

Construction Cost Estimate - DRAFT

Schematic Design Cost Estimate

GATRA / Town of Plymouth Plymouth Intermodal Transit Center

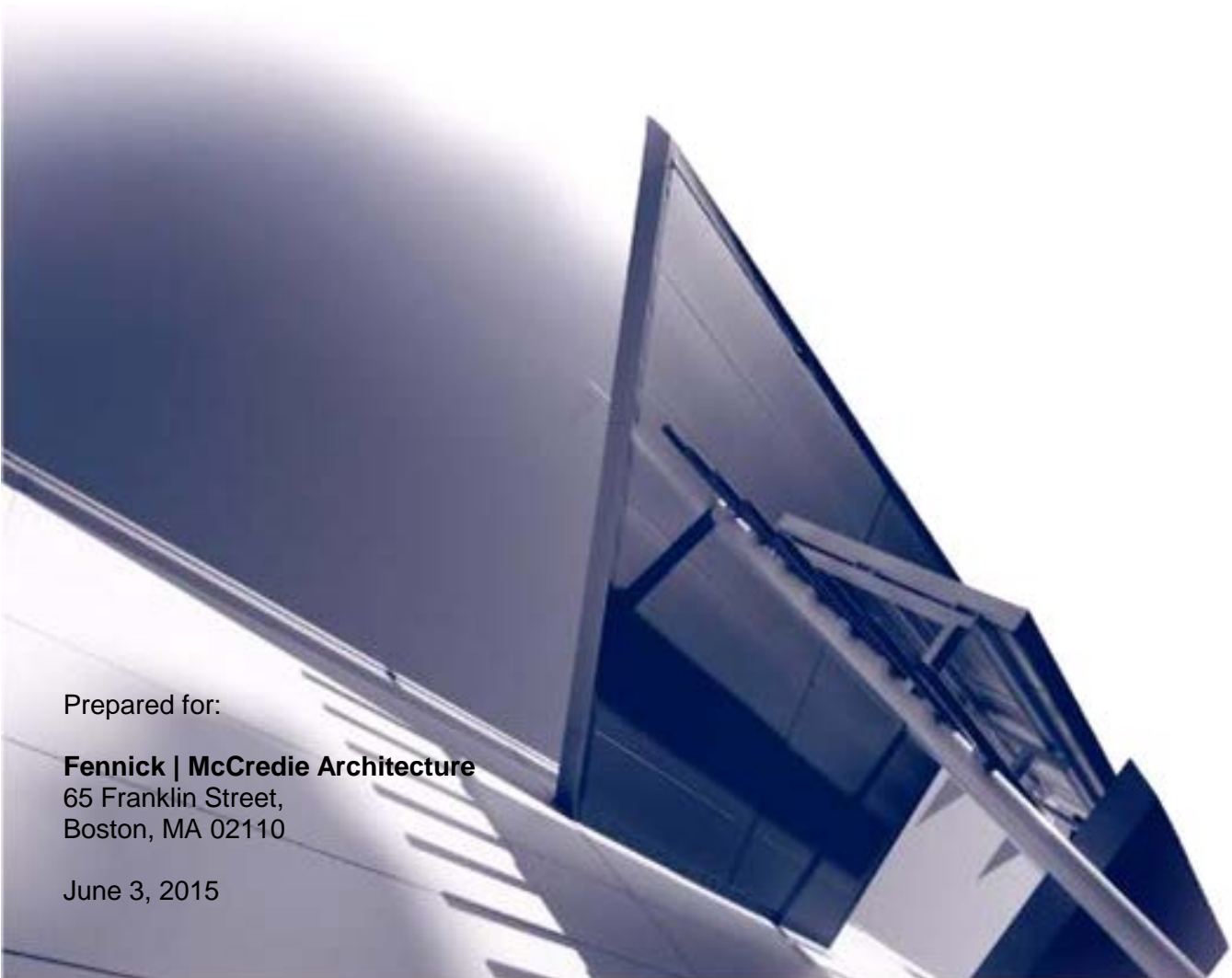
Plymouth, MA

RLB | Rider Levett Bucknall

Prepared for:

Fennick | McCredie Architecture
65 Franklin Street,
Boston, MA 02110

June 3, 2015



Plymouth Intermodal Transit Center

Schematic Design Cost Estimate

Project Details

Description

Basis of Estimate

This estimate has been prepared at the request of Fennick McCredie Architecture and is to provide a Schematic Design Cost Estimate for the construction of the proposed intermodal transit center, located in Plymouth, MA.

The estimate is based upon measured quantities and built-up rates prepared from the Schematic Design drawings issued to RLB on May 29th, prepared by Fennick McCredie Architecture.

Where information was insufficient, assumptions and allowances were made based wherever possible on discussions with the architect and engineers.

It is assumed that the project will be competitively bid by four to six general contractors and that the awarded contractor and all subcontractors will be required to pay prevailing wage rates.

Unit pricing is based on June 2014 costs. A Design / Estimating Contingency of 10.0% has been included, and Construction Cost Escalation has also been included at 8.0%.

Items Specifically Included

Please refer to estimate detail

Items Specifically Excluded

- . Hazardous materials abatement
- . Excavation in rock and/or contaminated soils
- . Excavation within ground water table
- . Removal / relocation of existing utility pole and overhead power
- . Deep foundation systems
- . Site utilities diversions and upgrades, unless noted otherwise
- . Interior fit-out to leasable tenancies (by Tenant)
- . Security systems (none indicated)
- . Costs associated with phasing the works, including out of hours work
- . Photovoltaics and other renewable energy resources
- . Furniture, Fittings and Equipment (FF&E)
- . Murals and works of art
- . Special testing & inspections
- . Utility tap fees and charges
- . Permits & plan review fees
- . Construction management fees
- . Owner's contingency
- . Construction phase contingency
- . Land and legal costs
- . Architectural, Engineering and other professional fees
- . Geotechnical, traffic and all other studies
- . Items marked as "Excl." in the estimate
- . Escalation beyond Q4 2015

Documents

Please refer to basis of estimate

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Summary

GFA: Gross Floor Area
Rates Current At June 2014

Location		GFA SF	Cost/SF	Total Cost
P	PUBLIC PARKING	122,857.0	53.25	6,542,156
B	BUSWAY	41,214.0	62.94	2,593,931
TC	TRANSIT CENTER	1,152.0	391.47	450,973
V	VISITOR CENTER	1,960.0	68.10	133,476
LSM	LEASABLE SPACE; MEZZANINE	1,294.0	318.77	412,483
LS2	LEASABLE SPACE; LEVEL 2.5	3,607.0	263.52	950,525
S	SITE CONSTRUCTION			1,700,584
		ESTIMATED NET COST		
		172,084	\$74.29	\$12,784,128
MARGINS & ADJUSTMENTS				
Phasing / Temporary Works				Excl.
General Conditions		9.0 %		\$1,150,572
Bonds and Insurances		2.7 %		\$376,237
Overhead and Profit		4.5 %		\$643,992
Design / Estimating Contingency		10.0 %		\$1,495,493
Escalation - Q4 2015		8.0 %		\$1,319,578
		ESTIMATED TOTAL COST		
		172,084	\$103.26	\$17,770,000

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Gross Floor Area: 172,084 SF
Rates Current At June 2014

Divisions/Elements Summary

Description	Cost/SF	Total Cost
02 Existing Conditions		
G1020 Site Demolition and Relocations	1.07	184,046
G1040 Hazardous Waste Remediation		Excl.
Existing Conditions	\$1.07	\$184,046
03 Concrete		
A1010 Standard Foundations	4.56	784,110
A1030 Slab on Grade	1.85	318,633
A2020 Basement Walls	2.05	353,131
B1010 Floor Construction	13.83	2,379,173
B1020 Roof Construction	0.16	27,135
B2010 Exterior Walls	4.35	749,325
C1010 Partitions	3.22	554,560
C1030 Fittings	0.02	3,150
C2010 Stair Construction	0.07	12,625
Concrete	\$30.11	\$5,181,842
04 Masonry		
B2010 Exterior Walls	0.41	69,696
C1010 Partitions	0.21	36,432
Masonry	\$0.62	\$106,128
05 Metals		
B1010 Floor Construction	3.20	550,988
B1020 Roof Construction	1.27	218,104
B2010 Exterior Walls	0.81	139,395
C1030 Fittings	6.95	1,196,388
C2020 Stair Finishes	0.61	104,400
Metals	\$12.84	\$2,209,275
06 Wood, Plastics, and Composites		
B1010 Floor Construction	0.06	9,600
B1020 Roof Construction	0.06	11,000
C1030 Fittings	0.13	22,820
Wood, Plastics, and Composites	\$0.25	\$43,420
07 Thermal and Moisture Protection		
A1030 Slab on Grade	0.14	23,752
B1010 Floor Construction	0.14	24,335
B1020 Roof Construction	0.16	26,688
B2010 Exterior Walls	0.55	94,450
B3010 Roof Coverings	0.33	57,588

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Gross Floor Area: 172,084 SF
Rates Current At June 2014

Divisions/Elements Summary

Description	Cost/SF	Total Cost
C1030 Fittings	0.50	86,042
D2040 Rain Water Drainage	0.04	6,510
Thermal and Moisture Protection		\$1.86
		\$319,365
08 Openings		
B2010 Exterior Walls	0.79	135,700
B2020 Exterior Windows	0.78	133,560
B2030 Exterior Doors	0.36	62,600
C1010 Partitions	0.07	12,155
C1020 Interior Doors	0.30	51,800
C1030 Fittings	0.79	135,100
Openings		\$3.09
		\$530,915
09 Finishings		
B2010 Exterior Walls	0.13	22,696
C1010 Partitions	0.35	59,408
C1030 Fittings	0.48	82,036
C2020 Stair Finishes	0.09	14,655
C3010 Wall Finishes	0.15	26,018
C3020 Floor Finishes	0.69	118,006
C3030 Ceiling Finishes	0.49	84,481
Finishings		\$2.37
		\$407,300
10 Specialties		
C1030 Fittings	0.92	158,497
Specialties		\$0.92
		\$158,497
11 Equipment		
E1030 Vehicular Equipment	1.54	265,000
E1090 Other Equipment		Excl.
Equipment		\$1.54
		\$265,000
13 Special Construction		
F1030 Special Construction Systems	0.17	28,800
Special Construction		\$0.17
		\$28,800
14 Conveying Equipment		
D1010 Elevators & Lifts	1.74	300,000
Conveying Equipment		\$1.74
		\$300,000
21 Fire Suppression		
D4010 Sprinklers	0.59	101,943
Fire Suppression		\$0.59
		\$101,943

Plymouth Intermodal Transit Center
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Gross Floor Area: 172,084 SF
 Rates Current At June 2014

Divisions/Elements Summary

Description	Cost/SF	Total Cost
22 Plumbing		
D2010 Plumbing Fixtures	0.18	31,510
D2020 Domestic Water Distribution	0.27	46,785
D2030 Sanitary Waste	0.72	123,680
D2040 Rain Water Drainage	0.37	63,711
D2090 Other Plumbing Systems	0.05	8,500
Plumbing	\$1.59	\$274,186
23 Heating, Ventilating, and Air Conditioning		
D3020 Heat Generating Systems	0.11	18,500
D3030 Cooling Generating Systems	0.33	56,500
D3040 Distribution Systems	0.96	165,845
D3090 Other HVAC Systems & Equipment	0.13	21,638
Heating, Ventilating, and Air Conditioning	\$1.53	\$262,483
26 Electrical		
D5010 Electrical Service & Distribution	0.73	125,990
D5020 Lighting and Branch Wiring	1.46	250,490
D5090 Other Electrical Systems	0.40	68,625
G4010 Electrical Distribution	0.56	95,988
Electrical	\$3.14	\$541,093
27 Communications		
D5030 Communications & Security	0.06	11,000
Communications	\$0.06	\$11,000
28 Electronic Safety and Security		
D5030 Communications & Security	0.24	41,725
Electronic Safety and Security	\$0.24	\$41,725
31 Earthwork		
A1010 Standard Foundations	0.53	91,716
A1020 Special Foundations		Excl.
A1030 Slab on Grade	0.45	77,945
G1010 Site Clearing	0.12	20,000
G1030 Site Earthwork	4.16	715,680
Earthwork	\$5.26	\$905,341
32 Exterior Improvements		
G2010 Roadways	1.09	186,831
G2020 Parking Lots	0.29	50,000
G2030 Pedestrian Paving	0.47	80,407

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Gross Floor Area: 172,084 SF
 Rates Current At June 2014

Divisions/Elements Summary

Description	Cost/SF	Total Cost
G2040 Site Development	1.75	300,288
G2050 Landscaping	0.04	6,758
Exterior Improvements	\$3.63	\$624,284
33 Utilities		
G1020 Site Demolition and Relocations	0.09	15,000
G3010 Water Supply	0.04	7,700
G3020 Sanitary Water	0.48	82,875
G3030 Storm Sewer	0.73	126,010
G3090 Other Site Mechanical Utilities	0.01	1,050
G4010 Electrical Distribution	0.17	29,850
G4020 Site Lighting	0.15	25,000
Utilities	\$1.67	\$287,485
ESTIMATED NET COST	\$74.29	\$12,784,128
MARGINS & ADJUSTMENTS		
Phasing / Temporary Works		Excl.
General Conditions	9.0 %	\$1,150,572
Bonds and Insurances	2.7 %	\$376,237
Overhead and Profit	4.5 %	\$643,992
Design / Estimating Contingency	10.0 %	\$1,495,493
Escalation - Q4 2015	8.0 %	\$1,319,578
ESTIMATED TOTAL COST	\$103.26	\$17,770,000

