CHAPTER 9
LISTING OF INSTALLATIONS

9-1. Index of Installations

Description	*Category*
Administration	AA
Airfield and Heliports	AG
Camp, PW	PW
Camp, Troop	NT
Hospital	GH
Maintenance, Vehicle	MT
Marine, Railway Repair	FP
Marine, Terminal POL	PA
Medical Depots	GH
Ordinance, Armament Rebuild Ship, Parks & Collection Point	JA
PECS (Containerized Supplies)	YY
Precast Parts Yard (Concrete, Panelized Wood and Steel)	PY
POL Fuel Drum Cleaning, Filling and Storage	PB
POL Pipeline	PD
POL Tactical Marine Terminal	PF
POL Tank Farm, Bulk Storage	PB
POL Tank Farm, Complex	PC
POL Tank Truck/Car Loading/Unloading	PE
Port, Break-Bulk Cargo	FP
Post Office	AP
Railroad, Regulating Station	FR
Railroad, Terminal	FT
Recreational Center	AR
Storage, Ammunition	DA
Signal Intelligence	CC
Storage, Dry Cargo	DC

9-2. Listing of Installations in Category Number Sequence

DDEXER4 RUN DATE 860207

DESERT CLIMATE

HELIPORT,ARMY,MIN REQTS FOR 25 AIRCRAFT,1 UH-1H AND 24 CH-47C OF THE TRANSP.CO.,HELICOPTER MEDIUM,INSTALLATION DWG SHEET 7 OF 65,INITIAL STD,SUPPORT AREA, GRADED AND DRAINED,SURFACING HEAVY DUTY MEMBRANE,PERSONNEL FACIL-ORGANIC TOE EQPT,REAL ESTATE REQT FOR INST-104 ACRES, REQD FROM LOCAL SOURCE---COARSE AGGR,1743 CY,FINE AGGR,1472 CY,MINERAL FILLER,658 CY,COMBAT BN CONSTR AG0134

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
111120AA	RUNWAY W/25 FT SHOULDERS,450 X 60		CH-54 AIRCRAFT	1.0	21	10	45603	324		173	497
111120AB	RUNWAY LENGTH CORRECTION,100 X 60		TEMP AND ALT	.0							
111120AC	RUNWAY OVERRUN,100 X 110 FT		CH-54 AIRCRAFT	2.0	6	4	4184	143		41	184
111120AD	APPROACH-DEPARTURE,1500X250-850 FT		CH-54 AIRCRAFT	4.0				538		345	883
111120AE	CLEAR AREA,1000 SY		AS REQUIRED	160.0	320	160	167360	7728		3128	10856
111141AA	TAXI-HOVERLANE,450 X 180 FT		CH-54 AIRCRAFT	1.2	38	34	33014	544		170	714
111210AB	TAXIWAY W/25 FT SHOULDERS,2000 X 40		CH-54 AIRCRAFT	5.2	426	161	866848	6237		3265	9502
111320AB	PARKING PAD,4EA 20 X 20 FT		UH-1 AIRCRAFT	.3		1	1967	7		3	10
111320AC	PARKING PAD,2EA 50 X 25 FT		CH-47 AIRCRAFT	12.0	12	36	78660	497		166	663
111370AB	AIRCRAFT WASHING APRON,50 X 25 FT		1/INSTALLATION	1.0	1	3	6498	20		7	27
111371AB	DEFUEL/DECONTN APR,50 X 25 FT		1/INSTALLATION	1.0	1	3	6498	20		7	27
111380AA	AC LOADING APR,2EA 50 X 25 FT		CH-47 AIRCRAFT	2.0	2	6	13110	55		28	83
111610AA	COMPASS SWING BASE,50 X 50 FT		1/INSTALLATION	1.0	1	3	6527	28		14	42
112110AA	HOT REFUELING PAD,2EA 50 X 25 FT		3/INSTALLATION	1.5	2	5	9833	41		21	62
12110AH	SUPPORT ACFT REFUELING 30000 G STOR		5 DAY SUPPLY	2.0	16	40	131052	350	267	736	1353
12110AJ	FUEL STORAGE AUGMENTATION 50000 GAL		5 DAY SUPPLY	1.0	5	5	16865	74	64	147	285
113315AA	AC CONTROL STATION,20 X 20 FT		1/INSTALLATION	1.0	3	2	15	7		1	8
113470AA	WIND DIRECTION INDICATOR		1/INSTALLATION	1.0			304		2	2	4
114111AA	FIRE AND RESCUE STATION,20 X 20 FT		1/INSTALLATION	1.0	3	2	15	7		1	8
142183AB	AMMUNITION STORAGE,2500SF		AS REQUIRED	1.0				3		2	5
85110CK	ROAD PAVEMENT,CLASS C,6IN STBL	1MI	PROVIDE ACCESS	2.2	1472	994	7359	385		111	496
85110DG	HARDSTAND,APR,TXWY,OR RNWY 1000SQYD		AS REQUIRED	.3	30	20	150	9		3	12
85130KH	ROAD,CLASS C,GRADED AND DRAINED	1MI	PROVIDE ACCESS	2.2	26	13	15297	4433		1617	6050
85210AY	HARDSTAND GRADED AND DRAINED 1000SY		AS REQUIRED	.3	2	1	1321	74		27	101
187120AA	DRAINAGE HELIPORT,24 ACRES		1 IN./HR	1.0				53		39	92
					2387	1503	1410480	21577	333	10054	31964

DDEXER4 RUN DATE 860207

DESERT CLIMATE

HELIPORT,ARMY,MIN REQTS FOR 25 AIRCRAFT,1 UH-1H AND 24 AG0234
CH-47C OF THE TRANSP.CO.,HELICOPTER MEDIUM,INSTALLATION DWG
SHEETS 8AND9 OF 65,INITIAL STANDARD
SUPPORT AREA,GRADED AND DRAINED,SURFACING M8A1 LANDING MAT,
PERSONNEL FACIL-TROOP CAMP INST NO NT1421,REAL ESTATE REQT
FOR INST-123 ACRES,REQD FROM LOCAL SOURCE--COARSE AGGR,1534
CY,FINE AGGR,1338 CY,MINERAL FILLER,598 CY,COMBAT BN CONSTR

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	GENL	TOT
111120AC	RUNWAY OVERRUN,100 X 110 FT		CH-54 AIRCRAFT	2.0	6	4	4184	143		41	184
111120AD	APPROACH-DEPARTURE,1500X250-850 FT		CH-54 AIRCRAFT	4.0				538		345	883
111120AE	CLEAR AREA,1000 SY			167.0	334	167	174682	8066		3265	11331
111120BA	RUNWAY W/25 FT SHOULDERS,450 X 60		CH-54 AIRCRAFT	1.0	131	77	73348	342		328	670
111120BC	RUNWAY LENGTH CORRECTION,100 X 60		TEMP AND ALT	.0							
111141AA	TAXI-HOVERLANE,450 X 180 FT		CH-54 AIRCRAFT	1.2	38	34	33014	544		170	714
111210AB	TAXIWAY W/25 FT SHOULDERS,2000 X 40		CH-54 AIRCRAFT	.2	16	6	33263	240		126	366
111210BB	TAXIWAY W/25 FT SHOULDERS,1000 X 40		CH-54 AIRCRAFT	10.2	2234	1265	1306457	6428		6229	12657
111320BB	PARKING PAD,4EA 20 X 20 FT		UH-1 AIRCRAFT	.3	3	2	2580	6		7	13
111320BC	PARKING PAD,10EA 50 X 25 FT		CH-47 AIRCRAFT	2.4	173	125	117766	408		411	819
111340BD	HANGAR ACCESS,335 X 100 FT		AS REQUIRED	1.0	147	108	104844	262		490	752
111370AB	AIRCRAFT WASHING APRON,50 X 25 FT		1/INSTALLATION	1.0	1	3	6498	20		7	27
111371AB	DEFUEL/DECONTN APR,50 X 25 FT		1/INSTALLATION	1.0	1	3	6498	20		7	27
111380BB	AC LOADING APR,4EA 50 X 25 FT		CH-47 AIRCRAFT	1.0	29	21	19627	58		58	116
111610AA	COMPASS SWING BASE,50 X 50 FT		1/INSTALLATION	1.0	1	3	6527	28		14	42
112110BB	HOT REFUELING PAD,2EA 50 X 25 FT		3/INSTALLATION	1.5	21	15	14721	43		43	86
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
12630AA	LDG FACIL FOR TWO FUEL TRUCKS	2-STATION	AS REQUIRED	1.0	12	12	13862	173	374	1213	1760
113315BA	CONTROL TOWER LOW DENSITY TRAFFIC		1/INSTALLATION	1.0	16	21	4632	1	560	112	673
113470AA	WIND DIRECTION INDICATOR		1/INSTALLATION	1.0			304		2	2	4
14110BA	AFOPS BLDG 864SF PNL WD BDG W/ INT		1/INSTALLATION	1.0	27	33	18383	8	1110	879	1997
114111BA	FIRE AND RSQ STA,FAC NO.73010AC		1/INSTALLATION	1.0	192	283	39238	63	930	171	1164
114910AR	AIRCRAFT REVETMENT,IMPROVED,UH-1D/H		UH-1 AIRCRAFT	1.0	15	12	3919		61	102	163
114910AT	AIRCRAFT REVETMENT,IMPROVED,CH-47		CH-47 AIRCRAFT	24.0	504	384	132096		2180	3174	5354
121110BB	ORG MNT HANGAR,105 X 112 FT		CH-47 AIRCRAFT	3.0	237	468	773025	587		1052	1639
141120BA	FLAMMABLE STORAGE,12 X 24 FT		AS REQUIRED	1.0	14	13	3322	1		1	2
41180AG	TANK, POL, 3000 BARREL, W/6 IN PIPE	3000 BBL	5 DAY SUPPLY	1.0	2	32	12538	104	357	242	703
142183BA	AMMUNITION STORAGE,24 X 36 FT			1.0	25	27	17138	1		1	2
85110CK	ROAD PAVEMENT,CLASS C,6IN STBL 1MI		PROVIDE ACCESS	2.0	1338	904	6690	350		101	451
85110DG	HARDSTAND,APR,TXWY,OR RNWY 1000SQYD		AS REQUIRED	.6	60	41	300	19		7	26
85130KH	ROAD,CLASS C,GRADED AND DRAINED 1MI		PROVIDE ACCESS	2.0	24	12	13906	4030		1470	5500
85210AY	HARDSTAND GRADED AND DRAINED 1000SY		AS REQUIRED	.6	4	2	2641	148		53	201
187120BA	DRAINAGE HELIPORT,25 ACRES		1 IN./HR	1.0	32	36	22513	74		64	138
87210AD	CONCERTINA,TRIPLE TAPE TYP D 1000LF		SECUR FENCE	11.0	1287	770	21582	354		1417	1771
					6925	4884	2991344	23068	5634	21625	50327

DDEXER4 RUN DATE 860207

DESERT CLIMATE

HELIPORT,ARMY,MIN REQTS FOR 25 AIRCRAFT,1 UH-1H AND 24 AG0334
CH-47C OF THE TRANSP.CO.,HELICOPTER MEDIUM,INSTALLATION DWG
SHEETS 10 AND 11 OF 65,TEMPORARY STD,
SUPPORT AREA,GRADED AND DRAINED,SURFACING BITUMINOUS
PAVEMENT,PERSONNEL FACIL-TROOP CAMP INST NO NT1621,REAL
ESTATE REQT FOR INST-123 ACRES,REQD FROM LOCAL SOURCE---
COARSE AGGR,8828 CY,FINE AGGR,4118 CY,MINERAL FILLER,1269 CY

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
111120AD	APPROACH-DEPARTURE,1500X250-850 FT		CH-54 AIRCRAFT	4.0				538		345	883
111120AE	CLEAR AREA,1000 SY		AS REQUIRED	168.0	336	168	175728	8114		3284	11398
111120BF	RUNWAY OVERRUN,100 X 125 FT		CH-54 AIRCRAFT	2.0	8	6	4882	166		46	212
111120CA	RUNWAY W/25 FT SHOULDERS,450 X 75		CH-54 AIRCRAFT	1.0	260	210	13615	455		189	644
111120CB	RUNWAY LENGTH CORRECTION,100 X 75		TEMP AND ALT	.0							
111141AA	TAXI-HOVERLANE,450 X 180 FT		CH-54 AIRCRAFT	1.2	38	34	33014	544		170	714
111210CB	TAXIWAY W/25 FT SHOULDERS,1000 X 40		CH-54 AIRCRAFT	11.0	3443	2761	181357	7957		3112	11069
111320CB	PARKING PAD,4EA 20 X 20 FT		UH-1 AIRCRAFT	.3	4	3	72	17		3	20
111320CC	PARKING PAD,10EA 50 X 25 FT		CH-47 AIRCRAFT	2.4	228	182	3586	480		116	596
111340CD	HANGAR ACCESS,335 X 100 FT		AS REQUIRED	1.0	250	200	3346	321		99	420
111370CB	AIRCRAFT WASHING APRON,50 X 25 FT		1/INSTALLATION	1.0	10	8	139	26		6	32
111371CB	DEFUEL/DECONTN APR,50 X 25 FT		1/INSTALLATION	1.0	10	8	139	26		6	32
111380CB	AC LOADING APR,4EA 50 X 25 FT		CH-47 AIRCRAFT	1.0	38	30	598	81		20	101
111610CA	COMPASS SWING BASE,50 X 50 FT		1/INSTALLATION	1.0	14	11	211	99		29	128
112110CB	HOT REFUELING PAD,2EA 50 X 25 FT		3/INSTALLATION	1.5	30	24	482	85		29	114
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
12630AA	LDG FACIL FOR TWO FUEL TRUCKS	2-STATION	AS REQUIRED	1.0	12	12	13862	173	374	1213	1760
113315BA	CONTROL TOWER LOW DENSITY TRAFFIC		1/INSTALLATION	1.0	16	21	4632	1	560	112	673
113470AA	WIND DIRECTION INDICATOR		1/INSTALLATION	1.0			304		2	2	4
14110BA	AFOPS BLDG 864SF PNL WD BDG W/ INT		1/INSTALLATION	1.0	27	33	18383	8	1110	879	1997
114111BA	FIRE AND RSQ STA,FAC NO.73010AC		1/INSTALLATION	1.0	192	283	39238	63	930	171	1164
114910AR	AIRCRAFT REVETMENT,IMPROVED,UH-1D/H		UH-1 AIRCRAFT	1.0	15	12	3919		61	102	163
114910AT	AIRCRAFT REVETMENT,IMPROVED,CH-47		CH-47 AIRCRAFT	24.0	504	384	132096		2180	3174	5354
121110CB	ORG MNT HANGAR,105 X 112 FT		CH-47 AIRCRAFT	3.0	363	594	741540	566		731	1297
141120BA	FLAMMABLE STORAGE,12 X 24 FT		AS REQUIRED	1.0	14	13	3322	1		1	2
41180AG	TANK, POL, 3000 BARREL, W/6 IN PIPE	3000 BBL	5 DAY SUPPLY	1.0	2	32	12538	104	357	242	703
142183BA	AMMUNITION STORAGE,24 X 36 FT		AS REQUIRED	1.0	25	27	17138	1		1	2
85110BT	ROAD CLASS C, 1@ MULTIPLE SURFACE		PROVIDE ACCESS	2.0	798	600	8372	389		69	458
85110DG	HARDSTAND,APR,TXWY,OR RNWY 1000SQYD		AS REQUIRED	.6	60	41	300	19		7	26
85130KH	ROAD,CLASS C,GRADED AND DRAINED 1MI		PROVIDE ACCESS	2.0	24	12	13906	4030		1470	5500
85210AY	HARDSTAND GRADED AND DRAINED 1000SY		AS REQUIRED	.6	4	2	2641	148		53	201
187120BA	DRAINAGE HELIPORT,25 ACRES		1 IN./HR	1.0	32	36	22513	74		64	138
87210AA	FENCE,CHAIN LK.W/2 OUTRGRS 1 1000LF		PERIM FENCING	11.0	187	561	132814	1581		5060	6641
87210AF	GATE,CHAINLINK SING/LEAF 3 WI 10 HI		AS REQUIRED	5.0	5	10	1395	35		69	104
87210AG	GATE,VEH CHAINL DBL/LEAF 12WI 10 HI		AS REQUIRED	6.0	6	12	2406	48		104	152
87210AJ	FENCE,CORNER POST 10 FT HI CHAINLIN		AS REQUIRED	17.0			1853	196		156	352
					6956	6331	1591587	26355	5634	21157	53146

DDEXER4 RUN DATE 860207

DESERT CLIMATE

HELIPORT,ARMY,MIN REQTS FOR 27 AIRCRAFT,10 OH-58,9 AH-1G AND AG1234
8 UH-1H OF THE AIR CAVALRY TROOP,INSTALLATION DWG.SHEET 12OF
65,INITIAL STANDARD,SUPPORT AREA,GRADED
AND DRAINED,SURFACING M8A1 LANDING MAT,PERSONNEL FACIL-TROOP
CAMP INST NO NT1421,REAL ESTATE REQT FOR INST-65 ACRES,REQD
FROM LOCAL SOURCE---COARSE AGGR,1268 CY,FINE AGGR,1071 CY,
MINERAL FILLER,316 CY,COMBAT BN CONSTR

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
111120AC	RUNWAY OVERRUN,100 X 110 FT		CH-54 AIRCRAFT	2.0	6	4	4184	143		41	184
111120AD	APPROACH-DEPARTURE,1500X250-850 FT		CH-54 AIRCRAFT	4.0				538		345	883
111120AE	CLEAR AREA,1000 SY		AS REQUIRED	42.8	86	43	44769	2067		837	2904
111120BA	RUNWAY W/25 FT SHOULDERS,450 X 60		CH-54 AIRCRAFT	1.0	131	77	73348	342		328	670
111120BC	RUNWAY LENGTH CORRECTION,100 X 60		TEMP AND ALT	.0							
111141AA	TAXI-HOVERLANE,450 X 180 FT		CH-54 AIRCRAFT	4.9	157	137	134809	2220		693	2913
111210AB	TAXIWAY W/25 FT SHOULDERS,2000 X 40		CH-54 AIRCRAFT	.2	16	6	33263	240		126	366
111320BA	PARKING PAD,10EA 12 X 12 FT		OH-58 AIRCRAFT	1.0	10	8	8713	18		18	36
111320BB	PARKING PAD,4EA 20 X 20 FT		AH-1G AIRCRAFT	4.3	39	30	36976	89		94	183
111340BA	HANGAR ACCESS,105 X 100 FT		AS REQUIRED	1.0	47	35	36467	87		163	250
111370AA	AIRCRAFT WASHING APRON,40 X 20 FT		1/INSTALLATION	1.0	1	1	3249	17		5	22
111371AA	DEFUEL/DECONTN APR,40 X 20 FT		1/INSTALLATION	1.0	1	3	6498	17		5	22
111380BA	AC LOADING APR,6EA 20 X 20 FT		UH-1 AIRCRAFT	1.0	14	11	12898	29		29	58
111610AA	COMPASS SWING BASE,50 X 50 FT		1/INSTALLATION	1.0	1	3	6527	28		14	42
112110BA	HOT REFUELING PAD,6EA 20 X 20 FT		6/INSTALLATION	1.0	14	11	12898	29		29	58
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
12630AA	LDG FACIL FOR TWO FUEL TRUCKS	2-STATION	AS REQUIRED	1.0	12	12	13862	173	374	1213	1760
113315BA	CONTROL TOWER LOW DENSITY TRAFFIC		1/INSTALLATION	1.0	16	21	4632	1	560	112	673
113470AA	WIND DIRECTION INDICATOR		1/INSTALLATION	1.0			304		2	2	4
14110BB	AFOPS BLDG 2160SF PNL WD BLDG W/ IN		1/INSTALLATION	1.0	170	953	96409	21	2151	610	2782
114111BA	FIRE AND RSQ STA,FAC NO.73010AC		1/INSTALLATION	1.0	192	283	39238	63	930	171	1164
114910AN	AIRCRAFT REVETMENT,IMPROVED,OH-58		OH-58 AIRCRAFT	10.0	110	80	28000		449	817	1266
114910AR	AIRCRAFT REVETMENT,IMPROVED,UH-1D/H		UH-1 AIRCRAFT	8.0	120	96	31352		488	819	1307
114910AV	AIRCRAFT REVETMENT,IMPROVED,AH-1G		AH-1G AIRCRAFT	9.0	108	90	28926		497	880	1377
121110BB	ORG MNT HANGAR,105 X 112 FT		UH-1 AIRCRAFT	1.0	79	156	257675	196		351	547
141120BA	FLAMMABLE STORAGE,12 X 24 FT		AS REQUIRED	1.0	14	13	3322	1		1	2
41180AF	TANK, POL, 1000 BARREL, W/6 IN PIPE	1000 BBL	5 DAY SUPPLY	1.0	1	14	8663	92	357	173	622
42283AC	MAGAZINE,STEEL ARCH 16X36		AS REQUIRED	1.0	14	31	4453	170	179	173	522
85110CK	ROAD PAVEMENT,CLASS C,6IN STBL 1MI		PROVIDE ACCESS	1.6	1070	723	5352	280		81	361
85110DG	HARDSTAND,APR,TXWY,OR RNWY 1000SQYD		AS REQUIRED	.6	60	41	300	19		7	26
85130KH	ROAD,CLASS C,GRADED AND DRAINED 1MI		PROVIDE ACCESS	1.6	19	10	11125	3224		1176	4400
85210AY	HARDSTAND GRADED AND DRAINED 1000SY		AS REQUIRED	.6	4	2	2641	148		53	201
187120BB	DRAINAGE HELIPORT,11 ACRES		1 IN./HR	1.0	14	17	9880	23		23	46
87210AD	CONCERTINA,TRIPLE TAPE TYP D 1000LF		SECUR FENCE	9.2	1076	644	18050	296		1185	1481
					3603	3556	980029	10580	6047	10597	27224

DDEXER4 RUN DATE 860207

DESERT CLIMATE

HELIPORT,ARMY,MIN REQTS FOR 27 AIRCRAFT,10 OH-58,9 AH-1G AND 8 UH-1H OF THE AIR CAVALRY TROOP,INSTALLATION DWG.SHEET 13OF 65,TEMPORARY STD,SUPPORT AREA,GRADED AND DRAINED,SURFACING BITUMINOUS PAVEMENT,PERSONNEL FACIL-TROOP CAMP INST NO NT1621,REAL ESTATE REQT FOR INST-65 ACRES,REQD FROM LOCAL SOURCE---COARSE AGGR,2320 CY,FINE AGGR,1027 CY, MINERAL FILLER,327 CY,COMBAT SN AND SUP CO CONSTR AG1334

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
111120AD	APPROACH-DEPARTURE,1500X250-850 FT		CH-54 AIRCRAFT	4.0				538		345	883
111120AE	CLEAR AREA,1000 SY		AS REQUIRED	41.5	83	42	43409	2004		811	2815
111120BF	RUNWAY OVERRUN,100 X 125 FT		CH-54 AIRCRAFT	2.0	8	6	4882	166		46	212
111120CA	RUNWAY W/25 FT SHOULDERS,450 X 75		CH-54 AIRCRAFT	1.0	260	210	13615	455		189	644
111120CB	RUNWAY LENGTH CORRECTION,100 X 75		TEMP AND ALT	.0							
111141AA	TAXI-HOVERLANE,450 X 180 FT		CH-54 AIRCRAFT	5.0	160	140	137560	2266		707	2973
111210CB	TAXIWAY W/25 FT SHOULDERS,1000 X 40		CH-54 AIRCRAFT	.4	125	100	6595	289		113	402
111320CA	PARKING PAD,10EA 12 X 12 FT		OH-58 AIRCRAFT	1.0	11	9	327	140		28	168
111320CB	PARKING PAD,4EA 20 X 20 FT		AH-1G AIRCRAFT	4.3	56	43	1036	242		49	291
111340CA	HANGAR ACCESS,105 X 100 FT		AS REQUIRED	1.0	79	63	1056	118		32	150
111370CA	AIRCRAFT WASHING APRON,40 X 20 FT		1/INSTALLATION	1.0	6	5	86	20		3	23
111371CA	DEFUEL/DECONTN APR,40 X 20 FT		1/INSTALLATION	1.0	6	5	86	20		3	23
111380CA	AC LOADING APR,6EA 20 X 20 FT		UH-1 AIRCRAFT	1.0	18	15	344	84		17	101
111610CA	COMPASS SWING BASE,50 X 50 FT		1/INSTALLATION	1.0	14	11	211	99		29	128
112110CA	HOT REFUELING PAD,6EA 20 X 20 FT		6/INSTALLATION	1.0	18	15	344	93		36	129
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
12630AA	LDG FACIL FOR TWO FUEL TRUCKS	2-STATION	AS REQUIRED	1.0	12	12	13862	173	374	1213	1760
113315BA	CONTROL TOWER LOW DENSITY TRAFFIC		1/INSTALLATION	1.0	16	21	4632	1	560	112	673
113470AA	WIND DIRECTION INDICATOR		1/INSTALLATION	1.0			304		2	2	4
14110BB	AFOPS BLDG 2160SF PNL WD BLDG W/ IN		1/INSTALLATION	1.0	170	953	96409	21	2151	610	2782
114111BA	FIRE AND RSQ STA,FAC NO.73010AC		1/INSTALLATION	1.0	192	283	39238	63	930	171	1164
114910AN	AIRCRAFT REVETMENT,IMPROVED,OH-58		OH-58 AIRCRAFT	10.0	110	80	28000		449	817	1266
114910AR	AIRCRAFT REVETMENT,IMPROVED,UH-1D/H		UH-1 AIRCRAFT	8.0	120	96	31352		488	819	1307
114910AV	AIRCRAFT REVETMENT,IMPROVED,AH-1G		AH-1G AIRCRAFT	9.0	108	90	28926		497	880	1377
121110CB	ORG MNT HANGAR,105 X 112 FT		UH-1 AIRCRAFT	1.0	121	198	247180	189		244	433
141120BA	FLAMMABLE STORAGE,12 X 24 FT		AS REQUIRED	1.0	14	13	3322	1		1	2
41180AF	TANK, POL, 1000 BARREL, W/6 IN PIPE	1000 BBL	5 DAY SUPPLY	1.0	1	14	8663	92	357	173	622
42283AC	MAGAZINE,STEEL ARCH 16X36		AS REQUIRED	1.0	14	31	4453	170	179	173	522
85110BT	ROAD CLASS C, 1@ MULTIPLE SURFACE		PROVIDE ACCESS	1.6	638	480	6698	311		55	366
85110CN	HARDSTAND,APR,TXWY,OR RNWY 1000SQYD		AS REQUIRED	.8	41	30	398	39		18	57
85130KH	ROAD,CLASS C,GRADED AND DRAINED 1MI		PROVIDE ACCESS	1.6	19	10	11125	3224		1176	4400
85210AY	HARDSTAND GRADED AND DRAINED 1000SY		AS REQUIRED	.8	6	2	3522	198		71	269
187120BB	DRAINAGE HELIPORT,11 ACRES		1 IN./HR	1.0	14	17	9880	23		23	46
87210AA	FENCE,CHAIN LK.W/2 OUTRGRS 1 1000LF		PERIM FENCING	10.0	170	510	120740	1438		4600	6038
87210AF	GATE,CHAINLINK SING/LEAF 3 WI 10 HI		AS REQUIRED	5.0	5	10	1395	35		69	104
87210AG	GATE,VEH CHAINL DBL/LEAF 12WI 10 HI		AS REQUIRED	6.0	6	12	2406	48		104	152
87210AJ	FENCE,CORNER POST 10 FT HI CHAINLIN		AS REQUIRED	16.0			1744	184		147	331
					2622	3527	875046	12753	6047	13909	32709

DDEXER4 RUN DATE 860207

DESERT CLIMATE

HELIPORT,ARMY,MIN REQTS FOR 10 AIRCRAFT,9 CH-54A AND 1 UH-1H AG2134
OF THE TRANSP.CO,HELICOPTER HEAVY,INSTALLATION DWG.SHEET 14
OF 65,INITIAL STD,SUPPORT AREA,GRADED AND
DRAINED,SURFACING HEAVY DUTY MEMBRANE,PERSONNEL FACIL-
ORGANIC TOE EQPT,REAL ESTATE REQT FOR INST-66 ACRES,REQD
FROM LOCAL SOURCE---COARSE AGGR,1505 CY,FINE AGGR,1272 CY,
MINERAL FILLER,569 CY,COMBAT BN CONSTR

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
111120AA	RUNWAY W/25 FT SHOULDERS,450 X 60		CH-54 AIRCRAFT	1.0	21	10	45603	324		173	497
111120AB	RUNWAY LENGTH CORRECTION,100 X 60		TEMP AND ALT	.0							
111120AC	RUNWAY OVERRUN,100 X 110 FT		CH-54 AIRCRAFT	2.0	6	4	6184	143		41	184
111120AD	APPROACH-DEPARTURE,1500X250-850 FT		CH-54 AIRCRAFT	4.0				538		345	883
111120AE	CLEAR AREA,1000 SY		AS REQUIRED	120.0	240	120	125520	5796		2346	8142
111141AA	TAXI-HOVERLANE,450 X 180 FT		CH-54 AIRCRAFT	1.0	32	28	27512	453		141	594
111210AB	TAXIWAY W/25 FT SHOULDERS,2000 X 40		CH-54 AIRCRAFT	2.7	221	84	449056	3239		1695	4934
111320AB	PARKING PAD,4EA 20 X 20 FT		UH-1 AIRCRAFT	.3		1	1967	7		3	10
111320AD	PARKING PAD,50 X 50 FT		CH-54 AIRCRAFT	9.0	9	27	58743	248		124	372
111340AA	HANGAR ACCESS,100 X 100 FT		AS REQUIRED	1.0	6	1	14906	76		54	130
111370AD	AIRCRAFT WASHING APRON,50 X 50 FT		1/INSTALLATION	1.0	1	3	6498	28		14	42
111371AD	DEFUEL/DECONTN APR,100 X 100 FT		1/INSTALLATION	1.0	6	1	14906	76		54	130
111380AB	AC LOADING APR,50 X 50 FT		CH-54 AIRCRAFT	4.0	4	12	26108	110		55	165
111610AA	COMPASS SWING BASE,50 X 50 FT		1/INSTALLATION	1.0	1	3	6527	28		14	42
112110AB	HOT REFUELING PAD,50 X 50 FT		2/INSTALLATION	2.0	2	6	13054	55		28	83
12110AH	SUPPORT ACFT REFUELING 30000 G STOR		5 DAY SUPPLY	2.0	16	40	131052	350	267	736	1353
113315AA	AC CONTROL STATION,20 X 20 FT		1/INSTALLATION	1.0	3	2	15	7		1	8
113470AA	WIND DIRECTION INDICATOR		1/INSTALLATION	1.0			304		2	2	4
114111AA	FIRE AND RESCUE STATION,20 X 20 FT		1/INSTALLATION	1.0	3	2	15	7		1	8
85110CK	ROAD PAVEMENT,CLASS C,6IN STBL 1MI		PROVIDE ACCESS	1.9	1271	859	6356	332		96	428
85110DG	HARDSTAND,APR,TXWY,OR RNWY 1000SQYD		AS REQUIRED	.4	40	27	200	12		5	17
85130KH	ROAD,CLASS C,GRADED AND DRAINED 1MI		PROVIDE ACCESS	1.9	23	11	13211	3828		1396	5224
85210AY	HARDSTAND GRADED AND DRAINED 1000SY		AS REQUIRED	.4	3	1	1761	99		35	134
187120AB	DRAINAGE HELIPORT,10 ACRES		1 IN./HR	1.0				24		16	40
					1908	1242	947498	15780	269	7375	23424

