

SAMPLE

Job Name: Anywhere Water District Construction of Reservoir 1500

Qty	#Elect JM	Hours	Unit	Suggest'd Material	Labor @\$60/hr	Suggest'd Equipment Rent	Total
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Anywhere Water District
Construction of Reservoir 1500

Electrical Contractor Sub Bid

Qty	#Elect	Hours	Unit	Material	Labor \$60/hr	Equipment Rent	Total
Underground Conduit Work							

Trenching per linear foot of trench, 18 x 30 approximately							
460	L1	32.2	LF	3417.8	1932	0	5349.8

Mandrel Wire Brush and Swab Conduits (use vacuum with pull string)							
1	L2	4	Ea	0	240	0	240

Slurry, 2 sack red oxide dyed							
32 CY	--	1.28	CY	3136	76.8	0	3212.8

Shoring/support for conduit in trenches with rods, wire and wood							
Total all	L2	16	Ea	200	960	0	1160

Schedule 40 PVC conduit, 10' lengths with coupling							
4 inch							
10.9	L1	34.88	CLF	618.03	2092.8	0	2710.83

PVC coated steel 90 degree elbows							
4 inch							
32	L1	3.2	Ea	560	192	0	752

PVC coated steel conduit, 40 mil coating (for transversion to above ground)							
4 inch							
1.5	L1	8.25	CLF	601.5	495	0	1096.5

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Qty	#Elect JM	Hours	Unit	Suggest'd Material	Labor @\$60/hr	Suggest'd Equipment Rent	Total
Plastic Duct Spacers							
250	L1	12.5	Ea	630	750	0	1380
4" with 1.5" separator							
PVC coated female conduit unions							
4 inch							
32	L1	3.2	Ea	1107.2	192	0	1299.2
Schedule 40 PVC conduit, 10' lengths with coupling							
1"							
5	L1	16.5	CLF	426.5	990	0	1416.5
PVC coated steel 90 degree elbows							
1"							
28	L1	4.2	Ea	341.6	252	0	593.6
PVC coated steel conduit, 40 mil coating (for transversion to above ground)							
1"							
1.4	L1	9.8	CLF	728	588	0	1316
Plastic duct spacers							
4" with 1.5" separation							
130	L1	6.5	Ea	327.6	390	0	717.6
PVC coated female conduit unions							
1"							
28	L1	4.2	Ea	1850.8	252	0	2102.8
Schedule 40 PVC conduit, 10' lengths with coupling							
2"							
8.9	L1	31.15	CLF	1619.8	1869	0	3488.8
PVC coated steel 90 degree elbows (24 radius)							
2"							
14	L1	3.5	Ea	504	210	0	714

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Qty	#Elect JM	Hours	Unit	Suggest'd Material	Labor @\$60/hr	Suggest'd Equipment Rent	Total
PVC coated steel conduit, 40 mil coating (for transversion to above ground), 2"							
0.7	L1	9.1	CLF	728	546	0	1274
Plastic duct spacers 2" with 1.5" separation							
195	L1	9.75	Ea	591.4	585	0	1076.4
PVC coated female conduit unions 2"							
14	L1	3.5	Ea	2394	210	0	2604
Core Drill and Seal Conduit Holes in Vaults 4 - 4.5"							
	L2	2	Ea	48	120	168	336
**Subtotal: Underground Conduit Work							
		215.71		19830.23	12942.6	168	32840.83
Mount Enclosures							
PB-1 Hoffman A48H36CLP Enclosure (48x36x10) NEMA 4							
1	L2	2	Ea	1485	120	0	1605
Drill or Punch Holes in panel 1							
8	L1	0.8	Ea	0	48	0	48
Drill or Punch Holes in panel 2							
2	L1	0.3	Ea	0	18	0	18
MRTU -1 Hoffman A48H36CLP Enclosure (48x36x10) NEMA 4							
1	L2	2	Ea	1485	120	0	1605
Drill or Punch Holes in panel 1							
4	L1	0.4	Ea	0	24	0	24
Drill or Punch Holes in Distribution Panel 2B 3"							
	L1	0.45	Ea	0	27	0	27