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 122,857.0 SF Cost/SF: \$53.25
 Rates Current At June 2014

P PUBLIC PARKING

Description	Unit	Qty	Rate	Total
03 Concrete				
A1010 Standard Foundations				
1 Concrete to spread footing; 5,000 psi	CY	857.5	190.00	162,925
2 Concrete to strip footing; 5,000 psi	CY	314.0	190.00	59,660
3 Concrete to grade beam; 5,000 psi	CY	11.0	190.00	2,090
4 Bar reinforcement to spread footing	Lb	59,996.5	1.20	71,996
5 Bar reinforcement to strip footing	Lb	31,351.0	1.20	37,621
6 Bar reinforcement to grade beam	Lb	1,096.0	1.20	1,315
7 Formwork to spread footing	SF	3,985.5	9.00	35,869
8 Formwork to strip footing	SF	1,976.5	9.00	17,788
9 Formwork to grade beam	SF	310.0	9.00	2,790
Standard Foundations			\$3.19/SF	\$392,054
A2020 Basement Walls				
23 Concrete to knee wall; 5,000 psi	CY	66.5	190.00	12,635
25 Bar reinforcement to knee wall	Lb	12,246.0	1.20	14,695
27 Formwork to knee wall	SF	2,383.0	11.00	26,213
42 Allowance for elevator pit	EA	1.0	7,500.00	7,500
Basement Walls			\$0.50/SF	\$61,043
B1010 Floor Construction				
16 Concrete to topping slab on metal deck; 5,000 psi	CY	21.4	190.00	4,066
17 Mesh reinforcement to topping slab	SF	1,374.0	0.90	1,237
18 Place and finish topping slab	SF	1,374.0	1.50	2,061
19 Allowance for joints	SF	1,374.0	0.50	687
20 Precast concrete suspended double tee's	SF	100,917.0	10.00	1,009,170
21 Precast concrete column; approx. 36" x 24"	LF	846.0	275.00	232,650
22 Precast concrete column; approx; 36" x 36"	LF	141.0	350.00	49,350
29 Precast concrete lite wall; 12" thick	SF	10,710.0	45.00	481,950
30 Precast concrete shear wall; 12" thick	SF	3,601.0	50.00	180,050
32 Precast concrete inverted tee; 36" deep	LF	239.0	400.00	95,600
240 Expansion joint	LF	558.0	75.00	41,850
111 Allowance for miscellaneous toppings, curbs, etc	SF	100,917.0	0.25	25,230
Floor Construction			\$17.29/SF	\$2,123,901
B1020 Roof Construction				
41 Precast concrete roof; stair / elevator shaft	SF	301.5	45.00	13,567
Roof Construction			\$0.11/SF	\$13,567
B2010 Exterior Walls				
45 Precast concrete spandrel panel; allow 12" thick	SF	14,165.0	45.00	637,425

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Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 122,857.0 SF Cost/SF: \$53.25
 Rates Current At June 2014

P PUBLIC PARKING (continued)

Description	Unit	Qty	Rate	Total
47 Allowance for precast concrete vertical fins	LF	746.0	150.00	111,900
Exterior Walls			\$6.10/SF	\$749,325
C1010 Partitions				
31 Precast concrete stair / elevator shaft	SF	5,460.0	40.00	218,400
53 Reinforced concrete partition wall; allow 8" thick	SF	1,564.0	40.00	62,560
Partitions			\$2.29/SF	\$280,960
C1030 Fittings				
112 Precast concrete wheelstop	EA	21.0	150.00	3,150
Fittings			\$0.03/SF	\$3,150
Concrete			\$29.50/SF	\$3,624,000
04 Masonry				
C1010 Partitions				
52 CMU Partition; allow 8" thick	SF	2,024.0	18.00	36,432
Partitions			\$0.30/SF	\$36,432
Masonry			\$0.30/SF	\$36,432
05 Metals				
B1010 Floor Construction				
33 Structural steel floor framing	T	22.539	4,000.00	90,156
34 Metal floor deck; 2" thick	SF	1,803.0	3.00	5,409
35 Shear studs	EA	451.0	6.00	2,706
37 Base plates and anchor bolts	EA	16.0	500.00	8,000
36 Allowance for miscellaneous steel, plates, and connections	T	1.129	4,000.00	4,516
Floor Construction			\$0.90/SF	\$110,787
B2010 Exterior Walls				
51 Metal stud exterior wall framing	SF	2,023.7	6.00	12,141
410 Metal mesh facade screen	SF	3,159.0	35.00	110,565
Exterior Walls			\$1.00/SF	\$122,706
C1030 Fittings				
48 Architectural vertical metal fin / blade; allow 36" centers (stainless steel)	LF	7,947.0	75.00	596,025
49 Architectural horizontal fin / blade; allow 24" centers (wood)	LF	11,921.0	25.00	298,025
411 Metal handrail to spandrel panel	LF	2,257.0	75.00	169,275
113 Elevator pit ladder	EA	1.0	1,500.00	1,500
81 Allowance for miscellaneous metals	SF	122,857.0	0.75	92,142
Fittings			\$9.42/SF	\$1,156,967

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Location Divisions/Elements Item

GFA: 122,857.0 SF Cost/SF: \$53.25
 Rates Current At June 2014

P PUBLIC PARKING (continued)

Description	Unit	Qty	Rate	Total
C2020 Stair Finishes				
86 4'-0" Wide metal pan stair w/- concrete filled treads and landings, including guardrails	FT/R	41.3	1,200.00	49,560
Stair Finishes			\$0.40/SF	\$49,560
Metals			\$11.72/SF	\$1,440,020
07 Thermal and Moisture Protection				
B1010 Floor Construction				
116 Spray-applied fireproofing to underside of structural steel framing / metal deck	SF	1,803.0	2.50	4,508
Floor Construction			\$0.04/SF	\$4,508
B2010 Exterior Walls				
44 Fiber cement siding	SF	2,023.6	10.00	20,236
Exterior Walls			\$0.16/SF	\$20,236
B3010 Roof Coverings				
121 Roofing membrane; stair / elevator	SF	301.5	9.00	2,713
125 Aluminum fascia capping	LF	99.5	20.00	1,990
126 Allowance for miscellaneous trims and flashings	SF	301.5	0.50	151
Roof Coverings			\$0.04/SF	\$4,854
C1030 Fittings				
83 Allowance for miscellaneous caulking and sealing	SF	122,857.0	0.25	30,713
84 Allowance for miscellaneous fire-proofing	SF	122,857.0	0.25	30,713
Fittings			\$0.50/SF	\$61,426
Thermal and Moisture Protection			\$0.74/SF	\$91,024
08 Openings				
B2030 Exterior Doors				
87 Double leaf fully glazed door, including frame, finish, and hardware	Pr	1.0	7,000.00	7,000
88 Single leaf fire-rated door, including frame, finish, and hardware	EA	2.0	2,000.00	4,000
Exterior Doors			\$0.09/SF	\$11,000
C1010 Partitions				
242 Fixed interior window	SF	55.0	65.00	3,575
Partitions			\$0.03/SF	\$3,575
C1020 Interior Doors				
91 Double leaf hollow metal door, including frame, finish, and hardware	Pr	1.0	3,000.00	3,000
94 Single leaf hollow metal door, including frame, finish, and hardware	EA	12.0	1,600.00	19,200

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 122,857.0 SF Cost/SF: \$53.25
 Rates Current At June 2014

P PUBLIC PARKING (continued)

Description	Unit	Qty	Rate	Total
92 Single leaf fire-rated door, including frame, finish, and hardware	EA	12.0	2,000.00	24,000
Interior Doors			\$0.38/SF	\$46,200
Openings			\$0.49/SF	\$60,775
09 Finishings				
B2010 Exterior Walls				
60 Gypboard wall lining to metal stud framing	SF	2,023.7	1.50	3,036
Exterior Walls			\$0.02/SF	\$3,036
C1010 Partitions				
54 Gypboard partition; standard	SF	3,774.0	8.00	30,192
55 Gypboard partition; fire-rated	SF	2,024.0	12.00	24,288
Partitions			\$0.44/SF	\$54,480
C1030 Fittings				
127 Allowance for miscellaneous painting	SF	122,857.0	0.50	61,429
Fittings			\$0.50/SF	\$61,429
C2020 Stair Finishes				
68 Concrete floor sealer to stair treads and landings	SF	1,015.0	2.00	2,030
Stair Finishes			\$0.02/SF	\$2,030
C3010 Wall Finishes				
57 Paint finish to gypboard wall lining	SF	13,619.8	1.20	16,344
58 Paint finish to CMU partition	SF	4,048.0	1.20	4,858
Wall Finishes			\$0.17/SF	\$21,202
C3020 Floor Finishes				
64 Ceramic floor tile; restrooms	SF	842.0	16.00	13,472
61 Ceramic floor tile; ground floor elevator lobby	SF	404.0	16.00	6,464
67 VCT Flooring; parking office	SF	151.0	4.00	604
65 Concrete floor sealer; plant rooms, etc	SF	1,175.0	1.20	1,410
70 Ceramic tile floor base; restrooms	LF	314.0	16.00	5,024
69 Ceramic tile floor base; ground floor elevator lobby	LF	130.0	16.00	2,080
71 Rubber floor base; plant rooms, etc	LF	442.0	3.00	1,326
73 Rubber floor base; parking office	LF	50.0	3.00	150
128 Linemarking; parking bays	LF	7,030.8	2.00	14,062
129 Linemarking; miscellaneous (hatching, logos, arrows, etc)	Item			13,500
Floor Finishes			\$0.47/SF	\$58,092
C3030 Ceiling Finishes				
78 Gypboard ceiling system; restrooms	SF	842.0	8.00	6,736
75 Gypboard ceiling; ground floor elevator lobby	SF	404.0	8.00	3,232

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 122,857.0 SF Cost/SF: \$53.25
 Rates Current At June 2014

P PUBLIC PARKING (continued)

Description	Unit	Qty	Rate	Total
80 ACT Ceiling system; parking office	SF	151.0	4.50	680
			Ceiling Finishes	\$0.09/SF
			Finishings	\$1.72/SF
				\$10,648
				\$210,917
10 Specialties				
C1030 Fittings				
99 Restroom accessories; toilet partition cubicle (std)	EA	4.0	1,000.00	4,000
100 Restroom accessories; toilet partition cubicle (ADA)	EA	3.0	1,400.00	4,200
109 Restroom accessories; urinal partition screen	EA	1.0	600.00	600
101 Restroom accessories; grab rail	EA	12.0	100.00	1,200
102 Restroom accessories; toilet tissue dispenser	EA	10.0	100.00	1,000
103 Restroom accessories; sanitary liner dispenser	EA	10.0	65.00	650
104 Restroom accessories; sanitary napkin receptacle	EA	7.0	65.00	455
105 Restroom accessories; hand dryer	EA	6.0	1,000.00	6,000
106 Restroom accessories; soap dispenser	EA	6.0	80.00	480
107 Restroom accessories; robe hook	EA	6.0	25.00	150
108 Restroom accessories; mirror	SF	90.0	35.00	3,150
130 Allowance for concrete filled steel bollards	EA	35.0	900.00	31,500
131 Allowance for fire extinguishers	EA	37.0	200.00	7,400
85 Allowance for interior signage	SF	122,857.0	0.50	61,429
			Fittings	\$0.99/SF
			Specialties	\$0.99/SF
				\$122,214
				\$122,214
11 Equipment				
E1030 Vehicular Equipment				
132 Parking equipment; pay station (pay on foot)	EA	3.0	25,000.00	75,000
133 Parking equipment; ticket dispenser / pay station	EA	1.0	20,000.00	20,000
135 Parking equipment; boom gate	EA	1.0	10,000.00	10,000
			Vehicular Equipment	\$0.85/SF
				\$105,000
E1090 Other Equipment				
136 Snow melt system - Excluded	Item			Excl.
			Other Equipment	Excl.
			Equipment	\$0.85/SF
				\$105,000
14 Conveying Equipment				
D1010 Elevators & Lifts				
139 Passenger elevator; (4) stop	EA	1.0	120,000.00	120,000
			Elevators & Lifts	\$0.98/SF
			Conveying Equipment	\$0.98/SF
				\$120,000
				\$120,000

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Location Divisions/Elements Item

GFA: 122,857.0 SF Cost/SF: \$53.25
 Rates Current At June 2014

P PUBLIC PARKING (continued)

