

1. Corrugated Metal Pipe (CMP) Riser Dollars per linear foot (Does not include riser base, tees for principal spillway barrel or drawdown pipe, trash rack, or backfill)	Diameter (inches)	16 Gauge		14 Gauge	
		Plain Galvanized	Aluminized Steel	Plain Galvanized	Aluminized Steel
		12	\$32.10	\$35.95	
15	\$38.50	\$43.12			
18	\$41.20	\$46.14			
21	\$49.90	\$55.89			
24	\$57.30	\$64.18			
30	\$68.10	\$76.27			
36	\$80.90	\$90.61			
42			\$103.70	\$116.14	
48			\$118.60	\$132.83	

2. Principal Spillway Tee Dollars per each (Includes 4 feet of pipe and fabrication--add these costs to the CMP riser to determine total riser cost)	Diameter (inches)	16 Gauge		14 Gauge	
		Plain Galvanized	Aluminized Steel	Plain Galvanized	Aluminized Steel
		8	\$243.00		
10	\$290.00				
12	\$345.00	\$386.00			
15	\$415.00	\$465.00			
18	\$487.00	\$545.00			
21	\$565.00	\$633.00			
24	\$635.00	\$711.00			
30	\$832.00	\$932.00			
36	\$1,013.00	\$1,135.00			
42			\$1,146.00	\$1,284.00	
48			\$1,486.00	\$1,664.00	

3. CMP Principal Spillway Barrel, Drawdown Pipe, or Underground Outlet Dollars per linear foot (Includes pipe and cost of laying--does not include 4 feet of pipe in principal spillway tee, 2 feet of pipe in drawdown pipe tee, hand-compacted backfill, or vertical pipe under floor of fish pond outlet structure)	Diameter (inches)	16 Gauge		14 Gauge	
		Plain Galvanized	Aluminized Steel	Plain Galvanized	Aluminized Steel
		6	\$9.79	\$10.96	
8	\$12.20	\$13.66			
10	\$14.00	\$15.68			
12	\$16.90	\$18.93			
15	\$18.90	\$21.17			
18	\$21.60	\$24.19			
21	\$27.60	\$30.91			
24	\$32.30	\$36.18			
30	\$36.00	\$40.32			
36	\$41.70	\$46.70			
42			\$57.40	\$64.29	
48			\$65.10	\$72.91	

4. Drawdown Pipe Tee Dollars per each (Includes 2 feet of pipe, cover plate and flange, one slotted flange attached, and fabrication--add these costs to the CMP riser to determine total riser cost)	Diameter (inches)	16 Gauge	
		Plain Galvanized	Aluminized Steel
		6	\$193.00
8	\$243.00	\$272.00	
10	\$290.00	\$325.00	
12	\$345.00	\$386.00	
15 ^{1/}	\$415.00	\$465.00	

^{1/} Slotted flanges not used--add corrugated metal (CM) connecting band

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5. Connecting Bands	Diameter (inches)	16 Gauge		14 Gauge	
		Plain Galvanized	Aluminized Steel	Plain Galvanized	Aluminized Steel
		A. CM connecting bands--soil-tight Dollars per each (Includes connecting band, bolts, and gasket)			
	6	\$10.00	\$11.00		
	8	\$11.00	\$12.00		
	10	\$12.00	\$13.00		
	12	\$15.00	\$17.00		
	15	\$18.00	\$20.00		
	18	\$22.00	\$25.00		
	21	\$29.00	\$32.00		
	24	\$33.00	\$37.00		
	30	\$36.00	\$40.00		
	36	\$42.00	\$47.00		
	42			\$63.00	\$71.00
	48			\$72.00	\$81.00
B. CM connecting bands--watertight Dollars per each (Includes band, 2 "O" ring gaskets, and connecting bolts)	Diameter (inches)	16 Gauge		14 Gauge	
		Plain Galvanized	Aluminized Steel	Plain Galvanized	Aluminized Steel
			6	\$12.00	\$13.00
	8	\$16.00	\$18.00		
	10	\$18.00	\$20.00		
	12	\$23.00	\$25.00		
	15	\$27.00	\$30.00		
	18	\$33.00	\$37.00		
	21	\$43.00	\$48.00		
	24	\$50.00	\$55.00		
	30	\$54.00	\$60.00		
	36	\$63.00	\$71.00		
	42			\$95.00	\$106.00
	48			\$108.00	\$121.00