DDEXER4 RUN DATE 860207

DESERT CLIMATE

HELIPORT,ARMY,MIN REQTS FOR 10 AIRCRAFT,9 CH-54A AND 1 UH-1H AG2244
OF THE TRANSP.CO,HELICOPTER HEAVY,INSTALLATION DWG,SHEET 15
OF 65 INITIAL STANDARD,REAR AREA,GRADED
AND DRAINED,SURFACING M8A1 LANDING MAT,PERSONNEL FACIL-TROOP
CAMP INST NO NT1421,REAL ESTATE REQT FOR INST-93 ACRES,REQD
FROM LOCAL SOURCE---COARSE AGGR,1426 CY,FINE AGGR,1205 CY,
MINERAL FILLER,539 CY,COMBAT BN CONSTR

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
111120AD	APPROACH-DEPARTURE,1500X250-850 FT		CH-54 AIRCRAFT	4.0				538		345	883
111120AE	CLEAR AREA,1000 SY		AS REQUIRED	115.0	230	115	120290	5555		2248	7803
111120BB	RUNWAY W/25 FT SHOULDERS,450 X 75		CH-54 AIRCRAFT	1.0	164	91	91243	399		400	799
111120BD	RUNWAY LENGTH CORRECTION,100 X 75		TEMP AND ALT	.0							
111120BF	RUNWAY OVERRUN,100 X 125 FT		CH-54 AIRCRAFT	2.0	8	6	4882	166		46	212
111141AA	TAXI-HOVERLANE,450 X 180 FT		CH-54 AIRCRAFT	1.0	32	28	27512	453		141	594
111210AB	TAXIWAY W/25 FT SHOULDERS,2000 X 40		CH-54 AIRCRAFT	.2	16	6	33263	240		126	366
111210BB	TAXIWAY W/25 FT SHOULDERS,1000 X 40		CH-54 AIRCRAFT	5.5	1205	682	704462	3466		3359	6825
111320BD	PARKING PAD,40 X 40 FT		UH-1 AIRCRAFT	1.0	8	7	8181	21		22	43
111320BE	PARKING PAD,10EA 100 X 100 FT		CH-54 AIRCRAFT	.9	408	222	224910	594		965	1559
111340BB	HANGAR ACCESS,220 X 100 FT		AS REQUIRED	1.0	98	73	74006	175		327	502
111370AF	AIRCRAFT WASHING APRON,100 X 100 FT		1/INSTALLATION	1.0	6	1	14906	76		54	130
111371AD	DEFUEL/DECONTN APR,100 X 100 FT		1/INSTALLATION	1.0	6	1	14906	76		54	130
111380BC	AC LOADING APR,4EA 100 X 100 FT		CH-54 AIRCRAFT	1.0	181	99	99732	314		469	783
111610AA	COMPASS SWING BASE,50 X 50 FT		1/INSTALLATION	1.0	1	3	6527	28		14	42
112110BD	HOT REFUELING PAD,2EA 100 X 100 FT		2/INSTALLATION	1.0	89	68	72151	237		246	483
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
12630AA	LDG FACIL FOR TWO FUEL TRUCKS	2-STATION	AS REQUIRED	1.0	12	12	13862	173	374	1213	1760
113315BA	CONTROL TOWER LOW DENSITY TRAFFIC		1/INSTALLATION	1.0	16	21	4632	1	560	112	673
113470AA	WIND DIRECTION INDICATOR		1/INSTALLATION	1.0			304		2	2	4
14110BA	AFOPS BLDG 864SF PNL WD BDG W/ INT		1/INSTALLATION	1.0	27	33	18383	8	1110	879	1997
114111BA	FIRE AND RSQ STA,FAC NO.73010AC		1/INSTALLATION	1.0	192	283	39238	63	930	171	1164
114910AR	AIRCRAFT REVETMENT,IMPROVED,UH-1D/H		UH-1 AIRCRAFT	1.0	15	12	3919		61	102	163
114910AU	AIRCRAFT REVETMENT,IMPROVED,CH-54		CH-54 AIRCRAFT	9.0	378	297	98577		1553	2070	3623
121110BB	ORG MNT HANGAR,105 X 112 FT		AS REQUIRED	1.0	79	156	257675	196		351	547
141120BA	FLAMMABLE STORAGE,12 X 24 FT			1.0	14	13	3322	1		1	2
41180AF	TANK, POL, 1000 BARREL, W/6 IN PIPE	1000 BBL	5 DAY SUPPLY	1.0	1	14	8663	92	357	173	622
85110AT	ROAD CLASS A, 6@ STABILIZED SURFACE		PROVIDE ACCESS	1.8	2140	1445	10701	567		157	724
35110DG	HARDSTAND,APR,TXWY,OR RNWY 1000SQYD		AS REQUIRED	.6	60	41	300	19		7	26
85130AY	ROAD,CLASS A,GRADED AND DRAINED 1MI		PROVIDE ACCESS	1.8	29	14	17086	5175		2080	7255
85210AY	HARDSTAND GRADED AND DRAINED 1000SY		AS REQUIRED	.6	4	2	2641	148		53	201
187120BC	DRAINAGE HELIPORT,15 ACRES		1 IN./HR	1.0	25	27	17759	47		44	91
87210AD	CONCERTINA,TRIPLE TAPE TYP D 1000LF		SECUR FENCE	9.1	1065	637	17854	293		1172	1465
					6510	4410	2013133	19130	5007	17426	41563

DDEXER4 RUN DATE 860207

DESERT CLIMATE

HELIPORT,ARMY,MIN REQTS FOR 10 AIRCRAFT,9 CH-54A AND 1 UH-1H AG2344
OF THE TRANSP.CO,HELICOPTER HEAVY,INSTALLATION DWG.SHEET 16
OF 65,TEMPORARY STD,REAR AREA,GRADED AND
DRAINED,SURFACING BITUMINOUS PAVEMENT,PERSONNEL FACIL-TROOP
CAMP INST NO NT1621,REAL ESTATE REQT FOR INST-93 ACRES,REQD
FROM LOCAL SOURCE---COARSE AGGR,7909 CY,FINE AGGR,3638 CY,
MINERAL FILLER,1109 CY,COMBAT BN AND SUP CO CONSTR

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
111120AD	APPROACH-DEPARTURE,1500X250-850 FT		CH-54 AIRCRAFT	4.0				538		345	883
111120AE	CLEAR AREA,1000 SY		AS REQUIRED	119.0	238	119	124474	5748		2326	8074
111120BF	RUNWAY OVERRUN,100 X 125 FT		CH-54 AIRCRAFT	2.0	8	6	4882	166		46	212
111120CA	RUNWAY W/25 FT SHOULDERS,450 X 75		CH-54 AIRCRAFT	1.0	260	210	13615	455		189	644
111120CB	RUNWAY LENGTH CORRECTION,100 X 75		TEMP AND ALT	.0							
111141AA	TAXI-HOVERLANE,450 X 180 FT		CH-54 AIRCRAFT	1.0	32	28	27512	453		141	594
111210CB	TAXIWAY W/25 FT SHOULDERS,1000 X 40		CH-54 AIRCRAFT	4.2	1315	1054	69245	3038		1188	4226
111320CD	PARKING PAD,40 X 40 FT		UH-1 AIRCRAFT	1.0	13	10	207	29		6	35
111320CE	PARKING PAD,10EA 100 X 100 FT		CH-54 AIRCRAFT	.9	672	536	10499	658		232	890
111340CB	HANGAR ACCESS,220 X 100 FT		AS REQUIRED	1.0	168	134	2252	231		66	297
111370CD	AIRCRAFT WASHING APRON,100 X 100 FT		1/INSTALLATION	1.0	75	60	1003	118		32	150
111371CD	DEFUEL/DECONTN APR,100 X 100 FT		1/INSTALLATION	1.0	75	60	1003	118		32	150
111380CC	AC LOADING APR,4EA 100 X 100 FT		CH-54 AIRCRAFT	1.0	299	239	4453	317		113	430
111610CA	COMPASS SWING BASE,50 X 50 FT		1/INSTALLATION	1.0	14	11	211	99		29	128
112110CD	HOT REFUELING PAD,2EA 100 X 100 FT		2/INSTALLATION	1.0	150	120	2351	237		115	352
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
12630AA	LDG FACIL FOR TWO FUEL TRUCKS	2-STATION	AS REQUIRED	1.0	12	12	13862	173	374	1213	1760
113315BA	CONTROL TOWER LOW DENSITY TRAFFIC		1/INSTALLATION	1.0	16	21	4632	1	560	112	673
113470AA	WIND DIRECTION INDICATOR		1/INSTALLATION	1.0			304		2	2	4
14110BA	AFOPS BLDG 864SF PNL WD BDG W/ INT		1/INSTALLATION	1.0	27	33	18383	8	1110	879	1997
114111BA	FIRE AND RSQ STA,FAC NO.73010AC		1/INSTALLATION	1.0	192	283	39238	63	930	171	1164
114910AR	AIRCRAFT REVETMENT,IMPROVED,UH-1D/H		UH-1 AIRCRAFT	1.0	15	12	3919		61	102	163
114910AU	AIRCRAFT REVETMENT,IMPROVED,CH-54		CH-54 AIRCRAFT	1.0	42	33	10953		173	230	403
121110CB	ORG MNT HANGAR,105 X 112 FT		CH-54 AIRCRAFT	2.0	242	396	494360	377		488	865
141120BA	FLAMMABLE STORAGE,12 X 24 FT		AS REQUIRED	1.0	14	13	3322	1		1	2
41180AF	TANK, POL, 1000 BARREL, W/6 IN PIPE	1000 BBL	5 DAY SUPPLY	1.0	1	14	8663	92	357	173	622
85110AB	ROAD,CLASS A,1IN MULT. SURF.	1MI	PROVIDE ACCESS	1.8	1397	1075	16358	604		106	710
85110CN	HARDSTAND,APR,TXWY,OR RNWY	1000SQYD	AS REQUIRED	.6	31	23	299	29		14	43
85130AY	ROAD,CLASS A,GRADED AND DRAINED	1MI	PROVIDE ACCESS	1.8	29	14	17086	5175		2080	7255
85210AY	HARDSTAND GRADED AND DRAINED	1000SY	AS REQUIRED	.6	4	2	2641	148		53	201
187120BC	DRAINAGE HELIPORT,15 ACRES		1 IN./HR	1.0	25	27	17759	47		44	91
87210AA	FENCE,CHAIN LK.W/2 OUTRGRS	1 1000LF	PERIM FENCING	9.0	153	459	108666	1294		4140	5434
87210AF	GATE,CHAINLINK SING/LEAF 3 WI 10 HI		AS REQUIRED	2.0	2	4	558	14		28	42
87210AG	GATE,VEH CHAINL DBL/LEAF 12WI 10 HI		AS REQUIRED	2.0	2	4	802	16		35	51
87210AJ	FENCE,CORNER POST 10 FT HI CHAINLIN		AS REQUIRED	16.0			1744	184		147	331
					5524	5013	1026502	20440	3627	14901	38968

DDEXER4 RUN DATE 860207

DESERT CLIMATE

HELIPORT,ARMY,MIN REQTS FOR 37 AIRCRAFT,17 UH-1H AND 20 AG3134
OH-58A OF THE AVIATION CO.,CORPS,INSTALLATION DWG.SHEET 170F
65,INITIAL STD,SUPPORT AREA,GRADED AND
DRAINED,SURFACING HEAVY DUTY MEMBRANE,PERSONNEL FACIL-
ORGANIC TOE EQPT,REAL ESTATE REQT FOR INST-49 ACRES,REQD
FROM LOCAL SOURCE---COARSE AGGR,1188 CY,FINE AGGR,1004 CY,
MINERAL FILLER,449 CY,COMBAT BN CONSTR

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
111120AA	RUNWAY W/25 FT SHOULDERS,450 X 60		UH-1 AIRCRAFT	1.0	21	10	45603	324		173	497
111120AB	RUNWAY LENGTH CORRECTION,100 X 60		TEMP AND ALT	.0							
111120AC	RUNWAY OVERRUN,100 X 110 FT		UH-1 AIRCRAFT	2.0	6	4	4184	143		41	184
111120AD	APPROACH-DEPARTURE,1500X250-850 FT		UH-1 AIRCRAFT	4.0				538		345	883
111120AE	CLEAR AREA,1000 SY		AS REQUIRED	38.0	76	38	39748	1835		743	2578
111141AA	TAXI-HOVERLANE,450 X 180 FT		UH-1 AIRCRAFT	4.5	144	126	123804	2039		637	2676
111320AA	PARKING PAD,9EA 12 X 12 FT		OH-58 AIRCRAFT	2.3	2	7	15339	42		19	61
111320AB	PARKING PAD,4EA 20 X 20 FT		UH-1 AIRCRAFT	4.3	4	13	28187	99		45	144
111370AB	AIRCRAFT WASHING APRON,50 X 25 FT		1/INSTALLATION	1.0	1	3	6498	20		7	27
111371AB	DEFUEL/DECONTN APR,50 X 25 FT		1/INSTALLATION	1.0	1	3	6498	20		7	27
111380AA	AC LOADING APR,2EA 50 X 25 FT		UH-1 AIRCRAFT	2.0	2	6	13110	55		28	83
112110AC	HOT REFUELING PAD,2EA 50 X 50 FT		2/INSTALLATION	1.0	6	9	16704	44		28	72
12110AH	SUPPORT ACFT REFUELING 30000 G STOR		5 DAY SUPPLY	2.0	16	40	131052	350	267	736	1353
113315AA	AC CONTROL STATION,20 X 20 FT		1/INSTALLATION	1.0	3	2	15	7		1	8
113470AA	WIND DIRECTION INDICATOR		1/INSTALLATION	1.0			304		2	2	4
114111AA	FIRE AND RESCUE STATION,20 X 20 FT		1/INSTALLATION	1.0	3	2	15	7		1	8
142183AA	AMMUNITION STORAGE,700SF		AS REQUIRED	1.0				1		1	2
85110CK	ROAD PAVEMENT,CLASS C,6IN STBL 1MI		PROVIDE ACCESS	1.5	1004	678	5018	262		76	338
85110DG	HARDSTAND,APR,TXWY,OR RNWY 1000SQYD		AS REQUIRED	.2	20	14	100	6		2	8
85130KH	ROAD,CLASS C,GRADED AND DRAINED 1MI		PROVIDE ACCESS	1.5	18	9	10430	3022		1102	4124
85210AY	HARDSTAND GRADED AND DRAINED 1000SY		AS REQUIRED	.2	1	1	880	49		18	67
187120AC	DRAINAGE HELIPORT,11 ACRES		1 IN./HR	1.0				12		6	18
					1328	965	447489	8875	269	4018	13162

DDEXER4 RUN DATE 860207

DESERT CLIMATE

HELIPORT,ARMY,MIN REQTS FOR 37 AIRCRAFT,17 UH-1H AND 20 AG3234
OH-58A OF THE AVIATION CO.,CORPS,INSTALLATION DWG.SHEET 180F
65,INITIAL ALTERNATE STANDARD,SUPPORT AREA,GRADED
AND DRAINED,SURFACING MBA1 LANDING MAT,PERSONNEL FACIL-TROOP
CAMP INST NO NT1421,REAL ESTATE REQT FOR INST-94 ACRES,REQD
FROM LOCAL SOURCE---COARSE AGGR,1822 CY,FINE AGGR,1539 CY,
MINERAL FILLER,688 CY,COMBAT BN CONSTR

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	GENL	TOT
111120AC	RUNWAY OVERRUN,100 X 110 FT		CH-54 AIRCRAFT	2.0	6	4	4184	143		41	184
111120AD	APPROACH-DEPARTURE,1500X250-850 FT		CH-54 AIRCRAFT	4.0				538		345	883
111120AE	CLEAR AREA,1000 SY		AS REQUIRED	45.9	92	46	48011	2217		897	3114
111120BA	RUNWAY W/25 FT SHOULDERS,450 X 60		CH-54 AIRCRAFT	1.0	131	77	73348	342		328	670
111120BC	RUNWAY LENGTH CORRECTION,100 X 60		TEMP AND ALT	.0							
111141AA	TAXI-HOVERLANE,450 X 180 FT		CH-54 AIRCRAFT	5.0	160	140	137560	2266		707	2973
111210AB	TAXIWAY W/25 FT SHOULDERS,2000 X 40		CH-54 AIRCRAFT	.2	16	6	33263	240		126	366
111320BA	PARKING PAD,10EA 12 X 12 FT		OH-58 AIRCRAFT	2.0	20	16	17426	37		37	74
111320BB	PARKING PAD,4EA 20 X 20 FT		UH-1 AIRCRAFT	4.3	39	30	36976	89		94	183
111340BA	HANGAR ACCESS,105 X 100 FT		AS REQUIRED	1.0	47	35	36467	87		163	250
111370AB	AIRCRAFT WASHING APRON,50 X 25 FT		1/INSTALLATION	1.0	1	3	6498	20		7	27
111371AB	DEFUEL/DECONTN APR,50 X 25 FT		1/INSTALLATION	1.0	1	3	6498	20		7	27
111380BB	AC LOADING APR,4EA 50 X 25 FT		UH-1 AIRCRAFT	1.0	29	21	19627	58		58	116
111610AA	COMPASS SWING BASE,50 X 50 FT		1/INSTALLATION	1.0	1	3	6527	28		14	42
112110BC	HOT REFUELING PAD,2EA 50 X 50 FT		2/INSTALLATION	1.0	24	18	18418	58		58	116
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
12630AA	LDG FACIL FOR TWO FUEL TRUCKS	2-STATION	AS REQUIRED	1.0	12	12	13862	173	374	1213	1760
613120BA	NAVIGATION AIDS BUILDING,24 X 24 FT		1/INSTALLATION	1.0	20	22	13194	7	346	329	682
113315BA	CONTROL TOWER LOW DENSITY TRAFFIC		1/INSTALLATION	1.0	16	21	4632	1	560	112	673
113470AA	WIND DIRECTION INDICATOR		1/INSTALLATION	1.0			304		2	2	4
14110BB	AFOPS BLDG 2160SF PNL WD BLDG W/ IN		1/INSTALLATION	1.0	170	953	96409	21	2151	610	2782
114111BA	FIRE AND RSQ STA,FAC NO.73010AC		1/INSTALLATION	1.0	192	283	39238	63	930	171	1164
114910AN	AIRCRAFT REVETMENT,IMPROVED,OH-58		OH-58 AIRCRAFT	20.0	220	160	56000		897	1633	2530
114910AR	AIRCRAFT REVETMENT,IMPROVED,UH-1D/H		UH-1 AIRCRAFT	17.0	255	204	66623		1036	1740	2776
121110BB	ORG MNT HANGAR,105 X 112 FT		UH-1 AIRCRAFT	1.0	79	156	257675	196		351	547
141120BA	FLAMMABLE STORAGE,12 X 24 FT		AS REQUIRED	1.0	14	13	3322	1		1	2
41180AF	TANK, POL, 1000 BARREL, W/6 IN PIPE	1000 BBL	5 DAY SUPPLY	1.0	1	14	8663	92	357	173	622
142183BA	AMMUNITION STORAGE,24 X 36 FT		AS REQUIRED	1.0	25	27	17138	1		1	2
85110CK	ROAD PAVEMENT,CLASS C,6IN STBL 1MI		PROVIDE ACCESS	2.3	1539	1040	7694	402		116	518
85110DG	HARDSTAND,APR,TXWY,OR RNWY 1000SQYD		AS REQUIRED	.4	40	27	200	12		5	17
85130KH	ROAD,CLASS C,GRADED AND DRAINED 1MI		PROVIDE ACCESS	2.3	28	14	15992	4634		1690	6324
85210AY	HARDSTAND GRADED AND DRAINED 1000SY		AS REQUIRED	.4	3	1	1761	99		35	134
187120BB	DRAINAGE HELIPORT,11 ACRES		1 IN./HR	1.0	14	17	9880	23		23	46
87210AD	CONCERTINA,TRIPLE TAPE TYP D 1000LF		SECUR FENCE	8.7	1018	609	17069	280		1121	1401
					4214	3976	1075705	12157	6713	12231	31101

DDEXER4 RUN DATE 860207

DESERT CLIMATE

HELIPORT,ARMY,MIN REQTS FOR 37 AIRCRAFT,17 UH-1H AND 20 AG3334
OH-58A OF THE AVIATION CO.,CORPS,INSTALLATION DWG.SHEET 190F
65,TEMPORARY STD,SUPPORT AREA,GRADED AND
DRAINED SURFACING BITUMINOUS PAVEMENT PERSONNEL FACIL-TROOP
CAMP INST NO NT1621,REAL ESTATE REQT FOR INST-84 ACRES,REQD
FROM LOCAL SOURCE---COARSE AGGR,2978 CY,FINE AGGR,1306 CY,
MINERAL FILLER,418 CY,COMBAT BN AND SUP CO CONSTR

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
111120AD	APPROACH-DEPARTURE,1500X250-850 FT		CH-54 AIRCRAFT	4.0				538		345	883
111120AE	CLEAR AREA,1000 SY		AS REQUIRED	49.9	100	50	52195	2410		976	3386
111120BF	RUNWAY OVERRUN,100 X 125 FT		CH-54 AIRCRAFT	2.0	8	6	4882	166		46	212
111120CA	RUNWAY W/25 FT SHOULDERS,450 X 75		CH-54 AIRCRAFT	1.0	260	210	13615	455		189	644
111120CB	RUNWAY LENGTH CORRECTION,100 X 75		TEMP AND ALT	.0							
111141AA	TAXI-HOVERLANE,450 X 180 FT		CH-54 AIRCRAFT	4.8	154	134	132058	2175		679	2854
111210CB	TAXIWAY W/25 FT SHOULDERS,1000 X 40		CH-54 AIRCRAFT	.3	94	75	4946	217		85	302
111320CA	PARKING PAD,10EA 12 X 12 FT		OH-58 AIRCRAFT	2.0	22	18	654	281		55	336
111320CB	PARKING PAD,4EA 20 X 20 FT		UH-1 AIRCRAFT	4.3	56	43	1036	242		49	291
111340CA	HANGAR ACCESS,105 X 100 FT		AS REQUIRED	1.0	79	63	1056	118		32	150
111370CB	AIRCRAFT WASHING APRON,50 X 25 FT		1/INSTALLATION	1.0	10	8	139	26		6	32
111371CB	DEFUEL/DECONTN APR,50 X 25 FT		1/INSTALLATION	1.0	10	8	139	26		6	32
111380CB	AC LOADING APR,4EA 50 X 25 FT		4/INSTALLATION	1.0	38	30	598	81		20	101
111610CA	COMPASS SWING BASE,50 X 50 FT		1/INSTALLATION	1.0	14	11	211	99		29	128
112110CC	HOT REFUELING PAD,2EA 50 X 50 FT		2/INSTALLATION	1.0	38	32	2297	189		64	253
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
12630AA	LDG FACIL FOR TWO FUEL TRUCKS	2-STATION	AS REQUIRED	1.0	12	12	13862	173	374	1213	1760
613120BA	NAVIGATION AIDS BUILDING,24 X 24 FT		1/INSTALLATION	1.0	20	22	13194	7	346	329	682
113315BA	CONTROL TOWER LOW DENSITY TRAFFIC		1/INSTALLATION	1.0	16	21	4632	1	560	112	673
113470AA	WIND DIRECTION INDICATOR		1/INSTALLATION	1.0			304		2	2	4
14110BB	AFOPS BLDG 2160SF PNL WD BLDG W/ IN		1/INSTALLATION	1.0	170	953	96409	21	2151	610	2782
114111BA	FIRE AND RSQ STA,FAC NO.73010AC		1/INSTALLATION	1.0	192	283	39238	63	930	171	1164
114910AN	AIRCRAFT REVETMENT,IMPROVED,OH-58		OH-58 AIRCRAFT	20.0	220	160	56000		897	1633	2530
114910AR	AIRCRAFT REVETMENT,IMPROVED,UH-1D/H		UH-1 AIRCRAFT	17.0	255	204	66623		1036	1740	2776
121110CB	ORG MNT HANGAR,105 X 112 FT		UH-1 AIRCRAFT	1.0	121	198	247180	189		244	433
141120BA	FLAMMABLE STORAGE,12 X 24 FT		AS REQUIRED	1.0	14	13	3322	1		1	2
41180AF	TANK, POL, 1000 BARREL, W/6 IN PIPE	1000 BBL	5 DAY SUPPLY	1.0	1	14	8663	92	357	173	622
142183BA	AMMUNITION STORAGE,24 X 36 FT		AS REQUIRED	1.0	25	27	17138	1		1	2
85110BT	ROAD CLASS C, 1@ MULTIPLE SURFACE		PROVIDE ACCESS	2.3	918	690	9628	447		79	526
85110CN	HARDSTAND,APR,TXWY,OR RNWY 1000SQYD		AS REQUIRED	.4	20	15	199	19		9	28
85130KH	ROAD,CLASS C,GRADED AND DRAINED 1MI		PROVIDE ACCESS	2.3	28	14	15992	4634		1690	6324
85210AY	HARDSTAND GRADED AND DRAINED 1000SY		AS REQUIRED	.4	3	1	1761	99		35	134
187120BB	DRAINAGE HELIPORT,11 ACRES		1 IN./HR	1.0	14	17	9880	23		23	46
87210AA	FENCE,CHAIN LK.W/2 OUTRGRS 1 1000LF		PERIM FENCING	9.0	153	459	108666	1294		4140	5434
87210AF	GATE,CHAINLINK SING/LEAF 3 WI 10 HI		AS REQUIRED	6.0	6	12	1674	41		83	124
87210AG	GATE,VEH CHAINL DBL/LEAF 12WI 10 HI		AS REQUIRED	7.0	7	14	2807	56		121	177
87210AJ	FENCE,CORNER POST 10 FT HI CHAINLIN		AS REQUIRED	14.0			1526	161		129	290
					3079	3818	933770	14354	6713	15142	36209

DDEXER4 RUN DATE 860207

DESERT CLIMATE

AIRCRAFT PARKING AND MAINTENANCE,COLLOCATED WITH AIRFORCE 12 G4134
AIRFIELD,MIN FACILS FOR 18 AIRCRAFT,6 OV-1B AND 12 OV-1C OF
THE MIL.INTEL.CO.,INSTALLATION DWG.SHEET 36 OF 65,
INITIAL STD, SUPPORT AREA,GRADED AND DRAINED,
SURFACING HEAVY DUTY MEMBRANE,PERSONNEL FACIL-ORGANIC TOE
EQPT,REAL ESTATE REQT FOR INST-13 ACRES REQD FROM LOCAL
SOURCE---COARSE AGGR,634 CY,FINE AGGR,536 CY,MINERAL FILLER,

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	GENL	TOT
111120AE	CLEAR AREA,1000 SY			7.2	14	7	7531	348		141	489
111210AA	TAXIWAY W/25 FT SHOULDERS,500 X 30		OV-1 AIRCRAFT	.5	15	10	27302	141		78	219
111210AC	TAXIWAY W/25 FT SHOULDERS,50 X 50		OV-1 AIRCRAFT	2.0	4	6	15186	117		78	195
111310AA	FIXED-WING AC PARK APR W/TAXILANE		OV-1 AIRCRAFT	4.0	56	12	125640	534		276	810
111370AC	AIRCRAFT WASHING APRON,40 X 50 FT		1/INSTALLATION	1.0	1	3	6498	25		12	37
111371AC	DEFUEL/DECONTN APR,80 X 50 FT		1/INSTALLATION	1.0	3	5	12996	38		22	60
111382AA	SPECIAL PURPOSE APRON W/TAXILANE		OV-1 AIRCRAFT	1.0	16	4	35660	161		83	244
12110AH	SUPPORT ACFT REFUELING 30000 G STOR		5 DAY SUPPLY	2.0	16	40	131052	350	267	736	1353
142183AB	AMMUNITION STORAGE,2500SF		AS REQUIRED	.3				1		1	2
85110CK	ROAD PAVEMENT,CLASS C,6IN STBL 1MI		PROVIDE ACCESS	.8	535	362	2676	140		40	180
85110DG	HARDSTAND,APR,TXWY,OR RNWY 1000SQYD		AS REQUIRED	.4	40	27	200	12		5	17
85130KH	ROAD,CLASS C,GRADED AND DRAINED 1MI		PROVIDE ACCESS	.8	10	5	5562	1612		588	2200
85210AY	HARDSTAND GRADED AND DRAINED 1000SY		AS REQUIRED	.4	3	1	1761	99		35	134
187120AD	DRAINAGE FIXED-WING AC,11 ACRES		1 IN./HR	1.0				7		3	10
					713	482	372064	3585	267	2098	5950