SAMPLE

Qty	#Elect JM	Hours	Unit	Suggest'd Material	Labor @\$60/hr	Suggest'd Equipment Rent	Total
1	L1	2	Ea	1083	120	0	1203
Drill or Punch Holes in Panel 2B							
2- 3/4"	L1	0.2	Ea	0	12	0	12
Drill or Punch Holes in Panel 1							
3	L1	0.3	Ea	0	18	0	18
TPS1 (Transducer Pressure SWitch) - Hoffman A36H30CLP Enclosure (36x30x10) NEMA 4							
1	L1	2	Ea	1083	120	0	1203
Drill or Punch Holes in panel 1							
2-1"	L1	0.2	Ea	0	12	0	12
TPS2 (Transducer Pressure SWitch) - Hoffman A36H30CLP Enclosure (36x30x10) NEMA 4							
1	L1	2	Ea	1083	120	0	1203
Drill or Punch Holes in panel 1							
2 1.5"	L1	0.2	Ea	0	12	0	12
Seismic Sensor Control Box provided by sensor manufacturer							
1	L1	1	Ea	0	60	0	60
Rigid steel conduit clamps with bolts							
3/4 SS304							
10	L1	0.6	Ea	9.3	36	0	45.3
Rigid steel conduit clamps with bolts							
1 SS304							
50	L1	4	Ea	62.5	240	0	302.5
Rigid steel conduit clamps with bolts							
2 SS304							
5	L1	0.5	Ea	16.85	30	0	46.85
Channel spring nuts 304 SS							
3/8-16 13/16 strut							
50	L1	3	Ea	61	180	0	241
12 gauge steel channel with 9/16 holes, 1-7/8 oc							
1-5/8 x 1-5/8 galvanized							
0.5	L1	3	CLF	137.5	180	0	317.5

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Qty	#Elect JM	Hours	Unit	Suggest'd Material	Labor @\$60/hr	Suggest'd Equipment Rent	Total
14 gauge steel channel with 9/16 holes, 1-7/8 oc 1-5/8 x 1-5/8 galvanized							
0.1	L1	0.6	CLF	36.6	36	0	72.6
Weld 1 x 6 unistrut horizontal support mounts 24 feet up side of tank and 5 feet on center and approx 26 feet towards center of top of tank for conduit. Manlift and welding rental							
10	L1	0.1	Ea	0.5	6	440	446.5
**Subtotal: Mount Enclosures		25.65		6543.25	1539	440	8522.25
Raceway Stub Ups to Enclosures							
Standard wall galvanized rigid steel conduit 4 inch							
1	L1	4.5	CLF	544	270	0	814
Standard wall galvanized rigid steel conduit 1 inch							
1.7	L1	8.5	CLF	1331.1	510	0	1841.1
Standard wall galvanized rigid steel conduit 2 inch							
0.4	L1	4	CLF	648	240	0	888
Galvanized cast metal Types LB, LL or LR conduit bodies-Form E 4 inch							
22	L1	3.3	Ea	188.76	198	0	386.76
Galvanized cast metal Types LB, LL or LR conduit bodies-Form E 1 inch							
10	L1	2	Ea	128	120	0	248
Galvanized cast metal Types LB, LL or LR conduit bodies-Form E 2 inch							
10	L1	3	Ea	482	180	0	662

SAMPLE

Qty	#Elect JM	Hours	Unit	Suggest'd Material	Labor @\$60/hr	Suggest'd Equipment Rent	Total
Insulated malleable bushed nipples 4 inch							
32	L1	1.92	Ea	32	115.2	0	147.2
Insulated malleable bushed nipples 1 inch							
28	L1	2.24	Ea	52.64	134.4	0	187.04
Insulated malleable bushed nipples 2 inch							
14	L1	2.1	Ea	69.44	126	0	195.44
Type UA liquid-tight flex conduit 4 inch							
0.3	L1	1.35	CLF	70.2	81	0	151.2
Insulated malleable liquid-tight flex connectors 4 inch							
24	L1	2.4	Ea	151.68	144	0	295.68
**Subtotal: Raceway Stub Ups to Enclosures							
		35.31		3697.82	2118.6	0	5816.42
Wire							
Type THHN 600 volt 90 degree stranded copper building wire # 18-Rd Solid							
0.06	L2	0.3	KLF	4.25	18	0	22.25
Type THHN 600 volt 90 degree stranded copper building wire # 18-Rd/WH Stripe							
0.07	L2	0.35	KLF	4.96	21	0	25.96
Type THHN 600 volt 90 degree stranded copper building wire # 18-BN Solid							
0.05	L2	0.25	KLF	3.54	15	0	18.54
Type THHN 600 volt 90 degree stranded copper building wire # 18-BN/WH Stripe							
0.08	L2	0.4	KLF	5.66	24	0	29.66