6. Metal Anti-Seep Collars Dollars per each (Includes materials and fabrication)	Diameter (inches)	Size (inches)	Two-Piece			
			16 Gauge		14 Gauge	
			Plain Galvanized	Aluminized Steel	Plain Galvanized	Aluminized Steel
	12	60	\$525.04	\$560.04		
	15	63	\$587.54	\$627.54		
	18	66	\$671.06	\$716.06		
	21	69	\$746.06	\$796.06		
	24	72	\$818.81	\$873.81		
	30	78	\$912.56	\$973.81		
	36	84	\$1,050.09	\$1,120.09		
	42	90			\$1,237.59	\$1,321.34
	48	96			\$1,437.61	\$1,533.86

	Unit	Pipe Diameter (inches)																	
		4	5	6	8	10	12	14	15	16	18	20	21	24	30	36	42	48	
7. Steel Base for CMP Riser	each						\$33.00		\$76.00		\$130.00		\$216.00	\$267.00	\$523.00	\$683.00			
8. Slotted Flanges for CMP 1/4"	pair			\$181.06	\$184.75	\$188.44	\$192.13												
9. Trash Rack for CMP Riser	each				\$184.20	\$225.20	\$282.80		\$326.80		\$395.40		\$439.40	\$496.00	\$619.50	\$722.70			
10. Trash Rack for Canopy Inlet	each			\$141.20	\$181.20	\$222.20	\$278.30		\$322.30		\$389.40		\$433.40	\$488.50					
11. Guard Rail for CMP Riser	each																\$2,133.84	\$2,133.84	\$2,585.70
12. CMP Pipe Support																			
A. 6 feet of length below pipe	each			\$73.63	\$90.39	\$104.09	\$125.31		\$147.05		\$177.58		\$217.17	\$248.59					
B. Each additional foot	lin. ft.			\$9.79	\$12.20	\$14.00	\$16.90		\$18.90		\$21.60		\$27.60	\$32.30					
13. Timber Pipe Support																			
A. 6 feet of length below pipe	each			\$231.93	\$231.93	\$231.93	\$231.93		\$310.92		\$310.92		\$310.92	\$377.12	\$377.12				
B. Each additional 2 feet	lin. ft.			\$6.40	\$6.40	\$6.40	\$6.40		\$33.04		\$33.04		\$33.04	\$31.40	\$31.40				
14. Fabrication of CMP Elbow																			
A. Plain galvanized	each			\$79.13	\$101.51	\$122.88	\$145.26		\$174.63		\$204.01		\$233.39	\$261.76	\$333.52	\$402.64			
B. Aluminized steel	each			\$80.13	\$103.51	\$126.88	\$152.26		\$183.63		\$214.01		\$245.39	\$274.76	\$350.52	\$422.64			
15. Fabrication of Canopy Inlet																			
A. Polyvinyl chloride (PVC) or plain galvanized	each			\$28.61	\$37.48	\$45.32	\$55.16		\$65.01		\$76.25		\$90.70	\$102.54	\$118.23	\$143.86			
B. Aluminized steel	each			\$32.05	\$41.97	\$50.76	\$61.78		\$72.81		\$85.40		\$101.58	\$114.85	\$132.42	\$161.12			
16. Manually Tamped Backfill																			
A. Riser for drop inlet spillways	lin. ft.						\$2.00		\$2.00		\$1.84	\$1.98	\$2.06	\$2.29	\$2.79	\$3.34	\$3.94	\$4.58	
B. CMP and plastic pipe barrels	lin. ft.			\$1.07	\$1.19	\$1.31	\$1.43	\$1.56	\$1.63	\$1.70	\$1.84	\$1.98	\$2.06	\$2.29	\$2.79	\$3.34	\$3.94	\$4.58	
C. Inlet, outlet, and culvert under embankment	lin. ft.	\$0.40	\$0.40	\$0.60	\$0.60	\$0.70	\$0.80	\$0.90	\$1.00	\$1.00	\$1.10	\$1.20	\$1.30	\$1.50	\$1.80	\$2.30	\$2.80	\$3.30	
17. Metal End Section (Flared End)	each			\$114.24	\$114.24	\$121.38	\$121.38		\$128.52		\$164.22		\$199.92	\$242.76	\$441.66	\$712.98	\$1,084.26	\$1,254.60	