Description	Unit	Qty	Rate	Total
21 Fire Suppression				
D4010 Sprinklers				
278 6" DVCA	EA	0.5	3,000.00	1,500
279 Allowance for backflow preventer assembly	EA	0.5	7,500.00	3,750
280 Fire department connections	EA	1.0	2,000.00	2,000
281 2-1/2" FDV	EA	10.0	1,500.00	15,000
283 Standpipe, black steel welded - 4"	LF	101.0	85.00	8,585
414 Standpipe drain, black steel threaded - 2"	LF	25.5	34.00	867
284 Fire department piping, underground- 4"	LF	202.5	35.00	7,087
285 Sprinkler piping, black steel threaded - assume avg. 1-1/2"	LF	146.0	30.00	4,380
286 Sprinkler head - pendant	EA	11.5	75.00	862
288 Allowance for undesigned fire suppression to parking structure offices and storage	SF	410.0	3.00	1,230
			Sprinklers	\$0.37/SF
			Fire Suppression	\$0.37/SF
				\$45,261
				\$45,261
22 Plumbing				
D2010 Plumbing Fixtures				
289 Water closet - ADA	EA	3.0	1,100.00	3,300
290 Water closet	EA	4.0	1,100.00	4,400
291 Urinal	EA	1.0	1,000.00	1,000
292 Lavatory	EA	5.0	1,200.00	6,000
293 Allowance for undesigned fixtures - connection only	Item			2,000
			Plumbing Fixtures	\$0.14/SF
				\$16,700
D2020 Domestic Water Distribution				
415 Domestic water meter - 2"	EA	0.5	1,500.00	750
419 Domestic water fixture rough-in	EA	13.0	300.00	3,900
417 Domestic water hot and cold piping, copper type L - 2-1/2"	LF	78.8	57.00	4,492
416 Domestic water hot and cold piping, copper type L - 1"	LF	79.1	45.00	3,559
418 Domestic water hot and cold piping, copper type L - 1/2"	LF	111.7	40.00	4,468
423 Piping insulation	LF	268.4	9.00	2,416
295 Electric water heater, with solenoid shut-off valve - 40 gal, 4.5	EA	0.5	5,500.00	2,750
297 Allowance for corresponding equipment - including recirculation pump, expansion tank, air seperator etc	Item			1,500
			Domestic Water Distribution	\$0.19/SF
				\$23,835
D2030 Sanitary Waste				
298 Floor drain - 4"	EA	36.0	650.00	23,400
300 Allowance for gas/oil interceptors	EA	1.0	5,000.00	5,000
301 Allowance for sanitary fixture rough-in	EA	13.0	200.00	2,600

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Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 122,857.0 SF Cost/SF: \$53.25
 Rates Current At June 2014

P PUBLIC PARKING (continued)

Description	Unit	Qty	Rate	Total
305 Sanitary and vent piping, cast iron - 4"	LF	476.0	40.00	19,040
420 Sanitary and vent branch piping - assume avg. 2"	LF	106.1	20.00	2,122
422 Garage waste risers, cast iron - 4"	LF	145.8	40.00	5,832
Sanitary Waste			\$0.47/SF	\$57,994
D2040 Rain Water Drainage				
424 Storm drain piping - 4"	LF	75.5	55.00	4,152
306 Storm drain piping - 6"	LF	50.5	65.00	3,282
307 Roof drains - 4"	EA	5.0	700.00	3,500
427 Roof drains - 6"	EA	1.0	850.00	850
Rain Water Drainage			\$0.10/SF	\$11,784
D2090 Other Plumbing Systems				
372 Coordination and management	Item			3,000
373 Fees and bonds	Item			1,250
Other Plumbing Systems			\$0.03/SF	\$4,250
Plumbing			\$0.93/SF	\$114,563
23 Heating, Ventilating, and Air Conditioning				
D3020 Heat Generating Systems				
428 Boilers - allowance 125 MBH	EA	1.0	5,000.00	5,000
429 Boiler hook-ups	EA	1.0	1,500.00	1,500
430 Hot water circulation pumps - allowance	EA	1.0	2,000.00	2,000
432 Expansion tank - allowance	EA	0.5	750.00	375
433 Air seperator - allowance	EA	0.5	750.00	375
Heat Generating Systems			\$0.08/SF	\$9,250
D3030 Cooling Generating Systems				
434 Chiller - allowance of 50 tons	EA	0.5	40,000.00	20,000
435 Chiller hook-ups	EA	0.5	7,500.00	3,750
436 Chilled water pumps - allowance	EA	1.0	3,000.00	3,000
437 Pump hook-ups	EA	1.0	750.00	750
438 Expansion tank - allowance	EA	0.5	750.00	375
439 Air seperator - allowance	EA	0.5	750.00	375
Cooling Generating Systems			\$0.23/SF	\$28,250
D3040 Distribution Systems				
431 Pump hook-ups	EA	1.0	750.00	750
440 Allowance for ductless split systems - ACC/AC	EA	1.0	6,000.00	6,000
444 Allowance for refrigerant piping	EA	150.0	20.00	3,000
441 Rooftop condenser - allowance	EA	0.5	20,000.00	10,000
443 Hot water heaters	EA	1.5	800.00	1,200

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 122,857.0 SF Cost/SF: \$53.25
 Rates Current At June 2014

P PUBLIC PARKING (continued)

Description	Unit	Qty	Rate	Total
445 Cabinet unit heaters	EA	1.0	750.00	750
447 Exhaust fans	EA	1.5	500.00	750
448 Allowance for chilled water distribution - assume avg. 1-1/4"	LF	250.0	45.00	11,250
449 Allowance for hot water distribution - assume avg. 1-1/4"	LF	250.0	45.00	11,250
450 Pipework insulation	LF	500.0	9.00	4,500
451 Allowance for ductwork	Lb	828.0	7.00	5,796
453 Allowance for diffusers, registers grille - assume 1/200SF	EA	2.0	175.00	350
Distribution Systems			\$0.45/SF	\$55,596
D3090 Other HVAC Systems & Equipment				
374 Rigging and handling	Item			5,000
375 Coordination and management	Item			2,000
376 Fees and bonds	Item			1,500
377 Temporary heating/cooling	SF	5,137.5	0.50	2,569
Other HVAC Systems & Equipment			\$0.09/SF	\$11,069
Heating, Ventilating, and Air Conditioning			\$0.85/SF	\$104,165
26 Electrical				
D5010 Electrical Service & Distribution				
259 Generator - Excluded (not shown)	Item			Excl.
313 Main switchboard - 1,200 A, 120/208V	EA	1.0	18,000.00	18,000
314 Main cabinet with meter	EA	1.0	5,000.00	5,000
315 Distribution panel - 800A, 120/208V	EA	1.0	12,000.00	12,000
317 Panelboard - 200A, 120/208V	EA	2.0	2,500.00	5,000
318 Panelboard - 100A, 120/208V	EA	2.0	1,500.00	3,000
455 Panelboard LCRP - allowance 100A	EA	1.0	1,500.00	1,500
319 Feeder - 800 A	LF	70.0	350.00	24,500
321 Feeder - 200 A	LF	325.0	40.00	13,000
322 Feeder - 100 A	LF	630.0	23.00	14,490
458 Allowance for power to mechanical charging stations	Item			5,000
324 Allowance for mechanical connections	Item			20,000
Electrical Service & Distribution			\$0.99/SF	\$121,490
D5020 Lighting and Branch Wiring				
328 Light Fixture Type F1 - LED pendant garage	EA	94.0	400.00	37,600
331 Light Fixture Type F3 - 4 ft Fluorescent wraparound	EA	11.0	200.00	2,200
332 Light Fixture Type F4 - 4 ft Fluorescent strip with wireguard	EA	6.0	225.00	1,350
333 Light Fixture Type F5 - 4 ft LED with occupancy sensor	EA	14.0	550.00	7,700
350 Light Fixture Type F8 - allowance	EA	4.0	350.00	1,400
336 Light Fixture P1- LED double head pole mounted	EA	3.0	3,500.00	10,500

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 122,857.0 SF Cost/SF: \$53.25
 Rates Current At June 2014

P PUBLIC PARKING (continued)

Description	Unit	Qty	Rate	Total
337 Light Fixture P1- LED triple head pole mounted	EA	2.0	4,000.00	8,000
338 Light Fixture - Exit sign	EA	17.0	250.00	4,250
339 Light Fixture - Emergency battery unit with double heads	EA	39.0	175.00	6,825
340 Switches	EA	4.0	25.00	100
341 Wiring to lighting points	EA	190.0	100.00	19,000
342 Duplex receptacle	EA	2.0	25.00	50
343 Duplex receptacle - GFI	EA	10.0	40.00	400
344 Duplex receptacle - GFI, WP	EA	4.0	65.00	260
346 Wiring to branch power points	EA	16.0	200.00	3,200
348 Allowance for undesigned lighting, controls and branch power	SF	122,857.0	0.15	18,429
Lighting and Branch Wiring			\$0.99/SF	\$121,264
D5090 Other Electrical Systems				
368 Coordination and management	Item			6,000
369 Fees and bonds	Item			2,500
370 Temporary power	SF	172,084.0	0.10	17,208
371 Grounding and bonding	SF	172,084.0	0.20	34,417
Other Electrical Systems			\$0.49/SF	\$60,125
G4010 Electrical Distribution				
311 Allowance for secondary feeder - 3 sets of 4#600KCMIL (4) 4" C	LF	87.0	384.00	33,408
325 Allowance for communication feeder - (2) 4" C only	LF	112.0	70.00	7,840
326 Allowance for feeder to existing building - (4) 4" C only	LF	356.0	140.00	49,840
327 Allowance for feeder to traffic control - (1) 4" C only	LF	100.0	35.00	3,500
Electrical Distribution			\$0.77/SF	\$94,588
Electrical			\$3.24/SF	\$397,467
27 Communications				
D5030 Communications & Security				
378 Allowance for additional communications infrastructure	Item			10,000
Communications & Security			\$0.08/SF	\$10,000
Communications			\$0.08/SF	\$10,000
28 Electronic Safety and Security				
D5030 Communications & Security				
349 Fire alarm - control panel	EA	0.5	6,000.00	3,000
351 Fire alarm - annunciator	EA	0.5	2,500.00	1,250
352 Fire alarm - remote alarm indicator	EA	2.0	250.00	500
457 Fire alarm - monitor module	EA	2.5	200.00	500
353 Fire alarm - control module	EA	2.0	180.00	360

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 122,857.0 SF Cost/SF: \$53.25
 Rates Current At June 2014

P PUBLIC PARKING (continued)

Description	Unit	Qty	Rate	Total
354 Fire alarm - manual pull station	EA	3.0	165.00	495
356 Fire alarm - horn/strobe	EA	2.0	200.00	400
357 Fire alarm - horn/strobe, WP	EA	9.0	250.00	2,250
360 Fire alarm - smoke detector	EA	1.0	205.00	205
363 Wiring to fire alarm points	EA	22.0	250.00	5,500
379 Security Systems - Excluded	SF	122,857.0		Excl.
Communications & Security			\$0.12/SF	\$14,460
Electronic Safety and Security			\$0.12/SF	\$14,460
31 Earthwork				
A1010 Standard Foundations				
201 Excavate for foundations	CY	1,418.0	12.00	17,016
202 Backfill to foundations using excavated materials	CY	236.5	12.00	2,838
200 Remove and dispose spoil from site	CY	1,182.0	22.00	26,004
Standard Foundations			\$0.37/SF	\$45,858
A1020 Special Foundations				
203 Deep foundation system - Excluded	Item			Excl.
Special Foundations				Excl.
Earthwork			\$0.37/SF	\$45,858
32 Exterior Improvements				
G2050 Landscaping				
234 Trees - Excluded (assume not required)	Item			Excl.
Landscaping				Excl.
Exterior Improvements				Excl.
PUBLIC PARKING			\$53.25/SF	\$6,542,156

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 41,214.0 SF Cost/SF: \$62.94
 Rates Current At June 2014

B BUSWAY

Description	Unit	Qty	Rate	Total
03 Concrete				
A1010 Standard Foundations				
1 Concrete to spread footing; 5,000 psi	CY	857.5	190.00	162,925
2 Concrete to strip footing; 5,000 psi	CY	314.0	190.00	59,660
3 Concrete to grade beam; 5,000 psi	CY	11.0	190.00	2,090
4 Bar reinforcement to spread footing	Lb	59,996.5	1.20	71,996
5 Bar reinforcement to strip footing	Lb	31,351.0	1.20	37,621
6 Bar reinforcement to grade beam	Lb	1,096.0	1.20	1,315
7 Formwork to spread footing	SF	3,985.5	9.00	35,870
8 Formwork to strip footing	SF	1,976.5	9.00	17,789
9 Formwork to grade beam	SF	310.0	9.00	2,790
Standard Foundations			\$9.51/SF	\$392,056
A1030 Slab on Grade				
10 Concrete to slab on grade; 5,000 psi (allow 5" thick)	CY	401.9	190.00	76,361
110 Concrete to structural slab on grade; 5,000 psi (allow 7" thick)	CY	235.0	190.00	44,650
11 Bar reinforcement to structural slab on grade	Lb	43,453.0	1.20	52,144
12 Mesh reinforcement to slab on grade	SF	26,006.0	0.90	23,405
13 Formwork to slab on grade	SF	937.8	9.00	8,440
14 Place and finish slab on grade	SF	41,214.0	1.50	61,821
15 Allowance for joints	SF	41,214.0	0.75	30,911
243 Reinforced concrete refuge island	SF	58.0	10.00	580
Slab on Grade			\$7.24/SF	\$298,312
A2020 Basement Walls				
23 Concrete to knee wall; 5,000 psi	CY	66.5	190.00	12,635
24 Concrete to ramp / retaining wall; 5,000 psi	CY	250.0	190.00	47,500
25 Bar reinforcement to knee wall	Lb	12,246.0	1.20	14,695
26 Bar reinforcement to ramp / retaining wall	Lb	46,071.0	1.20	55,285
27 Formwork to knee wall	SF	2,383.0	11.00	26,213
28 Formwork to ramp / retaining wall	SF	11,660.0	11.00	128,260
42 Allowance for elevator pit	EA	1.0	7,500.00	7,500
Basement Walls			\$7.09/SF	\$292,088
B1010 Floor Construction				
20 Precast concrete suspended double tee's	SF	20,137.0	10.00	201,370
111 Allowance for miscellaneous toppings, curbs, etc	SF	20,137.0	0.25	5,034
Floor Construction			\$5.01/SF	\$206,404

