

# DIESEL TECHNOLOGY FACILITY

180 Eii Ln., Oneida, TN 37841

S#	DWG	DETAIL	CSI NO	DESCRIPTION	QTY.	UNIT	UNIT LABOR COST	UNIT MATERIAL COST	TOTAL COST MATERIAL	TOTAL COST LABOR	UNIT COST LABOR+ MATERIAL	TOTAL COST
<b>DIVISION 2- EXISTING CONDITIONS</b>												
<b>SELECTIVE REMOVALS &amp; DEMOLITION</b>												
1	C-100			Remove light pole.	1	EA	\$495.00	\$0.00	\$0	\$495.00	\$495	\$495.00
2	C-100			Remove gravel pavement	2581	SF	\$4.00	\$3.00	\$7,742	\$10,322.80	\$7	\$18,064.90
3	C-100			Remove underground structure. - Size: 8'-0" x 8'-0"	1	EA	\$850.00	\$375.00	\$375	\$850.00	\$1,225	\$1,225.00
4	C-100			Remove 24" dia pipes (RCP)	687	LF	\$34.00	\$16.50	\$11,328	\$23,343.04	\$51	\$34,671.28
<b>TEMPORARY FACILITIES AND CONTROL</b>												
5	ER-200			Culvert protection (Type II)	1	EA	\$40.00	\$70.00	\$70	\$40.00	\$110	\$110.00
6	ER-100			Construction road stabilization. - 8" thick #57 stone - Geotextile fabric	906	SF	\$3.00	\$12.42	\$11,259	\$2,719.47	\$15	\$13,978.08
7	ER-200			Temporary hardware cloth and gravel inlet protection - 19 gauge with 1/4" opening wire mesh - #57 mineral aggregate	3	EA	\$90.00	\$121.00	\$363	\$270.00	\$211	\$633.00
8	ER-100	ER-400		Provide silt fence. - Silt fence fabric. - 1.5" x 1.5" hardwood post (oak or Hickory) (@ 6'-0" o.c.) - Height: 3'-0"	1073	LF	\$5.50	\$8.00	\$8,584	\$5,901.67	\$14	\$14,485.91
9	ER-100			High visibility fence.	1563	LF	\$3.00	\$4.50	\$7,034	\$4,689.54	\$8	\$11,723.85
<i>Sub-total (Division 02)</i>									\$46,755	\$48,632		\$95,387
<b>DIVISION 7 - THERMAL AND MOISTURE PROTECTION</b>												
<b>JOINT SEALANT</b>												
10	C-200			Provide expansion joint between concrete surfaces	308	LF	\$5.00	\$9.50	\$2,922	\$1,538.05	\$15	\$4,460.35
<i>Sub-total (Division 07)</i>									\$2,922	\$1,538		\$4,460
<b>DIVISION 31 - EARTHWORK</b>												
<b>Clearing and grubbing</b>												
11	C-200			Clear and grub area as required (520 SF)	520	SF	\$5.50	\$2.00	\$1,040	\$2,860.00	\$8	\$3,900.00
<b>Earthwork</b>												
12	C-400			Grade area as required. - Fill: 4156 CY - Approximate quantity V.I.F.	4156	CY	\$4.00	\$7.00	\$29,092	\$16,624.00	\$11	\$45,716.00
13	C-400			Grade area as required. - Cut: 2460 CY - Approximate quantity V.I.F.	2460	CY	\$4.00	\$11.50	\$28,290	\$9,840.00	\$16	\$38,130.00
<b>Excavating, Backfilling, and Compacting for Structures</b>												
14	C-200			Provide 6" compacted aggregate below asphalt pavement. - 20% fluff factor included.	591	CY	\$5.80	\$10.20	\$6,027	\$3,427.22	\$16	\$9,454.41
15	C-200	C-502		Provide 6" compact graded aggregate base under concrete pavement. - 20% fluff factor included.	53	CY	\$4.00	\$8.45	\$452	\$213.78	\$12	\$665.38
16	C-401- C-402			Excavate pipe trench for 18" RCP. - 20% fluff factor included.	375	CY	\$35.00	\$26.00	\$9,754	\$13,130.44	\$61	\$22,884.49
17	C-401- C-402			Provide fill at 18" RCP pipe. - 20% fluff factor included.	516	CY	\$32.80	\$30.30	\$15,636	\$16,925.75	\$63	\$32,561.42
18	C-401			Provide fill for 24" RCP. - 20% fluff factor included.	750	CY	\$34.00	\$35.00	\$26,263	\$25,512.72	\$69	\$51,775.81
19	C-401			Excavation for 24" RCP. - 20% fluff factor included	508	CY	\$37.00	\$30.00	\$15,253	\$18,812.44	\$67	\$34,065.78
20	C-401	C-403		Provide 6" thick stone base. - 20% fluff factor included	12	CFT	\$4.50	\$3.50	\$41	\$52.99	\$8	\$94.20
21	ER-200	ER-400		Provide gravel at rip rap outlet protection. - Heavy geotextile fabric anchored.	54	SF	\$2.27	\$4.00	\$216	\$122.83	\$6	\$339.27
