



CIVIL ENGINEERING | LAND PLANNING | CONSTRUCTION ADMINISTRATION
www.ktdesign.com

Project Name: Orchard Meadows
Project Number: 12-0654.7
Date: Thursday, July 11th

Engineers Estimate

				ENGINEERS ESTIMATE	
ITEM NO.	DESCRIPTION OF ITEM	QTY. (EST)	UNIT	UNIT COST	EXTENDED COST
GENERAL					
100	MOBILIZATION	1	LS	\$ 20,000.00	\$ 20,000.00
101	MATERIAL TESTING	1	LS	\$ 5,000.00	\$ 5,000.00
102	CONSTRUCTION STAKING	1	LS	\$ 5,000.00	\$ 5,000.00
103	TRAFFIC CONTROL	1	LS	\$ 2,000.00	\$ 2,000.00
104	INCIDENTALS	1	LS	\$ 30,000.00	\$ 30,000.00
LIFT STATION SITE IMPROVEMENTS					
200	ASPHALT, CLASS G, TYPE 1 PG64-28	26	TONS	\$ 300.00	\$ 7,800.00
201	AGGREGATE BASE COURSE	48	TONS	\$ 30.00	\$ 1,440.00
202	18FT WIDE REINFORCED DRIVEWAY APPROACH	0	EA	\$ -	\$ -
203	4" GRAVEL SURFACING	89	TONS	\$ 30.00	\$ 2,670.00
204	CONCREET SIDEWALK, 4" NONREINFORCE W/ 2" CUSHION	51	SY	\$ 85.00	\$ 4,335.00
205	6 FT HIGH CHAIN LINK FENCE	280	LF	\$ 35.00	\$ 9,800.00
206	6 FT HIGH 18 FT WIDE SLIDING GATE	1	EA	\$ 4,500.00	\$ 4,500.00
LIFT STATION					
300	FURNISH WET WELL, 84" DIA CONCRETE MANHOLE WITH PRECAST LID & ACCESS HATCH	1	EA	\$ 18,000.00	\$ 18,000.00
301	INSTALL WET WELL	1	LS	\$ 35,000.00	\$ 35,000.00
302	FURNISH VALVE MANHOLE, 72" DIA CONCRETE MANHOLE WITH PRECAST LID & ACCESS HATCH	1	EA	\$ 10,000.00	\$ 10,000.00
303	INSTALL VALVE MANHOLE	1	LS	\$ 12,000.00	\$ 12,000.00
304	FURNISH (2) 15 HP PULL-UP SUBMERSIBLE PUMPS, RAIL SYSTEMS, CABLES, AND APPURTENANCES	1	LS	\$ 30,000.00	\$ 30,000.00
305	TELEMETRY - CONTROLS, (2) MAGNETIC FLOW METERS & INSTRUMENTSTION	1	LS	\$ 50,000.00	\$ 50,000.00
306	CONTROL BUILDING, WET WELL, AND VALVE MANHOLE ELECTRICAL	1	LS	\$ 32,000.00	\$ 32,000.00
307	PRESSURE GAUGES	2	EA	\$ 800.00	\$ 1,600.00
308	INSTALL PUMP AND CONTROL PANEL	1	EA	\$ 45,000.00	\$ 45,000.00
309	10" PVC SEWER MAIN	45	LS	\$ 130.00	\$ 5,850.00
310	6" DI PIPE, BENDS, WYE, REDUCER AND APPURTENANCES	1	LF	\$ 24,500.00	\$ 24,500.00
311	6" SWING CHECK VALVE	2	LS	\$ 2,000.00	\$ 4,000.00
312	6" PLUG VALVE	2	EA	\$ 2,000.00	\$ 4,000.00
313	3" SCH 40 PVC DRAIN PIPE & 3" FLOOR DRAIN	1	EA	\$ 1,000.00	\$ 1,000.00
314	3" GATE VALVE	1	LS	\$ 1,000.00	\$ 1,000.00
315	DAVIT CRANE & BASE	2	EA	\$ 5,500.00	\$ 11,000.00
316	PREFABRICATED CONTROL BUILDING & FOUNDATION	1	EA	\$ 165,000.00	\$ 165,000.00
317	NATURAL GAS GENERATOR	1	EA	\$ 40,000.00	\$ 40,000.00
318	72" SANITARY SEWER MANHOLE	1	EA	\$ 18,000.00	\$ 18,000.00

FORCE MAIN					
400	6" PVC FORCE MAIN, C-900, CLASS 150	1743	LF	\$ 50.00	\$ 87,150.00
401	6" 22.5 DEGREE BEND	3	EA	\$ 600.00	\$ 1,800.00
402	6" 45 DEGREE BEND	5	EA	\$ 600.00	\$ 3,000.00
SANITARY SEWER					
500	8" PVC SEWER MAIN	369	LF	\$ 40.00	\$ 14,760.00
501	48" SANITARY SEWER MANHOLE	1	EA	\$ 4,400.00	\$ 4,400.00
502	CONNECT TO EXISTING SANITARY MAIN	2	EA	\$ 3,000.00	\$ 6,000.00
503	8" CAP	1	EA	\$ 600.00	\$ 600.00
LIFT STATION GRADING & MISCELLANEOUS					
600	UNCLASSIFIED EXCAVATION	1	LS	\$ 30,000.00	\$ 30,000.00
601	MUCK EXCAVATION/DEWATERING	1	LS	\$ 25,000.00	\$ 25,000.00
602	TYPE 1 GRANULAR BACKFILL	79	TONS	\$ 30.00	\$ 2,370.00
603	TYPE 3 FOUNDATION MATERIAL	41	TONS	\$ 40.00	\$ 1,640.00
604	TOPSOIL, STRIP/STOCKPILE & REPLACE (6")	1	LS	\$ 15,000.00	\$ 15,000.00
605	SEEDING, FERTILIZING & MULCHING	1	LS	\$ 5,000.00	\$ 5,000.00
606	EROSION CONTROL	1	LS	\$ 4,000.00	\$ 4,000.00
607	SALVAGE & REPLACE ASPHALT MILLINGS(WALKING TRAIL)	1	LS	\$ 3,000.00	\$ 3,000.00
608	REMOVE AND RELOCATE TREES	3	EA	\$ 1,000.00	\$ 3,000.00
			TOTAL		\$ 807,215.00

RECEIVED
 APR 11 2000
 RAPID CITY DEPARTMENT OF
 COMMUNITY DEVELOPMENT