DDEXER4 RUN DATE 860207

DESERT CLIMATE

AIRCRAFT PARKING AND MAINTENANCE,COLLOCATED WITH AIRFORCE AG4234
AIRFIELD,MIN FACILS FOR 18 AIRCRAFT,6 OV-1B,AND 12 OV-1C OF
THE MIL.INTEL.CO.,INSTALLATION DWG.SHEET 37 OF 65,
CLIMATE,INITIAL ALTERNATE STANDARD,SUPT AREA,GRADED, DRAINED
SURFACING M8A1 LANDING MAT PERSONNEL FACIL-TROOP CAMP INST
NO NT1421,REAL ESTATE REQT FOR INST-24 ACRES,REQD FROM LOCAL
SOURCE---COARSE AGGR,476 CY,FINE AGGR 402 CY,MINERAL FILLER,

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
111120AE	CLEAR AREA,1000 SY			9.0	18	9	9414	435		176	611
111210BA	TAXIWAY W/25 FT SHOULDERS,1000 X 30		OV-1 AIRCRAFT	.4	66	38	48913	227		215	442
111310BA	FIXED-WING AC PARK APR W/TAXILANE		OV-1 AIRCRAFT	4.1	381	209	210396	901		1075	1976
111340BC	HANGAR ACCESS,248 X 100 FT		AS REQUIRED	1.0	109	80	76893	231		417	648
111370AE	AIRCRAFT WASHING APRON,60 X 50 FT		1/INSTALLATION	1.0	1	3	6498	32		17	49
111371AC	DEFUEL/DECONTN APR,80 X 50 FT		1/INSTALLATION	1.0	3	5	12996	38		22	60
111382BA	SPECIAL PURPOSE APRON W/TAXILANE		OV-1 AIRCRAFT	1.0	110	60	62723	248		271	519
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
12630AA	LDG FACIL FOR TWO FUEL TRUCKS	2-STATION	AS REQUIRED	1.0	12	12	13862	173	374	1213	1760
14110BB	AFOPS BLDG 2160SF PNL WD BLDG W/ IN		1/INSTALLATION	1.0	170	953	96409	21	2151	610	2782
121110BA	ORG MNT HANGAR,76 X 88 FT		OV-1 AIRCRAFT	3.0	138	240	451926	414		731	1145
141120BA	FLAMMABLE STORAGE,12 X 24 FT		AS REQUIRED	1.0	14	13	3322	1		1	2
41180AF	TANK, POL, 1000 BARREL, W/6 IN PIPE	1000 BBL	5 DAY SUPPLY	1.0	1	14	8663	92	357	173	622
142183BA	AMMUNITION STORAGE,24 X 36 FT		AS REQUIRED	1.0	25	27	17138	1		1	2
85110CK	ROAD PAVEMENT,CLASS C,6IN STBL 1MI		PROVIDE ACCESS	.6	401	271	2007	105		30	135
85110DG	HARDSTAND,APR,TXWY,OR RNWY 1000SQYD		AS REQUIRED	.4	40	27	200	12		5	17
85130KH	ROAD,CLASS C,GRADED AND DRAINED 1MI		PROVIDE ACCESS	.6	7	4	4172	1209		441	1650
85210AY	HARDSTAND GRADED AND DRAINED 1000SY		AS REQUIRED	.4	3	1	1761	99		35	134
187120BD	DRAINAGE FIXED-WING AC,14 ACRES		1 IN./HR	1.0	8	13	4391	10		12	22
87210AD	CONCERTINA,TRIPLE TAPE TYP D 1000LF		SECUR FENCE	4.0	468	280	7848	129		515	644
					1976	2260	1040778	4387	2942	5983	13312

DDEXER4 RUN DATE 860207

DESERT CLIMATE

AIRCRAFT PARKING AND MAINTENANCE,COLLOCATED WITH AIRFORCE AG4334
AIRFIELD,MIN FACILS FOR 18 AIRCRAFT,6 OV-1B,AND 12 OV-1C OF
THE MIL.INTEL.CO.,INSTALLATION DWG.SHEET 38 OF 65,
TEMPORARY STD,SUPPORT AREA,GRADED AND DRAINED,
SURFACING BITUMINOUS PAVEMENT,PERSONNEL FACIL-TROOP CAMP
INST NO NT1621,REAL ESTATE REQT FOR INST-24 ACRES,REQD FROM
LOCAL SOURCE---COARSE AGGR,2263 CY,FINE AGGR,1027 CY,MINERAL

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
111120AE	CLEAR AREA,1000 SY		OV-1 AIRCRAFT	9.1	18	9	9519	440		178	618
111210CA	TAXIWAY W/25 FT SHOULDERS,1000 X 30		OV-1 AIRCRAFT	.4	96	77	6200	271		104	375
111310CA	FIXED-WING AC PARK APR W/TAXILANE		OV-1 AIRCRAFT	4.1	623	496	14699	1051		358	1409
111340CC	HANGAR ACCESS,248 X 100 FT		AS REQUIRED	1.0	185	148	2479	231		66	297
111370CC	AIRCRAFT WASHING APRON,60 X 50 FT		1/INSTALLATION	1.0	23	18	302	39		9	48
111371CC	DEFUEL/DECONTN APR,80 X 50 FT		1/INSTALLATION	1.0	30	24	404	52		14	66
111382CA	SPECIAL PURPOSE APRON W/TAXILANE		OV-1 AIRCRAFT	1.0	181	144	4471	299		110	409
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
12630AA	LDG FACIL FOR TWO FUEL TRUCKS	2-STATION	AS REQUIRED	1.0	12	12	13862	173	374	1213	1760
14110BB	AFOPS BLDG 2160SF PNL WD BLDG W/ IN		1/INSTALLATION	1.0	170	953	96409	21	2151	610	2782
121110CA	ORG MNT HANGAR,76 X 88 FT		OV-1 AIRCRAFT	3.0	213	315	434034	397		497	894
141120BA	FLAMMABLE STORAGE,12 X 24 FT		AS REQUIRED	1.0	14	13	3322	1		1	2
41180AF	TANK, POL, 1000 BARREL, W/6 IN PIPE	1000 BBL	5 DAY SUPPLY	1.0	1	14	8663	92	357	173	622
142183BA	AMMUNITION STORAGE,24 X 36 FT		AS REQUIRED	1.0	25	27	17138	1		1	2
85110BT	ROAD CLASS C, 1@ MULTIPLE SURFACE		PROVIDE ACCESS	.6	239	180	2512	117		21	138
85110CN	HARDSTAND,APR,TXWY,OR RNWY 1000SQYD		AS REQUIRED	.4	20	15	199	19		9	28
85130KH	ROAD,CLASS C,GRADED AND DRAINED 1MI		PROVIDE ACCESS	.6	7	4	4172	1209		441	1650
85210AY	HARDSTAND GRADED AND DRAINED 1000SY		AS REQUIRED	.4	3	1	1761	99		35	134
187120BD	DRAINAGE FIXED-WING AC,14 ACRES		1 IN./HR	1.0	8	13	4391	10		12	22
87210AA	FENCE,CHAIN LK.W/2 OUTRGRS 1 1000LF		PERIM FENCING	4.0	68	204	48296	575		1840	2415
87210AF	GATE,CHAINLINK SING/LEAF 3 WI 10 HI		AS REQUIRED	3.0	3	6	837	21		41	62
87210AG	GATE,VEH CHAINL DBL/LEAF 12WI 10 HI		AS REQUIRED	4.0	4	8	1604	32		69	101
87210AJ	FENCE,CORNER POST 10 FT HI CHAINLIN		AS REQUIRED	15.0			1635	173		138	311
					1944	2682	678155	5332	2942	5963	14237

DDEXER4 RUN DATE 860207

DESERT CLIMATE

RUNWAY,ARMY,MIN.FACILITIES FOR C-130 ACRAFT INSTALLATION DWG AG5034
SHEET 39 OF 65,INITIAL ALTERNATE STD.,SUPPORT
AREA,GRADED AND DRAINED,SURFACING M8A1 LANDING MAT,REQD
FROM LOCAL SOURCES---COARSE AGGR,1030 CY,FINE AGGR,870 CY,
MINERAL FILLER,389 CY,COMBAT BN CONSTR

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
111110BA	RUNWAY W/40 FT SHOULDERS,1000 X 96		C-130 AIRCRAFT	3.5	1561	872	918162	3651		3574	7225
111110BB	RUNWAY LENGTH CORRECTION,100 X 96		TEMP AND ALT	.0							
111110BC	RUNWAY OVERRUN,300 X 96 FT		C-130 AIRCRAFT	2.0	16	12	11158	331		97	428
111110BD	RUNWAY TURNAROUND,2EA 200 X 52 FT		C-130 AIRCRAFT	1.0	91	49	49689	237		246	483
111110BE	ON-OFF TAXIWAY,100 X 36 FT		C-130 AIRCRAFT	6.0	114	66	78888	393		338	731
111110BF	APPROACH ZONE,32000X596-2500 FT		C-130 AIRCRAFT	2.0				184			184
111110BG	LANDING AREA GRADED-DRAINED,1000SY		AS REQUIRED	39.0	78	39	47580	2556		762	3318
111110BH	CLEAR ZONE,500X249-596 FT		C-130 AIRCRAFT	2.0	72	58	50212	504		281	785
111350BA	WARM-UP APRON,100 X 96 FT		C-130 AIRCRAFT	2.8	123	67	70459	335		486	821
85110CK	ROAD PAVEMENT,CLASS C,6IN STBL	1MI	AS REQUIRED	2.2	1472	994	7359	385		111	496
85130KH	ROAD,CLASS C,GRADED AND DRAINED	1MI	AS REQUIRED	2.2	26	13	15297	4433		1617	6050
187120BE	DRAINAGE FIXED-WING AC,9 ACRES		1 IN./HR	1.0	10	16	7773	25		23	48
87210AD	CONCERTINA,TRIPLE TAPE TYP D	1000LF	SECUR FENCE	11.9	1392	833	23348	383		1533	1916
					4955	3019	1279925	13417		9068	22485

DDEXER4 RUN DATE 860207

DESERT CLIMATE

RUNWAY,ARMY,MIN.FACILITIES FOR C-130 ACRAFT INSTALLATION DWG AG5044
SHEET 40 OF 65 TEMPORARY STD,REAR AREA,
GRADED AND DRAINED,SURFACING BITUMINOUS PAVEMENT,REQD FROM
LOCAL SOURCES---COARSE AGGR,18766 CY,FINE AGGR,9383 CY,
MINERAL FILLER,2540 CY,COMBAT BN AND SUP CO CONSTR

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
111110BG	LANDING AREA GRADED-DRAINED,1000SY			47.0	94	47	57340	3081		919	4000
111110CA	RUNWAY W/50 FT SHOULDERS,1000 X 150		C-130 AIRCRAFT	6.0	9348	7722	295476	12420		6231	18651
111110CB	RUNWAY LENGTH CORRECTION,100 X 150		TEMP AND ALT	.0							
111110CC	RUNWAY OVERRUN,500 X 150 FT		C-130 AIRCRAFT	2.0	42	34	28594	766		285	1051
111110CD	RUNWAY TURNAROUND,2EA 200 X 25 FT		C-130 AIRCRAFT	1.0	103	85	1567	205		64	269
111110CE	ON-OFF TAXIWAY,100 X 36 FT		C-130 AIRCRAFT	6.0	234	192	13206	800		297	1097
111110CF	APPROACH ZONE,32000X670-3500 FT		C-130 AIRCRAFT	2.0				184			184
111110CH	CLEAR ZONE,500X320-670 FT		C-130 AIRCRAFT	2.0	82	66	57536	593		331	924
111350CA	WARM-UP APRON,100 X 100 FT		C-130 AIRCRAFT	2.8	291	241	7356	551		167	718
85110AB	ROAD,CLASS A,1IN MULT. SURF.	1MI	AS REQUIRED	3.0	2328	1791	27264	1007		176	1183
85130AY	ROAD,CLASS A,GRADED AND DRAINED	1MI	AS REQUIRED	3.0	48	24	28476	8625		3467	12092
187120CA	DRAINAGE FIXED-WING AC,22 ACRES		1 IN./HR	1.0	27	35	15015	39		37	76
87210AA	FENCE,CHAIN LK.W/2 OUTRGRS	1 1000LF	PERIM FENCING	17.0	289	867	205258	2444		7820	10264
87210AF	GATE,CHAINLINK SING/LEAF	3 WI 10 HI	AS REQUIRED	2.0	2	4	558	14		28	42
87210AG	GATE,VEH CHAINL DBL/LEAF	12WI 10 HI	AS REQUIRED	2.0	2	4	802	16		35	51
87210AJ	FENCE,CORNER POST 10 FT HI CHAINLIN		AS REQUIRED	12.0			1308	138		110	248
					12890	11112	739756	30883		19967	50850

DDEXER4 **RUN DATE 860207**

DESERT CLIMATE

SIGNAL INTELEGENCE INSTALLATION,TEMPORARY STANDARD OF CONST
RUCTION, DESERT CLIMATE. 400 MAN TROOP CAMP FACILITIES
ARE INCLUDED. WOOD FRAME FACILITIES FOR SUPPORT AND PRE-ENG
METAL FOR OPERATIONS,REQUIRES 39.65 ACRES,1597 CUBIC YARDS
OF COARSE AGGR.,25000GPD WATER AND 7000GPD SEWAGE.

CC1014

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
213120AR	SIGINT INST.OPERATIONS BLDG	8000SF	AS REQUIRED	1.0	47084	554107	23824757	547	7590	1359	9496
213120AT	SIGINT ELE/SUPLY BLDG 80X100FT TROP	8000SF	AS REQUIRED	1.0	47086	554109	23822550	547	7590	1359	9496
213120AU	SIGINT OPS/COMM BLDG 80X100FT TROP	8000SF	AS REQUIRED	1.0	47120	554147	23858123	547	7590	1359	9496
213120AV	SIGINT ELE/MAINT BLDG 80X100FT TROP	8000SF	AS REQUIRED	1.0	59187	554127	80605203	547	7590	1359	9496
21410GG	2400 SQ.FT. BUILDING GG WOOD		1PER INST	1.0	712	636	54627	423	3368	1102	4893
44110BA	STOREHOUSE WD FR BLDG 20X50X8	20X50X8FT	AS REQUIRED	1.0	22	27	4897	37	530	156	723
55010BC	DISP.TROOP,20X60 W/O WARD,WD W/INT		1 PER INST	1.0	34	48	12751				
161050BN	HQTRS & UNIT SUP BLDG 20X 40X8	20X40X8FT	AS REQUIRED	1.0	19	25	4628	32	496	92	620
172111AW	BRKS 50MAN 20X100 WOOD BLDG	20X100X8FT	72 SF PER MAN	8.0	360	440	74808	414	6909	1711	9034
72210GB	INT,KIT+DNG 5-11HD MAN 60X120FT D/T		1PER INSTAL	1.0	38	88	194536		3447	601	4048
173015ED	GUARD HOUSE WD FRAME BLDG W/INTER	20X60X8FT	AS REQUIRED	1.0	28	36	7290	32	531	129	692
174050AR	GUARD HOUSE WD FRAME BLDG W/INTER	20X60X8FT	1 PER INST	1.0	28	36	7290	32	531	129	692
181110CV	GEN PLANT 1.5 MW IN BLDGS TEMPERATE		AS REQUIRED	1.0	160	335	340318	104	6526	1426	8056
81242BE	ELECT DIST FOR SIGINT INST.	8000SF	AS REQUIRED	1.0	29174	332893	45114371	230	690	690	1610
83111BM	ELECT DIST FOR SIGINT INST.	8000SF	AS REQUIRED	1.0	29174	332893	45114371	230	690	690	1610
83140CC	CONVENT SEW LAG 2 ACRES W/O LINER		AS REQUIRED	2.0	114	236	54866	938	9009	607	10554
84120AB	WATER SUPLY WELL 200GPM&21MGAL STOR	500 BBL STR	AS REQUIRED	1.0	21	47	24204	557	148	253	958
84120AC	WATER TANK TOWER 4200 GAL W/ACCESOR	200 GAL	AS REQUIRED	1.0	9	22	7950		121	5	126
84140CC	WATER TANK TOWER 4200 GAL W/ACCESOR	200 GAL	AS REQUIRED	2.0	18	44	15900		242	9	251
84330AC	SUMP FIRE PROTECTION 10000 GAL	10000 GAL	AS REQUIRED	1.0	7	5	145	18	124	133	275
85110AL	ROAD PAVEMENT,CLASS A,CLD MIX BITUM		AS REQUIRED	.6	566	451	7608	226		83	309
85110BH	ROAD PAVEMENT,CLASS B,CLD MIX BITUM		AS REQUIRED	.1	82	65	1094	34		12	46
85110CJ	ROAD PAVEMENT,CLASS C,STAB SURFACE		AS REQUIRED	.6	265	179	1326	85		28	113
85110DB	HARDSTAND,CLD MIX BITUM,STAB BASE		AS REQUIRED	3.0	156	129	2337	121		41	162
85130AH	ROAD,CLASS A,GRADED AND DRAINED		AS REQUIRED	.6	2	4	1322	1419		591	2010
85130EM	ROAD,CLASS B,GRADED AND DRAINED 1MI		AS REQUIRED	.1		1	196	214		88	302
85130JT	ROAD,CLASS C,GRADED AND DRAINED 1MI		AS REQUIRED	.6	2	2	808	929		367	1296
187190AA	SITE PREPARATION,ONE ACRE		AS REQUIRED	39.7				4018		1461	5479
87210AB	FENCE,BARBED WIRE W/2 CTGR 1000LF		AS REQUIRED	2.0	12	16	3346	805	1380	1380	3565
87210AM	GATE,VEH SGL/LEAF 12 FT WI 10 FT HI		AS REQUIRED	4.0	8	8	4092	32	46	55	133
87210AP	SECURITY FENCE TYPE X 1000 FEET	1000 FEET	AS REQUIRED	8.0	64	72	13248	423	2337	2355	5115
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
87230AA	SENTRY BOX 4X4		AS REQUIRED	2.0			244	219	920	460	1599
					261556	2885232	43179870	13778	68681	20200	102659

DDEXER4 RUN DATE 860207

DESERT CLIMATE

SIGNAL INTELEGENCE STATION,TEMPORARY STANDARD OF CONSTRUCTI CC1024
ON DESERT CLIMATE. 50 MAN TROOP CAMP FACILITIES ARE INCL
UDED. WOOD FRAME FACILITIES FOR SUPPORT AND PRE ENGINEERED
METAL FOR OPERATIONS REQUIRES 9.69 ACRES,157 CUBIC YARDS OF
COARSE AGGR.2500GPD OF WATER.700GPD SEWAGE.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
313120CC	SIGINT OPS/COMM 80X100FT FRIGID	8000SF	AS REQUIRED	1.0	47088	554123	23856419	547	7590	1359	9496
313120CD	SIGINT ELE/MAINT BLDG 80X100FT FRIG	8000SF	AS REQUIRED	1.0	59187	554127	80605203	547	7590	1359	9496
172111AW	BRKS 50MAN 20X100 WOOD BLDG	20X100X8FT	72SQFT PERMAN	2.0	90	110	18702	104	1727	428	2259
81242BF	ELECT. DIST. FOR SIGINT STATION	8000SF	AS REQUIRED	1.0	46648	231959	73694001	115	345	345	805
83111BK	ELECT. DIST. FOR SIGINT STATION	8000SF	AS REQUIRED	1.0	46648	231959	73694001	115	345	345	805
85110BM	ROAD PAVEMENT,CLASS B,STAB SURFACE		AS REQUIRED	.1	69	46	344	22		7	29
85130EM	ROAD,CLASS B,GRADED AND DRAINED 1MI		AS REQUIRED	.1		1	196	214		88	302
187190AA	SITE PREPARATION,ONE ACRE		AS REQUIRED	9.7				982		357	1339
87210AB	FENCE,BARBED WIRE W/2 OTGR 1000LF		AS REQUIRED	2.0	12	16	3346	805	1380	1380	3565
87210AM	GATE,VEH SGL/LEAF 12 FT WI 10 FT HI		AS REQUIRED	4.0	8	8	4092	32	46	55	133
87210AP	SECURITY FENCE TYPE X 1000 FEET	1000 FEET	AS REQUIRED	3.0	24	27	4968	159	876	883	1918
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					1997781	572380	51881936	3660	20175	6716	30551

DDEXER4 RUN DATE 860207

DESERT CLIMATE

AMMO STORAGE,12000 TON CAP.,DESERT CLIMATE,INITIAL STD. DA1064
DWG.DA1064 PROVIDES EARTH BARRICADED STORAGE ON PAVED HARD-
STANDS,HELIPORT,INTERNAL ROADS,LIGHTED SECURITY FENCE,20FTX
100FT OPER.BLDG.,20FTX20FT SUB-OPER.BLDGS.,GUARD TOWERS,
SENTRY BOXES AND PIT LATRINES.REQUIRES 1584.0 ACRES FOR IN-
STALL.PLUS 1142.0ACRES CONTROL AREA.ITEMS PROCURED LOCALLY
-282538CY FILL,28002CY COARSE AGG.,10183CY FINE AGG.,2637CY

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
11130AA	HELIPORT,C47 SLINGOUT AREA		AS REQD.	1.0	11	7	6894	1195		558	1753
14930AA	EARTH BARRICADE,AMMO STORAGE,100LF		AS REQD.	146.5			58454	4380		4717	9097
44110BE	STOREHOUSE WD FR BLDG 20X20X8	20X20X8FT	90SF/MAN	3.0	30	33	5829	79	904	183	1166
161050BP	HQTRS & UNIT SUP BLDG 20X100X8	20X100X8FT	90SF/MAN	1.0	44	60	11736	75	1459	311	1845
72321BB	LATRINE,PIT TYPE,2 SEATS,4X5X8,WOOD	5X4X8FT	AS REQD.	7.0	7	7	658		322	64	386
72321BD	LAT PIT TYPE 160MAN 8 SEATS 10X20	10X20X8	160EM OR 80FF	1.0	8	9	1559	2	230	37	269
81240GC	ELECTRICAL DISTRIBUTION SYSTEM, ONE	1 MILE \ 2	AS REQD.	8.8	158	167	72934	1366	11436	6780	19582
81260AE	TRANSFORMER ASSY 5KVA SGL PHASE CSP		AS REQD.	33.0	33	33	27654		1822		1822
81260AG	SP XFMR ASSY 15KVA 1PH 4160-120/240		AS REQD.	1.0	1	1	731		60		60
81260BB	SP XFMR ASSY 225 KVA 4160-208Y/120		AS REQD.	1.0	3	3	3491		120		120
85110AC	ROAD PAVEMENT,CLASS A,HOT MIX BITUM		AS REQD.	8.5	8033	6401	107253	3304		1173	4477
85110BU	ROAD PAVEMENT,CLASS C,HOT MIX BITUM		AS REQD.	2.7	1409	1110	17688	618		224	842
85110CP	HARDSTAND,HOT MIX BITUM,STAB BASE		AS REQD.	23.9	1243	1028	18546	989		330	1319
85110DF	HARDSTAND,STAB SURF,1000SQ YD, 4 IN		AS REQD.	5.7	239	160	1197	157		52	209
85111AD	RDWY PVMT HVY WH BSC 1MI 3IN ASPH		AS REQD.	1.5	1508	1206	20222	680		254	934
85111AP	RDWY PVMT HVY WH 2FT INCR 3IN ASPH		AS REQD.	18.0	2394	1980	35874	1180		476	1656
85111EB	RDWY HVY WH BSC 4FT SHLDRS 12IN THK		AS REQD.	1.5	5	5	2316	745		216	961
85111EM	RDWY HVY WH 2FT INCR 12IN THK		AS REQD.	18.0			1980	1056		228	1284
85111KB	HDSTD HVY WH 1000SY 4FT SHLDR 12IN		AS REQD.	45.0	90	90	33075	2950		569	3519
85130AK	ROAD,CLASS A,GRADED AND DRAINED		AS REQD.	8.5	34	34	16881	10704		3734	14438
85130JV	ROAD,CLASS C,GRADED AND DRAINED 1MI		AS REQD.	2.7	5	5	3278	2484		817	3301
85210AK	HARDSTAND,1000 SQ YDS,NO ROCK		AS REQD.	29.6	89	30	49314	2451		885	3336
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQD.	8.0	16	16	2656	74	1104	442	1620
87210AU	SECURITY FENCE, TYPE X CONVERTED TO	1000 FEET	AS REQD.	38.1	38	38	57074		9464		9464
87230AA	SENTRY BOX 4X4		AS REQD.	3.0			366	328	1380	690	2398
					15398	12423	557660	34817	28301	22740	85858

DDEXER4 RUN DATE 860207

DESERT CLIMATE

AMMO STORAGE,35000 TON CAP.,DESERT CLIMATE,INITIAL STD. DA1074
DWG.DA1074 PROVIDES EARTH BARRICADED STORAGE ON PAVED HARD-
STANDS,HELIPORT,INTERNAL ROADS,LIGHTED SECURITY FENCE,20FTX
100FT OPER.BLDGS.,20FTX20FT SUB-OPER.BLDGS.,GUARD TOWERS,
SENTRY BOXES AND PIT LATRINES.REQUIRES 1732.0 ACRES FOR IN-
STALL.PLUS 1414.0 ACRES CONTROL AREA.ITEMS PROCURED LOCALLY
,541167CY FILL,42196CY COARSE AGG.,17895CY FINE AGG.,5094CY

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	GENL	TOT
11130AA	HELIPORT,C47 SLINGOUT AREA		AS REQD.	1.0	11	7	6896	1195		558	1753
14930AA	EARTH BARRICADE,AMMO STORAGE,100LF		AS REQD.	279.0			111321	8342		8984	17326
66110BE	STOREHOUSE WD FR BLDG 20X20X8	20X20X8FT	90SF/MAN	3.0	30	33	5829	79	904	183	1166
161050BP	HQTRS & UNIT SUP BLDG 20X100X8	20X100X8FT	90SF/MAN	2.0	88	120	23472	150	2919	621	3690
72321BB	LATRINE,PIT TYPE,2 SEATS,4X5X8,WOOD	5X4X8FT	AS REQD.	12.0	12	12	1128		552	110	662
72321BD	LAT PIT TYPE 160MAN 8 SEATS 10X20	10X20X8	160EM OR 80FF	1.0	8	9	1559	2	230	37	269
81260GC	ELECTRICAL DISTRIBUTION SYSTEM, ONE	1 MILE \ 2	AS REQD.	9.3	167	177	77078	1444	12085	7166	20695
81260AE	TRANSFORMER ASSY 5KVA SGL PHASE CSP		AS REQD.	35.0	35	35	29330		1932		1932
81260AH	SP XFMR ASSY 25KVA 1PH 4160-120/240		AS REQD.	1.0	1	1	668		63		63
81260BA	SP XFMR ASSY 150 KVA 4160-208Y/120		AS REQD.	1.0	2	2	2674		112		112
81260BB	SP XFMR ASSY 225 KVA 4160-208Y/120		AS REQD.	1.0	3	3	3491		120		120
85110AC	ROAD PAVEMENT,CLASS A,HOT MIX BITUM		AS REQD.	8.0	7560	6024	100944	3110		1104	4214
85110BU	ROAD PAVEMENT,CLASS C,HOT MIX BITUM		AS REQD.	3.6	1775	1397	22273	778		282	1060
85110CP	HARDSTAND,HOT MIX BITUM,STAB BASE		AS REQD.	37.1	1929	1595	28790	1536		512	2048
85110DF	HARDSTAND,STAB SURF,1000SQ YD, 4 IN		AS REQD.	5.7	239	160	1197	157		52	209
85111AD	RDWY PVMT HVY WH BSC 1MI 3IN ASPH		AS REQD.	3.0	3015	2412	40443	1359		507	1866
85111AP	RDWY PVMT HVY WH 2FT INCR 3IN ASPH		AS REQD.	18.0	2394	1980	35874	1180		476	1656
85111EB	RDWY HVY WH BSC 4FT SHLDRS 12IN THK		AS REQD.	3.0	9	9	4632	1490		431	1921
85111EM	RDWY HVY WH 2FT INCR 12IN THK		AS REQD.	18.0			1980	1056		228	1284
85111KB	HDSTD HVY WH 1000SY 4FT SHLDR 12IN		AS REQD.	110.3	221	221	81071	7230		1395	8625
85130AK	ROAD,CLASS A,GRADED AND DRAINED		AS REQD.	8.0	32	32	15888	10074		3514	13588
85130JV	ROAD,CLASS C,GRADED AND DRAINED 1MI		AS REQD.	3.4	7	7	4128	3128		1028	4156
85210AK	HARDSTAND,1000 SQ YDS,NO ROCK		AS REQD.	42.8	128	43	71305	3544		1280	4824
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQD.	8.0	16	16	2656	74	1104	442	1620
87210AU	SECURITY FENCE, TYPE X CONVERTED TO	1000 FEET	AS REQD.	40.8	41	41	61118		10135		10135
87230AA	SENTRY BOX 4X4		AS REQD.	3.0			366	328	1380	690	2398
					17723	14336	736109	46256	31536	29600	107392

DESERT CLIMATE

AMMO STORAGE,70000 TON CAP.,DESERT CLIMATE,INITIAL STD. DA1084
DWG.DA1084 PROVIDES EARTH BARRICADED STORAGE ON PAVED HARD-
STANDS,HELIPORT,INTERNAL RDS.,LIGHTED SECURITY FENCE,50000SF
OPER.BLDG.,20FTX20FT SUB-OPER.BLDGS.,GUARD TOWERS,SENTRY
BOXES AND PIT LATRINES.REQUIRES 2117.0 ACRES FOR INSTALL.
PLUS 1761.0 ACRES CONTROL AREA.ITEMS PROCUREDLOCALLY.
990998 CY FILL,50088CY COARSE AGG.,23328CY FINE AGG.,7023CY