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Qty	#Elect JM	Hours	Unit	Suggest'd Material	Labor @\$60/hr	Suggest'd Equipment Rent	Total
Type THHN 600 volt 90 degree stranded copper building wire # 18-OR Solid							
0.04	L2	0.2	KLF	2.83	12	0	14.83
Type THHN 600 volt 90 degree stranded copper building wire # 18-OR/WH Stripe							
0.07	L2	0.35	KLF	4.96	21	0	25.96
Type THHN 600 volt 90 degree stranded copper building wire # 18-Gn/WH Stripe							
0.19	L2	0.95	KLF	13.45	57	0	70.45
Type THHN 600 volt 90 degree stranded copper building wire # 18-OY/WH Stripe							
0.19	L2	0.95	KLF	13.45	57	0	70.45
Type THHN 600 volt 90 degree stranded copper building wire # 18-YL/WH Stripe							
0.04	L2	0.2	KLF	2.83	12	0	14.83
Type THHN 600 volt 90 degree stranded copper building wire # 18-BE/WH Stripe							
0.04	L2	0.2	KLF	2.83	12	0	14.83
Type THHN 600 volt 90 degree stranded copper building wire # 18-BK/WH Stripe							
0.04	L2	0.2	KLF	2.83	12	0	14.83
Type THHN 600 volt 90 degree stranded copper building wire # 18-BN/WH Stripe							
0.06	L2	0.3	KLF	4.25	18	0	22.25
Type THHN 600 volt 90 degree stranded copper building wire # 18-VT/WH Stripe							
0.04	L2	0.2	KLF	2.83	12	0	14.83
Type THHN 600 volt 90 degree stranded copper building wire # 18-BE							
0.01	L2	0.05	KLF	0.71	3	0	3.71
Type THHN 600 volt 90 degree stranded copper building wire # 18-BN							
0.03	L2	0.15	KLF	2.12	9	0	11.12

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Qty	#Elect JM	Hours	Unit	Suggest'd Material	Labor @\$60/hr	Suggest'd Equipment Rent	Total
18 AWG stranded comm. cable, individually shielded twisted pair, 80 degree, PVC jacket, 300 v.2 pairs							
0.24	L2	1.44	KLF	340.8	86.4	0	427.2
Type THHN 600 volt stranded copper building wire # 14 OR							
0.21	L2	1.26	KLF	15.29	75.6	0	90.89
Type THHN 600 volt stranded copper building wire # 14 BE							
0.21	L2	1.26	KLF	15.29	75.6	0	90.89
Pulling String 200LB Nylon							
1500	L2	1.5	L.F.	240	90	0	330
Type THHN 600 volt stranded copper building wire # 12							
0.44	L2	3.08	KLF	46.2	184.8	0	231
Soft drawn stranded copper ground wire #12							
0.28	L1	1.19	KLF	39.76	71.4	0	111.16
Type THHN 600 volt stranded copper building wire # 10							
0.06	L2	0.48	KLF	9.48	28.8	0	38.28
RGS Cable							
0.18	L2	1.755	KLF	306	105.3	0	411.3
**Subtotal: Wire		17.015		1084.32	1020.9	0	2105.22

Mount Intrusion Switch and Tank High Level Alarm, connect light and camera

GEMS LS-3 Float Switch

1	L1	1.5	Ea	40	90	0	130
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Omron D4A 1101N or equal limit switch and rotating arm

1	L1	1.5	Ea	125	90	0	215
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Qty	#Elect JM	Hours	Unit	Suggest'd Material	Labor @\$60/hr	Suggest'd Equipment Rent	Total
PVC Coated RGS nipples 1/2" x 2							
1	L1	0.05	Ea	31.23	3	0	34.23
PVC coated Type T conduit bodies T-18 1/2"							
1	L1	0.25	Ea	43.4	15	0	58.4
PVC coated steel conduit, 40 mil coating 2 inch							
1	L1	4.5	CLF	346	270	0	616
PVC coated male conduit unions 2 inch							
1"	L1	0.1	Ea	35.2	6	0	41.2
Schedule 40 PVC conduit, 10' lengths with coupling 1/2 custom cut to mount float							
0.1	L1	0.31	CLF	4.29	18.6	0	22.89
Schedule 40 PVC couplings 2 inch							
1	L1	0.02	Ea	0.19	1.2	0	1.39
Insulated thread bushing 2 inch							
1	L1	0.1	Ea	6.34	6	0	12.34
Steel or malleable reducing bushings 1/4 to 1/8th							
1	L1	0.05	Ea	0.93	3	0	3.93
Hookup Light Pole and Camera							
1	L1	1	Ea	0	60	0	60
**Subtotal: Mount Intrusion Switch, High Level Alarm...							
		9.38		632.58	562.8	0	1195.38
Testing							
1	L2	8	Ea	0	480	0	480

SAMPLE

Total Manhours, Material, Labor, and Equipment:

311.07	31788.2	18663.9	608	50960.1
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Subtotal:	50960.1
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Estimate Total:	50960.1
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9.75% Tax on Materials:	3089.6
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9.75% Tax on Equipment:	59.28
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Grand Total:	54108.98
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