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 41,214.0 SF Cost/SF: \$62.94
 Rates Current At June 2014

B BUSWAY (continued)

Description	Unit	Qty	Rate	Total
B1020 Roof Construction				
41 Precast concrete roof; stair / elevator shaft	SF	301.5	45.00	13,568
Roof Construction			\$0.33/SF	\$13,568
C1010 Partitions				
31 Precast concrete stair / elevator shaft	SF	6,840.0	40.00	273,600
Partitions			\$6.64/SF	\$273,600
Concrete			\$35.81/SF	\$1,476,028
05 Metals				
C1030 Fittings				
113 Elevator pit ladder	EA	1.0	1,500.00	1,500
81 Allowance for miscellaneous metals	SF	41,214.0	0.75	30,911
Fittings			\$0.79/SF	\$32,411
C2020 Stair Finishes				
86 4'-0" Wide metal pan stair w/- concrete filled treads and landings, including guardrails	FT/R	45.7	1,200.00	54,840
Stair Finishes			\$1.33/SF	\$54,840
Metals			\$2.12/SF	\$87,251
07 Thermal and Moisture Protection				
A1030 Slab on Grade				
114 Vapor barrier (occupied spaces)	SF	4,799.0	0.50	2,400
115 Rigid insulation; allow 2" thick (occupied space)	SF	4,799.0	2.50	11,998
Slab on Grade			\$0.35/SF	\$14,398
B3010 Roof Coverings				
121 Roofing membrane; stair / elevator	SF	301.5	9.00	2,714
125 Aluminum fascia capping	LF	99.5	20.00	1,990
126 Allowance for miscellaneous trims and flashings	SF	301.6	0.50	151
Roof Coverings			\$0.12/SF	\$4,855
C1030 Fittings				
83 Allowance for miscellaneous caulking and sealing	SF	41,214.0	0.25	10,304
84 Allowance for miscellaneous fire-proofing	SF	41,214.0	0.25	10,304
Fittings			\$0.50/SF	\$20,608
Thermal and Moisture Protection			\$0.97/SF	\$39,861
09 Finishings				
C1030 Fittings				
127 Allowance for miscellaneous painting	SF	41,214.0	0.50	20,607
Fittings			\$0.50/SF	\$20,607

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 41,214.0 SF Cost/SF: \$62.94
 Rates Current At June 2014

B BUSWAY (continued)

Description	Unit	Qty	Rate	Total
C3020 Floor Finishes				
128 Linemarking; parking bays	LF	781.2	2.00	1,562
129 Linemarking; miscellaneous (hatching, logos, arrows, etc)	Item			1,500
Floor Finishes			\$0.07/SF	\$3,062
C3030 Ceiling Finishes				
241 Exterior grade curved ceiling at transit entrance	SF	2,100.0	20.00	42,000
Ceiling Finishes			\$1.02/SF	\$42,000
Finishings			\$1.59/SF	\$65,669
10 Specialties				
C1030 Fittings				
130 Allowance for concrete filled steel bollards	EA	15.0	900.00	13,500
131 Allowance for fire extinguishers	EA	8.0	200.00	1,600
85 Allowance for interior signage	SF	41,214.0	0.50	20,607
Fittings			\$0.87/SF	\$35,707
Specialties			\$0.87/SF	\$35,707
11 Equipment				
E1030 Vehicular Equipment				
132 Parking equipment; pay station (pay on foot)	EA	1.0	25,000.00	25,000
133 Parking equipment; ticket dispenser / pay station	EA	1.0	20,000.00	20,000
135 Parking equipment; boom gate	EA	1.0	10,000.00	10,000
Vehicular Equipment			\$1.33/SF	\$55,000
Equipment			\$1.33/SF	\$55,000
14 Conveying Equipment				
D1010 Elevators & Lifts				
140 Passenger elevator; (6) stop w/-rear opening doors	EA	1.0	180,000.00	180,000
Elevators & Lifts			\$4.37/SF	\$180,000
Conveying Equipment			\$4.37/SF	\$180,000
21 Fire Suppression				
D4010 Sprinklers				
278 6" DVCA	EA	0.5	3,000.00	1,500
279 Allowance for backflow preventer assembly	EA	0.5	7,500.00	3,750
280 Fire department connections	EA	1.0	2,000.00	2,000
281 2-1/2" FDV	EA	2.0	1,500.00	3,000
282 Fire department piping, underground- 8"	LF	75.0	75.00	5,625
414 Standpipe drain, black steel threaded - 2"	LF	25.5	34.00	867
284 Fire department piping, underground- 4"	LF	202.5	35.00	7,088
285 Sprinkler piping, black steel threaded - assume avg. 1-1/2"	LF	146.0	30.00	4,380

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 41,214.0 SF Cost/SF: \$62.94
 Rates Current At June 2014

B BUSWAY (continued)

Description	Unit	Qty	Rate	Total
286 Sprinkler head - pendant	EA	11.5	75.00	863
288 Allowance for undesigned fire suppression to parking structure offices and storage	SF	1,418.0	3.00	4,254
Sprinklers			\$0.81/SF	\$33,327
Fire Suppression			\$0.81/SF	\$33,327
22 Plumbing				
D2010 Plumbing Fixtures				
289 Water closet - ADA	EA	2.0	1,100.00	2,200
290 Water closet	EA	1.0	1,100.00	1,100
292 Lavatory	EA	1.0	1,200.00	1,200
Plumbing Fixtures			\$0.11/SF	\$4,500
D2020 Domestic Water Distribution				
415 Domestic water meter - 2"	EA	0.5	1,500.00	750
419 Domestic water fixture rough-in	EA	4.0	300.00	1,200
294 Incoming water service, black steel underground - 4"	LF	85.0	35.00	2,975
417 Domestic water hot and cold piping, copper type L - 2-1/2"	LF	44.2	57.00	2,519
416 Domestic water hot and cold piping, copper type L - 1"	LF	49.9	45.00	2,246
418 Domestic water hot and cold piping, copper type L - 1/2"	LF	44.3	40.00	1,772
423 Piping insulation	LF	137.6	9.00	1,238
295 Electric water heater, with solenoid shut-off valve - 40 gal, 4.5	EA	0.5	5,500.00	2,750
297 Allowance for corresponding equipment - including recirculation pump, expansion tank, air seperator etc	Item			1,500
Domestic Water Distribution			\$0.41/SF	\$16,950
D2030 Sanitary Waste				
298 Floor drain - 4"	EA	9.0	650.00	5,850
299 Floor cleanout	EA	8.0	200.00	1,600
300 Allowance for gas/oil interceptors	EA	1.0	5,000.00	5,000
301 Allowance for sanitary fixture rough-in	EA	4.0	200.00	800
304 Sanitary piping, underground - 4"	LF	676.0	55.00	37,180
420 Sanitary and vent branch piping - assume avg. 2"	LF	51.9	20.00	1,038
422 Garage waste risers, cast iron - 4"	LF	72.2	40.00	2,888
Sanitary Waste			\$1.32/SF	\$54,356
D2040 Rain Water Drainage				
365 Storm drain piping, underground - 15"	LF	76.0	100.00	7,600
424 Storm drain piping - 4"	LF	75.5	55.00	4,153
425 Storm drain piping, underground - 6"	LF	94.0	60.00	5,640
303 Storm drain piping, underground - 10"	LF	218.0	82.00	17,876
306 Storm drain piping - 6"	LF	50.5	65.00	3,283

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 41,214.0 SF Cost/SF: \$62.94
 Rates Current At June 2014

B BUSWAY (continued)

Description	Unit	Qty	Rate	Total
426 Storm drain piping, underground - 12"	LF	95.0	95.00	9,025
307 Roof drains - 4"	EA	5.0	700.00	3,500
427 Roof drains - 6"	EA	1.0	850.00	850
Rain Water Drainage			\$1.26/SF	\$51,927
D2090 Other Plumbing Systems				
372 Coordination and management	Item			3,000
373 Fees and bonds	Item			1,250
Other Plumbing Systems			\$0.10/SF	\$4,250
Plumbing			\$3.20/SF	\$131,983
23 Heating, Ventilating, and Air Conditioning				
D3020 Heat Generating Systems				
428 Boilers - allowance 125 MBH	EA	1.0	5,000.00	5,000
429 Boiler hook-ups	EA	1.0	1,500.00	1,500
430 Hot water circulation pumps - allowance	EA	1.0	2,000.00	2,000
432 Expansion tank - allowance	EA	0.5	750.00	375
433 Air seperator - allowance	EA	0.5	750.00	375
Heat Generating Systems			\$0.22/SF	\$9,250
D3030 Cooling Generating Systems				
434 Chiller - allowance of 50 tons	EA	0.5	40,000.00	20,000
435 Chiller hook-ups	EA	0.5	7,500.00	3,750
436 Chilled water pumps - allowance	EA	1.0	3,000.00	3,000
437 Pump hook-ups	EA	1.0	750.00	750
438 Expansion tank - allowance	EA	0.5	750.00	375
439 Air seperator - allowance	EA	0.5	750.00	375
Cooling Generating Systems			\$0.69/SF	\$28,250
D3040 Distribution Systems				
431 Pump hook-ups	EA	1.0	750.00	750
440 Allowance for ductless split systems - ACC/AC	EA	1.0	6,000.00	6,000
444 Allowance for refrigerant piping	EA	150.0	20.00	3,000
441 Rooftop condenser - allowance	EA	0.5	20,000.00	10,000
443 Hot water heaters	EA	1.5	800.00	1,200
445 Cabinet unit heaters	EA	1.0	750.00	750
447 Exhaust fans	EA	1.5	500.00	750
448 Allowance for chilled water distribution - assume avg. 1-1/4"	LF	250.0	45.00	11,250
449 Allowance for hot water distribution - assume avg. 1-1/4"	LF	250.0	45.00	11,250
450 Pipework insulation	LF	500.0	9.00	4,500
451 Allowance for ductwork	Lb	828.0	7.00	5,796

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 41,214.0 SF Cost/SF: \$62.94
 Rates Current At June 2014

B BUSWAY (continued)

Description	Unit	Qty	Rate	Total
453 Allowance for diffusers, registers grille - assume 1/200SF	EA	2.0	175.00	350
Distribution Systems			\$1.35/SF	\$55,596
D3090 Other HVAC Systems & Equipment				
374 Rigging and handling	Item			5,000
375 Coordination and management	Item			2,000
376 Fees and bonds	Item			1,000
377 Temporary heating/cooling	SF	5,137.5	0.50	2,569
Other HVAC Systems & Equipment			\$0.26/SF	\$10,569
Heating, Ventilating, and Air Conditioning			\$2.52/SF	\$103,665
26 Electrical				
D5020 Lighting and Branch Wiring				
328 Light Fixture Type F1 - LED pendant garage	EA	62.0	400.00	24,800
329 Light Fixture Type F1A - LED pendant garage	EA	29.0	500.00	14,500
330 Light Fixture Type F2 - 4 ft LED	EA	17.0	450.00	7,650
331 Light Fixture Type F3 - 4 ft Fluorescent wraparound	EA	7.0	200.00	1,400
332 Light Fixture Type F4 - 4 ft Fluorescent strip with wireguard	EA	18.0	225.00	4,050
333 Light Fixture Type F5 - 4 ft LED with occupancy sensor	EA	1.0	550.00	550
334 Light Fixture Type F6 - Elevator pit light	EA	2.0	250.00	500
335 Light Fixture Type F7 - LED pendant garage	EA	8.0	400.00	3,200
338 Light Fixture - Exit sign	EA	11.0	250.00	2,750
339 Light Fixture - Emergency battery unit with double heads	EA	26.0	175.00	4,550
340 Switches	EA	14.0	25.00	350
341 Wiring to lighting points	EA	195.0	100.00	19,500
342 Duplex receptacle	EA	3.0	25.00	75
343 Duplex receptacle - GFI	EA	8.0	40.00	320
344 Duplex receptacle - GFI, WP	EA	8.0	65.00	520
345 Quad receptacle	EA	4.0	40.00	160
346 Wiring to branch power points	EA	23.0	200.00	4,600
348 Allowance for undesigned lighting, controls and branch power	SF	41,214.0	0.15	6,182
Lighting and Branch Wiring			\$2.32/SF	\$95,657
D5090 Other Electrical Systems				
368 Coordination and management	Item			6,000
369 Fees and bonds	Item			2,500
Other Electrical Systems			\$0.21/SF	\$8,500
Electrical			\$2.53/SF	\$104,157

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 41,214.0 SF Cost/SF: \$62.94
 Rates Current At June 2014

B BUSWAY (continued)