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
11130AA	HELIPORT,C47 SLINGOUT AREA		AS REQD.	1.0	11	7	6894	1195		558	1753
14930AA	EARTH BARRICADE,AMMO STORAGE,100LF		AS REQD.	514.1			205126	15372		16554	31926
44110BE	STOREHOUSE WD FR BLDG 20X20X8	20X20X8FT	90SF/MAN	3.0	30	33	5829	79	906	183	1166
161050BW	ADMIN SUP BLDG,WD FR,30FTX70FTX8FT		90SF/MAN	1.0	47	54	8948	58	1064	219	1341
161050BY	ADMIN SUP BLDG,WD FR 30FTX50FTX8FT		90SF/MAN	2.0	70	78	13098	81	1840	322	2243
72321BB	LATRINE,PIT TYPE,2 SEATS,4X5X8,WOOD	5X4X8FT	AS REQD.	14.0	14	14	1316		644	129	773
72321BD	LAT PIT TYPE 160MAN 8 SEATS 10X20	10X20X8	160EM OR 800F	1.0	8	9	1559	2	230	37	269
81240GC	ELECTRICAL DISTRIBUTION SYSTEM, ONE	1 MILE \ 2	AS REQD.	9.4	169	179	77907	1459	12215	7243	20917
81260AE	TRANSFORMER ASSY 5KVA SGL PHASE CSP		AS REQD.	37.0	37	37	31006		2042		2042
81260AH	SP XFMR ASSY 25KVA 1PH 4160-120/240		AS REQD.	1.0	1	1	668		63		63
81260BA	SP XFMR ASSY 150 KVA 4160-208Y/120		AS REQD.	1.0	2	2	2674		112		112
81260BB	SP XFMR ASSY 225 KVA 4160-208Y/120		AS REQD.	1.0	3	3	3491		120		120
85110AC	ROAD PAVEMENT,CLASS A,HOT MIX BITUM		AS REQD.	8.4	7938	6325	105991	3265		1159	4424
85110BU	ROAD PAVEMENT,CLASS C,HOT MIX BITUM		AS REQD.	3.9	2036	1603	25549	893		323	1216
85110CP	HARDSTAND,HOT MIX BITUM,STAB BASE		AS REQD.	40.6	2111	1746	31506	1681		560	2241
85110DF	HARDSTAND,STAB SURF,1000SQ YD, 4 IN		AS REQD.	5.7	239	160	1197	157		52	209
85111AD	RDWY PVMT HVY WH BSC 1MI 3IN ASPH		AS REQD.	5.2	5226	4181	70101	2356		879	3235
85111AP	RDWY PVMT HVY WH 2FT INCR 3IN ASPH		AS REQD.	18.0	2394	1980	35874	1180		476	1656
85111EB	RDWY HVY WH BSC 4FT SHLDRS 12IN THK		AS REQD.	5.2	16	16	8029	2583		748	3331
85111EM	RDWY HVY WH 2FT INCR 12IN THK		AS REQD.	18.0			1980	1056		228	1284
85111KB	HDSTD HVY WH 1000SY 4FT SHLDR 12IN		AS REQD.	156.7	313	313	115175	10272		1982	12254
85130AK	ROAD,CLASS A,GRADED AND DRAINED		AS REQD.	8.4	34	34	16682	10578		3690	14268
85130JV	ROAD,CLASS C,GRADED AND DRAINED 1MI		AS REQD.	3.9	8	8	4735	3588		1180	4768
85210AK	HARDSTAND,1000 SQ YDS,NO ROCK		AS REQD.	46.3	139	46	77136	3834		1384	5218
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQD.	8.0	16	16	2656	74	1104	442	1620
87210AU	SECURITY FENCE, TYPE X CONVERTED TO	1000 FEET	AS REQD.	41.5	42	42	62167		10309		10309
87230AA	SENTRY BOX 4X4		AS REQD.	3.0			366	328	1380	690	2398
					20904	16887	917660	60091	32027	39038	131156

DDEXER4 RUN DATE 860207

DESERT CLIMATE

AMMO STORAGE,3500 TON CAP.,DESERT CLIMATE,INITIAL STD. DA1094
AWS.DA1094 PROVIDES UNBARRICADED STORAGE ON GRAVEL HARDSTAND
,HELIPORT AND INTERNAL GRAVEL ROADS.REQUIRES 1093 ACRES FOR
INSTALLATION PLUS 1331 ACRES CONTROL AREA.ITEMS PROCURED
LOCALLY,960CY COARSE AGG.,807CY FINE AGG.,365CY MINERAL
FILLER.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
11130AA	HELIPORT,C47 BLINDOUT AREA		1/INST.	1.0	11	7	6896	1195		558	1753
85110DF	HARDSTAND,STAB SURF,10008Q YD, 4 IN		AS REQD.	19.2	806	538	4032	530		177	707
85210AK	HARDSTAND,1000 SQ YDS,NO ROCK		AS REQD.	19.2	58	19	31987	1590		574	2164
					875	564	42913	3315		1309	4624

DDEXER4 RUN DATE 860207

DESERT CLIMATE

STORAGE,DRY CARGO, 50000 SF OPEN,ALL CLIMATES,STD 2, DC1169
NEW CONST,TENTAGE. PROVIDES 50000 SF STORAGE SPACE ON
EARTH,GRADED AND DRAINED. ADMINISTRATION IN TENT ERECTED
BY USING SERVICE,PIT TYPE LATRINES. MINIMUM REAL ESTATE
REQUIREMENT FOR INSTALLATION 7.4 ACRES,REQUIRED FROM LOCAL
SOURCE - FINE AGGREGATE,6 CY,COARSE AGGREGATE,7 CY.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
72321BD	LAT PIT TYPE 160MAN 8 SEATS 10X20	10X20X8	160 EM	1.0	8	9	1559	2	230	37	269
72520AA	TENTAGE,MED GEN PURP,32FTX16FT	10-16X32	ADMIN	.1		1	1170			5	5
84330AC	SUMP FIRE PROTECTION 10000 GAL	10000 GAL	EFF RAD 500FT	1.0	7	5	145	18	124	133	275
					15	15	2874	20	354	175	549

DDEXER4 RUN DATE 860207

DESERT CLIMATE

DC1179

STORAGE,DRY CARGO, 50000 SF OPEN,ALL CLIMATES,STD 4,
NEW CONST,TENTAGE. PROVIDES 50000 SF STORAGE SPACE ON
6 INCHES STABALIZED STONE W/ASPHALT BINDER. ADMIN. IN TENT
ERECTED BY USING SERVICE. PIT TYPE LATRINES.MIN. REAL ESTATE
REQUIREMENT FOR INSTALLATION--7.4 ACRES,REQUIRED FROM LOCAL
SOURCE - FINE AGGREGATE,1005 CY,COARSE AGGREGATE,1285 CY.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
72321BD	LAT PIT TYPE 160MAN 8 SEATS 10X20	10X20X8	160 EM	1.0	8	9	1858	2	230	37	269
72520AA	TENTAGE,MED GEN PURP,32FTX16FT	10-16X32	ADMIN	.1		1	1170			9	9
84330AC	SUMP FIRE PROTECTION 10000 GAL	10000 GAL	EFF RAD 500FT	1.0	7	5	145	18	124	133	275
					15	15	2874	20	354	175	549

DDEXER4 RUN DATE 860207

DESERT CLIMATE

STORAGE,DRY CARGO,100000 SF OPEN,ALL CLIMATES,STD 2, DC1189
NEW CONST,TENTAGE. PROVIDES 100000 SF STORAGE SPACE ON
EARTH,GRADED AND DRAINED. ADMINISTRATION IN TENT ERECTED
BY USING SERVICE,PIT TYPE LATRINES. MINIMUM REAL ESTATE
REQUIREMENT FOR INSTALLATION 11.8 ACRES,REQUIRED FROM LOCAL
SOURCE - FINE AGGREGATE,6 CY,COARSE AGGREGATE,7 CY.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
72321BD	LAT PIT TYPE 160MAN 8 SEATS 10X20	10X20X8	160 EM	1.0	8	9	1559	2	230	37	269
72520AA	TENTAGE,MED GEN PURP,32FTX16FT	10-16X32	ADMIN	.1		1	1170			5	5
84330AC	SUMP FIRE PROTECTION 10000 GAL	10000 GAL	EFF RAD 500FT	1.0	7	5	145	18	124	133	275
					15	15	2874	20	354	175	549

DDEXER4 RUN DATE 860207

DESERT CLIMATE

DC1199

STORAGE,DRY CARGO,100000 SF OPEN,ALL CLIMATES,STD 4,
NEW CONST.TENTAGE. PROVIDES 100000 SF STORAGE SPACE ON 6 IN.
STAB. STONE W/ASPHALT BINDER. ADMINISTRATION IN TENT ERECTED
BY USING SERVICE,PIT TYPE LATRINES. MINIMUM REAL ESTATE
REQUIREMENT FOR INSTALLATION 11.8 ACRES,REQUIRED FROM LOCAL
SOURCE - FINE AGGREGATE, 1919 CY,COARSE AGGREGATE,2377 CY.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
72321BD	LAT PIT TYPE 160MAN 8 SEATS 10X20	10X20X8	160 EM	1.0	8	9	1559	2	230	37	269
72520AA	TENTAGE,MED GEN PURP,32FTX16FT	10-16X32	ADMIN	.1		1	1170			5	5
84330AC	SUMP FIRE PROTECTION 10000 GAL	10000 GAL	EFF RAD 500FT	1.0	7	5	145	18	124	133	275
					15	15	2874	20	354	175	549

DDEXER4 RUN DATE 860207

DESERT CLIMATE

STORAGE,DRY CARGO,200000 SF OPEN,ALL CLIMATES,STD 2, DC1209
NEW CONST,TENTAGE. PROVIDES 200000 SF STORAGE SPACE ON
EARTH,GRADED AND DRAINED. ADMINISTRATION IN TENT ERECTED
BY USING SERVICE,PIT TYPE LATRINES. MINIMUM REAL ESTATE
REQUIREMENT FOR INSTALLATION 24.2 ACRES,REQUIRED FROM LOCAL
SOURCE - FINE AGGREGATE,11 CY,COARSE AGGREGATE,12 CY.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
72321BD	LAT PIT TYPE 160MAN 8 SEATS 10X20	10X20X8	160 EM	2.0	16	18	3118	5	460	74	539
72520AA	TENTAGE,MED GEN PURP,32FTX16FT	10-16X32	ADMIN	.1		1	1170			5	5
84330AC	SUMP FIRE PROTECTION 10000 GAL	10000 GAL	EFF RAD 500FT	2.0	14	10	290	37	248	267	552
					30	29	4578	42	708	346	1096

DDEXER4 RUN DATE 860207

DESERT CLIMATE

DC1219

STORAGE,DRY CARGO,200000 SF OPEN,ALL CLIMATES,STD 4,
NEW CONST,TENTAGE. PROVIDES 200000 SF STORAGE SPACE ON 6 IN.
STAB. STONE W/ASPHALT BINDER. ADMINISTRATION IN TENT ERECTED
BY USING SERVICE,PIT TYPE LATRINES. MINIMUM REAL ESTATE
REQUIREMENT FOR INSTALLATION 24.2 ACRES,REQUIRED FROM LOCAL
SOURCE - FINE AGGREGATE,3800 CY,COARSE AGGREGATE,4690 CY.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
72321BD	LAT PIT TYPE 160MAN 8 SEATS 10X20	10X20X8	160 EM	2.0	16	18	3118	5	460	74	539
72520AA	TENTAGE,MED GEN PURP,32FTX16FT	10-16X32	ADMIN	.1		1	1170			5	5
84330AC	SUMP FIRE PROTECTION 10000 GAL	10000 GAL	EFF RAD 500FT	2.0	14	10	290	37	248	267	552
					30	29	4578	42	708	346	1096

DESERT CLIMATE

MARINE RAILWAY REPAIR, TEMPORARY CONSTRUCTION STANDARD, WOOD FRAME BLDGS. PROVIDES 500-TON AND 1800-TON MARINE RAILWAYS WITH REPAIR AND MAINTENANCE SHOPS. REQUIRES 2 ACRES. AGGREGATE REQUIRED 352-CY FINE, 517-CY COARSE. UTILITIES REQUIRED BUT NOT PROVIDED 62.0 KW ELEC CONNECTED LOAD. FP1005

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
121330AE	SHOP MARINE REP 60X180X20,WD FR		MAINT&PRODUCTN	1.0	393	573	358729	208	9373	820	10401
44110BE	STOREHOUSE WD FR BLDG 20X20X8	20X20X8FT	FOR WINCHES	1.0	10	11	1943	26	301	61	388
144110BF	STOREHOUSE WD FR BLDG 20X30X8	20X30X8FT	FOR WINCHES	1.0	14	16	2671	28	330	83	441
161050BP	HQTRS & UNIT SUP BLDG 20X100X8	20X100X8FT	80 SF/MAN	1.0	44	60	11736	75	1459	311	1845
81240AG	ELEC DISTR W/FLDLTG MARINE RWAY RPR		BLD & DOCK	1.0	5	7	6589	58	920	403	1381
187190AA	SITE PREPARATION,ONE ACRE		REQUIRED AREA	2.0				202		74	276
					466	667	379668	597	12383	1752	14732

DDEXER4 RUN DATE 860207

DDEXER4
DESERT CLIMATE

GENERAL CARGO PORT-CONTAINER,BREAKBULK,RO-RO,LIGHTERAGE & PORTS SERVICE VESSEL PIERS LST RAMP ON SHORE SUPPORTING FACILITIES,PIERS&CAUSEWAY FOR 20FT TIDE RANGE-GROUND SLOPE 15-PERCENT,BERTHING,RAMP & ONSHORE SUPPORTING FACILITIES FOR CAPACITY UP TO 14,880 TONS PER DAY, REQUIRES 300 ACRES, 1000 MAN TROOP CAMP(NT3611/NT1531) " 10 BAY MAINT. INST. (MT1081/MT2008),ALL UTILITIES INCLUDED WITH INSTALLATION. FP1105

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	GENL	TOT
11130AB	HELIPD,CH54,PAD/APPR/DEP.1-1/2IN HM		CH 54	1.0	152	120	3797	18		41	59
111210CB	TAXIWAY W/25 FT SHOULDERS,1000 X 40			.1	31	25	1649	72		28	100
12110AL	SPRT ACFT REFLNG 30000 G W/MANIFOLD	2		4.0	28	64	221056	736	644	1619	2999
12630AA	LDG FACIL FOR TWO FUEL TRUCKS	2-STATION		1.0	12	12	13862	173	374	1213	1760
14970AF	RAMP FOR LANDING CRAFT			1.0				207	58	288	553
15150EL	CONTAINER PIER,TRESTLE,& CAUSEWAY			1.0	13100	18399	23001817	7710	29711	12090	49511
15150EN	BREAKBULK-RO/RO PIER,TRESTLE & CWY.			1.0	16744	24253	34619662	8418	36398	15719	60535
15150EP	LIGHTERAGE PIER,TRESTLE & CAUSEWAY			1.0	6649	6888	5644858	2423	7151	3223	12797
15150ER	SERVICE PIER,TRESTLE,& CAUSEWAY			1.0	6605	6468	5688110	2745	6079	2044	10868
15150ET	PORT-SERVICE PIERS,TRESTLE & CWY.			1.0	10467	21662	17927489	2530	6916	2126	11572
121330AD	SHOP MARINE REP 40X100X12,STL FR			1.0	42	212	42634	308	3830	1904	6042
21410BY	VEH WASH RACK			5.0	105	75	7990	23	339	472	834
41180AE	TANK POL 1000 BARREL 3/4 IN PIPE	1000 BBL		2.0	2	26	18516	184	736	299	1219
44110AL	STOREHOUSE STL FR BLDG 20X50X8	20X50X8FT	AS REQUIRED	1.0	10	56	11736	31	370	190	591
44110AP	WHSE CLOSED STL FR 80X220X12	80X220X12FT	AS REQUIRED	1.0	231	350	151045	342	3338	2144	5824
161050BH	ADMINISTRATION,HEADQUARTERS BLDG,ST	5000SF		2.0	36	94	61686	301	4018	1622	5941
161050CB	ADMIN.SUPPORT BLDG.30X50FT.ST FRAME		90 SF/OCCUP.	2.0	24	46	31480	81	1610	299	1990
72321BD	LAT PIT TYPE 160MAN 8 SEATS 10X20	10X20X8		5.0	40	45	7795	12	1150	184	1346
373010AC	FS 6144SF WD FR BLDG OP-A W/ INTER			1.0	192	283	39238	141	5545	882	6568
81110AG	GEN PLANT 300 KW 208Y/120 V OUTDOOR	20X 20X8		1.0	24	40	47996		1181	28	1209
181110DF	GEN PLANT 10.5 MW IN VANS TEMPERATE		1000 REEFERS	1.0	539	1205	1971219	307	7998	2990	11295
81240GE	LIGHTING-CONTAINERS-GEN,CARGO PORT			1.0	713	949	2829933	1617	41400	2300	45317
81240GF	AREA ILLUMINATION-GEN,CARGO PORT			1.0	27	30	93469	64	1352		1416
81240GG	AERIAL DISTRIBUTION-GEN,CARGO PORT			1.0	29	23	60429	18	1840		1858
81240GH	FIRE PUMP STATION-GEN,CARGO PORT			1.0	10	19	53428	28	938		966
81240GJ	PIERS-FEEDERS&EQPT-GEN,CARGO PORT			1.0	27	57	103840	75	1665		1740
82209AA	STEAM SYSTEM-GEN CARGO PORT ONSHORE			1.0	19	125	47913	676	2329	1352	4357
82209AB	STEAM SYSTEM-BRKBLK/RO-RO PIER			1.0	19	133	64284	856	1978	1334	4168
82209AC	STEAM SYSTEM CONTAINER PIER			1.0	23	95	50430	559	1312	874	2745
83210AA	SANITARY SYST-GEN CARGO PORT-SHORE			1.0	3	21	21840		869	435	1304
84120AD	WATER TANK TOWER 10500 GAL W/ACCESS	10,500 GAL		1.0	8	18	7415		276		276
84210GA	PORTABLE WATER SYST-GEN CARGO SHORE		1000 MAN	1.0	12	245	1548649		3802	3802	7604
84330AF	FIRE WATER SYSTEM-GEN.CARGO ONSHORE			1.0	206	222	570022	2001	3843	2001	7845
84330AG	FIRE WATER SYSTEM-LIGHTERAGE PIER			1.0	7	22	11820	138	227	186	551
84330AH	FIRE WATER SYST.-BRKBLK/RO-RO PIER			1.0	53	185	242806	559	1601	1093	3253
84330AJ	FIRE WATER SYSTEM-SERVICE PIERS			1.0	12	35	22625	184	458	423	1065

DDEXER4 RUN DATE 860207

DESERT CLIMATE

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
84330AK	FIRE WATER SYSTEM-CONTAINER PIER			1.0	38	320	144298	462	1369	995	2826
84520AA	SEAWATER SYST-GEN CARGO PORT-SHORE			1.0	1	4	3484		313	313	626
84520AB	SEAWATER SYS.-BRKBLK/RO-RO PIER			1.0	1	6	6786	48	269	216	533
85110CN	HARDSTAND,APR,TXWY,OR RNWY 1000SQYD			95.4	4865	3625	47509	4608		2194	6802
85110ER	ROAD PAVEMENT,CLASS B,CLD MIX BITUM			25.2	15952	14742	407484	17156		13708	30864
85111AD	RDWY PVMT HVY WH BSC 1MI 3IN ASPH		AS REQUIRED	3.1	3116	2492	41791	1405		524	1929
85111AP	RDWY PVMT HVY WH 2FT INCR 3IN ASPH		AS REQUIRED	36.0	4788	3960	71748	2360		952	3312
85111ED	RDWY HVY WH BSC 4FT SHLDRS 24IN THK		AS REQUIRED	1.0	4	3	1765	799		278	1077
85111EE	RDWY HVY WH BSC 4FT SHLDRS 30IN THK		AS REQUIRED	2.1	8	6	3938	1963		720	2683
85111EP	RDWY HVY WH 2FT INCR 24IN THK		AS REQUIRED	12.0			1320	925		276	1201
85111FB	HDSTD PVMT HVY WH 1000SY 3IN ASPH		AS REQUIRED	11.8	850	708	13924	719		285	1004
85111FD	HDSTD PVMT HVY WH 1000SY 3IN ASPH		AS REQUIRED	406.9	35400	29297	541991	31352		11230	42582
85111KA	HDSTD HVY WH 1000SY 4FT SHLDR 6IN		AS REQUIRED	11.8	24	12	8520	516		95	611
85111KD	HDSTD HVY WH 1000SY 4FT SHLDR 24IN		AS REQUIRED	128.6	257	257	97736	14937		3254	18191
85111KE	HDSTD HVY WH 1000SY 4FT SHLDR 30IN		AS REQUIRED	278.3	557	557	215126	38405		8321	46726
85210AG	HARDSTAND,1000 SQ YDS,NO ROCK			95.4	286	95	158936	6912		2194	9106
87210AF	GATE,CHAINLINK SING/LEAF 3 WI 10 HI			2.0	2	4	558	14		28	42
87210AP	SECURITY FENCE TYPE X 1000 FEET	1000 FEET		9.1	73	82	15070	481	2658	2679	5818
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET		8.5	60	68	11934	469	2170	2190	4829
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1		8.0	16	16	2656	74	1104	442	1620
87230AA	SENTRY BOX 4X4			2.0			244	219	920	460	1599
					122499	138756	97039356	157361	190139	114559	462059

DDEXER4
DESERT CLIMATE

AMMUNITION PORT-CONTAINER,BREAKBULK & LIGHTERAGE PIERS,LST RAMP, BARRICADED CONTAINER MARSHALLING YARD. OTHER ONSHORE SUPPORTING FACILITIES, PIERS & CAUSEWAY FOR 20FT TIDE RANGE-GROUND SLOPE 15-PERCENT. BERTHING, RAMP & ONSHORE SUPPORTING FACILITIES FOR CAPACITY UP TO 9,880 TONS PER DAY. REQUIRES 5000 ACRES. UTILITIES INCLUDED WITH INSTALLATION. FP1115

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	GENL	TOT
11130AB	HELIPD,CH56,PAD/APPR/DEP,1-1/2IN HM		CH 54	1.0	152	120	3797	18		41	59
111210CB	TAXIWAY W/25 FT SHOULDERS,1000 X 40			.4	125	100	6595	289		113	402
14970AF	RAMP FOR LANDING CRAFT			1.0				207	58	288	553
15150EL	CONTAINER PIER,TRESTLE,& CAUSEWAY			1.0	13100	18399	23001817	7710	29711	12090	49511
15150EM	BREAKBULK PIER,TRESTLE,& CAUSEWAY			1.0	12990	16848	20522368	6088	25056	10986	42130
15150EP	LIGHTERAGE PIER,TRESTLE & CAUSEWAY			1.0	6649	6888	5644858	2423	7151	3223	12797
21850AB	BATT CHG FAC STL FR BLD W/INT 20X20			1.0	4	9	6858	25	450	150	625
161050BC	ADMIN BLDG STL FR-INTERIOR 20X30X8	20X30X8FT		1.0	5	11	9128	18	343	101	462
172321BA	ADMIN BLDG STL FR-INTERIOR 20X30X8	20X30X8FT		2.0	10	22	18256	37	685	202	924
73010AA	FS 6144SF WD FR BLDG OP-A W/ INTER		AS REQUIRED	1.0	192	272	38303	141	5545	882	6568
181110CV	GEN PLANT 1.5 MW IN BLDGS TEMPERATE		AS REQUIRED	1.0	160	335	340318	104	6526	1426	8056
81240GF	AREA ILLUMINATION-GEN,CARGO PORT			1.0	27	30	93469	64	1352		1416
81240GK	POWER EQPT & ROAD LIGHTG-AMMO PORT			1.0	1794	2106	2393611	6606	52918		59524
81240GL	LIGHTING-CONTAINER AREA-AMMO PORT			1.0	89	95	333681	745	4692		5437
81240GM	FIRE PUMP STATION-AMMUNITION PORT			1.0	6	6	36943	9	414		423
81240GP	FENCE LIGHTING-AMMUNITION PORT			1.0	58	65	293348	575	4186		4761
83120AF	SEPTIC TANK,500 GL, W/ DRAIN FIELD			2.0	2	2	2522		58	690	748
84330AG	FIRE WATER SYSTEM-LIGHTERAGE PIER			1.0	7	22	11820	138	227	186	551
84330AH	FIRE WATER SYST.-BRKBLK/RO-RO PIER			1.0	53	185	242806	559	1601	1093	3253
84330AK	FIRE WATER SYSTEM-CONTAINER PIER			1.0	38	320	144298	462	1369	995	2826
84330AL	FIRE WATER SYSTEM-AMMO.PORT ONSHORE			1.0	519	661	3930813	2529	4830	2529	9888
85110CK	ROAD PAVEMENT,CLASS C,6IN STBL 1MI			5.5	3680	2486	18398	961		278	1239
85111AD	RDWY PVMT HVY WH BSC 1MI 3IN ASPH			8.5	8543	6834	114589	3851		1437	5288
85111AP	RDWY PVMT HVY WH 2FT INCR 3IN ASPH			51.0	6783	5610	101643	3343		1349	4692
85111EE	RDWY HVY WH BSC 4FT SHLDRS 30IN THK		AS REQUIRED	8.5	34	26	15938	7947		2913	10860
85111ER	RDWY HVY WH 2FT INCR 30IN THK			51.0			5610	4751		1349	6100
85111FD	HDSTD PVMT HVY WH 1000SY 3IN ASPH		AS REQUIRED	160.1	13929	11527	213253	12336		4419	16755
85111KD	HDSTD HVY WH 1000SY 4FT SHLDR 24IN		AS REQUIRED	23.3	47	47	17708	2706		589	3295
85130JR	ROAD,CLASS C,GRADED AND DRAINED 1MI			5.5	11	11	6677	4212		1322	5534
85240GN	ROAD,CLASS C,GRADED AND DRAINED 1MI		AS REQUIRED	1.0	2	2	1214	766		240	1006
87210AP	SECURITY FENCE TYPE X 1000 FEET	1000 FEET	AS REQUIRED	29.0	232	261	48024	1534	8471	8538	18543
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
87230AA	SENTRY BOX 4X4			1.0			122	109	460	230	799
					69245	73304	57619449	71281	156379	57769	285429

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MEDICAL DEPOT,INITIAL STANDARD,ALL CLIMATES,PROVIDES APPROX 69600 SF OF STORAGE AREA 85 PERCENT IN TENTS WITH EARTH FLOORS AND 15 PERCENT IN OPEN HARDSTAND. ADMINISTRATION,MEDICAL MAINTENANCE,OPTICAL FABRICATING, ACID-FLAMMABLE STORAGE IN TENTS GH4019

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
84330AB	SUMP FIRE PROTECTION 2000 GAL	2000 GAL	AS REQUIRED	7.0	14	14	336	32	177	193	402
85110DH	HARDSTAND,STAB SURF,1000SQ YD, 8 IN		AS REQUIRED	1.0	84	57	420	46		9	55
85210AV	HARDSTAND,1000 SQ YDS,HEAVY ROCK		AS REQUIRED	47.6	333	190	210392	18174		6569	24743
187190AA	SITE PREPARATION,ONE ACRE		AS REQUIRED	21.1				2135		776	2911
87210AD	CONCERTINA,TRIPLE TAPE TYP D 1000LF		AS REQUIRED	4.4	515	308	8633	142		567	709
87210AH	GATE,PER BAR SGL/LEAF 3FT X 7 FT HI		AS REQUIRED	2.0	2	2	716	16	23	9	48
87210AI	GATE,PER BAR SGL/LEAF 3FT X 7 FT HI		AS REQUIRED	5.0	5	5	1790	40	58	23	121
					953	576	222287	20585	258	8146	28989

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MEDICAL DEPOT,INITIAL STANDARD,ALL CLIMATES,PROVIDES GH4029
APPROX 88800 SF OF STORAGE AREA 90 PERCENT IN TENTS WITH
EARTH FLOORS AND 10 PERCENT IN OPEN HARDSTAND.
ADMINISTRATION,MEDICAL MAINTENANCE,OPTICAL FABRICATING,
ACID-FLAMMABLE STORAGE IN TENTS
MEDSOM FOR COMMUNICATION ZONE AND COMBAT ZONE

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
84330AB	SUMP FIRE PROTECTION 2000 GAL	2000 GAL	AS REQUIRED	7.0	14	14	336	32	177	193	402
85110DH	HARDSTAND,STAB SURF,1000SQ YD, 8 IN		AS REQUIRED	1.0	84	57	420	46		9	55
85210AV	HARDSTAND,1000 SQ YDS,HEAVY ROCK		AS REQUIRED	57.6	403	230	256592	21992		7949	29941
187190AA	SITE PREPARATION,ONE ACRE		AS REQUIRED	25.0				2530		920	3450
87210AD	CONCERTINA,TRIPLE TAPE TYP D 1000LF		AS REQUIRED	4.7	550	329	9221	151		605	756
87210AH	GATE,PER BAR SGL/LEAF 3FT X 7 FT HI		AS REQUIRED	2.0	2	2	716	16	23	9	48
87210AI	GATE,PER BAR SGL/LEAF 3FT X 7 FT HI		AS REQUIRED	5.0	5	5	1790	40	58	23	121
					1058	637	267075	24807	258	9708	34773

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MEDICAL DEPOT,DESERT CLIMATE,TEMPORARY STANDARD,PROVIDES APPROX 69600 SF OF STORAGE AREA,85 PERCENT IN BUILDINGS WITH CONCRETE FLOORS AND 15 PERCENT IN OPEN HARDSTAND. ADMINISTRATION BLDG AND MEDICAL MAINTENANCE,OPTICAL FABRICATING,MOTOR MAINTENANCE,ACID-FLAMMABLE STORAGE AND MEDSOM FOR COMMUNICATION ZONE AND COMBAT ZONE GH4034

