SUBCONTRACTOR MANPOWER MATRIX

PRELIMINARY
NOVEMBER 17, 2003

WORKmonths IS THE ADDITION OF THE WORKERS PER MONTH FOR ALL THE MONTHS THAT TRADE WORKS

SENIOR BUILDING #1

	MONTH																TOTAL	
SUBCONTRACT	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**WORKmonths**	**Description of employees work titles**
Excavation/Grading	11	11	4	4	4	0	0	0	0	0	0	0	0	0	0	0	34	Supervisor, equipment operators, truck drivers, flagman, laborers
Sheeting and Shoring	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	Supervisor, equipment operators, laborers
Site Utilities	0	10	10	10	10	0	0	0	10	10	0	0	0	0	0	0	60	Supervisor, equipment operators, pipe layers, laborers
Curb & Gutter	0	0	0	0	0	0	0	0	8	8	0	0	0	0	0	0	16	Supervisor, concrete form carpenters, finishers, equipment operators, apprentices, laborers
Asphalt Paving	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	16	Supervisor, equipment operators, screeners, laborers
Concrete	0	20	30	40	25	0	0	0	0	0	0	0	0	0	0	0	115	Supervisor, concrete form carpenters, laborers, concrete finishers, apprentices, equipment operators
Elevators	0	5	0	0	0	0	0	0	0	0	0	6	6	6	4	2	29	Supervisor, mechanics, laborers, control technicians
Framing Carpentry	0	0	0	0	0	60	60	40	20	15	10	8	8	8	6	3	238	Supervisor, carpenters, apprentices, laborers
Masonry	0	0	0	12	20	20	20	40	40	40	25	18	10	10	5	5	265	Supervisor, masons, helpers, apprentices, mix and equipment operators
Siding	0	0	0	0	0	0	0	0	0	20	20	10	0	0	0	0	50	Supervisor, laborers
Roofing	0	0	0	0	0	0	0	15	25	25	15	5	0	0	0	0	85	Supervisor, roofers, equipment operators, laborers
HVAC	0	0	0	0	4	8	12	20	20	20	15	15	10	10	10	5	149	Supervisor, mechanics, sheet metal workers, apprentices, laborers, control technicians
Plumbing	0	4	10	10	10	15	20	20	20	20	20	20	15	10	10	5	209	Supervisor, welders, plumbers, fitters, apprentices, laborers
Fire Sprinklers	0	0	0	0	4	12	12	12	12	12	12	12	12	8	5	2	115	Supervisor, welders, plumbers, fitters, apprentices, laborers
Electrical Labor	0	4	4	6	8	10	10	10	20	25	25	20	20	15	5	5	187	Supervisor, electricians, apprentices, laborers
Insulation	0	0	0	0	0	0	0	0	10	10	10	5	5	0	0	0	40	Supervisor, insulators, laborers
Drywall & Paint	0	0	0	0	0	0	0	0	0	35	40	40	40	10	10	10	185	Supervisor, hangers, finishers, painters, apprentices, laborers
Interior Trim Carpentry	0	0	0	0	0	0	0	0	0	0	12	12	12	12	8	5	61	Supervisor, carpenters, apprentices, laborers
Cabinets	0	0	0	0	0	0	0	0	0	0	8	8	8	8	4	2	38	Supervisor, carpenters, laborers
Flooring	0	0	0	0	0	0	0	0	0	0	0	8	8	8	4	4	32	Supervisor, mechanics, helpers
Ceramic Tile	0	0	0	0	0	0	0	0	0	0	8	8	8	6	4	2	36	Supervisor, mechanics, helpers
Site Concrete	0	0	0	0	0	0	0	0	0	8	15	4	4	4	4	0	39	Supervisor, concrete form carpenters, finishers, brick masons, equipment operators, apprentices, laborers
Landscaping	0	0	0	0	0	0	0	0	0	0	10	10	0	0	6	10	36	Supervisor, laborers
TOTALS	**21**	**64**	**58**	**82**	**85**	**125**	**134**	**157**	**185**	**264**	**245**	**209**	**166**	**115**	**85**	**60**	**2055**	