Description	Unit	Qty	Rate	Total
28 Electronic Safety and Security				
D5030 Communications & Security				
349 Fire alarm - control panel	EA	0.5	6,000.00	3,000
351 Fire alarm - annunciator	EA	0.5	2,500.00	1,250
352 Fire alarm - remote alarm indicator	EA	2.0	250.00	500
457 Fire alarm - monitor module	EA	2.5	200.00	500
353 Fire alarm - control module	EA	2.0	180.00	360
354 Fire alarm - manual pull station	EA	4.0	165.00	660
355 Fire alarm - strobe	EA	3.0	185.00	555
356 Fire alarm - horn/strobe	EA	3.0	200.00	600
357 Fire alarm - horn/strobe, WP	EA	8.0	250.00	2,000
358 Fire alarm - knox box	EA	1.0	150.00	150
359 Fire alarm - exterior beacon	EA	1.0	275.00	275
360 Fire alarm - smoke detector	EA	5.0	205.00	1,025
361 Fire alarm - heat detector	EA	2.0	205.00	410
362 Fire alarm - tamper switch, flow switch	EA	6.0	200.00	1,200
363 Wiring to fire alarm points	EA	36.0	250.00	9,000
379 Security Systems - Excluded	SF	41,214.0		Excl.
Communications & Security			\$0.52/SF	\$21,485
Electronic Safety and Security			\$0.52/SF	\$21,485
31 Earthwork				
A1010 Standard Foundations				
201 Excavate for foundations	CY	1,418.0	12.00	17,016
202 Backfill to foundations using excavated materials	CY	236.5	12.00	2,838
200 Remove and dispose spoil from site	CY	1,182.0	22.00	26,004
Standard Foundations			\$1.11/SF	\$45,858
A1020 Special Foundations				
203 Deep foundation system - Excluded	Item			Excl.
Special Foundations				Excl.
G1030 Site Earthwork				
212 Excavate existing fill beneath proposed slab on grade	CY	3,053.0	8.00	24,424
213 Imported structural fill to building platform	CY	3,053.0	30.00	91,590
214 Remove and dispose excavated spoil from site	CY	3,053.0	22.00	67,166
Site Earthwork			\$4.44/SF	\$183,180
Earthwork			\$5.56/SF	\$229,038

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 41,214.0 SF Cost/SF: \$62.94
 Rates Current At June 2014

B BUSWAY (continued)

Description	Unit	Qty	Rate	Total
32 Exterior Improvements				
G2050 Landscaping				
234 Trees - Excluded (assume not required)	Item			Excl.
	<i>Landscaping</i>			<i>Excl.</i>
	<i>Exterior Improvements</i>			<i>Excl.</i>
33 Utilities				
G3030 Storm Sewer				
239 Underslab / perimeter drainage; 6" perforated PVC	LF	769.0	40.00	30,760
	<i>Storm Sewer</i>		<i>\$0.75/SF</i>	<i>\$30,760</i>
	<i>Utilities</i>		<i>\$0.75/SF</i>	<i>\$30,760</i>
	<i>BUSWAY</i>		<i>\$62.94/SF</i>	<i>\$2,593,931</i>

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Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 1,152.0 SF Cost/SF: \$391.47
 Rates Current At June 2014

TC TRANSIT CENTER

Description	Unit	Qty	Rate	Total
03 Concrete				
A1030 Slab on Grade				
10 Concrete to slab on grade; 5,000 psi (allow 5" thick)	CY	17.9	190.00	3,401
12 Mesh reinforcement to slab on grade	SF	1,152.0	0.90	1,037
13 Formwork to slab on grade	SF	73.9	9.00	665
14 Place and finish slab on grade	SF	1,152.0	1.50	1,728
15 Allowance for joints	SF	1,152.0	0.75	864
Slab on Grade			\$6.68/SF	\$7,695
Concrete			\$6.68/SF	\$7,695
04 Masonry				
B2010 Exterior Walls				
50 CMU Backup to siding; allow 8" thick	SF	3,872.0	18.00	69,696
Exterior Walls			\$60.50/SF	\$69,696
Masonry			\$60.50/SF	\$69,696
05 Metals				
B1020 Roof Construction				
38 Structural steel roof framing	T	3.163	4,000.00	12,652
39 Metal roof deck; 2" thick	SF	253.1	3.00	759
40 Allowance for miscellaneous steel, plates, and connections	T	0.159	4,000.00	636
Roof Construction			\$12.19/SF	\$14,047
C1030 Fittings				
81 Allowance for miscellaneous metals	SF	1,152.0	0.75	864
Fittings			\$0.75/SF	\$864
Metals			\$12.94/SF	\$14,911
06 Wood, Plastics, and Composites				
C1030 Fittings				
82 Allowance for wood blocking / rough carpentry	SF	1,152.0	1.50	1,728
Fittings			\$1.50/SF	\$1,728
Wood, Plastics, and Composites			\$1.50/SF	\$1,728
07 Thermal and Moisture Protection				
A1030 Slab on Grade				
114 Vapor barrier (occupied spaces)	SF	1,152.0	0.50	576
115 Rigid insulation; allow 2" thick (occupied space)	SF	1,152.0	2.50	2,880
Slab on Grade			\$3.00/SF	\$3,456
B1020 Roof Construction				
118 Rigid insulation; allow 3" thick	SF	253.1	3.50	886

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 1,152.0 SF Cost/SF: \$391.47
 Rates Current At June 2014

TC TRANSIT CENTER (continued)

Description	Unit	Qty	Rate	Total
117 Spray-applied fireproofing to underside of structural steel framing / metal deck	SF	253.1	2.50	633
Roof Construction			\$1.32/SF	\$1,519
B2010 Exterior Walls				
44 Fiber cement siding	SF	3,872.2	10.00	38,722
Exterior Walls			\$33.61/SF	\$38,722
B3010 Roof Coverings				
120 Roofing membrane; transit center	SF	125.0	9.00	1,125
409 Rigid insulation	SF	125.1	3.00	375
125 Aluminum fascia capping	LF	64.0	20.00	1,280
248 Allowance for green roof to transit center	SF	128.0	40.00	5,120
126 Allowance for miscellaneous trims and flashings	SF	253.1	0.50	127
Roof Coverings			\$6.97/SF	\$8,027
C1030 Fittings				
83 Allowance for miscellaneous caulking and sealing	SF	1,152.0	0.25	288
84 Allowance for miscellaneous fire-proofing	SF	1,152.0	0.25	288
Fittings			\$0.50/SF	\$576
Thermal and Moisture Protection			\$45.40/SF	\$52,300
08 Openings				
B2020 Exterior Windows				
46 Fixed window unit	SF	762.0	120.00	91,440
Exterior Windows			\$79.38/SF	\$91,440
B2030 Exterior Doors				
87 Double leaf fully glazed door, including frame, finish, and hardware	Pr	1.0	7,000.00	7,000
90 Single leaf hollow metal door, including frame, finish, and hardware	EA	1.0	1,600.00	1,600
Exterior Doors			\$7.47/SF	\$8,600
C1020 Interior Doors				
94 Single leaf hollow metal door, including frame, finish, and hardware	EA	1.0	1,600.00	1,600
Interior Doors			\$1.39/SF	\$1,600
Openings			\$88.23/SF	\$101,640
09 Finishings				
B2010 Exterior Walls				
59 Gypboard wall lining on furring to CMU backup	SF	3,872.0	4.00	15,488
Exterior Walls			\$13.44/SF	\$15,488

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 1,152.0 SF Cost/SF: \$391.47
 Rates Current At June 2014

TC TRANSIT CENTER (continued)

Description	Unit	Qty	Rate	Total
C1010 Partitions				
54 Gypboard partition; standard	SF	616.0	8.00	4,928
			Partitions	\$4.28/SF
				\$4,928
C3010 Wall Finishes				
57 Paint finish to gypboard wall lining	SF	1,232.0	1.20	1,478
			Wall Finishes	\$1.28/SF
				\$1,478
C3020 Floor Finishes				
66 Porcelain floor tile; transit center	SF	565.0	18.00	10,170
65 Concrete floor sealer; plant rooms, etc	SF	357.0	1.20	428
72 Porcelain tile floor base; transit center	LF	111.0	18.00	1,998
71 Rubber floor base; plant rooms, etc	LF	107.0	3.00	321
			Floor Finishes	\$11.21/SF
				\$12,917
C3030 Ceiling Finishes				
79 ACT Ceiling system; transit center	SF	565.0	4.50	2,543
			Ceiling Finishes	\$2.21/SF
				\$2,543
			Finishings	\$32.43/SF
				\$37,354
10 Specialties				
C1030 Fittings				
85 Allowance for interior signage	SF	1,152.0	0.50	576
			Fittings	\$0.50/SF
				\$576
			Specialties	\$0.50/SF
				\$576
11 Equipment				
E1030 Vehicular Equipment				
134 Transit equipment; ticket machine	EA	3.0	35,000.00	105,000
			Vehicular Equipment	\$91.15/SF
				\$105,000
			Equipment	\$91.15/SF
				\$105,000
13 Special Construction				
F1030 Special Construction Systems				
137 Interior fit-out and miscellaneous finishes; transit center	SF	1,152.0	25.00	28,800
			Special Construction Systems	\$25.00/SF
				\$28,800
			Special Construction	\$25.00/SF
				\$28,800
21 Fire Suppression				
D4010 Sprinklers				
277 Allowance for undesigned fire suppression to transit center	SF	1,152.0	2.50	2,880
			Sprinklers	\$2.50/SF
				\$2,880
			Fire Suppression	\$2.50/SF
				\$2,880

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 1,152.0 SF Cost/SF: \$391.47
 Rates Current At June 2014

TC TRANSIT CENTER (continued)

Description	Unit	Qty	Rate	Total
22 Plumbing				
D2010 Plumbing Fixtures				
270 Allowance for fixtures to transit center	Item			5,000
			Plumbing Fixtures	\$4.34/SF
			Plumbing	\$4.34/SF
				\$5,000
23 Heating, Ventilating, and Air Conditioning				
D3040 Distribution Systems				
440 Allowance for ductless split systems - ACC/AC	EA	1.0	6,000.00	6,000
444 Allowance for refrigerant piping	EA	100.0	20.00	2,000
445 Cabinet unit heaters	EA	1.0	750.00	750
			Distribution Systems	\$7.60/SF
			Heating, Ventilating, and Air Conditioning	\$7.60/SF
				\$8,750
26 Electrical				
D5020 Lighting and Branch Wiring				
330 Light Fixture Type F2 - 4 ft LED	EA	4.0	450.00	1,800
331 Light Fixture Type F3 - 4 ft Fluorescent wraparound	EA	8.0	200.00	1,600
332 Light Fixture Type F4 - 4 ft Fluorescent strip with wireguard	EA	5.0	225.00	1,125
339 Light Fixture - Emergency battery unit with double heads	EA	2.0	175.00	350
340 Switches	EA	2.0	25.00	50
341 Wiring to lighting points	EA	21.0	100.00	2,100
342 Duplex receptacle	EA	5.0	25.00	125
343 Duplex receptacle - GFI	EA	6.0	40.00	240
344 Duplex receptacle - GFI, WP	EA	1.0	65.00	65
345 Quad receptacle	EA	3.0	40.00	120
346 Wiring to branch power points	EA	15.0	200.00	3,000
348 Allowance for undesigned lighting, controls and branch power	SF	1,152.0	0.15	173
			Lighting and Branch Wiring	\$9.33/SF
			Electrical	\$9.33/SF
				\$10,748
27 Communications				
D5030 Communications & Security				
347 Tele/data outlets - conduit and backbox only	EA	5.0	200.00	1,000
			Communications & Security	\$0.87/SF
			Communications	\$0.87/SF
				\$1,000
28 Electronic Safety and Security				
D5030 Communications & Security				
352 Fire alarm - remote alarm indicator	EA	1.0	250.00	250
354 Fire alarm - manual pull station	EA	2.0	165.00	330

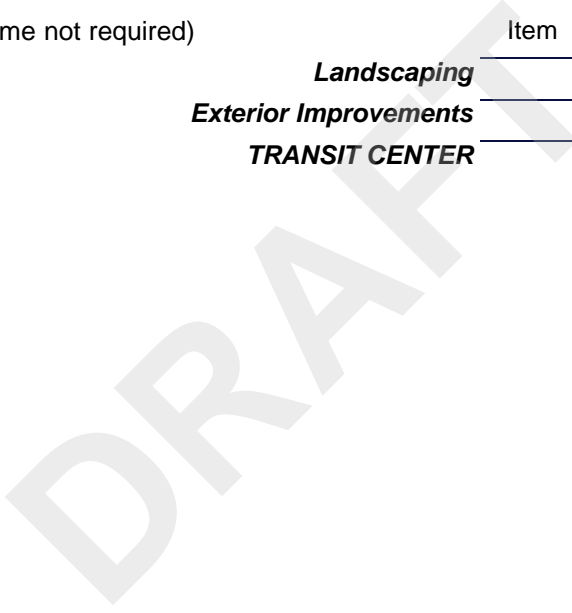
Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 1,152.0 SF Cost/SF: \$391.47
 Rates Current At June 2014

TC TRANSIT CENTER (continued)