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
21410GT	3600 SQ.FT. BUILDING GT WOOD		1PER INST	1.0	1015	881	75577	426	3393	1106	4925
21885CC	GEN PURP MAINT SHOP 36X60 PAN WD;DT	1800SF	AS REQUIRED	1.0	164	942	94319	94	837	94	1025
44110BC	WHSE CLOSED WD FR BLDG 48X96X14	48X96X14FT	AS REQUIRED	1.0	116	120	14467	81	1743	645	2469
44220AC	WAREHOUSE WOOD FRM CONST 80FTX240FT	19200SF	34.5SF/ST	2.0	958	1058	206494	1162	6360	423	7945
44220AL	WAREHOUSE WOOD FRM CONST 80FTX240FT	19200SF	34.5SF/ST	1.0	483	534	103025	628	3735	212	4575
44222AC	SHED STORAGE WOOD FRAME 20FTX100FT	2000SF	AS REQUIRED	1.0	55	69	15375	86	590	86	762
44240AB	ACID FLAMMABLE STORAGE BLDG 20X90	1800SF	AS REQUIRED	1.0	48	57	10362	120	704	120	944
61025BC	ADMINISTRATION BLDG WOOD FRM 40X110	4400SF	90SF/MAN	1.0	75	134	31510	174	984	174	1332
72321AA	PORTA-KAMP LATRINE		1/40 MEN	5.0	5	5	1240	17	92	86	195
81241AA	ELECTRICAL DISTRIBUTION SYSTEM		AS REQUIRED	1.0	39	239	68886	263	1313	263	1839
83120AB	SEPTIC TANK 1000 GPD,CONCRETE		AS REQUIRED	5.0	55	45	12700	17	782	104	903
83120DA	SEWAGE		AS REQUIRED	1.0			176	12	18	23	53
84210KA	WATER SYSTEM		AS REQUIRED	1.0	1	3	3799	71	338	71	480
84330AC	SUMP FIRE PROTECTION 10000 GAL	10000 GAL	AS REQUIRED	2.0	14	10	290	37	248	267	552
85110AG	ROAD PAVEMENT,CLASS A,HOT MIX BITUM		AS REQUIRED	.1	132	110	2043	65		28	93
85110CM	HARDSTAND,SINGLE BITUM,STAB BASE		AS REQUIRED	1.0	45	35	543	38		7	45
85110DH	HARDSTAND,STAB SURF,1000SQ YD, 8 IN		AS REQUIRED	19.8	1663	1129	8316	911		182	1093
85120FA	RD BRDG SGL LANE TMBR 30 FT HIGH		AS REQUIRED	.1	3	3	798	4	10	12	26
85210AV	HARDSTAND,1000 SQ YDS,HEAVY ROCK		AS REQUIRED	31.4	220	126	138788	11989		4333	16322
187190AA	SITE PREPARATION,ONE ACRE		AS REQUIRED	14.1				1427		519	1946
87210AA	FENCE,CHAIN LK.W/2 OUTRGRS 1 1000LF		AS REQUIRED	3.1	53	158	37429	446		1426	1872
87210AF	GATE,CHAINLINK SING/LEAF 3 WI 10 HI		AS REQUIRED	2.0	2	4	558	14		28	42
87210AJ	FENCE,CORNER POST 10 FT HI CHAINLIN		AS REQUIRED	4.0			436	46		37	83
87210AL	GATE,VEH CHAINLINK 10 FT HI 32 F WI		AS REQUIRED	2.0	2	4	802	16		35	51
87230AA	SENTRY BOX 4X4		AS REQUIRED	2.0			244	219	920	460	1599
					5148	5666	828177	18363	22067	10741	51171

DDEXER4 RUN DATE 860207

DESERT CLIMATE

GH4044

MEDICAL DEPOT,DESERT CLIMATE,TEMPORARY STANDARD,PROVIDES
APPROX 88800 SF OF STORAGE AREA,90 PERCENT IN BUILDINGS WITH
CONCRETE FLOORS AND 10 PERCENT IN OPEN HARDSTAND.
ADMINISTRATION BLDG AND MEDICAL MAINTENANCE,OPTICAL
FABRICATING,MOTOR MAINTENANCE,ACID-FLAMMABLE STORAGE AND
UNIT PICK-UP BUILDINGS PROVIDED.WOOD FRAME CONSTRUCTION
MEDSOM FOR COMBAT ZONE

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
21410GT	3600 SQ.FT. BUILDING GT WOOD		1PER INST	1.0	1015	881	75577	426	3393	1106	4925
21885CC	GEN PURP MAINT SHOP 36X60 PAN WD;DT	1800SF	AS REQUIRED	1.0	164	942	94319	94	837	94	1025
44110BC	WHSE CLOSED WD FR BLDG 48X96X14	48X96X14FT	AS REQUIRED	1.0	116	120	14467	81	1743	645	2469
44220AC	WAREHOUSE WOOD FRM CONST 80FTX240FT	19200SF	34.5SF/ST	3.0	1437	1587	309741	1742	9539	635	11916
44220AL	WAREHOUSE WOOD FRM CONST 80FTX240FT	19200SF	34.5SF/ST	1.0	483	534	103025	628	3735	212	4575
44222AC	SHED STORAGE WOOD FRAME 20FTX100FT	2000SF	AS REQUIRED	1.0	55	69	15375	86	590	86	762
44240AB	ACID FLAMMABLE STORAGE BLDG 20X90	1800SF	AS REQUIRED	1.0	48	57	10362	120	704	120	944
61025BC	ADMINISTRATION BLDG WOOD FRM 40X110	4400SF	90SF/MAN	1.0	75	134	31510	174	984	174	1332
72321AA	PORTA-KAMP LATRINE		1/40 MEN	5.0	5	5	1240	17	92	86	195
81241AA	ELECTRICAL DISTRIBUTION SYSTEM		AS REQUIRED	1.0	39	239	68886	263	1313	263	1839
83120AB	SEPTIC TANK 1000 GPD,CONCRETE		AS REQUIRED	5.0	55	45	12700	17	782	104	903
83120DA	SEWAGE		AS REQUIRED	1.0			176	12	18	23	53
84210KA	WATER SYSTEM		AS REQUIRED	1.0	1	3	3799	71	338	71	480
84330AC	SUMP FIRE PROTECTION 10000 GAL	10000 GAL	AS REQUIRED	2.0	14	10	290	37	248	267	552
85110AG	ROAD PAVEMENT,CLASS A,HOT MIX BITUM		1000SY/UNIT	.1	132	110	2043	65		28	93
85110CM	HARDSTAND,SINGLE BITUM,STAB BASE		AS REQUIRED	1.0	45	35	543	38		7	45
85110DH	HARDSTAND,STAB SURF,1000SQ YD, 8 IN		AS REQUIRED	18.0	1512	1026	7560	828		166	994
85130FA	ROAD,CLASS B,GRADED AND DRAINED 1MI		AS REQUIRED	.1	1	1	865	240		95	335
85210AV	HARDSTAND,1000 SQ YDS,HEAVY ROCK		AS REQUIRED	41.0	287	164	181220	15654		5658	21312
187190AA	SITE PREPARATION,ONE ACRE		AS REQUIRED	16.3				1650		600	2250
87210AA	FENCE,CHAIN LK.W/2 OUTRGRS 1 1000LF		AS REQUIRED	3.7	63	189	44674	532		1702	2234
87210AF	GATE,CHAINLINK SING/LEAF 3 WI 10 HI		AS REQUIRED	2.0	2	4	558	14		28	42
87210AJ	FENCE,CORNER POST 10 FT HI CHAINLIN		AS REQUIRED	4.0			436	46		37	83
87210AL	GATE,VEH CHAINLINK 10 FT HI 32 F WI		AS REQUIRED	2.0	2	4	802	16		35	51
87230AA	SENTRY BOX 4X4		AS REQUIRED	2.0			244	219	920	460	1599
					5551	6159	980412	23070	25236	12702	61008

DDEXER4 RUN DATE 860207

DESERT CLIMATE

VEHICLE MAINTENANCE INSTALLATION FOR ALL LEVELS OF SUPPORT THROUGH GENERAL SUPPORT ACTIVITIES.CONSISTS OF TEN BAYS AND SHOP AREA FOR OFF VEHICLE REPAIR.TEMPORARY STANDARD IN THE TROPIC/DESERT CLIMATES,WOOD BUILDINGS.

MT2008

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
21410BW	TRACKED VEH TURNING PAD		AS REQUIRED	17.3	346	260	22698		617	935	1552
21410BY	VEH WASH RACK		3PER INST	3.0	63	45	4794	14	204	283	501
21410GT	3600 SQ.FT. BUILDING GT WOOD		1PER INST	1.0	1015	881	75577	426	3393	1106	4925
21410HN	VEHICLE MAINT FAC.WD.FR.6BAY T/D		1PER INST	1.0	1305	1117	91628	458	3933	1233	5624
21411AA	LUB.RACK,VECHICLE,12X56 RAMP+PLATFO		2PER INST	2.0	14	10	1730		828	138	966
72321BD	LAT PIT TYPE 160MAN 8 SEATS 10X20	10X20X8	1PER INST	1.0	8	9	1559	2	230	37	269
81240HA	ELECTRICAL SYSTEM 125 MAN TR CP		AS REQUIRED	1.0	19	21	15370	13	1972	122	2107
84120FA	ELECTRICAL SYSTEM 125 MAN TR CP		AS REQUIRED	1.0	19	21	15370	13	1972	122	2107
84330AC	SUMP FIRE PROTECTION 10000 GAL	10000 GAL	AS REQUIRED	1.0	7	5	145	18	124	133	275
84330AE	FIREFHT EQPT POL W/10MGAL WTR&PUMP		AS REQUIRED	1.0	1	5	16777		39		39
85110DF	HARDSTAND,STAB SURF,1000SQ YD, 4 IN		AS REQUIRED	18.0	756	504	3780	497		166	663
187190AA	SITE PREPARATION,ONE ACRE		AS REQUIRED	4.2				425		155	580
87210AA	FENCE,CHAIN LK.W/2 OUTRGRS 1 1000LF		AS REQUIRED	1.0	17	51	12074	144		460	604
87210AF	GATE,CHAINLINK SING/LEAF 3 WI 10 HI		AS REQUIRED	1.0	1	2	279	7		14	21
87210AL	GATE,VEH CHAINLINK 10 FT HI 32 F WI		AS REQUIRED	1.0	1	2	401	8		17	25
					3572	2933	262182	2025	13312	4921	20258

DDEXER4 RUN DATE 860207

DESERT CLIMATE

VEHICLE MAINTENANCE INSTALLATION FOR ALL LEVELS OF SUPPORT THROUGH GENERAL SUPPORT ACTIVITIES.CONSISTS OF TEN BAYS AND SHOP AREA FOR OFF VEHICLE REPAIR.TEMPORARY STANDARD IN THE TROPIC/DESERT CLIMATES,METAL BUILDINGS. MT2018

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR HORZ	EFFORT IN MANHOURS VERT	EFFORT IN MANHOURS GENL	EFFORT IN MANHOURS TOT
21410BW	TRACKED VEH TURNING PAD		AS REQUIRED	17.3	346	260	22698		617	935	1552
21410BY	VEH WASH RACK		3PER INST	3.0	63	45	4794	14	204	283	501
21410GU	3600 SQ.FT. BUILDING GU METAL		1PER INST	1.0	51	46	46815	271	2432	1049	3752
21410HP	VEHICLE MAINT.FAC.ST.FR,6BAY,T/D		1PER INST	1.0	69	61	58873	350	2760	1132	4242
21411AA	LUB.RACK,VECHICLE,12X56 RAMP+PLATFO		2PER INST	2.0	14	10	1730		828	138	966
72321BA	LUB.RACK,VECHICLE,12X56 RAMP+PLATFO		1PER INST	1.0	7	5	865		414	69	483
81240HA	ELECTRICAL SYSTEM 125 MAN TR CP		AS REQUIRED	1.0	19	21	15370	13	1972	122	2107
84120FA	ELECTRICAL SYSTEM 125 MAN TR CP		AS REQUIRED	1.0	19	21	15370	13	1972	122	2107
84330AC	SUMP FIRE PROTECTION 10000 GAL	10000 GAL	AS REQUIRED	1.0	7	5	145	18	124	133	275
84330AE	FIREFHT EQPT POL W/10MGAL WTR&PUMP		AS REQUIRED	1.0	1	5	16777		39		39
85110DF	HARDSTAND,STAB SURF,1000SQ YD, 4 IN		AS REQUIRED	18.0	756	504	3780	497		166	663
187190AA	SITE PREPARATION,ONE ACRE		AS REQUIRED	4.2				425		155	580
87210AA	FENCE,CHAIN LK.W/2 OUTRGRS 1 1000LF		AS REQUIRED	1.8	31	92	21733	259		828	1087
87210AF	GATE,CHAINLINK SING/LEAF 3 WI 10 HI		AS REQUIRED	1.0	1	2	279	7		14	21
87210AL	GATE,VEH CHAINLINK 10 FT HI 32 F WI		AS REQUIRED	1.0	1	2	401	8		17	25
					1385	1079	209630	1875	11362	5163	18400

DDEXER4 RUN DATE 860207

DESERT CLIMATE

VEHICLE MAINTENANCE INSTALLATION FOR ALL LEVELS OF SUPPORT THROUGH GENERAL SUPPORT ACTIVITIES.CONSISTS OF TWENTY BAYS AND SHOP AREA FOR OFF VEHICLE REPAIR.TEMPORARY STANDARD IN THE TROPIC/DESERT CLIMATES,WOOD BUILDINGS. MT2028

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
21410BW	TRACKED VEH TURNING PAD		AS REQUIRED	31.4	628	471	41197		1119	1697	2816
21410BY	VEH WASH RACK		6PER INST	6.0	126	90	9588	28	407	566	1001
21410GT	3600 SQ.FT. BUILDING GT WOOD		2PER INST	2.0	2030	1762	151154	851	6785	2213	9849
21410HN	VEHICLE MAINT FAC.WD.FR.6BAY T/D		2PER INST	2.0	2610	2234	183256	915	7866	2466	11247
21411AA	LUB.RACK,VECHICLE,12X56 RAMP+PLATFO		4PER INST	4.0	28	20	3460		1656	276	1932
72321BD	LAT PIT TYPE 16OMAN 8 SEATS 10X20	10X20X8	1PER INST	1.0	8	9	1559	2	230	37	269
81240HB	ELECTRICAL DISTRIBUTION SYS 250 MAN		AS REQUIRED	1.0	28	42	27991	2	26	2	30
84120FA	ELECTRICAL DISTRIBUTION SYS 250 MAN		AS REQUIRED	1.0	28	42	27991	2	26	2	30
84330AC	SUMP FIRE PROTECTION 10000 GAL	10000 GAL	AS REQUIRED	1.0	7	5	145	18	124	133	275
84330AE	FIREFHT EQPT POL W/10MGAL WTR&PUMP		AS REQUIRED	1.0	1	5	16777		39		39
85110DF	HARDSTAND,STAB SURF,1000SQ YD, 4 IN		AS REQUIRED	36.0	1512	1008	7560	994		331	1325
187190AA	SITE PREPARATION,ONE ACRE		AS REQUIRED	8.3				840		305	1145
87210AA	FENCE,CHAIN LK.W/2 OUTRGRS 1 1000LF		AS REQUIRED	2.5	43	128	30185	359		1150	1509
87210AF	GATE,CHAINLINK SING/LEAF 3 WI 10 HI		AS REQUIRED	1.0	1	2	279	7		14	21
87210AL	GATE,VEH CHAINLINK 10 FT HI 32 F WI		AS REQUIRED	1.0	1	2	401	8		17	25
					7051	5820	501543	4026	18278	9209	31513

DDEXER4 RUN DATE 860207

DESERT CLIMATE

VEHICLE MAINTENANCE INSTALLATION FOR ALL LEVELS OF SUPPORT THROUGH GENERAL SUPPORT ACTIVITIES.CONSISTS OF TWENTY BAYS AND SHOP AREA FOR OFF VEHICLE REPAIR.TEMPORARY STANDARD IN THE TROPIC/DESERT CLIMATES.METAL BUILDINGS. MT2038

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
21410BW	TRACKED VEH TURNING PAD		AS REQUIRED	31.4	628	471	41197		1119	1697	2816
21410BY	VEH WASH RACK		6PER INST	6.0	126	90	9588	28	407	566	1001
21410GU	3600 SQ.FT. BUILDING GU METAL		2PER INST	2.0	102	92	93630	543	4865	2098	7506
21410HP	VEHICLE MAINT.FAC.ST.FR,6BAY,T/D		2PER INST	2.0	138	122	117746	699	5520	2263	8482
21411AA	LUB.RACK,VECHICLE,12X56 RAMP+PLATFO		4PER INST	4.0	28	20	3460		1656	276	1932
72321BA	LUB.RACK,VECHICLE,12X56 RAMP+PLATFO		1PER INST	1.0	7	5	865		414	69	483
81240HA	ELECTRICAL SYSTEM 125 MAN TR CP		AS REQUIRED	1.0	19	21	15370	13	1972	122	2107
84120FA	ELECTRICAL SYSTEM 125 MAN TR CP		AS REQUIRED	1.0	19	21	15370	13	1972	122	2107
84330AC	SUMP FIRE PROTECTION 10000 GAL	10000 GAL	AS REQUIRED	1.0	7	5	145	18	124	133	275
84330AE	FIREFHT EQPT POL W/10MGAL WTR&PUMP		AS REQUIRED	1.0	1	5	16777		39		39
85110DF	HARDSTAND,STAB SURF,1000SQ YD, 4 IN		AS REQUIRED	36.0	1512	1008	7560	994		331	1325
187190AA	SITE PREPARATION,ONE ACRE		AS REQUIRED	8.3				840		305	1145
87210AA	FENCE,CHAIN LK.W/2 OUTRGRS 1 1000LF		AS REQUIRED	2.5	43	128	30185	359		1150	1509
87210AF	GATE,CHAINLINK SING/LEAF 3 WI 10 HI		AS REQUIRED	1.0	1	2	279	7		14	21
87210AL	GATE,VEH CHAINLINK 10 FT HI 32 F WI		AS REQUIRED	1.0	1	2	401	8		17	25
					2632	1992	352573	3522	18088	9163	30773

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERMINAL,POL,200000 BBL CAPAC W/50M WLDD TNKS,10M&3M BLTD TANKS FOR EXISTG DOCK FOR TNKR DISCHARGE,TEMP,TROP& DST CLIM.T-2 TNKR OR SUPER TANKER DISCHARGING W/ 24HR TURN AROUND TIME.MARINE TERMINAL W/ESTG DOCK MOORING BERTH,12IN INLAND PPELN,BOOSTER PMP STA & OPER BLDG.,TANK FARM FOR BULK STAGE OF 4 PRODUCTS FOR RECEIVING 800000 BBLS/ MO. MAX REQUIRES 60 ACRES. FINE AGGR. 20CY. COARSE AGGR. 22

PA1015

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	1.0	26	23	97212	35	276	92	403
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	1.0	14	21	50497	23	414	115	552
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	4.0	28	56	65016	23	184	69	276
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	1.0	18	21	78664	52	397	81	530
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	1.0	9	32	4440	17	224	81	322
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	4.0	180	708	95916	184	4370	1932	6486
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	4.0	16	16	44460	46	1058	736	1840
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	4.0	108	224	216436	184	1288	368	1840
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	4.0	4	4	4984	37	239	92	368
12665AU	PIPE POL 12IN F/SUPER TNKR AT DOCK	12IN 2800BPH	AS REQUIRED	1.0	32	49	221603		759	184	943
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	3.0	15	30	15606	86	345	155	586
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	3.0	6	96	36132	311	1070	759	2140
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	4.0	12	164	113536	667	3910	2001	6578
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	3.0	12	579	182766	1035	15318	6900	23253
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	2.0	14	30	23462	74	1051	391	1516
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					529	2104	1269004	3117	32649	15292	51058

DESERT CLIMATE

PA1025

MARINE TERMINAL,POL,400000 BBL CAPAC.USED FOR PHASE1.WLDD &
ALTD TNKS FOR EXSTG DOCK FOR TNKR DISCHARGE,TEMP,TROP & DST
CLIM.T-2 TNKR OR SUPER TANKER DISCHARGING W/13
HR TURN AROUND TIME. MARINE TERMINAL W/EXSTG DOCK,MOORING
BERTH,12IN INLAND PPELN,BOOSTER PMP STA & OPER BLDG.,TANK
FARM FOR BULK STGE OF & PRODUCTS FOR RECEIVING 1500000 BBLS/
MO. MAX REQUIRES 121 ACRES. FINE AGGR. 40CY. COARSE AGGR. 44

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR HORZ	EFFORT IN MANHOURS VERT	EFFORT IN MANHOURS GENL	EFFORT IN MANHOURS TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	3.0	78	69	291636	104	828	276	1208
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	28	42	100994	46	828	230	1104
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	8.0	56	112	130032	46	368	138	552
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	2.0	36	42	157328	104	794	161	1059
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	2.0	18	64	8880	35	449	161	645
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	8.0	360	1416	191832	368	8740	3864	12972
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	8.0	32	32	88920	92	2116	1472	3680
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	8.0	216	448	432872	368	2576	736	3680
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	4.0	4	4	5472	23	161	92	276
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	4.0	4	4	4984	37	239	92	368
12665AU	PIPE POL 12IN F/SUPER TNKR AT DOCK	12IN 2800BPH	AS REQUIRED	1.0	32	49	221603		759	184	943
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	4.0	20	40	20808	115	460	207	782
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	2.0	2	14	12884	104	414	173	691
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	2.0	2	26	18516	184	736	299	1219
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	6.0	12	192	72264	621	2139	1518	4278
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	8.0	24	328	227072	1334	7820	4002	13156
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	6.0	24	1158	365532	2070	30636	13800	46506
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	4.0	28	60	46924	147	2102	782	3031
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	8.0	56	64	11232	442	2042	2061	4545
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	4.0	8	8	1328	37	552	221	810
					1040	4172	2411113	6277	64759	30469	101505

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERMINAL,POL,400000 BBL CAPAC.USED FOR PHASE-2.WLDD PA1035
&BLTD TNKS FOR EXISTS DOCK TANKER DISCHARGE,TEMP,TROP & DST
CLIM.T-2 TNKR OR SUPER TANKER DISCHARGING W/13HR
TURN AROUND TIME. MARINE TERMINAL W/EXESTS DOCK MOORING
BERTH,12IN INLAND PPELN,BOOSTER PMP STA & OPER BLDG.,TANK
FARM FOR BULK SIGE CF 4 PRODUCTS FOR RECEIVING 1500000
BBLS/MO. MAX REQUIRES 121 ACRES. FINE AGGR. 40CY. COARSE AGG

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	3.0	78	69	291636	104	828	276	1208
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	28	42	100994	46	828	230	1104
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	8.0	56	112	130032	46	368	138	552
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	2.0	36	42	157328	104	794	161	1059
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	2.0	18	64	8880	35	449	161	645
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	16.0	720	2832	383664	736	17480	7728	25944
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	8.0	32	32	88920	92	2116	1472	3680
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	16.0	432	896	865744	736	5152	1472	7360
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	4.0	4	4	5472	23	161	92	276
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	16.0	16	16	19936	147	957	368	1472
12665AU	PIPE POL 12IN F/SUPER TNKR AT DOCK	12IN 2800BPH	AS REQUIRED	2.0	64	98	443206		1518	368	1886
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	4.0	20	40	20808	115	460	207	782
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	2.0	2	14	12884	104	414	173	691
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	2.0	2	26	18516	184	736	299	1219
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	6.0	12	192	72264	621	2139	1518	4278
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	8.0	24	328	227072	1334	7820	4002	13156
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	6.0	24	1158	365532	2070	30636	13800	46506
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	4.0	28	60	46924	147	2102	782	3031
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	8.0	56	64	11232	442	2042	2061	4545
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	4.0	8	8	1328	37	552	221	810
					1660	6097	3272372	7123	77552	35529	120204

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERMINAL,POL,200000 BBL CAPAC W/10 THOUS.& 3 THOUS. PA1045
BOLTED STL FOR EXISTG DOCK FOR TANKER DISCHARGE,TEMP,TROP&
DST CLIM.T-2 TANKER OR SUPER TANKER DISCHARGING W/24HR
TURN AROUND TIME.MARINE TERMINAL W/EXSTS DOCK MOORING BERTH,
12IN INLAND PPELN,BOOSTER PMP STA & OPER BLDG.,TANK FARM
FOR BULK STGE OF 4 PRODUCTS FOR RECEIVING 80000 BBLS/MO. MAX
REQUIRES 60 ACRES. FINE AGGR. 20CY. COARSE AGGR. 22CY. FIRFT

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT.
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	1.0	26	23	97212	35	276	92	403
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	28	42	100994	46	828	230	1104
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	4.0	28	56	65016	23	184	69	276
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	1.0	18	21	78664	52	397	81	530
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	1.0	9	32	4440	17	224	81	322
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	4.0	180	708	95916	184	4370	1932	6486
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	.2	3	3	700	2	46	32	80
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	6.0	24	24	66690	69	1587	1104	2760
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	4.0	108	224	216436	184	1288	368	1840
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	4.0	4	4	4984	37	239	92	368
12665AU	PIPE POL 12IN F/SUPER TNKR AT DOCK	12IN 2800BPH	AS REQUIRED	1.0	32	49	221603		759	184	943
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	3.0	15	30	15606	86	345	155	586
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	4.0	8	128	48176	414	1426	1012	2852
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	19.0	57	779	539296	3168	18573	9505	31246
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	2.0	14	30	23462	74	1051	391	1516
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	5.0	35	40	7020	276	1277	1288	2841
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					596	2212	1598873	4789	33595	16922	55306

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERMINAL,POL,400000 BBL CAPAC W/10 THOUSAND. & 3 THOU PA1055
BOLTED STEEL FOR EXISTING DOCK FOR TANKER DISCHARGE,TEMPER-
ATE,TROPICAL AND DESERT CLIMATE.T-2 TANKER OR SUPER TANKER
DISCHARGING. MARINE TERMINAL W/EXISTING DOCK MOORING BERTH
12IN INLAND PPELN,BOOSTER PMP STA & OPER BLDG., TANK FARM
FOR BULK STGE OF 4 PRODUCTS FOR RECEIVING 1500000 BBLS/MO.
MAX REQUIRES 121 ACRES. FINE AGGR. 40CY. COARSE AGGR. 44CY.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	3.0	78	69	291636	104	828	276	1208
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	4.0	56	84	201988	92	1656	460	2208
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	8.0	56	112	130032	46	368	138	552
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	2.0	36	42	157328	104	794	161	1059
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	2.0	18	64	8880	35	449	161	645
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	2.0	90	354	47958	92	2185	966	3243
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	8.0	104	128	28000	92	1840	1288	3220
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	.4	2	2	4446	5	106	74	185
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	16.0	432	896	865744	736	5152	1472	7360
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	4.0	4	4	5472	23	161	92	276
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	8.0	8	8	9968	74	478	184	736
12665AU	PIPE POL 12IN F/SUPER TNKR AT DOCK	12IN 2800BPH	AS REQUIRED	2.0	64	98	443206		1518	368	1886
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	4.0	20	40	20808	115	460	207	782
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	2.0	2	14	12884	104	414	173	691
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	2.0	2	26	18516	184	736	299	1219
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	8.0	16	256	96352	828	2852	2024	5704
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	38.0	114	1558	1078592	6337	37145	19010	62492
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	4.0	28	60	46924	147	2102	782	3031
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	10.0	70	80	14040	552	2553	2576	5681
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	4.0	8	8	1328	37	552	221	810
					1208	3903	3484102	9707	62349	30932	102988

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERMINAL,POL,1000000 BBL CAPAC.USED FOR PHASE 1. WLDD & BLTD TNKS FOR EXISTG DOCK FOR TANKER DISCHARGE,TEMP,TROP & DST CLIM. T-2 TANKER OR SUPER TANKER DISCHARGING W/13 HR TURN AROUND TIME. MARINE TERMINAL W/EXSTG DOCK MOORING BERTH 12IN INLAND PPELN, BOOSTER PMP STA & OPER. BLDG.,TANK FARM FOR BULK STGE CE 4 PRODUCTS FOR RECEIVING 3000000 BBLS/MO. MAX REQUIRES 307 ACRES. FINE AGGR. 80CY. COARSE AGGR. 88 CY. PA1065

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	5.0	130	115	486060	173	1380	460	2013
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	8.0	112	168	403976	184	3312	920	4416
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	16.0	112	224	260064	92	736	276	1104
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	4.0	72	84	314656	207	1587	322	2116
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	4.0	36	128	17760	69	897	322	1288
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	16.0	720	2832	383664	736	17480	7728	25944
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	24.0	96	96	266760	276	6348	4416	11040
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	16.0	432	896	865744	736	5152	1472	7360
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	8.0	8	8	10944	46	322	184	552
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	16.0	16	16	19936	147	957	368	1472
12665AU	PIPE POL 12IN F/SUPER TNKR AT DOCK	12IN 2800BPH	AS REQUIRED	1.0	32	49	221603		759	184	943
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	10.0	50	100	52020	288	1150	518	1956
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	2.0	2	14	12886	104	414	173	691
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	4.0	4	52	37032	368	1472	598	2438
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	20.0	60	820	567680	3335	19550	10005	32890
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	16.0	64	3088	974752	5520	81696	36800	124016
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	8.0	56	120	93848	294	4204	1564	6062
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	15.0	105	120	21060	828	3830	3864	8522
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	8.0	16	16	2656	74	1106	442	1620
					2123	8946	5013099	13477	152350	70616	236443

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERMINAL,POL,1000000 BBL CAPAC USED FOR PHASE2. WLDD & BLTD TNKS FOR EXISTG DOCK FOR TANKER DISCHARGE,TEMP,TROP & DST CLIM. T-2 TANKER OR SUPER TANKER DISCHARGING W/13 HR TURN AROUND TIME. MARINE TERMINAL W/EXSTS DOCK MOORING BERTH 12IN INLAND PPELN, BOOSTER PMP STA & OPER BLDG., TANK FARM FOR BULK STGE CF 4 PRODUCTS FOR RECEIVING 3000000 BBLS/MO. MAX REQUIRES 307 ACRES. FINE AGGR. 80CY. COARSE AGGR. 88 CY. PA1075

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	5.0	130	115	486060	173	1380	460	2013
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	8.0	112	168	403976	184	3312	920	4416
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	16.0	112	224	260064	92	736	276	1104
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	4.0	72	84	314656	207	1587	322	2116
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	4.0	36	128	17760	69	897	322	1288
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	32.0	1440	5664	767328	1472	34960	15456	51888
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	24.0	96	96	266760	276	6368	4416	11040
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	32.0	864	1792	1731488	1472	10304	2944	14720
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	8.0	8	8	10944	46	322	184	552
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	32.0	32	32	39872	294	1914	736	2944
12665AU	PIPE POL 12IN F/SUPER TNKR AT DOCK	12IN 2800BPH	AS REQUIRED	2.0	64	98	443206		1518	368	1886
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	10.0	50	100	52020	288	1150	518	1956
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	2.0	2	14	12884	104	414	173	691
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	4.0	4	52	37032	368	1472	598	2438
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	20.0	60	820	567680	3335	19550	10005	32890
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	16.0	64	3088	974752	5520	81696	36800	124016
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	8.0	56	120	93848	294	4204	1564	6062
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	15.0	105	120	21060	828	3830	3864	8522
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	8.0	16	16	2656	74	1104	442	1620
					3323	12739	6504046	15096	176698	80368	272162