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18. Butyl Rubber Anti-Seep Collars	Unit	Pipe Diameter (inches)												
		1½	2	4	6	8	10	12	14	15	18	21	24	
A. 36" x 36"	each	\$97.00	\$97.00	\$97.00	\$97.00									
B. 48" x 48"	each	\$127.00	\$127.00	\$127.00	\$127.00	\$127.00	\$127.00	\$127.00						
C. 60" x 60"	each	\$203.00	\$203.00	\$203.00	\$203.00	\$203.00	\$203.00	\$203.00	\$203.00	\$203.00	\$203.00	\$203.00		
D. 72" x 72"	each	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00

19. Polyethylene (PE) Anti-Seep Collars	Unit	Pipe Diameter (inches)												
		1½	2	4	6	8	10	12	14	15	18	21	24	
A. 24" x 24"	each		\$158.20											
B. 48" x 48"	each		\$196.00	\$187.20	\$187.20	\$206.90	\$211.60	\$217.90		\$239.20	\$245.90		\$266.60	
C. 60" x 60"	each		\$275.10	\$264.80	\$264.80	\$290.00	\$293.10	\$302.60		\$331.20	\$341.20		\$375.10	
D. 72" x 72"	each		\$324.70	\$324.70	\$324.70	\$352.60	\$355.80	\$366.80		\$398.00	\$408.00		\$446.00	

20. Rodent Guard for Terrace Outlet (Stainless)	Unit	Pipe Diameter (inches)											
		1½	2	4	6	8	10	12	14	15	18	21	24
	each		\$19.40	\$21.20	\$24.10	\$31.60	\$43.40		\$79.20	\$108.80			

21. Inline Water Level Control Structure Components	Pipe Diameter (inches)	Height (feet)										Add for Back Flap
		2	3	4	5	6	8	10	12	15	18	
A. Inline water level control structure (To be placed in the embankment)	4	\$569.80	\$635.30	\$699.70	\$764.10	\$829.50	\$998.20	\$1,133.30	\$1,296.10	\$1,431.40	\$1,594.20	\$50.00
	6	\$587.00	\$655.20	\$730.80	\$793.80	\$861.00	\$1,038.50	\$1,265.30	\$1,344.00	\$1,517.80	\$1,617.70	\$50.00
	8	\$623.00	\$715.10	\$730.80	\$933.80	\$991.20	\$1,221.50	\$1,543.20	\$1,617.70	\$1,877.80	\$1,944.20	\$50.00
	10	\$680.10	\$795.90	\$835.20	\$1,068.60	\$1,144.50	\$1,431.90	\$1,674.10	\$1,877.80	\$2,112.60	\$2,253.10	\$60.00
	12	\$795.90	\$932.40	\$993.60	\$1,251.60	\$1,392.30	\$1,835.40	\$2,062.20	\$2,385.60	\$2,753.10	\$2,944.20	\$65.00
	15	\$989.10	\$1,103.10	\$1,225.20	\$1,483.20	\$1,673.70	\$2,052.80	\$2,452.80	\$2,753.10	\$3,426.20	\$3,826.20	\$75.00
	18	\$1,190.70	\$1,421.70	\$1,610.40	\$1,944.60	\$2,112.60	\$2,573.60	\$3,034.50	\$3,426.20	\$4,426.20	\$5,026.20	\$110.00
	24	\$1,890.00	\$2,062.80	\$2,404.50	\$2,713.20	\$3,409.40	\$3,951.20	\$4,826.20	\$5,426.20	\$6,826.20	\$7,826.20	\$200.00

21. Check valve	Pipe Diameter (inches)	Height (feet)									
		2	3	4	5	6	8	10	12	15	18
	3	\$62.60	\$71.50	\$193.60	\$250.80	\$310.70	\$432.10	\$682.30	\$783.60	\$1,116.40	\$1,355.50