Description	Unit	Qty	Rate	Total
356 Fire alarm - horn/strobe	EA	1.0	200.00	200
360 Fire alarm - smoke detector	EA	3.0	205.00	615
363 Wiring to fire alarm points	EA	6.0	250.00	1,500
379 Security Systems - Excluded	SF	1,152.0		Excl.
Communications & Security			\$2.51/SF	\$2,895
Electronic Safety and Security			\$2.51/SF	\$2,895
32 Exterior Improvements				
G2050 Landscaping				
234 Trees - Excluded (assume not required)	Item			Excl.
Landscaping				Excl.
Exterior Improvements				Excl.
TRANSIT CENTER			\$391.47/SF	\$450,973



Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 1,960.0 SF Cost/SF: \$68.10
 Rates Current At June 2014

V VISITOR CENTER

Description	Unit	Qty	Rate	Total
03 Concrete				
A1030 Slab on Grade				
10 Concrete to slab on grade; 5,000 psi (allow 5" thick)	CY	30.2	190.00	5,738
12 Mesh reinforcement to slab on grade	SF	1,960.0	0.90	1,764
13 Formwork to slab on grade	SF	79.3	9.00	714
14 Place and finish slab on grade	SF	1,960.0	1.50	2,940
15 Allowance for joints	SF	1,960.0	0.75	1,470
Slab on Grade			\$6.44/SF	\$12,626
Concrete			\$6.44/SF	\$12,626
05 Metals				
B2010 Exterior Walls				
51 Metal stud exterior wall framing	SF	1,599.1	6.00	9,595
Exterior Walls			\$4.90/SF	\$9,595
C1030 Fittings				
81 Allowance for miscellaneous metals	SF	1,960.0	0.75	1,470
Fittings			\$0.75/SF	\$1,470
Metals			\$5.65/SF	\$11,065
06 Wood, Plastics, and Composites				
B1010 Floor Construction				
244 Architectural exterior column	LF	52.2	50.00	2,610
Floor Construction			\$1.33/SF	\$2,610
C1030 Fittings				
82 Allowance for wood blocking / rough carpentry	SF	1,960.0	1.50	2,940
Fittings			\$1.50/SF	\$2,940
Wood, Plastics, and Composites			\$2.83/SF	\$5,550
07 Thermal and Moisture Protection				
A1030 Slab on Grade				
114 Vapor barrier (occupied spaces)	SF	1,966.0	0.50	983
115 Rigid insulation; allow 2" thick (occupied space)	SF	1,966.0	2.50	4,915
Slab on Grade			\$3.01/SF	\$5,898
B2010 Exterior Walls				
44 Fiber cement siding	SF	1,599.0	10.00	15,990
Exterior Walls			\$8.16/SF	\$15,990
C1030 Fittings				
83 Allowance for miscellaneous caulking and sealing	SF	1,960.0	0.25	490

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 1,960.0 SF Cost/SF: \$68.10
 Rates Current At June 2014

V VISITOR CENTER (continued)

Description	Unit	Qty	Rate	Total
84 Allowance for miscellaneous fire-proofing	SF	1,960.0	0.25	490
	<i>Fittings</i>		<i>\$0.50/SF</i>	<i>\$980</i>
	<i>Thermal and Moisture Protection</i>		<i>\$11.67/SF</i>	<i>\$22,868</i>
08 Openings				
B2020 Exterior Windows				
46 Fixed window unit	SF	351.0	120.00	42,120
	<i>Exterior Windows</i>		<i>\$21.49/SF</i>	<i>\$42,120</i>
C1010 Partitions				
56 Aluminum framed storefront system	SF	156.0	55.00	8,580
	<i>Partitions</i>		<i>\$4.38/SF</i>	<i>\$8,580</i>
C1020 Interior Doors				
93 Single leaf fully glazed door, including frame, finish, and hardware	EA	1.0	4,000.00	4,000
	<i>Interior Doors</i>		<i>\$2.04/SF</i>	<i>\$4,000</i>
	<i>Openings</i>		<i>\$27.91/SF</i>	<i>\$54,700</i>
09 Finishings				
B2010 Exterior Walls				
60 Gypboard wall lining to metal stud framing	SF	1,599.1	1.50	2,399
	<i>Exterior Walls</i>		<i>\$1.22/SF</i>	<i>\$2,399</i>
C3010 Wall Finishes				
57 Paint finish to gypboard wall lining	SF	1,599.0	1.20	1,919
	<i>Wall Finishes</i>		<i>\$0.98/SF</i>	<i>\$1,919</i>
C3020 Floor Finishes				
62 Floor finish to leasable tenancy; excluded (tenant improvement)	SF	1,839.0		Excl.
	<i>Floor Finishes</i>			<i>Excl.</i>
C3030 Ceiling Finishes				
76 Ceiling finish to leasable tenancy; excluded (tenant improvement)	SF	1,839.0		Excl.
	<i>Ceiling Finishes</i>			<i>Excl.</i>
	<i>Finishings</i>		<i>\$2.20/SF</i>	<i>\$4,318</i>
13 Special Construction				
F1030 Special Construction Systems				
138 Interior fit-out and miscellaneous finishes; leasable tenancy - excluded (tenant improvement)	SF	1,960.0		Excl.
	<i>Special Construction Systems</i>			<i>Excl.</i>
	<i>Special Construction</i>			<i>Excl.</i>

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 1,960.0 SF Cost/SF: \$68.10
 Rates Current At June 2014

V VISITOR CENTER (continued)

Description	Unit	Qty	Rate	Total
21 Fire Suppression				
D4010 Sprinklers				
285 Sprinkler piping, black steel threaded - assume avg. 1-1/2"	LF	178.0	30.00	5,340
286 Sprinkler head - pendant	EA	15.0	75.00	1,125
Sprinklers			\$3.30/SF	\$6,465
Fire Suppression			\$3.30/SF	\$6,465
22 Plumbing				
D2020 Domestic Water Distribution				
296 Allowance for branch piping connection for leasable areas	Item			2,000
Domestic Water Distribution			\$1.02/SF	\$2,000
D2030 Sanitary Waste				
302 Allowance for branch piping connection for leasable areas	Item			300
Sanitary Waste			\$0.15/SF	\$300
Plumbing			\$1.17/SF	\$2,300
23 Heating, Ventilating, and Air Conditioning				
D3040 Distribution Systems				
442 Fan coil units -allowance	EA	1.0	2,000.00	2,000
451 Allowance for ductwork	Lb	525.0	7.00	3,675
452 Ductwork insulation	SF	425.0	3.00	1,275
453 Allowance for diffusers, registers grille - assume 1/200SF	EA	10.0	175.00	1,750
Distribution Systems			\$4.44/SF	\$8,700
Heating, Ventilating, and Air Conditioning			\$4.44/SF	\$8,700
26 Electrical				
D5010 Electrical Service & Distribution				
456 Future tenant distribution - Excluded	Item			Excl.
Electrical Service & Distribution				Excl.
D5020 Lighting and Branch Wiring				
332 Light Fixture Type F4 - 4 ft Fluorescent strip with wireguard	EA	6.0	225.00	1,350
338 Light Fixture - Exit sign	EA	1.0	250.00	250
339 Light Fixture - Emergency battery unit with double heads	EA	3.0	175.00	525
340 Switches	EA	1.0	25.00	25
341 Wiring to lighting points	EA	11.0	100.00	1,100
342 Duplex receptacle	EA	1.0	25.00	25
346 Wiring to branch power points	EA	1.0	200.00	200
348 Allowance for undesigned lighting, controls and branch power	SF	1,960.0	0.15	294
Lighting and Branch Wiring			\$1.92/SF	\$3,769
Electrical			\$1.92/SF	\$3,769

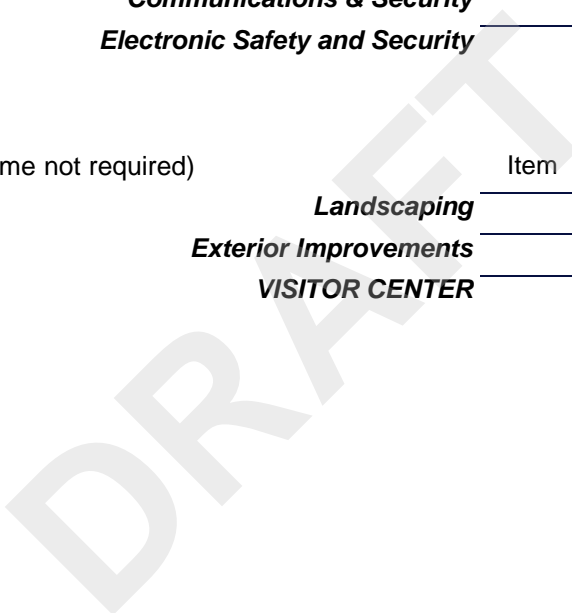
Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 1,960.0 SF Cost/SF: \$68.10
 Rates Current At June 2014

V VISITOR CENTER (continued)

Description	Unit	Qty	Rate	Total
28 Electronic Safety and Security				
D5030 Communications & Security				
352 Fire alarm - remote alarm indicator	EA	1.0	250.00	250
354 Fire alarm - manual pull station	EA	1.0	165.00	165
356 Fire alarm - horn/strobe	EA	1.0	200.00	200
363 Wiring to fire alarm points	EA	2.0	250.00	500
379 Security Systems - Excluded	SF	1,960.0		Excl.
			Communications & Security	\$0.57/SF
			Electronic Safety and Security	\$1,115
32 Exterior Improvements				
G2050 Landscaping				
234 Trees - Excluded (assume not required)	Item			Excl.
			Landscaping	Excl.
			Exterior Improvements	Excl.
			VISITOR CENTER	\$68.10/SF
				\$133,476



Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 1,294.0 SF Cost/SF: \$318.77
 Rates Current At June 2014

LSM LEASABLE SPACE; MEZZANINE

Description	Unit	Qty	Rate	Total
03 Concrete				
B1010 Floor Construction				
16 Concrete to topping slab on metal deck; 5,000 psi	CY	38.4	190.00	7,296
17 Mesh reinforcement to topping slab	SF	2,479.0	0.90	2,231
18 Place and finish topping slab	SF	2,479.0	1.50	3,719
19 Allowance for joints	SF	2,479.0	0.50	1,240
Floor Construction			\$11.19/SF	\$14,486
C2010 Stair Construction				
96 Reinforced concrete stair on grade (exterior feature entry stair)	SF	505.0	25.00	12,625
Stair Construction			\$9.76/SF	\$12,625
Concrete			\$20.95/SF	\$27,111
05 Metals				
B1010 Floor Construction				
33 Structural steel floor framing	T	30.989	4,000.00	123,956
34 Metal floor deck; 2" thick	SF	2,479.0	3.00	7,437
36 Allowance for miscellaneous steel, plates, and connections	T	1.550	4,000.00	6,200
Floor Construction			\$106.33/SF	\$137,593
B2010 Exterior Walls				
51 Metal stud exterior wall framing	SF	930.1	6.00	5,581
Exterior Walls			\$4.31/SF	\$5,581
C1030 Fittings				
81 Allowance for miscellaneous metals	SF	1,294.0	0.75	971
Fittings			\$0.75/SF	\$971
Metals			\$111.39/SF	\$144,145
06 Wood, Plastics, and Composites				
B1010 Floor Construction				
244 Architectural exterior column	LF	139.8	50.00	6,990
Floor Construction			\$5.40/SF	\$6,990
C1030 Fittings				
246 Architectural trim / molding at top of columns	SF	144.0	75.00	10,800
82 Allowance for wood blocking / rough carpentry	SF	1,294.0	1.50	1,941
Fittings			\$9.85/SF	\$12,741
Wood, Plastics, and Composites			\$15.25/SF	\$19,731

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 1,294.0 SF Cost/SF: \$318.77
 Rates Current At June 2014

LSM LEASABLE SPACE; MEZZANINE (continued)

Description	Unit	Qty	Rate	Total
07 Thermal and Moisture Protection				
B1010 Floor Construction				
116 Spray-applied fireproofing to underside of structural steel framing / metal deck	SF	2,479.0	2.50	6,197
			Floor Construction	\$4.79/SF \$6,197
B2010 Exterior Walls				
44 Fiber cement siding	SF	930.1	10.00	9,301
			Exterior Walls	\$7.19/SF \$9,301
C1030 Fittings				
83 Allowance for miscellaneous caulking and sealing	SF	1,294.0	0.25	324
84 Allowance for miscellaneous fire-proofing	SF	1,294.0	0.25	324
			Fittings	\$0.50/SF \$648
			Thermal and Moisture Protection	\$12.48/SF \$16,146
08 Openings				
B2010 Exterior Walls				
43 Aluminum framed storefront system	SF	589.0	100.00	58,900
			Exterior Walls	\$45.52/SF \$58,900
C1030 Fittings				
95 Exterior glazed guardrail (balcony)	LF	108.0	350.00	37,800
97 Exterior glazed guardrail (exterior entry stair)	LF	81.0	350.00	28,350
			Fittings	\$51.12/SF \$66,150
			Openings	\$96.64/SF \$125,050
09 Finishings				
B2010 Exterior Walls				
60 Gypboard wall lining to metal stud framing	SF	930.1	1.50	1,395
			Exterior Walls	\$1.08/SF \$1,395
C2020 Stair Finishes				
98 Feature finish to exterior feature entry stair	SF	505.0	25.00	12,625
			Stair Finishes	\$9.76/SF \$12,625
C3010 Wall Finishes				
57 Paint finish to gypboard wall lining	SF	930.1	1.20	1,116
			Wall Finishes	\$0.86/SF \$1,116
C3020 Floor Finishes				
63 Wood decking to balcony; leasable tenancy	SF	1,075.0	15.00	16,125
62 Floor finish to leasable tenancy; excluded (tenant improvement)	SF	1,197.0		Excl.
			Floor Finishes	\$12.46/SF \$16,125