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERMINAL,POL,1000000 BBL CAPAC WITH 10M BOLTED STEEL TNKS FOR EXISTS DOCK FOR TANKER DISCHARGE,TEMP,TROP& DST DST CLIM. T-2 TANKER OR SUPER TANKER DISCHARGING W/13 HR TURN AROUND TIME. MARINE TERMINAL W/EXSTG DOCK MOORING BERTH 12IN INLAND PPELN,BOOSTER PMP STA & OPER.BLDG.,TANK FARM FOR BULK STGE CF 4 PRODUCTS FOR RECEIVING 3000000 BBLS/MO-MAX REQUIRES 307 ACRES. FINE AGGR. 70CY. COARSE AGGR. 77CY. FIRE PA1085

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	5.0	130	115	486060	173	1380	460	2013
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	8.0	112	168	403976	184	3312	920	4416
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	2.0	14	28	32508	12	92	35	139
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	4.0	72	84	314656	207	1587	322	2116
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	8.0	72	256	35520	138	1794	644	2576
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	24.0	1080	4248	575496	1104	26220	11592	38916
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	1.2	16	19	4200	14	276	193	483
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	28.0	112	112	311220	322	7406	5152	12880
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	32.0	864	1792	1731488	1472	10304	2944	14720
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	8.0	8	8	10944	46	322	184	552
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	32.0	32	32	39872	294	1914	736	2944
12665AU	PIPE POL 12IN F/SUPER TNKR AT DOCK	12IN 2800BPH	AS REQUIRED	2.0	64	98	443206		1518	368	1886
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	10.0	50	100	52020	288	1150	518	1956
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	2.0	2	14	12884	104	414	173	691
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	4.0	4	52	37032	368	1472	598	2438
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	16.0	32	512	192704	1656	5704	4048	11408
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	96.0	288	3936	2724864	16008	93840	48024	157872
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	7.0	49	105	82117	258	3679	1369	5306
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	20.0	140	160	28080	1104	5106	5152	11362
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	8.0	16	16	2656	74	1104	442	1620
					3157	11855	7521503	23826	168594	83874	276294

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERM,POL,200000 BBL CAPAC W/50M WLDD TANKS,10M & 3M BLTD STL TANKS W/JETTY FOR TANKER FOR TANKER DISCHARGE. TEMP TROP & DST CLIM. T-2 TANKER DISCHARGING W/24 HR TURN AROUND TIME.MARINE TERM W/JETTY MOORING BERTH,12IN INLD PPLN, BOOSTER PMP STA & OPER BLDG. TANK FARM FOR BLK STGE OF 4 PROD FOR RECEIVG 800000 BBLS/MO.MAX.REQUIRES 60 ACRES FINE AGGR. 20CY,COARSE AGGR. 22CY. FIREFTG EQUIP. HAND EXTG PA1095

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	1.0	26	23	97212	35	276	92	403
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	1.0	14	21	50497	23	414	115	552
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	4.0	28	56	65016	23	184	69	276
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	1.0	18	21	78664	52	397	81	530
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	1.0	9	32	4440	17	224	81	322
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	4.0	180	708	95916	184	4370	1932	6486
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	4.0	16	16	44460	46	1058	736	1840
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	4.0	108	224	216436	184	1288	368	1840
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	4.0	4	4	4984	37	239	92	368
12665AU	PIPE POL 12IN F/SUPER TNKR AT DOCK	12IN 2800BPH	AS REQUIRED	1.0	32	49	221603		759	184	943
16440AA	JETTY POL 14FT X 1M FT WALK&PIPEWAY	1000&40X70FT	AS REQUIRED	1.0	695	718	278329	4945	8050	219	13214
16440AB	HOSE DERRICK PARTS FOR POL WHARFS.		AS REQUIRED	1.0	2	1	2709		104	104	208
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	5.0	25	50	26010	144	575	259	978
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	3.0	6	96	36132	311	1070	759	2140
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	4.0	12	164	113536	667	3910	2001	6578
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	3.0	12	579	182766	1035	15318	6900	23253
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	2.0	14	30	23462	74	1051	391	1516
84290AA	TANKER WATERING SERVICE FACILITIES,	1000 BBL	AS REQUIRED	1.0	8	28	18849		920	150	1070
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					1244	2871	1579295	8120	41953	15869	65942

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERM,POL,400000 BBL CAPAC W/50M WLDD TANKS,10M & 3M BLTD STL TANKS W/JETTY FOR TANKER FOR TANKER DISCHARGE. TEMP TROP & DST CLIM. T-2 TANKER DISCHARGING W/13 HR TURN AROUND TIME. MARINE TERM W/JETTY MOORING BERTH,12IN INLD PPLN, BOOSTER PMP STA & OPER BLDG. TANK FARM FOR BLK STGE OF 4 PROD FOR RECEIVG 1500000 BBLS/MO.MAX. REQUIRES 121 ACRES FINE AGGR. 40CY,COARSE AGGR. 44CY. FIREFTG EQUIP. HAND EXTG PA1105

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	3.0	78	49	291636	104	828	276	1208
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	28	42	100994	46	828	230	1104
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	8.0	56	112	130032	46	368	138	552
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	2.0	36	42	157328	104	794	161	1059
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	8.0	72	256	35520	138	1794	644	2576
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	12.0	540	2124	287748	552	13110	5796	19458
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	2.0	8	8	22230	23	529	368	920
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	8.0	216	448	432872	368	2576	736	3680
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	4.0	4	4	5472	23	161	92	276
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	12.0	12	12	14952	110	718	276	1104
12665AU	PIPE POL 12IN F/SUPER TNKR AT DOCK	12IN 2800BPH	AS REQUIRED	1.0	32	49	221603		759	184	943
16440AA	JETTY POL 14FT X 1M FT WALK&PIPEWAY	1000&40X70FT	AS REQUIRED	1.0	695	718	278329	4945	8050	219	13214
16440AB	HOSE DERRICK PARTS FOR POL WHARFS.		AS REQUIRED	1.0	2	1	2709		104	104	208
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	4.0	20	40	20808	115	460	207	782
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	2.0	2	14	12884	104	414	173	691
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	2.0	2	26	18516	184	736	299	1219
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	6.0	12	192	72264	621	2139	1518	4278
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	8.0	24	328	227072	1334	7820	4002	13156
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	6.0	24	1158	365532	2070	30636	13800	46506
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	4.0	28	60	46924	147	2102	782	3031
84290AA	TANKER WATERING SERVICE FACILITIES,	1000 BBL	AS REQUIRED	1.0	8	28	18849		920	150	1070
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	8.0	56	64	11232	442	2042	2061	4545
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	4.0	8	8	1328	37	552	221	810
					1963	5803	2776834	11513	78440	32437	122390

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERM,POL,400000 BBL CAPAC W/50M WLDD TANKS,10M & 3M BLTD STL TANKS W/JETTY FOR TANKER FOR TANKER DISCHARGE. TEMP TROP & DST CLIM. T-2 TANKER DISCHARGING W/13 HR TURN AROUND TIME.MARINE TERM W/JETTY MOORING BERTH,12IN INLD PPLN, BOOSTER PMP STA & OPER BLDG. TANK FARM FOR BLK STGE OF 4 PROD FOR RECEIVG 1500000 BBLS/MO.MAX. REQUIRES 121 ACRES FINE AGGR. 40CY,COARSE AGGR. 44CY. FIREFTG EQUIP. HAND EXTG PA1115

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	3.0	78	69	291636	104	828	276	1208
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	28	42	100994	46	828	230	1104
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	8.0	56	112	130032	46	368	138	552
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	2.0	36	42	157328	104	794	161	1059
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	8.0	72	256	35520	138	1794	644	2576
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	20.0	900	3540	479580	920	21850	9660	32430
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	2.0	8	8	22230	23	529	368	920
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	16.0	432	896	865744	736	5152	1472	7360
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	4.0	4	4	5472	23	161	92	276
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	20.0	20	20	24920	184	1196	460	1840
12665AU	PIPE POL 12IN F/SUPER TNKR AT DOCK	12IN 2800BPH	AS REQUIRED	2.0	64	98	443206		1518	368	1886
16440AA	JETTY POL 14FT X 1M FT WALK&PIPEWAY	1000&40X70FT	AS REQUIRED	1.0	695	718	278329	4945	8050	219	13214
16440AB	HOSE DERRICK PARTS FOR POL WHARFS.		AS REQUIRED	1.0	2	1	2709		104	104	208
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	4.0	20	40	20808	115	460	207	782
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	2.0	2	14	12884	104	414	173	691
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	2.0	2	26	18516	184	736	299	1219
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	6.0	12	192	72264	621	2139	1518	4278
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	8.0	24	328	227072	1334	7820	4002	13156
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	6.0	24	1158	365532	2070	30636	13800	46506
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	4.0	28	60	46924	147	2102	782	3031
84290AA	TANKER WATERING SERVICE FACILITIES,	1000 BBL	AS REQUIRED	1.0	8	28	18849		920	150	1070
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	8.0	56	64	11232	442	2042	2061	4545
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	4.0	8	8	1328	37	552	221	810
					2579	7724	3633109	12323	90993	37405	140721

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERM,POL,1000000 BBL CAPAC W/50M WLDD TANKS,10M & 3M PA1125
BLTD STL TANKS W/JETTY FOR TANKER FOR TANKER DISCHARGE. TEMP
TROP & DST CLIM. T-2 TANKER DISCHARGING W/13 HR TURN AROUND
TIME.MARINE TERM W/JETTY MOORING BERTH,12IN INLD PPLN,
BOOSTER PMP STA & OPER BLDG.TANK FARM FOR BLK STGE OF 4 PROD
FOR RECEIVG 3000000 BBLS/MO.MAX. REQUIRES 307 ACRES
FINE AGGR. 80CY,COARSE AGGR. 88CY. FIREFTG EQUIP. HAND EXTG

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	5.0	130	115	486060	173	1380	460	2013
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	8.0	112	168	403976	184	3312	920	4416
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	16.0	112	224	260064	92	736	276	1104
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	4.0	72	84	314656	207	1587	322	2116
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	4.0	36	128	17760	69	897	322	1288
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	16.0	720	2832	383664	736	17480	7728	25944
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	24.0	96	96	266760	276	6348	4416	11040
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	16.0	432	896	865744	736	5152	1472	7360
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	8.0	8	8	10944	46	322	184	552
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	16.0	16	16	19936	147	957	368	1472
12665AU	PIPE POL 12IN F/SUPER TNKR AT DOCK	12IN 2800BPH	AS REQUIRED	1.0	32	49	221603		759	184	943
16440AA	JETTY POL 14FT X 1M FT WALK&PIPEWAY	1000&40X70FT	AS REQUIRED	1.0	695	718	278329	4945	8050	219	13214
16440AB	HOSE DERRICK PARTS FOR POL WHARFS.		AS REQUIRED	1.0	2	1	2709		104	104	208
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	10.0	50	100	52020	288	1150	518	1956
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	2.0	2	14	12884	104	414	173	691
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	4.0	4	52	37032	368	1472	598	2438
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	20.0	60	820	567680	3335	19550	10005	32890
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	1.6	6	309	97475	552	8170	3680	12402
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	8.0	56	120	93848	294	4204	1564	6062
84290AA	TANKER WATERING SERVICE FACILITIES,	1000 BBL	AS REQUIRED	1.0	8	28	18849		920	150	1070
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	15.0	105	120	21060	828	3830	3864	8522
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	8.0	16	16	2656	74	1104	442	1620
					2770	6914	4435709	13454	87898	37969	139321

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERM,POL,1000000 BBL CAPAC W/50M WLDD TANKS, 10M & 3M BLTD STL TANKS W/JETTY FOR TANKER FOR TANKER DISCHARGE. TEMP TROP & DST CLIM. T-2 TANKER DISCHARGING W/13 HR TURN AROUND AROUND TIME.MARINE TERM W/JETTY MOORING BERTH,12IN INLD PPLN,BOOSTER PMP STA & OPER BLDG. TANK FARM FOR BLK STGE OF 4 PROD FOR RECEIVG 3000000 BBLS/MO.MAX. REQUIRES 307 ACRES FINE AGGR. 80CY,COARSE AGGR. 83CY. FIREFTG EQUIP. HAND EXTG PA1135

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	5.0	130	115	686060	173	1380	460	2013
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	8.0	112	168	403976	184	3312	920	4416
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	16.0	112	224	260064	92	736	276	1104
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	4.0	72	84	314656	207	1587	322	2116
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	4.0	36	128	17760	69	897	322	1288
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	32.0	1440	5664	767328	1472	34960	15456	51888
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	24.0	96	96	266760	276	6348	4416	11060
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	32.0	864	1792	1731488	1472	10304	2944	14720
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	8.0	8	8	10944	46	322	184	552
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	32.0	32	32	39872	294	1914	736	2944
12665AU	PIPE POL 12IN F/SUPER TNKR AT DOCK	12IN 2800BPH	AS REQUIRED	2.0	64	98	443206		1518	368	1886
16440AA	JETTY POL 14FT X 1M FT WALK&PIPEWAY	1000&40X70FT	AS REQUIRED	1.0	695	718	278329	4945	8050	219	13214
16440AB	HOSE DERRICK PARTS FOR POL WHARFS.		AS REQUIRED	1.0	2	1	2709		104	104	208
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	10.0	50	100	52020	288	1150	518	1956
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	2.0	2	14	12884	104	414	173	691
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	4.0	4	52	37032	368	1472	598	2438
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	20.0	60	820	567680	3335	19550	10005	32890
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	16.0	64	3088	974752	5520	81696	36800	124016
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	8.0	56	120	93848	294	4204	1564	6062
84290AA	TANKER WATERING SERVICE FACILITIES,	1000 BBL	AS REQUIRED	1.0	8	28	18849		920	150	1070
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	15.0	105	120	21060	828	3830	3864	8522
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	8.0	16	16	2656	74	1104	442	1620
					4028	13486	6803933	20041	185772	80841	286654

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERMINAL,POL,200000 BARREL CAPAC W/50M WLDD TNKS,10M PA1145
AND 3M BLTD TANKS W/12 SUBM PPLN. TEMP,TROP & DST CLIMATE.
T-2 TANKER DISCHARGING W/24HR TURN AROUND TIME. MARINE TERM
W/5-LEG MOORING BERTH.12IN SUBMARINE PPLN,12IN INLAND PPLN
BOOSTER PMP STA & OPER BLDG.TANK FARM COMPLEX FOR STGE OF
& PROD. FOR RECEIVG 800000 BBLS/MO.MAX. REQUIRES 60 ACRES
FINE AGGR. 20CY. COARSE AGGR. 22CY. FIREFTG EQUIP. HAND EXT.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	1.0	26	23	97212	35	276	92	403
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	1.0	14	21	50497	23	414	115	552
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	4.0	28	56	65016	23	184	69	276
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	1.0	18	21	78664	52	397	81	530
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	1.0	9	32	4440	17	224	81	322
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	4.0	180	708	95916	184	4370	1932	6486
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	4.0	16	16	44460	46	1058	736	1840
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	4.0	108	224	216436	184	1288	368	1840
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	4.0	4	4	4984	37	239	92	368
12590AT	PPLN SUBMAR 12IN POL 60FT DEP 1 MI	5300FT-12IN	AS REQUIRED	1.0	275	322	96144	2070	2565	943	5578
16390AD	TNKR MOORING POL 5LEGS-60 FT DEPTH	5LEG 60FT DP	AS REQUIRED	1.0	98	254	169468	690	771	460	1921
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	3.0	15	30	15606	86	345	155	586
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	3.0	6	96	36132	311	1070	759	2140
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	4.0	12	164	113536	667	3910	2001	6578
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	3.0	12	579	182766	1035	15318	6900	23253
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	2.0	14	30	23462	74	1051	391	1516
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					868	2629	1312681	5868	35088	16456	57412

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERMINAL,POL,400000 BARREL CAPAC W/50M WLDD TNKS,10M AND 3M BLTD TANKS W/12 SUBM PPLN. TEMP,TROP & DST CLIMATE. T-2 OR SUPER TNK DISCHG W/13HR TURN AROUND TIME. MARINE TERM W/7-LEG MOORING BERTH. 12IN SUBMARINE PPLN, 12IN INLAND PPLN,BOOSTER PMP STA & OPER BLDG. TANK FARM COMPLEX FOR STGE OF 4 PROD. FOR RECEIVG 1500000 BBLS/MO.MAX.REQUIRES 121 ACRE FINE AGGR. 40CY. COARSE AGGR. 44CY. FIREFTG EQUIP. HAND EXT. PA1155

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	3.0	78	69	291636	104	828	276	1208
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	28	42	100994	46	828	230	1104
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	8.0	56	112	130032	46	368	138	552
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	2.0	36	42	157328	104	794	161	1059
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	2.0	18	64	8880	35	449	161	645
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	4.0	180	708	95916	184	4370	1932	6486
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	8.0	32	32	88920	92	2116	1472	3680
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	8.0	216	448	432872	368	2576	736	3680
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	4.0	4	4	5472	23	161	92	276
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	8.0	8	8	9968	74	478	184	736
12590AT	PPLN SUBMAR 12IN POL 60FT DEP 1 MI	5300FT-12IN	AS REQUIRED	1.0	275	322	96144	2070	2565	943	5578
16390AG	TNKR MOORING POL 7LEGS-60 FT DEPTH	7LEG 60FT DP	AS REQUIRED	1.0	136	351	235507	966	1035	644	2645
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	4.0	20	40	20808	115	460	207	782
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	2.0	2	14	12884	104	414	173	691
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	2.0	2	26	18516	184	736	299	1219
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	6.0	12	192	72264	621	2139	1518	4278
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	8.0	24	328	227072	1334	7820	4002	13156
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	6.0	24	1158	365532	2070	30636	13800	46506
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	4.0	28	60	46924	147	2102	782	3031
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	8.0	56	64	11232	442	2042	2061	4545
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	4.0	8	8	1328	37	552	221	810
					1243	4092	2430229	9166	63469	30032	102667

DESERT CLIMATE

MARINE TERMINAL,POL,40000 BARREL CAPAC W/50M WLDD TNKS,10M AND 3M BLTD TANKS W/12 SUBM PPLN. TEMP,TROP & DST CLIMATE. T-2 OR SUPER TNK DISCHG W/13HR TURN AROUND TIME. MARINE TERM W/7-LEG MOORING BERTH. 12IN SUBMARINE PPLN,12IN INLAND PPLN,BOOSTER PMP STA & OPER BLDG. TANK FARM COMPLEX FOR STGE OF 4 PROD. FOR RECIEVING 1500000 BBLS/MO.MAX. REQUIRES 121 ACRES. FINE AGGR. 40CY. COARSE AGGR. 44CY. FIREFTG EQUIP. PA1165

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR MORZ	EFFORT IN MANHOURS VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	3.0	78	69	291636	104	828	276	1208
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	28	42	100994	46	828	230	1104
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	8.0	56	112	130032	46	368	138	552
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	2.0	36	42	157328	104	794	161	1059
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	2.0	18	64	8880	35	449	161	645
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	12.0	540	2124	287748	552	13110	5796	19458
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	8.0	32	32	88920	92	2116	1472	3680
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	12.0	324	672	649308	552	3864	1104	5520
12530AH	LOADING PMP FOR 2TNK/TRK/5CAR INSTL	700X1400 BPH	AS REQUIRED	3.0	24	75	55329	35	293	86	414
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	4.0	4	4	5472	23	161	92	276
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	12.0	12	12	14952	110	718	276	1104
12590AT	PPLN SUBMAR 12IN POL 60FT DEP 1 MI	5300FT-12IN	AS REQUIRED	2.0	550	644	192288	4140	5129	1886	11155
16390AG	TNKR MOORING POL 7LEGS-60 FT DEPTH	7LEG 60FT DP	AS REQUIRED	1.0	136	351	235507	966	1035	644	2645
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	4.0	20	40	20808	115	460	207	782
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	2.0	2	14	12884	104	414	173	691
41180AE	TANK POL 1000 BARREL w/4 IN PIPE	1000 BBL	AS REQUIRED	2.0	2	26	18516	184	736	299	1219
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	6.0	12	192	72264	621	2139	1518	4278
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	8.0	24	328	227072	1334	7820	4002	13156
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	6.0	24	1158	365532	2070	30636	13800	46506
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	4.0	28	60	46924	147	2102	782	3031
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	8.0	56	64	11232	442	2042	2061	4545
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	4.0	8	8	1328	37	552	221	810
					2014	6133	2994954	11859	76594	35385	123838

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERMINAL,POL,1000000 BARREL CAPAC W/50M WLDD TNKS, PA1175
10M & 3M BLTD TANKS W/12 SUBM PPLN. TEMP,TROP & DST CLIMATE.
T-2 OR SUPER TANKER DISCHARGING W/13 HR TURN AROUND TIME.
MARINE TERM W/7-LEG MOORING BERTH.12IN SUBMARINE PPLN,12IN
INLAND PPLN,BOOSTER PMP STA & OPER BLDG.TANK FARM COMPLEX
FOR STGE OF 4 PROD. FOR RECEIVG 3000000 BBLS/MO.MAX. REQUIRE
307 ACRES. FINE AGGR. 80CY. COARSE AGGR. 88CY. FIREFTG EQUIP

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	5.0	130	115	486060	173	1380	460	2013
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	8.0	112	168	403976	184	3312	920	4416
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	16.0	112	224	260064	92	736	276	1104
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	4.0	72	84	314656	207	1587	322	2116
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	4.0	36	128	17760	69	897	322	1288
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	16.0	720	2832	383664	736	17480	7728	25944
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	24.0	96	96	266760	276	6368	4416	11060
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	16.0	432	896	865744	736	5152	1472	7360
12530AH	LOADING PMP FOR 2TNK/TRK/5CAR INSTL	700X1400 BPH	AS REQUIRED	5.0	40	125	92215	58	489	144	691
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	12.0	12	12	14952	110	718	276	1104
12590AT	PPLN SUBMAR 12IN POL 60FT DEP 1 MI	5300FT-12IN	AS REQUIRED	1.0	275	322	96144	2070	2565	943	5578
16390AG	TNKR MOORING POL 7LEGS-60 FT DEPTH	7LEG 60FT DP	AS REQUIRED	1.0	136	351	235507	966	1035	644	2645
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	10.0	50	100	52020	288	1150	518	1956
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	2.0	2	14	12884	104	414	173	691
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	4.0	4	52	37032	368	1472	598	2438
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	20.0	60	820	567680	3335	19550	10005	32890
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	16.0	64	3088	974752	5520	81696	36800	124016
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	8.0	56	120	93848	294	4204	1564	6062
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	15.0	105	120	21060	828	3830	3864	8522
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	8.0	16	16	2656	74	1104	442	1620
					2530	9683	5199434	16488	155119	71887	243494

DDEXER4 RUN DATE 860207

DESERT CLIMATE

MARINE TERMINAL,POL,1000000 BARREL CAPAC W/50M WLDD TNKS,10M PA1185
AND 3M BLTD TANKS W/12 SUBM PPLN. TEMP,TROP & DST CLIMATE.
T-2 OR SUPER TNKR DISCH W/13HR TURN AROUND TIME.MARINE TERM
W/7-LEG MOORING BERTH.12IN SUBMARINE PPLN,12IN INLAND PPLN,
BOOSTER PMP STA & OPER BLDG. TANK FARM COMPLEX FOR STGE OF
& PROD. FOR RECEIVING 3000000 BBLS/MO.MAX. REQUIRES ACRE
S. FINE AGGR. 80CY. COARSE AGGR. 88CY. FIREFTG EQUIP. HAND

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	5.0	130	115	486060	173	1380	460	2013
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	8.0	112	168	403976	184	3312	920	4416
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	16.0	112	224	260064	92	736	276	1104
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	4.0	72	84	314656	207	1587	322	2116
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	4.0	36	128	17760	69	897	322	1288
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	32.0	1440	5664	767328	1472	34960	15456	51888
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	24.0	96	96	266760	276	6348	4416	11040
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	32.0	864	1792	1731488	1472	10304	2944	14720
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	8.0	8	8	10946	46	322	184	552
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	12.0	12	12	14952	110	718	276	1104
12590AT	PPLN SUBMAR 12IN POL 60FT DEP 1 MI	5300FT-12IN	AS REQUIRED	2.0	550	644	192288	4140	5129	1886	11155
16390AG	TNKR MOORING POL 7LEGS-60 FT DEPTH	7LEG 60FT DP	AS REQUIRED	1.0	136	351	235507	966	1035	644	2645
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	10.0	50	100	52020	288	1150	518	1956
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	2.0	2	14	12884	104	414	173	691
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	4.0	4	52	37032	368	1472	598	2438
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	20.0	60	820	567680	3335	19550	10005	32890
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	16.0	64	3088	974752	5520	81696	36800	124016
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	8.0	56	120	93848	294	4204	1564	6062
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	15.0	105	120	21060	828	3830	3864	8522
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	8.0	16	16	2656	74	1104	442	1620
					3925	13616	6463715	20018	180148	82070	282236

DDEXER4 RUN DATE 860207

DESERT CLIMATE

150000 BBL TNK FARM BULK STGE WITH 8IN PIPE & ACCESSORIES PB1019
TEMPERATE,TROPIC,FRIGID & DESERT. USES 2-50M BBL AND 4-10M
&3-3M BLTD STEEL TANKS W/ 8IN PIPE, FITTINGS,PMPS MANIFOLDS,
OPERATIONS BLDG. WATER STGE TANK & SECURITY FENCING.
REQUIRES 26 ACRES. 10CY FINE AGGR. 11CY. COARSE AGGR. HAND
EXT. ONLY INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AC	8IN-SWITCH MNFLD F/TNK FARM W/O PMP	8-INCH	AS REQUIRED	1.0	16	16	19680	12	207	69	288
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	22	40	41254	46	644	184	874
12510AJ	TANK PMP POL 1400 BPH W/8 IN MANIFD	1400 BPH	AS REQUIRED	4.0	16	36	31748	23	161	46	230
12510AP	TRANS PMP POL 1400 BPH W/8 IN MNFD	1400 BPH	AS REQUIRED	1.0	12	16	16109	40	282	58	380
12510AV	PPLN POL 1000 FT OF 8 INCH GROOVE	1000FT-4IN	AS REQUIRED	1.0	6	15	9258	12	127	69	208
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	3.0	39	48	10500	35	690	483	1208
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	3.0	6	96	36132	311	1070	759	2140
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	4.0	12	160	80460	644	3910	1978	6532
41180AM	TANK POL 50000 BARREL W/8 IN PIPE	50000 BBL	AS REQUIRED	2.0	8	386	105694	690	10189	4600	15479
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	3.4	24	27	4774	188	868	876	1932
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					180	884	385200	2189	19514	9676	31379

DDEXER4 RUN DATE 860207

DESERT CLIMATE

200000 BBL TNK FARM BULK STGE WITH BIN PIPE & ACCESSORIES PB1029
TEMPERATE,TROPIC,FRIGID & DESERT. USES 3-50M BBL & 4-10M &3-
3M BLTD STEEL TANKS W/8IN PIPE,FITTINGS,PMPS,MANIFOLDS,
OPERATIONS BLDG. WATER STGE TANK & SECURITY FENCING. REQUIRE
11 ACRES. 10CY FINE AGGR. 11CY COARSE AGGR. HAND EXT. ONLY
INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AC	BIN-SWITCH MNFLD F/TNK FARM W/O PMP	8-INCH	AS REQUIRED	1.0	16	16	19680	12	207	69	288
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	22	40	41254	46	644	184	874
12510AP	TRANS PMP POL 1400 BPH W/8 IN MNFD	1400 BPH	AS REQUIRED	1.0	12	16	16109	40	282	58	380
12510AV	PPLN POL 1000 FT OF 8 INCH GROOVE	1000FT-4IN	AS REQUIRED	1.0	6	15	9258	12	127	69	208
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	4.0	52	64	14000	46	920	644	1610
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	3.0	6	96	36132	311	1070	759	2140
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	4.0	12	160	80460	644	3910	1978	6532
41180AM	TANK POL 50000 BARREL W/8 IN PIPE	50000 BBL	AS REQUIRED	3.0	12	579	158541	1035	15284	6900	23219
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AB	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	3.6	25	29	5056	199	919	927	2045
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					182	1059	410079	2533	24729	12142	39404

DDEXER4 RUN DATE 860207

DESERT CLIMATE

200000 BBL TNK FARM BULK STGE WITH 12IN PIPE & ACCESSORIES PB1039
TEMPERATE,TROPIC,FRIGID & DESERT. USES 3-50M BBL & 4-10M &
3-3M BBL STEEL TANKS W/12IN PIPE,FITTINGS,PMPS,MANIFOLDS,
OPERATIONS BLDG.WATER STORAGE TANK & SECURITY FENCING.
REQUIRES 11 ACRES. 10CY FINE AGGR. 11CY COARSE AGGR. HAND
EXT. ONLY INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	1.0	26	23	97212	35	276	92	403
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	28	42	100994	46	828	230	1104
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	4.0	28	56	65016	23	184	69	276
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	1.0	18	21	78664	52	397	81	530
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	1.0	9	32	4440	17	224	81	322
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	4.0	16	16	44460	46	1058	736	1840
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	3.0	6	96	36132	311	1070	759	2140
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	4.0	12	164	113536	667	3910	2001	6578
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	3.0	12	579	182766	1035	15318	6900	23253
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	3.6	25	29	5054	199	919	927	2045
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					199	1102	757865	2619	25550	12430	40599