22. Irrigation Pipe	Unit	Pipe Diameter (inches)				
		6	8	10	12	15
Buried Pipe for Irrigation or Waste Transfer ^{2/}						
A. 50 psi (SDR 81)	lin. ft.	\$2.16	\$3.06	\$4.35	\$6.00	\$8.93
B. 80 psi (SDR 51)	lin. ft.	\$2.62	\$3.85	\$5.54	\$7.75	\$11.76
C. 100 psi (SDR 41)	lin. ft.	\$2.92	\$4.64	\$6.45	\$9.04	\$13.84
Gated Pipe for Surface Irrigation and Wastewater Treatment Strip						
A. PVC ^{3/}	lin. ft.	\$2.20	\$3.20	\$4.40	\$6.00	
B. Aluminum ^{3/}	lin. ft.	\$4.30	\$6.30	\$8.80	\$12.00	

^{1/} Includes a pair of flanges welded to the pipe, gasket, or mastic and cost of bolting together
^{2/} Includes required elbows and dogleg fitting
^{3/} 30-foot lengths, 30-inch gate spacing (includes tee and end plugs)

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23. Plastic Pipe		Unit	4	5	6	8	10	12	Pipe Diameter (inches)										
									14	15	16	18	20	21	24	30	36	42	
A. Principal spillway barrel ^{1/}																			
	(1) SDR 17	lin. ft.			\$5.18	\$8.87	\$12.28	\$17.01											
	(2) Schedule 80	lin. ft.			\$7.39	\$10.53	\$15.35	\$20.85											
	(3) SDR 21	lin. ft.	\$2.52		\$4.44	\$6.90	\$10.31	\$14.22											
	(4) Schedule 40	lin. ft.	\$3.40		\$5.37	\$7.74	\$11.24	\$14.91											
	(5) SDR 26	lin. ft.			\$3.66	\$5.85	\$8.73	\$12.12											
	(6) Dimension Ratio (DR) 25	lin. ft.			\$4.21	\$6.59	\$9.59	\$13.25	\$17.73		\$22.62	\$28.26	\$34.87		\$49.45	\$74.23	\$104.65		
	(7) DR 18	lin. ft.			\$5.37	\$8.63	\$12.61	\$17.50	\$23.59		\$30.18	\$37.76	\$46.73		\$66.50				
	(8) Corrugated PVC, smooth interior																		
	(a) Pipe Stiffness (PS) 46	lin. ft.			\$3.76	\$5.76	\$7.89	\$12.67		\$17.06		\$25.88		\$34.11	\$38.10	\$51.32	\$65.59		
	(b) PS 115 (no longer manufactured)	lin. ft.				N/A	N/A												
	(9) Dual wall corrugated PE, smooth interior, with watertight couplings	lin. ft.			\$3.21	\$4.47	\$6.39	\$8.10		\$11.09		\$14.98		\$23.71	\$34.89	\$42.20	\$55.47		
B. Underground outlet main conduit ^{2/}																			
(1) Smooth PVC																			
	(a) SDR 21	lin. ft.	\$2.38		\$4.15	\$6.84	\$10.26	\$14.19											
	(b) SDR 26	lin. ft.	\$2.00		\$3.37	\$5.79	\$8.68	\$12.09											
	(c) SDR 32.5	lin. ft.	\$1.89		\$2.72	\$4.56	\$6.76	\$9.45	\$14.42										
	(d) SDR 35	lin. ft.	\$1.70		\$2.74	\$4.64	\$6.89	\$9.59	\$14.07	\$19.45		\$26.68	\$33.37	\$55.14	\$77.41	\$103.39	\$133.97		
	(e) SDR 41	lin. ft.	\$1.68		\$2.36	\$4.15	\$5.72	\$7.91	\$12.13										
(2) Corrugated PVC, smooth interior																			
	(a) PS 46	lin. ft.	\$2.72		\$3.47	\$5.70	\$7.84	\$12.64	\$17.06	\$25.90		\$34.17	\$38.21	\$51.53	\$65.91				
	(b) PS 115 (no longer manufactured)	lin. ft.				N/A	N/A												
	(3) Single wall corrugated PE	lin. ft.	\$1.22	\$1.45	\$1.81	\$2.89	\$4.74	\$5.99	\$9.27	\$13.95		\$25.42							