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 1,294.0 SF Cost/SF: \$318.77
 Rates Current At June 2014

LSM LEASABLE SPACE; MEZZANINE (continued)

Description	Unit	Qty	Rate	Total
C3030 Ceiling Finishes				
77 Exterior grade ceiling system; leasable tenancy (balcony)	SF	1,075.0	10.00	10,750
76 Ceiling finish to leasable tenancy; excluded (tenant improvement)	SF	1,197.0		Excl.
Ceiling Finishes			\$8.31/SF	\$10,750
Finishings			\$32.47/SF	\$42,011
13 Special Construction				
F1030 Special Construction Systems				
138 Interior fit-out and miscellaneous finishes; leasable tenancy - excluded (tenant improvement)	SF	1,294.0		Excl.
Special Construction Systems				Excl.
Special Construction				Excl.
21 Fire Suppression				
D4010 Sprinklers				
285 Sprinkler piping, black steel threaded - assume avg. 1-1/2"	LF	100.0	30.00	3,000
286 Sprinkler head - pendant	EA	11.0	75.00	825
Sprinklers			\$2.96/SF	\$3,825
Fire Suppression			\$2.96/SF	\$3,825
22 Plumbing				
D2020 Domestic Water Distribution				
296 Allowance for branch piping connection for leasable areas	Item			2,000
Domestic Water Distribution			\$1.55/SF	\$2,000
D2030 Sanitary Waste				
302 Allowance for branch piping connection for leasable areas	Item			300
304 Sanitary piping, underground - 4"	LF	154.0	55.00	8,470
421 Kitchen waste piping, cast iron - 4"	LF	49.0	40.00	1,960
Sanitary Waste			\$8.29/SF	\$10,730
Plumbing			\$9.84/SF	\$12,730
23 Heating, Ventilating, and Air Conditioning				
D3040 Distribution Systems				
442 Fan coil units -allowance	EA	1.0	2,000.00	2,000
443 Hot water heaters	EA	1.0	800.00	800
446 Finned tube radiation	LF	65.0	100.00	6,500
451 Allowance for ductwork	Lb	300.0	7.00	2,100
452 Ductwork insulation	SF	240.0	3.00	720
453 Allowance for diffusers, registers grille - assume 1/200SF	EA	6.0	175.00	1,050
Distribution Systems			\$10.18/SF	\$13,170
Heating, Ventilating, and Air Conditioning			\$10.18/SF	\$13,170

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 1,294.0 SF Cost/SF: \$318.77
 Rates Current At June 2014

LSM LEASABLE SPACE; MEZZANINE (continued)

Description	Unit	Qty	Rate	Total
26 Electrical				
D5010 Electrical Service & Distribution				
456 Future tenant distribution - Excluded	Item			Excl.
Electrical Service & Distribution				Excl.
D5020 Lighting and Branch Wiring				
328 Light Fixture Type F1 - LED pendant garage	EA	6.0	400.00	2,400
338 Light Fixture - Exit sign	EA	3.0	250.00	750
339 Light Fixture - Emergency battery unit with double heads	EA	1.0	175.00	175
340 Switches	EA	1.0	25.00	25
341 Wiring to lighting points	EA	11.0	100.00	1,100
348 Allowance for undesigned lighting, controls and branch power	SF	1,294.0	0.15	194
366 Allowance for exterior/canopy lighting	SF	1,075.0	2.00	2,150
Lighting and Branch Wiring			\$5.25/SF	\$6,794
Electrical			\$5.25/SF	\$6,794
28 Electronic Safety and Security				
D5030 Communications & Security				
354 Fire alarm - manual pull station	EA	1.0	165.00	165
356 Fire alarm - horn/strobe	EA	2.0	200.00	400
360 Fire alarm - smoke detector	EA	1.0	205.00	205
363 Wiring to fire alarm points	EA	4.0	250.00	1,000
379 Security Systems - Excluded	SF	1,294.0		Excl.
Communications & Security			\$1.37/SF	\$1,770
Electronic Safety and Security			\$1.37/SF	\$1,770
32 Exterior Improvements				
G2050 Landscaping				
234 Trees - Excluded (assume not required)	Item			Excl.
Landscaping				Excl.
Exterior Improvements				Excl.
LEASABLE SPACE; MEZZANINE			\$318.77/SF	\$412,483

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 3,607.0 SF Cost/SF: \$263.52
 Rates Current At June 2014

LS2 LEASABLE SPACE; LEVEL 2.5

Description	Unit	Qty	Rate	Total
03 Concrete				
B1010 Floor Construction				
16 Concrete to topping slab on metal deck; 5,000 psi	CY	91.2	190.00	17,328
17 Mesh reinforcement to topping slab	SF	5,881.0	0.90	5,293
18 Place and finish topping slab	SF	5,881.0	1.50	8,821
19 Allowance for joints	SF	5,881.0	0.50	2,940
Floor Construction			\$9.53/SF	\$34,382
Concrete			\$9.53/SF	\$34,382
05 Metals				
B1010 Floor Construction				
33 Structural steel floor framing	T	68.152	4,000.00	272,608
34 Metal floor deck; 2" thick	SF	5,452.0	3.00	16,356
36 Allowance for miscellaneous steel, plates, and connections	T	3.411	4,000.00	13,644
Floor Construction			\$83.89/SF	\$302,608
B1020 Roof Construction				
38 Structural steel roof framing	T	45.587	4,000.00	182,348
39 Metal roof deck; 2" thick	SF	4,194.9	3.00	12,585
40 Allowance for miscellaneous steel, plates, and connections	T	2.281	4,000.00	9,124
Roof Construction			\$56.57/SF	\$204,057
B2010 Exterior Walls				
51 Metal stud exterior wall framing	SF	252.1	6.00	1,513
Exterior Walls			\$0.42/SF	\$1,513
C1030 Fittings				
124 Cast iron downspout boot	EA	2.0	500.00	1,000
81 Allowance for miscellaneous metals	SF	3,607.0	0.75	2,705
Fittings			\$1.03/SF	\$3,705
Metals			\$141.91/SF	\$511,883
06 Wood, Plastics, and Composites				
B1020 Roof Construction				
245 Architectural exterior column	LF	220.0	50.00	11,000
Roof Construction			\$3.05/SF	\$11,000
C1030 Fittings				
82 Allowance for wood blocking / rough carpentry	SF	3,607.0	1.50	5,411
Fittings			\$1.50/SF	\$5,411
Wood, Plastics, and Composites			\$4.55/SF	\$16,411

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 3,607.0 SF Cost/SF: \$263.52
 Rates Current At June 2014

LS2 LEASABLE SPACE; LEVEL 2.5 (continued)

Description	Unit	Qty	Rate	Total
07 Thermal and Moisture Protection				
B1010 Floor Construction				
116 Spray-applied fireproofing to underside of structural steel framing / metal deck	SF	5,452.0	2.50	13,630
Floor Construction			\$3.78/SF	\$13,630
B1020 Roof Construction				
118 Rigid insulation; allow 3" thick	SF	4,194.9	3.50	14,682
117 Spray-applied fireproofing to underside of structural steel framing / metal deck	SF	4,194.9	2.50	10,487
Roof Construction			\$6.98/SF	\$25,169
B2010 Exterior Walls				
44 Fiber cement siding	SF	1,020.1	10.00	10,201
Exterior Walls			\$2.83/SF	\$10,201
B3010 Roof Coverings				
119 Asphalt shingles; leasable tenancy	SF	4,195.0	6.00	25,170
409 Rigid insulation	SF	4,194.9	3.00	12,585
126 Allowance for miscellaneous trims and flashings	SF	4,194.8	0.50	2,097
Roof Coverings			\$11.05/SF	\$39,852
C1030 Fittings				
83 Allowance for miscellaneous caulking and sealing	SF	3,607.0	0.25	902
84 Allowance for miscellaneous fire-proofing	SF	3,607.0	0.25	902
Fittings			\$0.50/SF	\$1,804
D2040 Rain Water Drainage				
122 Aluminum fascia and gutter	LF	131.0	35.00	4,585
123 Aluminum downspout	LF	77.0	25.00	1,925
Rain Water Drainage			\$1.80/SF	\$6,510
Thermal and Moisture Protection			\$26.94/SF	\$97,166
08 Openings				
B2010 Exterior Walls				
43 Aluminum framed storefront system	SF	768.0	100.00	76,800
Exterior Walls			\$21.29/SF	\$76,800
B2030 Exterior Doors				
87 Double leaf fully glazed door, including frame, finish, and hardware	Pr	5.0	7,000.00	35,000
89 Single leaf fully glazed door, including frame, finish, and hardware	EA	2.0	4,000.00	8,000
Exterior Doors			\$11.92/SF	\$43,000

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 3,607.0 SF Cost/SF: \$263.52
 Rates Current At June 2014

LS2 LEASABLE SPACE; LEVEL 2.5 (continued)

Description	Unit	Qty	Rate	Total
C1030 Fittings				
95 Exterior glazed guardrail (balcony)	LF	197.0	350.00	68,950
			Fittings	\$19.12/SF
			Openings	\$52.33/SF
				\$188,750
09 Finishings				
B2010 Exterior Walls				
60 Gypboard wall lining to metal stud framing	SF	252.1	1.50	378
			Exterior Walls	\$0.10/SF
				\$378
C3010 Wall Finishes				
57 Paint finish to gypboard wall lining	SF	252.1	1.20	303
			Wall Finishes	\$0.08/SF
				\$303
C3020 Floor Finishes				
63 Wood decking to balcony; leasable tenancy	SF	1,854.0	15.00	27,810
62 Floor finish to leasable tenancy; excluded (tenant improvement)	SF	3,504.0		Excl.
			Floor Finishes	\$7.71/SF
				\$27,810
C3030 Ceiling Finishes				
77 Exterior grade ceiling system; leasable tenancy (balcony)	SF	1,854.0	10.00	18,540
76 Ceiling finish to leasable tenancy; excluded (tenant improvement)	SF	3,504.0		Excl.
			Ceiling Finishes	\$5.14/SF
				\$18,540
			Finishings	\$13.04/SF
				\$47,031
13 Special Construction				
F1030 Special Construction Systems				
138 Interior fit-out and miscellaneous finishes; leasable tenancy - excluded (tenant improvement)	SF	3,607.0		Excl.
			Special Construction Systems	Excl.
			Special Construction	Excl.
21 Fire Suppression				
D4010 Sprinklers				
285 Sprinkler piping, black steel threaded - assume avg. 1-1/2"	LF	282.0	30.00	8,460
286 Sprinkler head - pendant	EA	23.0	75.00	1,725
			Sprinklers	\$2.82/SF
			Fire Suppression	\$2.82/SF
				\$10,185
22 Plumbing				
D2010 Plumbing Fixtures				
271 Allowance for undesigned fixture to kitchen - connection only	SF	885.0	6.00	5,310
			Plumbing Fixtures	\$1.47/SF
				\$5,310

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 3,607.0 SF Cost/SF: \$263.52
 Rates Current At June 2014

LS2 LEASABLE SPACE; LEVEL 2.5 (continued)

Description	Unit	Qty	Rate	Total
D2020 Domestic Water Distribution				
296 Allowance for branch piping connection for leasable areas	Item			2,000
Domestic Water Distribution			\$0.55/SF	\$2,000
D2030 Sanitary Waste				
302 Allowance for branch piping connection for leasable areas	Item			300
Sanitary Waste			\$0.08/SF	\$300
Plumbing			\$2.11/SF	\$7,610
23 Heating, Ventilating, and Air Conditioning				
D3040 Distribution Systems				
442 Fan coil units -allowance	EA	2.0	2,000.00	4,000
446 Finned tube radiation	LF	105.0	100.00	10,500
451 Allowance for ductwork	Lb	695.0	7.00	4,865
452 Ductwork insulation	SF	506.0	3.00	1,518
453 Allowance for diffusers, registers grille - assume 1/200SF	EA	18.0	175.00	3,150
Distribution Systems			\$6.66/SF	\$24,033
Heating, Ventilating, and Air Conditioning			\$6.66/SF	\$24,033
26 Electrical				
D5010 Electrical Service & Distribution				
454 Pathway for future tenant - (2) 4" C only	LF	75.0	60.00	4,500
456 Future tenant distribution - Excluded	Item			Excl.
Electrical Service & Distribution			\$1.25/SF	\$4,500
D5020 Lighting and Branch Wiring				
332 Light Fixture Type F4 - 4 ft Fluorescent strip with wireguard	EA	9.0	225.00	2,025
338 Light Fixture - Exit sign	EA	1.0	250.00	250
339 Light Fixture - Emergency battery unit with double heads	EA	3.0	175.00	525
341 Wiring to lighting points	EA	13.0	100.00	1,300
342 Duplex receptacle	EA	1.0	25.00	25
346 Wiring to branch power points	EA	1.0	200.00	200
348 Allowance for undesigned lighting, controls and branch power	SF	3,607.0	0.15	541
366 Allowance for exterior/canopy lighting	SF	1,854.0	2.00	3,708
Lighting and Branch Wiring			\$2.38/SF	\$8,574
Electrical			\$3.62/SF	\$13,074
28 Electronic Safety and Security				
D5030 Communications & Security				
379 Security Systems - Excluded	SF	3,607.0		Excl.
Communications & Security				Excl.
Electronic Safety and Security				Excl.