DDEXER4 RUN DATE 860207

DESERT CLIMATE

250000 BBL TNK FARM BULK STGE WITH 8IN PIPE & ACCESSORIES PB1049
TEMPERATE,TROPIC,FRIGID & DESERT. USES 4-50M BBL & 5-10000
BBL BLTD STEEL TANKS W / 8IN PIPE, FITTINGS, PMPS MANIFOLDS
OPERATIONS BLDG.WATER STGE TANK & SECURITY FENCING. REQUIRES
28 ACRES. 10CY FINE AGGR. 11CY COARSE AGGR. HAND EXT. ONLY
INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AC	8IN-SWITCH MNFLD F/TNK FARM W/O PMP	8-INCH	AS REQUIRED	1.0	16	16	19680	12	207	69	288
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	22	40	41254	46	644	184	874
12510AJ	TANK PMP POL 1400 BPH W/8 IN MANIFD	1400 BPH	AS REQUIRED	4.0	16	36	31748	23	161	46	230
12510AP	TRANS PMP POL 1400 BPH W/8 IN MNFD	1400 BPH	AS REQUIRED	1.0	12	16	16109	40	282	58	380
12510AV	PPLN POL 1000 FT OF 8 INCH GROOVE	1000FT-4IN	AS REQUIRED	1.0	6	15	9258	12	127	69	208
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	6.0	78	96	21000	69	1380	966	2415
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	5.0	15	200	100575	805	4888	2473	8166
41180AM	TANK POL 50000 BARREL W/8 IN PIPE	50000 BBL	AS REQUIRED	4.0	16	772	211388	1380	20378	9200	30958
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					228	1267	486219	2796	30454	14649	47899

DDEXER4 RUN DATE 860207

DESERT CLIMATE

250000 BBL TNK FARM BULK STGE WITH 12IN PIPE & ACCESSORIES PB1059
TEMPERATE,TROPIC,FRIGID & DESERT. USES 4-50M BBL & 5-10000
BBL BLTD STEEL TANKS W/ IN PIPE, FITTINGS, PMPS MANIFOLDS,
OPERATIONS BLDG, WATER STGE TANK & SECURITY FENCING.REQUIRE
28 ACRES, 10CY FINE AGGR. 11CY COARSE AGGR. HAND EXT. ONLY
INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	1.0	26	23	97212	35	276	92	403
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	28	42	100994	46	828	230	1104
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	4.0	28	56	65016	23	184	69	276
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	1.0	18	21	78664	52	397	81	530
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	1.0	9	32	4440	17	224	81	322
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	6.0	24	24	66690	69	1587	1104	2760
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	5.0	15	205	141920	834	4888	2501	8223
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	4.0	16	772	243688	1380	20424	9200	31004
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					211	1251	833831	2865	31195	14942	49002

DDEXER4 RUN DATE 860207

DESERT CLIMATE

50000 BBL TNK FARM BULK STGE WITH 6IN PIPE & ACCESSORIES PB1069
TEMPERATE,TROPIC,FRIGID & DESERT. USES 4-10M BBL & 4-3M BBL
BOLTED STEEL TANKS W/ 6IN PIPE, FITTINGS, PMPS MANIFOLDS,
OPERATIONS BLDG. WATER STGE TANK & SECURITY FENCING.
REQUIRES 14 ACRES. 10CY FINE AGGR. 11CY COARSE AGGR. HAND EX
T. ONLY INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST.	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	GENL	TOT
12510AB	6IN-SWITCH MNFLD F/TNK FARM W/O PMP	6-INCH	AS REQUIRED	1.0	9	9	15561	12	123	58	243
12510AE	FLOOD PMP 785 BPH 6IN MANIFOLD	785 BPH	AS REQUIRED	2.0	20	38	43920	23	495	127	645
12510AH	TANK PMP POL 700 BPH W/6 IN MANIFD	700 BPH	AS REQUIRED	2.0	8	16	15484	12	81	23	116
12510AN	TRANS PMP POL 700 BPH W/6 IN MNFD	700 BPH	AS REQUIRED	1.0	11	15	18715	35	265	58	358
12510AU	PPLN POL 1000 FT OF 6 INCH GROOVE	1000FT-4IN	AS REQUIRED	1.0	6	11	5196	12	86	52	150
12510BJ	PPLN POL 1M FT OF 6 IN API GROOVE	1000 FT	AS REQUIRED	1.6	18	21	11621	9	212	129	350
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AG	TANK, POL, 3000 BARREL, W/6 IN PIPE	3000 BBL	AS REQUIRED	4.0	8	128	50152	414	1426	966	2806
41180AJ	TANK POL 10000 BARREL W/6 IN PIPE	10000 BBL	AS REQUIRED	4.0	8	160	82984	644	3910	1932	6486
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	3.4	24	27	4774	188	868	876	1932
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					131	469	277978	1537	8882	4775	15194

DDEXER4 RUN DATE 860207

DESERT CLIMATE

50000 BBL TNK FARM BULK STGE WITH 8IN PIPE & ACCESSORIES PB1079
TEMPERATE,TROPIC,FRIGID & DESERT. USES 4-10M BBL & 4-3M
BBL BOLTED STEEL TANKS W/ 8IN PIPE, FITTINGS,PMPS MANIFOLDS,
OPERATIONS BLDG. WATER STGE TANK & SECURITY FENCING.
REQUIRES 14 ACRES. 10CY FINE AGGR. 11CY COARSE AGGR. HAND EX
T. ONLY INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AC	8IN-SWITCH MNFLD F/TNK FARM W/O PMP	8-INCH	AS REQUIRED	1.0	16	16	19680	12	207	69	288
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	22	40	41254	46	644	184	874
12510AJ	TANK PMP POL 1400 BPH W/8 IN MANIFD	1400 BPH	AS REQUIRED	2.0	8	18	15874	12	81	23	116
12510AP	TRANS PMP POL 1400 BPH W/8 IN MNFD	1400 BPH	AS REQUIRED	1.0	12	16	16109	40	282	58	380
12510AV	PPLN POL 1000 FT OF 8 INCH GROOVE	1000FT-4IN	AS REQUIRED	1.0	6	15	9258	12	127	69	208
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	1.6	21	26	5600	18	368	258	644
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	4.0	8	128	48176	414	1426	1012	2852
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	4.0	12	160	80460	644	3910	1978	6532
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	3.4	24	27	4774	188	868	876	1932
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					148	490	270776	1574	9279	5081	15934

DDEXER4 RUN DATE 860207

DESERT CLIMATE

100000 BBL TNK FARM BULK STGE WITH 6IN PIPE & ACCESSORIES PB1089
TEMPERATE,TROPIC,FRIGID & DESERT. USES 9-10M BBL & 4-3M BBL
BOLTED STEEL TANKS W/6 IN PIPE, FITTINGS, PMPS MANIFOLDS,
OPERATIONS BLDG. WATER STGE TANK & SECURITY FENCING.REQUIRES
23 ACRES. 10CY FINE AGGR. 11CY COARSE AGGR. HAND EXT. ONLY
INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AB	6IN-SWITCH MNFLD F/TNK FARM W/O PMP	6-INCH	AS REQUIRED	1.0	9	9	15561	12	173	58	243
12510AE	FLOOD PMP 785 BPH 6IN MANIFOLD	785 BPH	AS REQUIRED	2.0	20	38	43920	23	495	127	645
12510AH	TANK PMP POL 700 BPH W/6 IN MANIFD	700 BPH	AS REQUIRED	5.0	20	40	38710	29	201	58	288
12510AN	TRANS PMP POL 700 BPH W/6 IN MNFD	700 BPH	AS REQUIRED	1.0	11	15	18715	35	265	58	358
12510AU	PPLN POL 1000 FT OF 6 INCH GROOVE	1000FT-4IN	AS REQUIRED	2.0	12	22	10392	23	173	104	300
12510BJ	PPLN POL 1M FT OF 6 IN API GROOVE	1000 FT	AS REQUIRED	3.0	33	39	21789	17	397	242	656
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AG	TANK, POL, 3000 BARREL, W/6 IN PIPE	3000 BBL	AS REQUIRED	4.0	8	128	50152	414	1426	966	2806
41180AJ	TANK POL 10000 BARREL W/6 IN PIPE	10000 BBL	AS REQUIRED	9.0	18	360	186714	1449	8798	4347	14594
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.2	29	36	5897	232	1072	1082	2386
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					179	729	421421	2422	14366	7596	24384

DDEXER4 RUN DATE 860207

DESERT CLIMATE

100000 BBL TNK FARM BULK STGE WITH 8IN PIPE & ACCESSORIES PB1099
TEMPERATE,TROPIC,FRIGID & DESERT. USES 9-10M & 4-3M
BBL BOLTED STEEL TANKS W/8 IN PIPE, FITTINGS,PMPS MANIFOLDS,
OPERATIONS BLDG. WATER STGE TANK & SECURITY FENCING.
REQUIRES 23 ACRES. 10CY FINE AGGR. 10CY COARSE AGGR. HAND EX
T. ONLY INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AC	8IN-SWITCH MNFLD F/TNK FARM W/O PMP	8-INCH	AS REQUIRED	1.0	16	16	19680	12	207	69	288
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	22	40	41254	46	644	184	874
12510AJ	TANK PMP POL 1400 BPH W/8 IN MANIFD	1400 BPH	AS REQUIRED	5.0	20	45	39685	29	201	58	288
12510AP	TRANS PMP POL 1400 BPH W/8 IN MNFD	1400 BPH	AS REQUIRED	1.0	12	16	16109	40	282	58	380
12510AV	PPLN POL 1000 FT OF 8 INCH GROOVE	1000FT-4IN	AS REQUIRED	2.0	12	30	18516	23	253	138	414
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	3.0	39	48	10500	35	690	483	1208
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	4.0	8	128	48176	414	1426	1012	2852
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	9.0	27	360	181035	1449	8798	4451	14698
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.2	29	34	5897	232	1072	1082	2386
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					204	761	410443	2468	14939	8089	25496

DDEXER4 RUN DATE 860207

DESERT CLIMATE

150000 BBL TNK FARM BULK STGE WITH 8IN PIPE & ACCESSORIES PB1109
TEMPERATE,TROPIC,FRIGID & DESERT. USES 14-10M & 4-3M
BBL BOLTED STEEL TANKS W/8IN PIPE,FITTINGS,PMPS MANIFOLDS
OPERATIONS BLDG-WATER STGE TANK & SECURITY FENCING.
REQUIRES 31 ACRES. 10CY FINE AGGR. 11CY COARSE AGGR. HAND EX
T. ONLY INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AC	8IN-SWITCH MNFLD F/TNK FARM W/O PMP	8-INCH	AS REQUIRED	1.0	16	16	19680	12	207	69	288
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	22	40	41254	46	644	184	874
12510AJ	TANK PMP POL 1400 BPH W/8 IN MANIFD	1400 BPH	AS REQUIRED	4.0	16	36	31748	23	161	46	230
12510AP	TRANS PMP POL 1400 BPH W/8 IN MNFD	1400 BPH	AS REQUIRED	1.0	12	16	16109	40	282	58	380
12510AV	PPLN POL 1000 FT OF 8 INCH GROOVE	1000FT-4IN	AS REQUIRED	3.0	18	45	27774	35	380	207	622
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	4.0	52	64	14000	46	920	644	1610
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	4.0	8	128	48176	414	1426	1012	2852
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	14.0	42	560	281610	2256	13685	6923	22862
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.5	32	36	6318	268	1149	1159	2556
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					237	985	516260	3306	20220	10856	34382

DDEXER4 RUN DATE 860207

DESERT CLIMATE

200000 BBL TNK FARM BULK STGE WITH 8IN PIPE & ACCESSORIES PB1119
TEMPERATE,TROPIC,FRIGID & DESERT. USES 19-10M & 4-3M BBL
BOLTED STEEL TANKS W/8 IN PIPE,FITTINGS,PMPS MANIFOLDS,
OPERATIONS BLDG. WATER STGE TANK & SECURITY FENCING.REQUIRES
31 ACRES, 10CY FINE AGGR. 11CY COARSE AGGR. HAND EXT. ONLY
INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AC	8IN-SWITCH MNFLD F/TNK FARM W/O PMP	8-INCH	AS REQUIRED	1.0	16	16	19680	12	207	69	288
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	22	40	41254	46	644	184	874
12510AJ	TANK PMP POL 1400 BPH W/8 IN MANIFD	1400 BPH	AS REQUIRED	4.0	16	36	31768	23	161	46	230
12510AP	TRANS PMP POL 1400 BPH W/8 IN MNFD	1400 BPH	AS REQUIRED	1.0	12	16	16109	40	282	58	380
12510AV	PPLN POL 1000 FT OF 8 INCH GROOVE	1000FT-4IN	AS REQUIRED	1.0	6	15	9258	12	127	69	208
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	6.0	78	96	21000	69	1380	966	2415
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	4.0	8	128	48176	414	1426	1012	2852
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	19.0	57	760	382185	3059	18573	9396	31028
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	5.0	35	40	7020	276	1277	1288	2841
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					269	1191	606021	4139	25443	13642	43224

DDEXER4 RUN DATE 860207

DESERT CLIMATE

200000 BBL TNK FARM BULK STGE WITH 12IN PIPE & ACCESSORIES PB1129
TEMPERATE,TROPIC,FRIGID & DESERT. USES 19-10M & 4-3M BBL
BOLTED STEEL TANKS W/12IN PIPE,FITTINGS,PMPS MANIFOLDS,
OPERATIONS BLDG. WATER STGE TANK & SECURITY FENCING.
REQUIRES 31 ACRES. 10CY FINE AGGR. 11CY COARSE AGGR. HAND EX
T. ONLY INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	1.0	26	23	97212	35	276	92	403
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	28	42	100994	46	828	230	1104
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	4.0	28	56	65016	23	184	69	276
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	1.0	18	21	78664	52	397	81	530
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	.2	3	3	700	2	46	32	80
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	6.0	24	24	66690	69	1587	1104	2760
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	4.0	8	128	48176	414	1426	1012	2852
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	19.0	57	779	539296	3168	18573	9505	31246
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	5.0	35	40	7020	276	1277	1288	2841
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					246	1160	1033359	4273	25960	13967	44200

DDEXER4 RUN DATE 860207

DESERT CLIMATE

250000 BBL TNK FARM BULK STGE WITH 8IN PIPE & ACCESSORIES PB1139
TEMPERATE,TROPIC,FRIGID & DESERT. USES 24-10M & 4-3M
BEL BOLTED STEEL TANKS W/ 8IN PIPE,FITTINGS,PMPS
MANIFOLDS,OPERATIONS BLDG, WATER STGE TANK & SECURITY
FENCING. REQUIRES ACRES. 10CY FINE AGGR. 11CY COARSE AGGR.
HAND EXT. ONLY INCLUDED W/INSTALLATION AS FIREFIGHTING EQUI
P.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AC	8IN-SWITCH MNFLD F/TNK FARM W/O PMP	8-INCH	AS REQUIRED	1.0	16	16	19680	12	207	69	288
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	22	40	41254	46	644	184	874
12510AJ	TANK PMP POL 1400 BPH W/8 IN MANIFD	1400 BPH	AS REQUIRED	5.0	20	45	39685	29	201	58	288
12510AP	TRANS PMP POL 1400 BPH W/8 IN MNFD	1400 BPH	AS REQUIRED	1.0	12	16	16109	40	282	58	380
12510AV	PPLN POL 1000 FT OF 8 INCH GROOVE	1000FT-4IN	AS REQUIRED	2.0	12	30	18516	23	253	138	414
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	7.0	91	112	24500	81	1610	1127	2818
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	4.0	8	128	48176	414	1426	1012	2852
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	24.0	72	960	482760	3864	23460	11868	39192
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	5.0	35	40	7020	276	1277	1288	2841
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					307	1431	727291	4973	30726	16356	52055

DDEXER4 RUN DATE 860207

DESERT CLIMATE

250000 BBL TNK FARM BULK STGE WITH 12 IN PIPE & ACCESSORIES PB1149
TEMPERATE,TROPIC,FRIGID & DESERT. USES 24-10M & 4-3M BBL
BOLTED STEEL TANKS W/12IN PIPE,FITTINGS,PMPS MANIFOLDS,
OPERATIONS BLDG.WATER STGE TANK & SECURITY FENCING. REQUIRES
30 ACRES. 10CY FINE AGGR. 11CY COARSE AGGR. HAND EXT. ONLY
INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	1.0	26	23	97212	35	276	92	403
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	2.0	28	42	100994	46	828	230	1104
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	5.0	35	70	81270	29	230	86	345
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	1.0	18	21	78664	52	397	81	530
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	2.0	18	64	8880	35	449	161	645
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	7.0	28	28	77805	81	1852	1288	3221
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	2.0	2	2	2736	12	81	46	139
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	4.0	8	128	48176	414	1426	1012	2852
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	24.0	72	984	681216	4002	23460	12006	39468
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	5.0	35	40	7020	276	1277	1288	2841
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					287	1444	1210828	5158	31561	16798	53517

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SYSTEM TANK FARM,MODULAR INSTALLATION 6INCH LINE PB1159
50000 BBL

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	12.0	108	312	328176	883	2098	662	3643
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	5.0	40	155	315675	368	874	276	1518
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12506AA	PPL BBL CLEANER ASSY.6IN		AS REQUIRED	1.0	4	4	6995	21	123	52	196
12510BN	PPLN POL 1 MILE- 6 IN API GROVE	1 MILE	AS REQUIRED	2.0	118	126	89200	92	1196	667	1955
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	4.0	8	128	48176	414	1426	1012	2852
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	4.0	12	160	80460	644	3910	1978	6532
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					345	981	911514	2951	12355	6349	21655

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SYSTEM TANK FARM,MODULAR INSTALLATION 8INCH LINE PB1169
100000 BBL

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	17.0	153	642	464916	1251	2972	938	5161
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	5.0	40	155	315675	368	874	276	1518
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12506AB	PPL BBL CLEANER ASSY.8IN		AS REQUIRED	1.0	5	4	6737	21	123	52	196
12510BP	PPLN POL 1 MILE- 8 IN API GROVE	1 MILE	AS REQUIRED	2.0	142	162	38414	184	1702	805	2691
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 B3L	AS REQUIRED	1.0	1	7	6442	52	207	86	345
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	4.0	8	128	48176	414	1426	1012	2852
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	9.0	27	360	181035	1449	8798	4451	14698
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AB	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					430	1347	1097785	4216	18623	9236	32075

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SYSTEM TANK FARM,MODULAR INSTALLATION 8INCH LINE PB1179
150000 BBL

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	13.0	117	338	355524	957	2272	718	3947
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	5.0	40	155	315675	368	874	276	1518
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12506AB	PPL BBL CLEANER ASSY.8IN		AS REQUIRED	1.0	5	4	6737	21	123	52	196
12510BP	PPLN POL 1 MILE- 8 IN API GROVE	1 MILE	AS REQUIRED	2.0	142	162	38414	184	1702	805	2691
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	3.0	6	96	36132	311	1070	759	2140
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	4.0	12	160	80460	644	3910	1978	6532
41180AM	TANK POL 50000 BARREL W/8 IN PIPE	50000 BBL	AS REQUIRED	2.0	8	386	105694	690	10189	4600	15479
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	1.0	7	8	1404	55	255	258	568
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					363	1366	970814	3486	21895	10032	35413

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SYSTEM TANK FARM,MODULAR INSTALLATION 10INCH LINE PB1189
200000 BBL

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	14.0	126	364	382872	1030	2447	773	4250
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	5.0	40	155	315675	368	874	276	1518
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12506AC	PIPELN BBL CLEANER TRAP 10IN IN-OUT		AS REQUIRED	1.0	7	13	8851	21	123	52	196
12510CD	PIPELN,1MILE,10IN GRVD STL API PIPE		AS REQUIRED	2.0	196	350	60464	230	2082	978	3290
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	3.0	6	96	36132	311	1070	759	2140
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	4.0	12	160	80460	644	3910	1978	6532
41180AM	TANK POL 50000 BARREL W/8 IN PIPE	50000 BBL	AS REQUIRED	3.0	12	579	158541	1035	15284	6900	23219
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					454	1813	1085827	4168	28518	13418	46104

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SYSTEM TANK FARM,MODULAR INSTALLATION 10INCH LINE PB1199
250000 BBL

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	18.0	162	468	492264	1325	3146	994	5465
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12506AC	PIPELN BBL CLEANER TRAP 10IN IN-OUT		AS REQUIRED	1.0	7	13	8851	21	123	52	196
12510CD	PIPELN,1MILE,10IN GRVD STL API PIPE		AS REQUIRED	2.0	196	350	60464	230	2082	978	3290
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	4.0	8	128	48176	414	1426	1012	2852
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	5.0	15	200	100575	805	4888	2473	8166
41180AM	TANK POL 50000 BARREL W/8 IN PIPE	50000 BBL	AS REQUIRED	4.0	16	772	211388	1380	20378	9200	30958
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					459	2027	964550	4704	34771	16411	55886

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SYSTEM TANK FARM,MODULAR INSTALLATION 6INCH LINE PB1209
21000 BBL

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	11.0	99	286	300828	810	1923	607	3340
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	5.0	40	155	315675	368	874	276	1518
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12506AA	PPL BBL CLEANER ASSY.6IN		AS REQUIRED	1.0	4	4	6995	21	123	52	196
12510BN	PPLN POL 1 MILE- 6 IN API GROVE	1 MILE	AS REQUIRED	2.0	118	126	89200	92	1196	667	1955
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	7.0	14	224	84308	725	2496	1771	4992
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					330	891	839838	2545	9340	5075	16960

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SYSTEM TANK FARM,MODULAR INSTALLATION 8INCH LINE PB1219
43000 BBL

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	12.0	108	312	328176	883	2098	662	3643
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	5.0	40	155	315675	368	874	276	1518
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12506AB	PPL BBL CLEANER ASSY.8IN		AS REQUIRED	1.0	5	4	6737	21	123	52	196
12510BP	PPLN POL 1 MILE- 8 IN API GROVE	1 MILE	AS REQUIRED	2.0	142	162	38414	184	1702	805	2691
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	5.0	10	160	60220	518	1783	1265	3566
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	3.0	9	120	60345	483	2933	1484	4900
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					369	1009	852399	2986	12241	6246	21473

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SYSTEM TANK FARM,MODULAR INSTALLATION 8INCH LINE PB1229
45000 BBL

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	12.0	108	312	328176	883	2098	662	3643
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	5.0	40	155	315675	368	874	276	1518
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12506AB	PPL BBL CLEANER ASSY.8IN		AS REQUIRED	1.0	5	4	6737	21	123	52	196
12510BP	PPLN POL 1 MILE- 8 IN API GROVE	1 MILE	AS REQUIRED	2.0	142	162	38414	184	1702	805	2691
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	5.0	10	160	60220	518	1783	1265	3566
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	5.0	15	200	100575	805	4888	2473	8166
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AK	FENCE,CORNER POST 10 FT HI BARB WIR		AS REQUIRED	4.0	4	4	508	41	64	64	169
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					351	1061	887521	3128	13239	6269	22636

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SYSTEM TANK FARM MODULAR INSTALLATION 10INCH LINE, 85000 BBL. PB1239

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	16.0	144	416	437568	1178	2797	883	4858
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	5.0	40	155	315675	368	874	276	1518
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12506AC	PIPELN BBL CLEANER TRAP 10IN IN-OUT		AS REQUIRED	1.0	7	13	8851	21	123	52	196
12510CD	PIPELN,1MILE,10IN GRVD STL API PIPE		AS REQUIRED	2.0	196	350	60464	230	2082	978	3290
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	2.0	2	26	18516	184	736	299	1219
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	5.0	10	160	60220	518	1783	1265	3566
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	7.0	21	280	140805	1127	6843	3462	11432
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					472	1481	1075341	4054	17460	8712	30226

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SYSTEM TANK FARM MODULAR INSTALLATION 10INCH LINE, 110000 BBL. PB1249

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	GENL	TOT
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	17.0	153	642	666916	1251	2972	938	5161
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	5.0	40	155	315675	368	874	276	1518
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	76	175	55	304
12506AC	PIPELN BBL CLEANER TRAP 10IN IN-OUT		AS REQUIRED	1.0	7	13	8851	21	123	52	196
12510CD	PIPELN,1MILE,10IN GRVD STL API PIPE		AS REQUIRED	2.0	196	350	60464	230	2082	978	3290
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	4.0	8	128	48176	414	1426	1012	2852
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	10.0	30	400	201150	1610	9775	4945	16330
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					489	1584	1142064	4423	19980	9903	34306

DDEXER4 RUN DATE 860207

DESERT CLIMATE

400000 BBL CAPACITY TANK FARM COMPLEX BULK STGE OF 4 PROD. PC1019
TEMPERATE,TROPIC,DESERT & FRIGID CLIM. W/6IN-INLAND PPLN,
BOOSTER PMP STA.& OPER BLDG. CONSISTS OF 2-200000 BBL TANK
FARMS MADE UP OF 6 50BBL WLDD,8-10M & 6-3M BARREL BLTD STL
TANKS,WATER SUPPLY TANK & SECURITY FENCING. REQUIRES 110ACRE
300CY FINE AGGR, 33CY COARSE AGGR, HAND EXT, ONLY INCLUDED
W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AB	6IN-SWITCH MNFLD F/TNK FARM W/O PMP	6-INCH	AS REQUIRED	1.0	9	9	15541	12	173	58	243
12510AC	8IN-SWITCH MNFLD F/TNK FARM W/O PMP	8-INCH	AS REQUIRED	2.0	32	32	39360	23	414	138	575
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	4.0	44	80	82508	92	1288	368	1748
12510AJ	TANK PMP POL 1400 BPH W/8 IN MANIFD	1400 BPH	AS REQUIRED	8.0	32	72	63496	46	322	92	460
12510AP	TRANS PMP POL 1400 BPH W/8 IN MNFD	1400 BPH	AS REQUIRED	2.0	24	32	32218	81	564	115	760
12510AV	PPLN POL 1000 FT OF 6 INCH GROOVE	1000FT-4IN	AS REQUIRED	2.0	12	30	18516	23	253	138	414
12510BA	PPLN POL 1 MILE OF 6 INCH GROOVE	1MILE-6INCH	AS REQUIRED	4.0	120	200	128832	138	1472	1012	2622
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	8.0	104	128	28000	92	1840	1288	3220
12530AE	BOOSTER STATION POL 1400 BPH	1400 BPH	AS REQUIRED	4.0	52	112	108604	184	437	161	782
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	8.0	8	8	10944	46	322	184	552
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	4.0	20	40	20808	115	460	207	782
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	2.0	2	26	18516	184	736	299	1219
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	6.0	12	192	72264	621	2139	1518	4278
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	8.0	24	320	160920	1288	7820	3956	13064
41180AM	TANK POL 50000 BARREL W/8 IN PIPE	50000 BBL	AS REQUIRED	6.0	24	1158	317082	2070	30567	13800	46437
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	3.0	21	45	35193	110	1577	587	2274
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	7.1	50	57	9968	392	1813	1829	4034
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	4.0	8	8	1328	37	552	221	810
					598	2549	1164098	5554	52749	25971	84274

DDEXER4 RUN DATE 860207

DESERT CLIMATE

400000 BBL CAPACITY TANK FARM COMPLEX BULK STGE OF 4 PROD. PC1029
TEMPERATE,TROPIC,DESERT & FRIGID. W/8IN-INLAND PPLN,BOOSTER
PMP STAT.& OPER BLDG. CONSISTS OF 2-200000 BBL TANK FARMS
MADE UP OF 6 50M WELDED, 8-10M & 6 3M BARREL BLTD STL TANKS,
WATER SUPPLY TANK & SECURITY FENCING. REQUIRES 110 ACRES
30CY FINE AGGR. 33CY COARSE AGGR. HAND EXT. INCLUDED W/INSTA
LLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AC	8IN-SWITCH MNFLD F/TNK FARM W/O PMP	8-INCH	AS REQUIRED	3.0	48	48	59040	35	621	207	863
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	4.0	44	80	82508	92	1288	368	1748
12510AJ	TANK PMP POL 1400 BPH W/8 IN MANIFD	1400 BPH	AS REQUIRED	8.0	32	72	63496	46	322	92	460
12510AP	TRANS PMP POL 1400 BPH W/8 IN MNFD	1400 BPH	AS REQUIRED	2.0	24	32	32218	81	564	115	760
12510AV	PPLN POL 1000 FT OF 8 INCH GROOVE	1000FT-4IN	AS REQUIRED	2.0	12	30	18516	23	253	138	414
12510BB	PPLN POL 1 MILE OF 8 INCH GROOVE	1 MILE-8INCH	AS REQUIRED	8.0	288	696	302376	368	4140	2944	7452
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	8.0	104	128	28000	92	1840	1288	3220
12530AF	BOOSTER STATION POL 2800 BPH	2800 BPH	AS REQUIRED	8.0	112	232	216560	368	874	322	1564
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	12.0	12	12	16416	69	483	276	828
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	4.0	20	40	20808	115	460	207	782
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	2.0	2	26	18516	184	736	299	1219
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	6.0	12	192	72264	621	2139	1518	4278
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	8.0	24	320	160920	1288	7820	3956	13064
41180AM	TANK POL 50000 BARREL W/8 IN PIPE	50000 BBL	AS REQUIRED	6.0	24	1158	317082	2070	30567	13800	46437
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	3.0	21	45	35193	110	1577	587	2274
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	7.1	50	57	9968	392	1813	1829	4034
					829	3168	1453881	5954	55497	27946	89397

DDEXER4 RUN DATE 860207

DESERT CLIMATE

400000 BBL CAPACITY TANK FARM COMPLEX BULK STGE OF 4 PROD. PC1039
TEMPERATE,TROPIC,DESERT & FRIGID. W/12IN-INLAND PPLN,
BOOSTER PMP STA.& OPER BLDG.CONSISTS OF 2-2000000 BBL TANK
FARMS MADE UP OF 6-50M WELDED,8-10M & 6-3M BARREL BLTD STL
TANKS,WATER SUPPLY TANK & SECURITY FENCING REQUIRES 110ACRES
30CY FINE AGGR. 33CY COARSE AGGR. HAND EXT. ONLY INCLUDED
W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	3.0	78	69	291636	104	828	276	1208
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	4.0	56	84	201988	92	1656	460	2208
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	8.0	56	112	130032	46	368	138	552
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	2.0	36	42	157328	104	794	161	1059
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	2.0	18	64	8880	35	449	161	645
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	8.0	360	1416	191832	368	8740	3864	12972
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	8.0	32	32	88920	92	2116	1472	3680
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	8.0	216	448	432872	368	2576	736	3680
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	4.0	4	4	5472	23	161	92	276
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	8.0	8	8	9968	74	478	184	736
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	4.0	20	40	20808	115	460	207	782
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	2.0	2	26	18516	184	736	299	1219
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	6.0	12	192	72264	621	2139	1518	4278
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	8.0	24	328	227072	1334	7820	4002	13156
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	6.0	24	1158	365532	2070	30636	13800	46506
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	3.0	21	45	35193	110	1577	587	2274
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	8.0	56	64	11232	442	2042	2061	4545
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	4.0	8	8	1328	37	552	221	810
					1031	4140	2270873	6219	64128	30239	100586

