6**	ea	1,500.00	9,000		
	Knock down pad	**1,430**	sf	18.00	25,740		
	Site bollards	**4**	ea	800.00	3,200		
	Transformer Pad	**1**	ea	5,000.00	5,000		
	Generator Pad	**1**	ea	8,500.00	8,500		
	SUBTOTAL					71,440	
TOTAL - SITEWORK							**86,430**
SUBTOTAL							**$539,007**
		GENERAL CONDITIONS & REQUIREMENTS			11%		$59,291
		GL INSURANCE			1.4%		$7,546
		BONDS			1.8%		$9,702
		GC - OVERHEAD & PROFIT			4%		$21,560
		DESIGN AND PRICING CONTINGENCY			7.5%		$47,783
		ESCALATION TO 4TH QUARTER 2025 BID OPENING			3%		$20,547
TOTAL - ALTERNATE 1							**$705,436**

DESCRIPTION		QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
2. Add Vehicle Wash Bay Finish & Equipment							
C30	*INTERIOR FINISHES*						
C3010	**WALL FINISHES**						
	Wash bay PVC panels and furring	**3,500**	sf	20.00	70,000		
	AVB behind panels	**3,500**	sf	10.00	35,000		
	Column wrapp framing	**7**	ea	950.00	6,650		
	SUBTOTAL					111,650	
C3020	**FLOOR FINISHES**						
	SC - Sealed Concrete	**1,800**	sf	1.50	2,700		
	SUBTOTAL					2,700	
C3030	**CEILING FINISHES**						
	Wash equip roof - 8" lgmf, insul, ply, gwb and PVC trim	**160**	sf	40.00	6,400		
	Exposed prefab metal columns and beams	**1,800**	sf	2.50	4,500		
	SUBTOTAL					10,900	
	TOTAL - INTERIOR FINISHES						***125,250***
D20	*PLUMBING*						
D20	**PLUMBING, GENERALLY**						
	Plumbing	**1**	ls	35,000.00	35,000		
	SUBTOTAL					35,000	
	TOTAL - PLUMBING						***$35,000***
D30	*HVAC*						
D30	**HVAC**						
	HVAC	**1,800**	sf	50.00	90,000		
	SUBTOTAL					90,000	
	TOTAL - HVAC						***$90,000***
D40	*FIRE PROTECTION*						
D40	**FIRE PROTECTION**						
	Sprinkler heads	**20**	ea	150.00	3,000		
	Branch sprinkler piping with fittings & hangers	**240**	lf	36.00	8,640		
	Main sprinkler piping with fittings & hangers	**20**	lf	55.00	1,100		
	Hydraulic calculations, coordination and testing	**1**	ls	2,500.00	2,500		
	SUBTOTAL					15,240	
	TOTAL - FIRE PROTECTION						***$15,240***
D50	*ELECTRICAL*						
D50	**ELECTRICAL**						
	Electrical	**1,800**	sf	45.00	81,000		
	SUBTOTAL					81,000	
	TOTAL - ELECTRICAL						***$81,000***

DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
2. Add Vehicle Wash Bay Finish & Equipment						
F10 INDUSTRIAL EQUIPMENT						
Manual high pressure wash and undercarriage wash	**1**	ls	220,000.00	220,000		
V-1 Manual Wash Pump Skid	**1**	ea		*inc above*		
V-1A Manual Wash Control Panel	**1**	ea		*inc above*		
V-2 Heat Exchanger	**1**	ea		*inc above*		
V-3 Festoons	**2**	ea		*inc above*		
V-4 Undercarriage Wash Pressure Plant	**1**	ea		*inc above*		
V-4A Undercarriage Wash Control Panel	**1**	ea		*inc above*		
V-5A Undercarriage Wash Toggle Switch	**1**	ea		*inc above*		
V-5B Manual Wash On/Off Switch	**2**	ea		*inc above*		
V-8 Guide Rails	**1**	ea		*inc above*		
V-10 Vehicle Wash Pre-Treatment Tank (1500gal)	**1**	ea		*inc above*		
V-11 Mobile Platform	**1**	ea		*inc above*		
V-12 Vehicle Wash Entry Traffic Light 2	**1**	ea		*inc above*		
V-13 Undercarriage Wash Activation Light 1	**1**	ea		*inc above*		
V-14 Loop Detector	**2**	ea		*inc above*		
V-15 Vehicle Wash Soap Drum	**1**	ea		*inc above*		
SUBTOTAL					220,000	
TOTAL - INDUSTRIAL EQUIPMENT						***$220,000***
SUBTOTAL						***$566,490***
GENERAL CONDITIONS & REQUIREMENTS				11%		$62,314
GL INSURANCE				1.4%		$7,931
BONDS				1.8%		$10,197
GC - OVERHEAD & PROFIT				4%		$22,660
DESIGN AND PRICING CONTINGENCY				7.5%		$50,219
ESCALATION TO 4TH QUARTER 2025 BID OPENING				2%		$14,396
TOTAL - ALTERNATE 2						***$734,207***

DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
3. Add Precast Concrete Sound & Light Barrier Wall						
E&B retaining wall, export	**2,133**	cy	65.00	138,645		
Sound & Light wall	**2,048**	sf	200.00	409,600		
SUBTOTAL					548,245	
TOTAL						***$548,245***
SUBTOTAL						***$548,245***
	GENERAL CONDITIONS & REQUIREMENTS			11%		$60,307
	GL INSURANCE			1.4%		$7,675
	BONDS			1.8%		$9,868
	GC - OVERHEAD & PROFIT			4%		$21,930
	DESIGN AND PRICING CONTINGENCY			7.5%		$48,602
	ESCALATION TO 4TH QUARTER 2025 BID OPENING			2%		$13,933
TOTAL - ALTERNATE 3						***$710,560***

DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
4. Add Canopy Addition to Existing Salt Shed						
Site Structure						
E&B footings	**9**	ea	650.00	5,850		
Demo, prep and paving	**6,600**	sf	8.00	52,800		
Sonotube footings	**9**	ea	950.00	8,550		
Wood columns to match existing	**18**	ea	850.00	15,300		
Wood beams to match	**350**	lf	35.00	12,250		
Wood trusses - 2' o.c.	**56**	ea	1,150.00	64,400		
3/4" plywood	**3,800**	sf	7.50	28,500		
Standing seam metal roofing on ice and water shield	**3,800**	sf	23.00	87,400		
SUBTOTAL					275,050	
SUBTOTAL						***275,050***
GENERAL CONDITIONS & REQUIREMENTS				11%		$30,256
GL INSURANCE				1.4%		$3,851
BONDS				1.8%		$4,951
GC - OVERHEAD & PROFIT				4%		$11,002
DESIGN AND PRICING CONTINGENCY				7.5%		$24,383
ESCALATION TO 4TH QUARTER 2025 BID				2%		$6,990
TOTAL - ALTERNATE 4						***$356,483***

DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
5. Add Monorails						
HA-1 2-Ton Monorail 1 N 14 22 13 BID ALT. 5	**1**	ea	30,000.00	30,000		
TA-1 2-Ton Monorail 1 N 14 22 13 BID ALT. 5	**1**	ea	30,000.00	30,000		
SUBTOTAL					60,000	
SUBTOTAL						***60,000***
GENERAL CONDITIONS & REQUIREMENTS				11%		$6,600
GL INSURANCE				1.4%		$840
BONDS				1.8%		$1,080
GC - OVERHEAD & PROFIT				4%		$2,400
DESIGN AND PRICING CONTINGENCY				7.5%		$5,319
ESCALATION TO 4TH QUARTER 2025 BID				2%		$1,525
TOTAL - ALTERNATE 5						***$77,764***