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

GFA: 3,607.0 SF Cost/SF: \$263.52
 Rates Current At June 2014

LS2 LEASABLE SPACE; LEVEL 2.5 (continued)

Description	Unit	Qty	Rate	Total
32 Exterior Improvements				
G2050 Landscaping				
234 Trees - Excluded (assume not required)	Item			Excl.
	<i>Landscaping</i>			<i>Excl.</i>
	<i>Exterior Improvements</i>			<i>Excl.</i>
	LEASABLE SPACE; LEVEL 2.5		\$263.52/SF	\$950,525

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Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

S SITE CONSTRUCTION

Rates Current At June 2014

Description	Unit	Qty	Rate	Total
02 Existing Conditions				
G1020 Site Demolition and Relocations				
178 Break-up and dispose existing asphalt parking lot	SF	53,123.0	0.75	39,842
146 Break-up and dispose existing asphalt walkway	SF	1,007.0	0.75	755
149 Break-up and dispose existing concrete sidewalk	SF	3,119.0	1.00	3,119
159 Break-up and remove existing concrete stairs	Item			1,200
156 Demolish and remove existing visitors center building	Item			50,000
142 Remove and dispose existing timber rail / fence	LF	214.0	25.00	5,350
143 Remove and dispose existing chain link fence	LF	60.0	25.00	1,500
171 Remove and dispose existing stone retaining wall	LF	84.0	50.00	4,200
180 Remove and dispose existing bollard	EA	14.0	500.00	7,000
141 Remove and dispose existing metal posts	EA	2.0	500.00	1,000
145 Remove and dispose existing parking sign	EA	12.0	500.00	6,000
163 Remove and dispose existing bench	EA	1.0	250.00	250
170 Remove and dispose existing concrete pads	EA	4.0	250.00	1,000
186 Remove and dispose existing tree	EA	3.0	350.00	1,050
197 Remove and dispose existing in-ground sewer service	LF	864.0	25.00	21,600
165 Remove and dispose existing utility guy pole - Excluded (by Utility Company)	Item			Excl.
168 Remove and dispose existing gas meter - Excluded (by Utility Company)	Item			Excl.
169 Remove and dispose existing gas gate - Excluded (by Utility Company)	Item			Excl.
162 Remove and relocate existing traffic sign	EA	7.0	1,000.00	7,000
187 Remove and relocate existing parking sign	EA	5.0	1,000.00	5,000
164 Remove and relocate existing granite sign	EA	1.0	2,500.00	2,500
158 Remove and relocate existing fire hydrant	EA	1.0	1,500.00	1,500
144 Remove and relocate existing dumpster - Excluded (by Others)	EA	2.0		Excl.
160 Remove and relocate existing utility pole - Excluded (by Utility Company)	Item			Excl.
161 Remove and relocate existing overhead power - Excluded (by Utility Company)	Item			Excl.
184 Remove and relocate existing transformer and pad - Excluded (by Others)	Item			Excl.
193 Remove and relocate street lighting - Excluded (by Others)	Item			Excl.
195 Remove and relocate existing "walk to the sea" sign - Excluded (by Others)	Item			Excl.
153 Remove and salvage existing granite curb	LF	143.0	10.00	1,430
151 Remove and salvage existing traffic sign	EA	1.0	500.00	500

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

S SITE CONSTRUCTION (continued)

Rates Current At June 2014

Description	Unit	Qty	Rate	Total
150 Remove and salvage existing wood post parking sign	EA	1.0	500.00	500
157 Remove and salvage existing parking meter	EA	1.0	500.00	500
166 Remove and salvage existing trash receptacle	EA	1.0	250.00	250
179 Remove and salvage automated pay station	EA	2.0	1,000.00	2,000
190 Remove and salvage existing bicycle rack	EA	1.0	500.00	500
147 Protect and maintain existing chain link fence	LF	50.0	5.00	250
185 Protect and maintain existing concrete retaining wall	LF	25.0	10.00	250
148 Protect and maintain existing utility pole	EA	3.0	250.00	750
191 Protect and maintain existing granite sign	EA	1.0	500.00	500
173 Protect and maintain existing stone trough	EA	1.0	250.00	250
189 Protect and maintain existing bus shelter	EA	1.0	1,000.00	1,000
188 Protect and maintain existing trash receptacle	EA	1.0	250.00	250
183 Protect and maintain existing generator and pad	Item			1,000
181 Protect and maintain existing HVAC equipment and pad	Item			1,000
182 Protect and maintain existing natural gas meter	Item			500
192 Protect and maintain existing tree	EA	1.0	250.00	250
196 Allowance to remove and salvage existing granite steps	Item			2,500
194 Allowance to remove and relocate existing metal sculpture in Cambridge Street	Item			5,000
198 Allowance for miscellaneous demolition not identified	Item			5,000
Site Demolition and Relocations				\$184,046
G1040 Hazardous Waste Remediation				
199 Hazardous materials abatement - Excluded	Item			Excl.
Hazardous Waste Remediation				Excl.
Existing Conditions				\$184,046
26 Electrical				
D5020 Lighting and Branch Wiring				
366 Allowance for exterior/canopy lighting	SF	1,842.0	2.00	3,684
Lighting and Branch Wiring				\$3,684
G4010 Electrical Distribution				
310 Allowance for primary feeder - (2) 4" C only	LF	20.0	70.00	1,400
Electrical Distribution				\$1,400
Electrical				\$5,084
31 Earthwork				
A1030 Slab on Grade				
204 Excavate for slab on grade	CY	1,749.0	8.00	13,992
205 Imported granular fill sub-base	CY	1,019.0	25.00	25,475

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

S SITE CONSTRUCTION (continued)

Rates Current At June 2014

Description	Unit	Qty	Rate	Total
206 Remove and dispose excavated spoil from site	CY	1,749.0	22.00	38,478
Slab on Grade				\$77,945
G1010 Site Clearing				
207 Allowance for miscellaneous site clearing	Item			20,000
Site Clearing				\$20,000
G1030 Site Earthwork				
208 Allowance for site earthworks / grading	SF	60,000.0	4.00	240,000
209 Excavation in rock and / or contaminated soil	Item			Excl.
210 Dewatering	Item			Excl.
211 Treatment and / or disposal of contaminated soil	Item			Excl.
250 Allowance for temporary sheet piling to Northern site boundary	SF	5,850.0	50.00	292,500
Site Earthwork				\$532,500
Earthwork				\$630,445
32 Exterior Improvements				
G2010 Roadways				
413 Mill existing asphalt roadway	SF	24,409.0	1.50	36,614
219 Top course to existing roadway	SY	2,713.0	14.00	37,982
220 Granite curb	LF	1,469.0	55.00	80,795
218 Make good connection to existing public road	LF	110.0	50.00	5,500
403 Linemarking; dashed white lane line (DWLL)	LF	36.0	10.00	360
402 Linemarking; single white lane line (SWLL)	LF	100.0	10.00	1,000
404 Linemarking; single white edge line (SWEL)	LF	247.0	10.00	2,470
405 Linemarking; stop line (SL)	LF	77.0	20.00	1,540
406 Linemarking; crosswalk	SF	1,014.0	5.00	5,070
407 Linemarking; logo / text	EA	8.0	500.00	4,000
408 Traffic sign	EA	23.0	500.00	11,500
Roadways				\$186,831
G2020 Parking Lots				
249 Allowance for re-grading / repairs to loading dock at Memorial Hall	Item			50,000
Parking Lots				\$50,000
G2030 Pedestrian Paving				
215 Reinforced concrete sidewalk	SF	9,629.0	8.00	77,032
412 Detectable warning strip	SF	135.0	25.00	3,375
Pedestrian Paving				\$80,407
G2040 Site Development				
221 Reinforced concrete retaining wall (ramp / walkway)	SF	3,263.0	25.00	81,575

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

S SITE CONSTRUCTION (continued)

Rates Current At June 2014

Description	Unit	Qty	Rate	Total
222 Reinforced concrete retaining wall (exterior entry stair)	SF	382.0	25.00	9,550
223 Reinforced concrete strip footing to retaining walls	LF	233.0	75.00	17,475
225 Reinforced concrete slab on grade (ramp / walkway)	SF	1,178.0	8.00	9,424
226 Reinforced concrete suspended slab (ramp / walkway)	SF	732.0	20.00	14,640
224 Architectural concrete finish to retaining walls	SF	3,645.0	10.00	36,450
228 Structural steel framing to canopy; allow 5 lbs / sqft (ramp / walkway)	T	4.610	5,000.00	23,050
229 Metal roof deck to canopy (ramp / walkway)	SF	1,842.0	3.00	5,526
230 Membrane roofing system to canopy (ramp / walkway)	SF	1,842.0	9.00	16,578
231 Aluminum fascia to canopy (ramp / walkway)	LF	158.0	15.00	2,370
227 Painted metal guardrail (ramp / walkway)	LF	243.0	150.00	36,450
247 Architectural trim / molding to canopy (ramp / walkway)	LF	144.0	50.00	7,200
232 Allowance for site signage	Item			15,000
233 Allowance for miscellaneous site furniture / site development	Item			25,000
Site Development				\$300,288
G2050 Landscaping				
216 Allowance for loam and seeding	SF	6,758.0	1.00	6,758
217 Gardens / plantings - Excluded (assume not required)	Item			Excl.
234 Trees - Excluded (assume not required)	Item			Excl.
Landscaping				\$6,758
Exterior Improvements				\$624,284
33 Utilities				
G1020 Site Demolition and Relocations				
235 Allowance for miscellaneous site utilities demolition not identified	Item			15,000
Site Demolition and Relocations				\$15,000
G3010 Water Supply				
275 Allowance for domestic / fire water service to garage	LF	40.0	100.00	4,000
155 Cut and cap existing water service	EA	1.0	1,000.00	1,000
383 Connection to existing water main in street	EA	1.0	1,500.00	1,500
397 Excavation / backfill / disposal; trenching	LF	40.0	30.00	1,200
Water Supply				\$7,700
G3020 Sanitary Water				
276 Sanitary sewer pipe; 6" PVC	LF	565.0	35.00	19,775
384 Sanitary sewer manhole	EA	5.0	4,000.00	20,000
175 Adjust existing sewer manhole	EA	2.0	2,000.00	4,000
152 Cut and cap existing sewer service	EA	6.0	1,000.00	6,000
385 Connection to existing sewer manhole	EA	1.0	1,500.00	1,500

Plymouth Intermodal Transit Center
Schematic Design Cost Estimate

Location Divisions/Elements Item

S SITE CONSTRUCTION (continued)

Rates Current At June 2014

Description	Unit	Qty	Rate	Total
386 Connection to existing sewer service	EA	2.0	1,500.00	3,000
398 Excavation / backfill / disposal; trenching	LF	565.0	40.00	22,600
399 Excavation / backfill / disposal; drainage structure	EA	5.0	1,200.00	6,000
Sanitary Water				\$82,875
G3030 Storm Sewer				
239 Underslab / perimeter drainage; 6" perforated PVC	LF	907.0	40.00	36,280
387 Storm drainage pipe; 12" PVC	LF	53.0	50.00	2,650
388 Storm drainage pipe; 6" PVC	LF	136.0	35.00	4,760
389 Storm drainage manhole	EA	3.0	5,000.00	15,000
390 Catch basin	EA	3.0	3,500.00	10,500
176 Adjust existing drainage manhole	EA	1.0	2,000.00	2,000
174 Adjust existing catch basin	EA	2.0	1,500.00	3,000
382 Adjust existing area drain	EA	1.0	1,500.00	1,500
391 Connection to existing storm drainage service	EA	2.0	1,500.00	3,000
400 Excavation / backfill / disposal; trenching	LF	189.0	40.00	7,560
401 Excavation / backfill / disposal; drainage structure	EA	6.0	1,500.00	9,000
Storm Sewer				\$95,250
G3090 Other Site Mechanical Utilities				
395 Gas service to building - Excluded (by Others)	LF	35.0		Excl.
154 Cut and cap existing natural gas service - Excluded (by Utility Company)	Item			Excl.
392 Connection to existing gas main - Excluded (by Utility Company)	Item			Excl.
396 Excavation / backfill / disposal; trenching	LF	35.0	30.00	1,050
Other Site Mechanical Utilities				\$1,050
G4010 Electrical Distribution				
177 Adjust existing electrical manhole - Excluded (by Utility Company)	EA	2.0		Excl.
309 Concrete transformer pad	EA	1.0	6,000.00	6,000
312 Excavation/backfill/disposal - trenching	LF	795.0	30.00	23,850
Electrical Distribution				\$29,850
G4020 Site Lighting				
367 Allowance for site lighting	Item			25,000
Site Lighting				\$25,000
Utilities				\$256,725
SITE CONSTRUCTION				\$1,700,584