ZONING COMMISSION
District of Columbia
CASE NO.03-12
EXHIBIT NO.78F

SUBCONTRACTOR MANPOWER
MATRIX

PRELIMINARY
NOVEMBER 17, 2003

WORKmonths IS THE ADDITION OF THE WORKERS PER MONTH FOR ALL THE MONTHS THAT TRADE WORKS

CONSOLIDATED LOW-RISE RESIDENTIAL

	MONTH																							TOTAL	
SUBCONTRACT	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**WORKmonths**	**Description of employees work titles**
Erosion/Sediment Control	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	Supervisor, laborers, truck drivers, flag person
Demolition	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	Supervisor, equipment operators, truck drivers, flagman, laborers
Excavation/Grading	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	Supervisor, equipment operators, truck drivers, flagman, laborers
Underground Utilities/Conduit	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	Supervisor, equipment operators, pipe layers, laborers
Curb & Gutter	0	0	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	Supervisor, concrete form carpenters, finishers, equipment operators, apprentices, laborers
Asphalt Paving	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	Supervisor, equipment operators, screeners, laborers
Soil Poisoning	0	0	0	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	22	Supervisor, laborers
Footings & Foundations, Concrete Flatwork	0	0	0	0	12	12	12	12	12	12	12	12	12	12	12	0	0	0	0	0	0	0	0	0	132	Supervisor, concrete form carpenters, laborers, concrete finishers, apprentices, equipment operators
Waterproofing	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	22	Supervisor, laborers
Framing Carpentry	0	0	0	0	0	20	20	20	20	20	20	20	20	20	20	20	0	0	0	0	0	0	0	0	220	Supervisor, carpenters, apprentices, laborers
Exterior Doors & Windows	0	0	0	0	0	10	10	10	10	10	10	10	10	10	10	10	0	0	0	0	0	0	0	0	110	Supervisor, carpenters, apprentices, laborers
Masonry	0	0	0	0	0	0	16	16	16	16	16	16	16	16	16	16	16	0	0	0	0	0	0	0	176	Supervisor, masons, helpers, apprentices, mix and equipment operators
Siding	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	44	Supervisor, laborers
Roofing	0	0	0	0	0	0	0	8	8	8	8	8	8	8	8	8	8	8	0	0	0	0	0	0	88	Supervisor, roofers, equipment operators, laborers
Gutters & Downspouts	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	44	Supervisor, sheet metal workers, laborers
Garage Doors	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	22	Supervisor, laborers
HVAC	0	0	0	0	0	0	0	0	8	8	8	8	8	8	8	8	8	8	8	0	0	0	0	0	88	Supervisor, mechanics, sheet metal workers, apprentices, laborers, control technicians
Plumbing	0	0	0	0	0	0	0	0	10	10	10	10	10	10	10	10	10	10	10	0	0	0	0	0	110	Supervisor, welders, plumbers, fitters, apprentices, laborers
Fire Sprinklers	0	0	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	0	0	0	0	0	66	Supervisor, welders, plumbers, fitters, apprentices, laborers
Electrical Labor	0	0	0	0	0	0	0	0	0	8	8	8	8	8	8	8	8	8	8	8	0	0	0	0	88	Supervisor, electricians, apprentices, laborers
Multi-Media/Security	0	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	0	0	0	0	44	Supervisor, low voltage technicians, laborers
Insulation	0	0	0	0	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	0	0	0	66	Supervisor, insulators, laborers
Drywall & Paint	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16	16	16	16	16	16	16	0	0	0	176	Supervisor, hangers, finishers, painters, apprentices, laborers
Interior Trim Carpentry	0	0	0	0	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	0	0	0	66	Supervisor, carpenters, apprentices, laborers
Cabinets	0	0	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	0	0	0	44	Supervisor, carpenters, laborers
Countertops	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	0	0	44	Supervisor, technicians, laborers
Shower Enclosures & Bath Accessories	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	0	0	44	Supervisor, technicians, laborers
Door Hardware	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	0	0	44	Supervisor, technicians, laborers
Flooring	0	0	0	0	0	0	0	0	0	0	0	0	8	8	8	8	8	8	8	8	8	8	8	0	88	Supervisor, mechanics, helpers
Ceramic Tile & Marble	0	0	0	0	0	0	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	0	66	Supervisor, mechanics, helpers
Cleaning	0	0	0	0	0	0	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	0	66	Supervisor, laborers
Ornamental Iron & Rails	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	44	Supervisor, technicians, laborers
Site Concrete & Brick Pavers	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	8	8	8	8	8	8	8	8	8	88	Supervisor, concrete form carpenters, finishers, brick masons, equipment operators, apprentices, laborers
Landscaping	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	66	Supervisor, laborers
Irrigation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	16	Supervisor, welders, plumbers, fitters, apprentices, laborers
Streetlights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	12	Supervisor, electricians, apprentices, laborers
TOTALS	**14**	**12**	**18**	**18**	**16**	**46**	**66**	**80**	**104**	**116**	**148**	**160**	**180**	**198**	**196**	**182**	**152**	**132**	**118**	**94**	**82**	**50**	**52**	**38**	**2272**	