	(4) Dual wall corrugated PE, smooth interior, with soil-tight couplings	lin. ft.	\$1.72		\$3.92	\$5.14	\$6.81	\$8.31	\$12.15	\$15.33		\$24.31	\$33.70	\$41.12	\$54.08	\$54.54			
	(5) Dual wall corrugated PE, smooth interior, with watertight couplings	lin. ft.	\$1.75		\$2.92	\$4.41	\$6.34	\$8.98	\$13.14	\$16.60		\$26.34	\$35.10	\$42.52	\$55.93	\$56.82			
C. Underground outlet and connections ^{3/} (Underground outlet riser, tee, and fittings)		Size (inches)	Prefabricated or PVC Riser Diameter (inches)																
			5	6	8	10	12	15											
		4	\$93.70	\$105.90	\$147.40	\$199.20	\$576.60	\$634.30											
		6	\$103.20	\$105.90	\$147.40	\$199.20	\$576.60	\$634.30											
		8	\$122.90	\$132.80	\$147.40	\$199.20	\$576.60	\$634.30											
		10	\$139.90	\$149.80	\$176.40	\$199.20	\$576.60	\$634.30											
		12	\$264.30	\$274.20	\$300.80	\$335.60	\$576.60	\$634.30											
		15	\$448.50	\$458.40	\$485.00	\$519.90	\$775.80	\$853.40											
		18	\$779.20	\$789.20	\$815.80	\$850.60	\$1,106.50	\$1,217.20											
		24	\$1,818.90	\$1,828.80	\$1,855.40	\$1,890.20	\$2,146.20	\$2,360.90											
D. Livestock water supply line		Unit	Pipe Diameter (inches)																
	(1) SDR 21, PVC	lin. ft.	1 1/4	1 1/2	2	3	4	6	8	10	12								
	(2) SDR 26, PVC	lin. ft.	\$1.41	\$1.50	\$1.70	\$2.21	\$2.86												
E. Water supply line under dam																			
	(1) 100 feet, Schedule 40, PVC ^{4/}	each		\$309.00	\$335.10	\$439.30	\$549.30												
	(2) Each additional foot of pipe	lin. ft.		\$1.49	\$1.68	\$2.55	\$3.30												
	(3) 100 feet, SDR 21, PVC ^{4/}	each		\$274.70	\$299.00	\$364.30	\$461.20												
	(4) Each additional foot of pipe	lin. ft.		\$1.14	\$1.32	\$1.80	\$2.42												
F. Siphon supply line over dam																			
	(1) 120 feet, 125 psi, PE pipe ^{5/}	each	\$448.20	\$487.40	\$598.90														
	(2) Each additional foot of pipe	lin. ft.	\$2.13	\$2.40	\$3.21														
	(3) 120 feet, SDR 26, PVC pipe ^{5/}	each	\$372.70	\$385.70	\$419.40														
	(4) Each additional foot of pipe	lin. ft.	\$1.50	\$1.55	\$1.71														
G. Slotted flume																			
	(1) Fixed cost for 20 feet of flume	each					\$193.20	\$269.50	\$372.00	\$523.30									
	(2) Additional cost per foot	lin. ft.					\$3.66	\$5.85	\$8.73	\$12.12									

^{1/} Does not include manually tamped backfill
^{2/} Includes trenching and machine-placed backfill
^{3/} When risers are used as "bubble up" structures, add 10 percent if gravel is used as backfill
^{4/} Complete with intake, valve, operating rod, valve box and lid, and manually tamped backfill
^{5/} Complete with intake, valves, valve box, filler pipe assembly, testing, excavation, and manually tamped backfill