22	C-300- C-301	C-403		Provide 6" thick stone base. - 20% fluff factor included	3	CY	\$8.00	\$37.50	\$131	\$27.91	\$46	\$158.74
23	C-300- C-301			Excavate for 6" sanitary sewer. - 20% fluff factor included.	696	CY	\$19.50	\$55.50	\$38,603	\$13,563.33	\$75	\$52,166.67
24	C-300- C-301			Backfill for 6" sanitary sewer. - 20% fluff factor included.	926	CY	\$36.80	\$73.60	\$68,138	\$34,069.06	\$110	\$102,207.17
22	C-300			Excavate for 8" DIP. - 20% fluff factor included. - Assumed depth: 4'-0"	252	CY	\$60.00	\$12.50	\$3,146	\$15,099.81	\$73	\$18,245.61
23	C-300			Backfill for 8" DIP. - 20% fluff factor included. - Assumed depth: 4'-0"	250	CY	\$67.50	\$15.00	\$3,749	\$16,872.54	\$83	\$20,621.99
24	C-300			Excavate for 2.5" PVC domestic water line - 20% fluff factor included. - Assumed depth: 4'-0"	188	CY	\$36.57	\$15.75	\$2,968	\$6,891.41	\$52	\$9,859.41
25	C-300			Backfill for 2.5" PVC domestic water line. - 20% fluff factor included. - Assumed depth: 4'-0"	187.8	CY	\$8.00	\$12.50	\$2,348	\$1,502.76	\$21	\$3,850.81
<i>Sub-total (Division 31)</i>									\$251,148	\$195,549		\$446,697
<b>DIVISION 32 - EXTERIOR IMPROVEMENTS</b>												
<b>Asphalt Paving</b>												
29	C-200		32 12 16	Asphalt pavement. - Detail not found	26591	SF	\$5.00	\$7.21	\$191,718	\$132,952.60	\$12	\$324,670.25
<b>Concrete Paving</b>												
30	C-200	C-502	32 16 00	Provide 4000 psi concrete pavement. - 6x6 W1.4/1.4 welded wire mesh - Assume 6" thick, thickness to be verified in field	2403	SF	\$5.50	\$7.50	\$18,020	\$13,214.85	\$13	\$31,235.10
<b>Curbs and gutters</b>												
31	C-200		32 16 00	24" header curb and gutter.	669	LF	\$18.50	\$22.00	\$14,708	\$12,368.18	\$41	\$27,076.28
32	C-200		32 16 00	6" header curb. - Size: 6" thick x 18" height	1210	LF	\$15.00	\$12.50	\$15,121	\$18,145.50	\$28	\$33,266.75
<b>Site Improvements</b>												
33	C-200		32 30 00	Detec tile warning surface. - Width: 2'-0"	1	EA	\$46.50	\$22.00	\$22	\$46.50	\$69	\$68.50

34	C-200	C-500	Provide S-1 (R7-8) handicap parking sign - White symbol on blue background. - Green 2" letters on white background - Green 1/2" letters on white background. - Size: 12" x 18"	2	EA	\$70.00	\$90.00	\$180	\$140.00	\$160	\$320.00					
34	C-200		Standing ada signage. - Detail not found	1	EA	\$60.00	\$150.00	\$150	\$60.00	\$210	\$210.00					
36	C-200	C-500	Van ADA signage - Size: 12" x 6" - Green letters on white background	1	EA	\$20.00	\$35.00	\$35	\$20.00	\$55	\$55.00					
37	C-200		2-carpool signage - Detail not found	1	EA	\$130.00	\$450.50	\$451	\$130.00	\$581	\$580.50					
31	C-200	C-500	ADA handicap space symbol. - White on blue background.	2	EA	\$22.00	\$18.00	\$36	\$44.00	\$40	\$80.00					
39	C-200		Paint 4" wide white color line on asphalt pavement	463	LF	\$2.00	\$3.50	\$1,622	\$926.76	\$6	\$2,548.59					
40	C-200		4" wide solid blue lines	45	LF	\$2.00	\$3.00	\$135	\$90.24	\$5	\$225.60					
		32 92 23	<b>Sodding</b>													
			<b>Refer to 32 93 00</b>			\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00					
		32 93 00	<b>Landscape Planting - Trees, Shrubs and Ground Cover</b>													
41	C-200		40'-60' native shade trees, species to include Tulip poplar, red maple, river birch, pecan, sweetgum, white oak, baldcypress.	6	EA	\$500.00	\$600.00	\$3,600	\$3,000.00	\$1,100	\$6,600.00					
42	C-200		15'-20' native tree. - Species to include serviceberry, redbud, flowering dogwood.	3	EA	\$100.00	\$250.00	\$750	\$300.00	\$350	\$1,050.00					