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24. Miscellaneous Items		Unit	Materials Cost	Installation Cost	Total Installation Cost
A. Concrete (4000 psi)					
(1) Formed	cu. yd.	\$114.71	\$217.77	\$332.48	
(2) Slab on grade	cu. yd.	\$114.71	\$120.61	\$235.32	
B. Steel reinforcement	lbs.	\$0.52	\$1.04	\$1.56	
C. Solar pump installations					
(1) 1/4 horsepower (HP) pumps (185 watts) w/controller	ea.	\$1,575.00	\$351.00	\$1,926.00	
(2) 1/2 HP pumps (370 watts) w/controller	ea.	\$2,100.00	\$468.00	\$2,568.00	
(3) 1 HP pumps (745 watts) w/controller	ea.	\$2,625.00	\$585.00	\$3,210.00	
(4) 2 HP pumps (1490 watts) w/controller	ea.	\$2,940.00	\$655.20	\$3,595.20	
(5) Solar panels w/mounts < 100 watts	watt	\$7.75	\$1.95	\$9.70	
(6) Solar panels w/mounts 100 - 185 watts	watt	\$6.20	\$1.56	\$7.76	
(7) Solar panels w/mounts > 185 watts	watt	\$5.58	\$1.40	\$6.98	
D. Wood picket fences					
(1) Pipe entrances	sq. ft.	\$6.23	\$15.30	\$21.53	
(2) Concrete chutes/solid stacks	sq. ft.	\$7.34	\$15.30	\$22.64	
E. Geotextiles	sq. yds.	\$1.38	\$3.74	\$5.12	
F. Erosion control blankets ^{1/}	sq. yds.	\$0.90	\$2.34	\$3.24	
G. Turf reinforcement mats ^{1/}					
(1) Tensar/North American Green C350 (Pattern D)	sq. yds.	\$4.90	\$2.44	\$7.34	
(2) Tensar/North American Green P550 (Pattern E)	sq. yds.	\$13.07	\$3.38	\$16.45	
(3) Propex Landlok 450	sq. yds.	\$3.96	\$2.44	\$6.40	
(4) Propex Pyramat	sq. yds.	\$15.79	\$3.38	\$19.17	
H. High-density polyethylene (HDPE) flexible membranes	sq. ft.	\$0.82	\$0.68	\$1.50	
I. Articulating concrete block materials	sq. ft.	\$9.18	\$1.92	\$11.10	
J. Cellular confinement systems (geocell or geoweb)	sq. ft.	\$1.28	\$0.49	\$1.77	
K. Sediment control installations					
(1) Silt fence	lin. ft.	\$0.31	\$2.03	\$2.34	
(2) Bale barriers	lin. ft.	\$1.92	\$2.03	\$3.95	
(3) Earthen dikes	lin. ft.	\$0.00	\$1.31	\$1.31	
	Unit	Gabion Cost	Rockfill Materials Cost (delivered)	Installation Cost	Total Installation Cost
L. Gabion baskets	cu. ft.	\$2.17	\$2.09	\$2.72	\$6.98
M. Reno mattresses	cu. ft.	\$2.93	\$2.09	\$2.72	\$7.74
	Unit	Material Cost	Delivery Cost \$0.40 /ton-mile	Installation Cost	Total Installation Cost
N. Graded rock riprap (50-mile delivery trip)	tons	\$23.95	\$20.00	\$12.18	\$56.13
O. Shot rock or concrete rubble (15-mile delivery trip)	tons	\$13.15	\$6.00	\$12.18	\$31.33
P. Graded crushed rock (50-mile delivery trip)	tons	\$14.25	\$20.00	\$12.18	\$46.43
Q. Fill sand (15-mile delivery trip)	cu.yd.	\$2.38	\$0.13	\$2.33	\$4.84
R. Drainfill (20-mile delivery trip)	cu.yd.	\$6.40	\$0.27	\$3.78	\$10.45
S. Concrete blocks (20-mile delivery trip)					
(1) 30" x 30" x 60"	each	\$90.00	\$42.19	\$20.64	\$152.83
(2) 24" x 24" x 48" or smaller	each	\$50.00	\$21.60	\$23.23	\$94.83
(3) 8" x 8" x 16" concrete masonry units (CMUs)	each	\$1.17	\$0.32	\$2.80	\$4.29

^{1/} Includes pins/anchors/staples for staking

Disclaimer: Values in this schedule do not reflect "actual installed costs" for NRCS practices, as that data is no longer collected. This schedule is not a substitute for obtaining bids from qualified contractors. Cost data for items in this table were obtained from various sources such as Web sites and manufacturer's representatives and reflect anticipated average prices for fiscal year 2016 (Oct 2015-Sept 2016). Labor and equipment components were added to each material item to obtain estimated installed costs on a unit basis.