43	C-200		Seed area as required. - Mulch - Topsoil	513	SF	\$8.35	\$7.50	\$3,844	\$4,279.71	\$16	\$8,123.76					
			<b>Sub-total (Division 32)</b>					\$250,392	\$185,718		\$436,110					
			<b>DIVISION 33 - UTILITIES</b>													
		33 46 00	<b>Sub-drainage</b>													
44	C-401		GA standard 1034D pre-cast double wing catch basin. - Size: 4'-0" Diameter x 4'-6" H	2	EA	\$550.00	\$1,212.50	\$2,425	\$1,100.00	\$1,763	\$3,525.00					
45	C-401		GA standard 1019A drop inlet	5	EA	\$238.50	\$355.20	\$1,776	\$1,192.50	\$594	\$2,968.50					
46	C-401- C-402		GDOT standard 1001B HW	5	EA	\$12.00	\$25.00	\$125	\$60.00	\$37	\$185.00					
47	C-401		GA standard 1125 headwall with baffle Provide 5'-0" dia precast outlet control structure. - Size: 5'-0" Dia x 4'-6" H	1	EA	\$2,450.00	\$10,476.00	\$10,476	\$2,450.00	\$12,926	\$12,926.00					
48	C-401		- Manhole frame and lid GDOT 1011A - 18"x 18" x 4" concrete pad.	1	EA	\$2,000.00	\$3,305.00	\$3,305	\$2,000.00	\$5,305	\$5,305.00					
49	C-401		GA standard 1011A junction box	1	EA	\$12.00	\$25.00	\$25	\$12.00	\$37	\$37.00					
50	ER-200		Detention pond	2986	SF	\$13.00	\$16.00	\$47,779	\$38,820.08	\$29	\$86,598.64					
51	C-300- C-301	C-403	Sanitary manhole - Size: 5'-0" Dia x 4'-6" H - Manhole frame and lid GDOT 1011A - 18"x 18" x 4" concrete pad.	8	EA	\$3,800.00	\$450.00	\$3,600	\$30,400.00	\$4,250	\$34,000.00					
52	C-300		18" RCP	388	LF	\$30.00	\$50.00	\$19,391	\$11,634.30	\$80	\$31,024.80					
53	C-300		24" RCP	331	LF	\$35.00	\$60.00	\$19,845	\$11,576.25	\$95	\$31,421.25					
54	C-300		Thrust block at bends of pipe.	22	EA	\$350.00	\$1,350.00	\$29,700	\$7,700.00	\$1,700	\$37,400.00					
55	C-300		Fire hydrant w/ 6" gate valve - Polyethylene sheeting between all parts of concrete and pipeline.	1	EA	\$1,160.00	\$3,460.00	\$3,460	\$1,160.00	\$4,620	\$4,620.00					
56	C-300		6" FDC (Fire department connection)	1	EA	\$400.00	\$350.00	\$350	\$400.00	\$750	\$750.00					
57	C-300- C-301		6" sanitary sewer. - Doghouse existing sanitary sewer for connection.	883	LF	\$45.00	\$35.00	\$30,892	\$39,718.35	\$80	\$70,610.40					
58	C-300		Fire vault. - Size: 8'-0" W x 5'-0" L V.L.F.	1	EA	\$1,050.00	\$996.20	\$996	\$1,050.00	\$2,046	\$2,046.20					
59	C-300		8" DIP	530	LF	\$12.00	\$18.74	\$9,936	\$6,362.28	\$31	\$16,298.04					
60	C-300		2.5" PVC domestic water line	535	LF	\$4.50	\$3.50	\$1,871	\$2,405.30	\$8	\$4,276.08					
61	C-300		3" domestic meter (water)	1	EA	\$125.00	\$325.00	\$325	\$125.00	\$450	\$450.00					
62	C-300		6" PVI - Plug valve	1	EA	\$80.00	\$500.00	\$500	\$80.00	\$580	\$580.00					
63	C-300		1.5" corporation stop	1	EA	\$22.50	\$57.18	\$57	\$22.50	\$80	\$79.68					
64	C-300		12"x8" tapping sleeve	1	EA	\$150.00	\$275.00	\$275	\$150.00	\$425	\$425.00					
			<b>Sub-total (Division 33)</b>					\$187,108	\$158,419		\$345,527					
<b>ABBREVIATIONS:</b>								<b>TOTAL MATERIAL COST</b>				<b>\$738,326</b>				
"HRS"=Hours, "LF"=Linear feet, "SF"=Square feet, "CF"=Cubic feet, "CY"=Cubic yard, "EA"=Each, "LOC"=Locations,								<b>TOTAL LABOR COST</b>				<b>\$589,855</b>				
								<b>TOTAL COST</b>								<b>\$1,328,181</b>
								<b>PROFIT ON MATERIAL COST</b>				<b>20%</b>				<b>\$147,665</b>
								<b>MATERIAL TAX</b>				<b>8.63%</b>				<b>63717.53261</b>
								<b>TOTAL COST WITH TAX</b>								<b>1539564.161</b>
								<b>PROFIT ON TOTAL COST WITH TAX</b>				<b>10%</b>				<b>153956.4161</b>
								<b>TOTAL BID</b>								<b>1693520.578</b>