DDEXER4 RUN DATE 860207

DESERT CLIMATE

600000 BBL CAPACITY TANK FARM COMPLEX BULK STGE OF 4 PROD. PC1049
TEMPERATE,TROPIC,DESERT & FRIGID. W/8IN-INLAND PPLN,BOOSTER
PMP STA.& OPER BLDG. CONSISTS OF 3-200000 BBL TANK FARMS
MADE UP OF 9-50M WELDED,12-10M & 9-3M BARREL BLTD STL
TANKS,WATER SUPPLY TANK & SECURITY FENCING. REQUIRES 188
ACRES. 50CY FINE AGGR. 55CY COARSE AGGR. HAND EXT. ONLY INCL
UDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AC	8IN-SWITCH MNFLD F/TNK FARM W/O PMP	8-INCH	AS REQUIRED	4.0	64	64	78720	46	828	276	1150
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	6.0	66	120	123762	138	1932	552	2622
12510AJ	TANK PMP POL 1400 BPH W/8 IN MANIFD	1400 BPH	AS REQUIRED	12.0	48	108	95244	69	483	138	690
12510AP	TRANS PMP POL 1400 BPH W/8 IN MNFD	1400 BPH	AS REQUIRED	3.0	36	48	48327	121	845	173	1139
12510AV	PPLN POL 1000 FT OF 8 INCH GROOVE	1000FT-4IN	AS REQUIRED	3.0	18	45	27774	35	380	207	622
12510BB	PPLN POL 1 MILE OF 8 INCH GROOVE	1 MILE-8INCH	AS REQUIRED	18.0	648	1566	680346	828	9315	6624	16767
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	12.0	156	192	42000	138	2760	1932	4830
12530AF	BOOSTER STATION POL 2800 BPH	2800 BPH	AS REQUIRED	12.0	168	348	324840	552	1311	483	2346
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	6.0	6	6	8208	35	242	138	415
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	6.0	6	6	7476	55	359	138	552
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	6.0	30	60	31212	173	690	311	1174
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	3.0	3	39	27774	276	1104	449	1829
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	9.0	18	288	108396	932	3209	2277	6418
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	12.0	36	480	241380	1932	11730	5934	19596
41180AM	TANK POL 50000 BARREL W/8 IN PIPE	50000 BBL	AS REQUIRED	9.0	36	1737	475623	3105	45851	20700	69656
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	5.0	35	75	58655	184	2628	978	3790
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	10.7	75	86	15023	591	2732	2756	6079
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	6.0	12	12	1992	55	828	331	1214
					1461	5280	2396752	9265	87227	44397	140889

DESERT CLIMATE

600000 BBL CAPACITY TANK FARM COMPLEX BULK STGE OF 4 PROD. PC1059
TEMPERATE,TROPIC,DESERT & FRIGID. W/12IN-INLAND PPLN,
BOOSTER PMP STA.& OPER BLDG. CONSISTS OF 3-200000 BBL TANK
FARMS MADE UP OF 9-50M WELDED,12-10M & 9-3M BARREL BLTD STL
TANKS,WATER SUPPLY TANK & SECURITY FENCING. REQUIRES 188
ACRES. 50CY FINE AGGR. 55CY COARSE AGGR. HAND EXT. ONLY INCL
UDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	4.0	104	92	388848	138	1104	368	1610
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	6.0	84	126	302982	138	2484	690	3312
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	12.0	84	168	195048	69	552	207	828
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	3.0	54	63	235992	155	1190	242	1587
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	3.0	27	96	13320	52	673	242	967
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	18.0	810	3186	431622	828	19665	8694	29187
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	12.0	48	48	133380	138	3174	2208	5520
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	12.0	324	672	649308	552	3864	1104	5520
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	6.0	6	6	8208	35	242	138	415
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	12.0	12	12	14952	110	718	276	1104
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	6.0	30	60	31212	173	690	311	1174
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	3.0	3	39	27774	276	1104	449	1829
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	9.0	18	288	108396	932	3209	2277	6418
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	12.0	36	492	340608	2001	11730	6003	19734
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	9.0	36	1737	548298	3105	45954	20700	69759
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	5.0	35	75	58655	184	2628	978	3790
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	10.7	75	86	15023	591	2732	2756	6079
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	6.0	12	12	1992	55	828	331	1214
					1798	7258	3505618	9532	102541	47974	160047

DDEXER4 RUN DATE 860207

DESERT CLIMATE

800000 BBL CAPACITY TANK FARM COMPLEX BULK STGE OF 4 PROD. PC1069
TEMPERATE,TROPIC,DESERT & FRIGID. W/8 IN-INLAND PPLN,
BOOSTER PMP STA. & OPER BLDG. CONSISTS OF 4-200000 BBL TANK
FARMS MADE UP OF 12-50M WELDED\16-10M & 12-3M BARREL BLTD
TANKS,WATER SUPPLY TANK & SECURITY FENCING. REQUIRES 267
ACRES. 70CY FINE AGGR. 77CY AGGR. HAND EXT. ONLY INCLUDED
W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AC	8IN-SWITCH MNFLD F/TNK FARM W/O PMP	8-INCH	AS REQUIRED	5.0	80	80	98600	58	1035	345	1438
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	8.0	88	160	165016	184	2576	736	3496
12510AJ	TANK PMP POL 1400 BPH W/8 IN MANIFD	1400 BPH	AS REQUIRED	16.0	64	144	126992	92	644	184	920
12510AP	TRANS PMP POL 1400 BPH W/8 IN MNFD	1400 BPH	AS REQUIRED	4.0	48	64	64436	161	1127	230	1518
12510AV	PPLN POL 1000 FT OF 8 INCH GROOVE	1000FT-4IN	AS REQUIRED	4.0	24	60	37032	46	506	276	828
12510BB	PPLN POL 1 MILE OF 8 INCH GROOVE	1 MILE-8INCH	AS REQUIRED	24.0	864	2088	907128	1104	12420	8832	22356
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	16.0	208	256	56000	184	3680	2576	6440
12530AF	BOOSTER STATION POL 2800 BPH	2800 BPH	AS REQUIRED	24.0	336	696	649680	1104	2622	966	4692
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	8.0	8	8	10944	46	322	184	552
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	12.0	12	12	14952	110	718	276	1104
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	10.0	50	100	52020	288	1150	518	1956
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	4.0	4	52	37032	368	1472	598	2438
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	12.0	24	384	144528	1242	4278	3036	8556
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	16.0	48	640	321840	2576	15640	7912	26128
41180AM	TANK POL 50000 BARREL W/8 IN PIPE	50000 BBL	AS REQUIRED	12.0	48	2316	634164	4140	61134	27600	92874
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	7.0	49	105	82117	258	3679	1369	5306
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	14.2	99	114	19937	784	3625	3658	8067
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	8.0	16	16	2656	74	1104	442	1620
					2070	7295	3424874	12819	117732	59738	190289

DDEXER4 RUN DATE 860207

DESERT CLIMATE

800000 BBL CAPACITY TANK FARM COMPLEX BULK STGE OF 4 PROD. TEMPERATE,TROPIC,DESERT & FRIGID. W/12IN-INLAND PPLN, BOOSTER PMP STA.& OPER BLDG. CONSISTS OF 4-200000 BBL TANK FARMS MADE UP OF 12-50M WELDED,16-10M & 12-3M BARREL BLTD STL TANKS, WATER SUPPLY TANK & SECURITY FENCING. REQUIRES 267 ACRES. 70CY FINE AGGR. 77CY COARSE AGGR. HAND EXT. ONLY INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP. PC1079

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	5.0	130	115	486060	173	1380	460	2013
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	8.0	112	168	403976	184	3312	920	4416
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	16.0	112	224	260064	92	736	276	1104
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	4.0	72	84	314656	207	1587	322	2116
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	4.0	36	128	17760	69	897	322	1288
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	24.0	1080	4248	575496	1104	26220	11592	38916
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	16.0	64	64	177840	184	4232	2944	7360
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	24.0	648	1344	1298616	1104	7728	2208	11040
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	8.0	8	8	10944	46	322	184	552
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	24.0	24	24	29904	221	1435	552	2208
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	10.0	50	100	52020	288	1150	518	1956
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	4.0	4	52	37032	368	1472	598	2438
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	12.0	24	384	144528	1242	4278	3036	8556
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	16.0	48	656	454144	2668	15640	8004	26312
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	12.0	48	2316	731064	4140	61272	27600	93012
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	7.0	49	105	82117	258	3679	1369	5306
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	14.2	99	114	19937	784	3625	3658	8067
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	8.0	16	16	2656	74	1104	442	1620
					2624	10150	5098814	13206	140069	65005	218280

DDEXER4 RUN DATE 860207

DESERT CLIMATE

1000000 BBL CAPACITY TANK FARM COMPLEX BULK STGE OF 4 PROD. PC1089
TEMPERATE,TROPIC,DESERT & ERIGID. W/8 IN-INLAND PPLN,
BOOSTER PMP STA.& OPER BLDG. CONSISTS OF 4-250000 BBL TANK
FARMS MADE UP OF 16-50M WELDED, AND TWENTY 10 THOUSAND BLTD
STL TANKS,WATER SUPPLY TANK & SECURITY FENCING.REQUIRES 263
ACRES. 70CY FINE AGGR. 77CY COARSE AGGR. HAND EXT. ONLY INCL
UDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AC	8IN-SWITCH MNFLD F/TNK FARM W/O PMP	8-INCH	AS REQUIRED	5.0	80	80	98400	58	1035	345	1438
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	8.0	88	160	165016	184	2576	736	3496
12510AJ	TANK PMP POL 1400 BPH W/8 IN MANIFD	1400 BPH	AS REQUIRED	16.0	64	144	126992	92	644	184	920
12510AP	TRANS PMP POL 1400 BPH W/8 IN MNFD	1400 BPH	AS REQUIRED	4.0	48	64	64436	161	1127	230	1518
12510AV	PPLN POL 1000 FT OF 8 INCH GROOVE	1000FT-4IN	AS REQUIRED	4.0	24	60	37032	46	506	276	828
12510BB	PPLN POL 1 MILE OF 8 INCH GROOVE	1 MILE-8INCH	AS REQUIRED	24.0	864	2088	907128	1104	12420	8832	22356
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	24.0	312	384	84000	276	5520	3864	9660
12530AF	BOOSTER STATION POL 2800 BPH	2800 BPH	AS REQUIRED	24.0	336	696	649680	1104	2622	966	4692
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	8.0	8	8	10944	46	322	184	552
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	12.0	12	12	14952	110	718	276	1104
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	10.0	50	100	52020	288	1150	518	1956
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	4.0	4	52	37032	368	1472	598	2438
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	20.0	60	800	402300	3220	19550	9890	32660
41180AM	TANK POL 50000 BARREL W/8 IN PIPE	50000 BBL	AS REQUIRED	16.0	64	3088	845552	5520	81512	36800	123832
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	7.0	49	105	82117	258	3679	1369	5306
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	15.0	105	120	21060	828	3830	3864	8522
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	8.0	16	16	2656	74	1104	442	1620
					2184	7977	3601317	13737	139787	69374	222898

DDEXER4 RUN DATE 860207

DESERT CLIMATE

1000000 BBL CAPACITY TANK FARM COMPLEX BULK STGE OF 4 PROD. PC1099
TEMPERATE,TROPIC,DESERT & FRIGID. W/12IN-INLAND PPLN,
BOOSTER PMP STA.& OPER BLDG.CONSISTS OF 4-250000 BBL TANK
FARMS MADE UP OF 12-50M WELDED AND TWENTY 10 THOUSAND BLTD
STL TANKS,WATER SUPPLY TANK & SECURITY FENCING. REQUIRES 263
ACRES, 70CY FINE AGGR, 77CY COARSE AGGR, HAND EXT. ONLY INCL
UDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AD	12IN SWITCH MNFLD F/TNK FARM NO PMP	12-INCH	AS REQUIRED	5.0	130	115	486060	173	1380	460	2013
12510AG	FLOOD PMP 1355BPH 12 IN MANIFOLD	1355 BPH	AS REQUIRED	8.0	112	168	403976	184	3312	920	4416
12510AK	TANK PMP POL 2800 BPH W/12IN MANIFD	2800 BPH	AS REQUIRED	16.0	112	224	260064	92	736	276	1104
12510AR	TRANS PMP POL 2800 BPH W/12 IN MNFD	2800 BPH	AS REQUIRED	4.0	72	84	314656	207	1587	322	2116
12510AW	PPLN POL 1000 FT OF 12 INCH GROOVE	1000FT-12IN	AS REQUIRED	4.0	36	128	17760	69	897	322	1288
12510BC	PPLN POL 1 MILE OF 12 INCH GROOVE	1MILE-12INCH	AS REQUIRED	24.0	1080	4248	575496	1104	26220	11592	38916
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	24.0	96	96	266760	276	6348	4416	11040
12530AG	BOOSTER STATION POL 7000 BPH	7000 BPH	AS REQUIRED	24.0	648	1344	1298616	1104	7728	2208	11040
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	8.0	8	8	10944	46	322	184	552
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	24.0	24	24	29904	221	1435	552	2208
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	10.0	50	100	52020	288	1150	518	1956
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	4.0	4	52	37032	368	1472	598	2438
41180AL	TANK POL 10000 BARREL W/12 IN PIPE	10000 BBL	AS REQUIRED	20.0	60	820	567680	3335	19550	10005	32890
41180AN	TANK POL 50000 BARREL W/12 IN PIPE	50000 BBL	AS REQUIRED	16.0	64	3088	974752	5520	81696	36800	124016
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	7.0	49	105	82117	258	3679	1369	5306
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	15.0	105	120	21060	828	3830	3864	8522
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	8.0	16	16	2656	74	1104	442	1620
					2666	10740	5401553	14147	162446	74848	251441

DDEXER4 RUN DATE 860207

DESERT CLIMATE

4000 BBL CAPACITY TANK FARM COMPLEX BULK STGE OF 4 PROD. PC1109
TEMPERATE,TROPIC,DESERT & FRIGID. W/6 IN-INLAND PPLN,BOOSTER
PMP STA.& OPER BLDG.CONSISTS XF 2-200000 BBL TANK FARMS MADE
UP OF 38-10 THOUSAND AND EIGHT 3 THOUSAND BL D S 1 TANKS,
WATER SUPPLY TANK & SECURITY FENCING. REQUIRES 110 ACRES
20CY FINE AGGR. 22CY COARSE AGGR. HAND EXT. ONLY INCLUDED
W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AB	6IN-SWITCH MNFLD F/TNK FARM W/O PMP	6-INCH	AS REQUIRED	1.0	9	9	15541	12	173	58	243
12510AC	8IN-SWITCH MNFLD F/TNK FARM W/O PMP	8-INCH	AS REQUIRED	2.0	32	32	39360	23	414	138	575
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	4.0	44	80	82508	92	1288	368	1748
12510AJ	TANK PMP POL 1400 BPH W/8 IN MANIFD	1400 BPH	AS REQUIRED	8.0	32	72	63496	46	322	92	460
12510AP	TRANS PMP POL 1400 BPH W/8 IN MNFD	1400 BPH	AS REQUIRED	2.0	24	32	32218	81	564	115	760
12510AV	PPLN POL 1000 FT OF 8 INCH GROOVE	1000FT-4IN	AS REQUIRED	2.0	12	30	18516	23	253	138	414
12510BA	PPLN POL 1 MILE OF 6 INCH GROOVE	1MILE-6INCH	AS REQUIRED	4.0	120	200	128832	138	1472	1012	2622
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	12.0	156	192	42000	138	2760	1932	4830
12530AE	BOOSTER STATION POL 1400 BPH	1400 BPH	AS REQUIRED	4.0	52	112	108604	184	437	161	782
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	8.0	8	8	10944	46	322	184	552
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	4.0	20	40	20808	115	460	207	782
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	2.0	2	26	18516	184	736	299	1219
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	8.0	16	256	96352	828	2852	2024	5704
41180AK	TANK POL 10000 BARREL W/8 IN PIPE	10000 BBL	AS REQUIRED	38.0	114	1520	764370	6118	37145	18791	62054
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	3.0	21	45	35193	110	1577	587	2274
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	10.0	70	80	14040	552	2553	2576	5681
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	4.0	8	8	1328	37	552	221	810
					740	2742	1492626	8727	53880	28903	91510

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL PIPELINE,41M 8MILES,WITH 355 BPH PUMP. PD1019
STATION FOR TEMP,TROP,DST & FRIGID CLIMATE. TRANSFER OF POL
PRODUCTS AT RATE OF 7000 BBL/DAY. REQUIRES 97 ACRES. 2 CY F
INE AGGR. 2 CY COARSE AGGR. ONLY HAND EXT. INCLUDED WITH INS
TALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510BD	PPLN POL 5 MILE OF 4 INCH GROOVE	5 MILES-4 IN	AS REQUIRED	1.0	61	110	61704	58	1265	828	2151
12510BM	PPLN POL 1 MILE- 4 IN API GROVE	1 MILE	AS REQUIRED	3.0	102	69	96474	104	1449	966	2519
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
12530AM	PUMP STATION POL FOR 4 IN PIPELINE	385 BPH	AS REQUIRED	1.0	5	86	80584	40	115	40	195
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	.3	2	2	421	17	77	77	171
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					178	280	246085	263	3199	2041	5503

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL PIPELINE,61M 17MILES,WITH 785 BPH PUMP. PD1029
STATION FOR TEMP,TROP,DST & FRIGID CLIMATE. TRANSFER OF POL
PRODUCTS AT RATE OF 15000 BBL/DAY. REQUIRES 206 ACRES. 2 CY
FINE AGGR. 2 CY COARSE AGGR. ONLY HAND EXT. INCLUDED WITH IN
STALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510BE	PPLN POL 5 MILE OF 6 INCH GROOVE	5 MILES-6 IN	AS REQUIRED	3.0	441	717	476826	173	5003	3795	8971
12510BN	PPLN POL 1 MILE- 6 IN API GROVE	1 MILE	AS REQUIRED	2.0	118	126	89200	92	1196	667	1955
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
12530AN	PUMP STATION POL FOR 6 IN PIPELINE	789 BPH	AS REQUIRED	1.0	9	171	155992	40	247	104	391
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	.4	3	3	562	22	102	103	227
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					575	1027	730600	397	6953	4833	12183

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL PIPELINE 81M 17MILES,WITH 1355 BPH PUMP. PD1039
STATION FOR TEMP,TROP,DST & FRIGID CLIMATE. TRANSFER OF POL
PRODUCTS AT RATE OF 27000 BBL/DAY. REQUIRES 206 ACRES. 2 CY
FINE AGGR. 2 CY COARSE AGGR. ONLY HAND EXT. INCLUDED WITH IN
STALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510BF	PPLN POL 5 MILE OF 8 INCH GROOVE	5 MILES-8 IN	AS REQUIRED	3.0	546	1296	595626	173	5348	3657	9178
12510BP	PPLN POL 1 MILE- 8 IN API GROVE	1 MILE	AS REQUIRED	2.0	142	162	38414	184	1702	805	2691
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
12530AP	PUMP STATION POL FOR 8 IN PIPELINE	1355 BPH	AS REQUIRED	1.0	32	63	62452	46	276	127	449
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	.4	3	3	562	22	102	103	227
87210AT	VEH-MAN GAT, FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					727	1534	705074	495	7833	4856	13184

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SHORE BOOSTER STATION,6INCH LINE,1800 BPH PUMP. PD1049

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12471AA	TANKS, COLLAPSIBLE W/EQUIPMENT, POL	5-10000GAL	AS REQUIRED	1.0	7	22	69987	12	63	17	92
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	2.0	18	52	54696	147	350	110	607
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	1.0	8	31	63135	74	175	55	304
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12505AA	FILTER COALESCER,W/10IN PIPE		AS REQUIRED	1.0	9	32	75000	74	175	55	304
12506AA	PPL BBL CLEANER ASSY.6IN		AS REQUIRED	1.0	4	4	6995	21	123	52	196
12510BJ	PPLN POL 1M FT OF 6 IN API GROOVE	1000 FT	AS REQUIRED	2.0	22	26	16526	12	265	161	438
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	3.0	39	48	10500	35	690	483	1208
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					158	289	301517	754	3876	2344	6974

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SHORE BOOSTER STATION,8INCH LINE,3600 BPA PUMP. PD1059

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12471AA	TANKS, COLLAPSIBLE W/EQUIPMENT, POL	5-100000GAL	AS REQUIRED	1.0	7	22	49987	12	63	17	92
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	3.0	27	78	82044	221	524	166	911
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	2.0	16	62	126270	147	350	110	607
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12505AA	FILTER COALESCER,W/10IN PIPE		AS REQUIRED	1.0	9	32	75000	74	175	55	304
12506AB	PPL BBL CLEANER ASSY.8IN		AS REQUIRED	1.0	5	4	6737	21	123	52	196
12510BK	PPLN POL 1M ET OF 8 IN API GROOVE	1000 FT	AS REQUIRED	2.0	26	32	7000	23	460	322	805
12510CC	PIPELN,1000FT,10IN GRVD STL API PI		AS REQUIRED	3.0	54	93	17256	35	742	518	1295
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					191	394	392212	935	4564	2685	8184

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SHORE BOOSTER STATION,8INCH LINE,5400 BPH PUMP. PD1069

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12471AA	TANKS, COLLAPSIBLE W/EQUIPMENT, POL	5-10000GAL	AS REQUIRED	1.0	7	22	49987	12	63	17	92
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	4.0	36	104	109392	294	699	221	1214
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	2.0	16	62	126270	147	350	110	607
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12505AA	FILTER COALESCER,W/10IN PIPE		AS REQUIRED	1.0	9	32	75000	74	175	55	304
12506AB	PPL BBL CLEANER ASSY.8IN		AS REQUIRED	1.0	5	4	6737	21	123	52	196
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	2.0	26	32	7000	23	460	322	805
12510CC	PIPELN,1000FT,10IN GRVD STL API PI		AS REQUIRED	3.0	54	93	17256	35	742	518	1295
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					200	420	419560	1008	4739	2740	8487

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SHORE BOOSTER STATION,10INCH LINE 7200 BPH PUMP. PD1079

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12471AA	TANKS, COLLAPSIBLE W/EQUIPMENT, POL	5-10000GAL	AS REQUIRED	1.0	7	22	49987	12	63	17	92
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	7.0	63	182	191436	515	1224	386	2125
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	4.0	32	124	252540	294	699	221	1214
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12505AA	FILTER COALESCER,W/10IN PIPE		AS REQUIRED	1.0	9	32	75000	74	175	55	304
12506AC	PIPELN BBL CLEANER TRAP 10IN IN-OUT		AS REQUIRED	1.0	7	13	8851	21	123	52	196
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	3.0	12	12	33345	35	794	552	1381
12510CC	PIPELN,1000FT,10IN GRVD STL API PI		AS REQUIRED	2.0	36	62	11504	23	495	345	863
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					213	524	653397	1416	5861	3137	10414

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL SHORE BOOSTER STATION,10INCH LINE 9000 BPH PUMP. PD1089

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12671AA	TANKS, COLLAPSIBLE W/EQUIPMENT, POL	5-10000GAL	AS REQUIRED	1.0	7	22	49987	12	63	17	92
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	8.0	72	208	218784	589	1398	442	2429
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	4.0	32	124	252540	296	699	221	1216
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12505AA	FILTER COALESCER,W/10IN PIPE		AS REQUIRED	1.0	9	32	75000	74	175	55	304
12506AC	PIPELN BBL CLEANER TRAP 10IN IN-OUT		AS REQUIRED	1.0	7	13	8851	21	123	52	196
12510BL	PPLN POL 1M FT OF 12 IN API GROVE	1000 FT	AS REQUIRED	3.0	12	12	33365	35	794	552	1381
12510CC	PIPELN,1000FT,10IN GRVD STL API PI		AS REQUIRED	2.0	36	62	11504	23	495	345	863
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	1.0	1	1	1246	9	60	23	92
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					222	550	680745	1690	6035	3193	10718

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL PIPELINE PUMPING STATION,6INCH LINE 1800 BPH PUMP. PD1149

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12471AA	TANKS, COLLAPSIBLE W/EQUIPMENT, POL	5-10000GAL	AS REQUIRED	1.0	7	22	49987	12	63	17	92
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	2.0	18	52	54696	147	350	110	607
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	1.0	8	31	63135	74	175	55	304
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12506AA	PPL BBL CLEANER ASSY,6IN		AS REQUIRED	1.0	4	4	6995	21	123	52	196
12510BJ	PPLN POL 1M FT OF 6 IN API GROOVE	1000 FT	AS REQUIRED	1.0	11	13	7263	6	132	81	219
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	1.0	5	10	5202	29	115	52	196
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					99	196	208876	636	2858	1726	5220

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL PIPELINE PUMPING STATION,8INCH LINE 3600 BPH PUMP. PD1159

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12471AA	TANKS, COLLAPSIBLE W/EQUIPMENT, POL	5-10000GAL	AS REQUIRED	1.0	7	22	49987	12	63	17	92
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	3.0	27	78	82044	221	524	166	911
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	2.0	16	62	126270	147	350	110	607
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12506AB	PPL BBL CLEANER ASSY.8IN		AS REQUIRED	1.0	5	4	6737	21	123	52	196
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	1.0	13	16	3500	12	230	161	403
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					113	253	296578	812	3397	1951	6160

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL PIPELINE PUMPING STATION,8INCH LINE 5400 BPH PUMP. PD1169

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12471AA	TANKS, COLLAPSIBLE W/EQUIPMENT, POL	5-10000GAL	AS REQUIRED	1.0	7	22	49987	12	63	17	92
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	4.0	36	104	109392	294	699	221	1214
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	2.0	16	62	126270	147	350	110	607
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12506AB	PPL BBL CLEANER ASSY.8IN		AS REQUIRED	1.0	5	4	6737	21	123	52	196
12510AK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	1.0	13	16	3500	12	230	161	403
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					124	279	323926	885	3572	2006	6463

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL PIPELINE PUMPING STATION,10INCH LINE 7200 BPH PUMP. PD1179

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12471AA	TANKS, COLLAPSIBLE W/EQUIPMENT, POL	5-10000GAL	AS REQUIRED	1.0	7	22	69987	12	63	17	92
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	7.0	63	182	191436	515	1224	386	2125
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	4.0	32	124	252540	294	699	221	1214
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12506AC	PIPELN BBL CLEANER TRAP 10IN IN-OUT		AS REQUIRED	1.0	7	13	8851	21	123	52	196
12510CC	PIPELN,1000FT,10IN GRVD STL API PI		AS REQUIRED	1.0	18	31	5752	12	247	173	432
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					174	443	536606	1253	4463	2294	8010

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL PIPELINE PUMPING STATION,10INCH LINE 9000 BPH PUMP. PD1189

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12471AA	TANKS, COLLAPSIBLE W/EQUIPMENT, POL	5-10000GAL	AS REQUIRED	1.0	7	22	49987	12	63	17	92
12502AA	PMP,CENTR,1050GPM,850FTHD W/8IN MAN		AS REQUIRED	8.0	72	208	218784	589	1398	442	2429
12503AA	SWITCHING MAN 8/10IN W/3-WAY VALVES		AS REQUIRED	4.0	32	124	252540	294	699	221	1214
12504AA	METER,TURBINE,6IN,1050GPM W/10IN PI		AS REQUIRED	1.0	8	14	2551	74	175	55	304
12506AC	PIPELN BBL CLEANER TRAP 10IN IN-OUT		AS REQUIRED	1.0	7	13	8851	21	123	52	196
12510CC	PIPELN,1000FT,10IN GRVD STL API PI		AS REQUIRED	1.0	18	31	5752	12	247	173	432
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	1.0	1	1	1368	6	40	23	69
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	AS REQUIRED	1.0	1	7	6442	52	207	86	345
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	4.0	28	32	5616	221	1021	1030	2272
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	1.0	2	2	332	9	138	55	202
					183	469	563954	1327	4637	2350	8314

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL PIPELINE PUMP STATION.ONE 6 INCH DIESEL DRIVEN PUMP,19 MILES OF 6 INCH PIPE AND TUBING,785 BPH CAPABILITY. PD1259

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510BA	PPLN POL 1 MILE OF 6 INCH GROOVE	1MILE-6INCH	AS REQUIRED	2.0	60	100	64416	69	736	506	1311
12510BE	PPLN POL 5 MILE OF 6 INCH GROOVE	5 MILES-6 IN	AS REQUIRED	3.0	441	717	476826	173	5003	3795	8971
12510BN	PPLN POL 1 MILE- 6 IN API GROVE	1 MILE	AS REQUIRED	2.0	118	126	89200	92	1196	667	1955
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	2 UNIT	1.0	1	1	1368	6	40	23	69
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	4 UNIT	1.0	1	1	1266	9	60	23	92
12530AR	PUMP STA POL 6IN LINE 1 PUMP 600GPM	600 GPM	785 BPH	1.0	9	48	41366	209	1012	368	1589
41180AA	TANK, POL, 100 BARREL, W/4 IN PIPE	100 BBL	100 BBL	2.0	6	32	11256	58	173	69	300
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	500 BBL	1.0	1	7	6442	52	207	86	345
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	20FTX40FT	1.0	7	15	11731	37	526	196	759
72321BC	LAT PIT TYPE FEMALE 2 SEATS 10X10	10X10X8FT	2 SEAT FEMALE	1.0	5	6	1028		129	18	147
81240AB	ELEC DISTR POL PUMP STA 6 IN LINE	2	AS REQUIRED	1.0	3	6	14092	81	276	175	532
84330AD	FIREFIGHT SYS EQP FOAM,POL 3000GAL		AS REQUIRED	1.0	1	5	17434		37		37
85110CJ	ROAD PAVEMENT,CLASS C,STAB SURFACE		ONE LANE	.4	177	119	884	57		18	75
85130KB	ROAD,CLASS C,GRADED AND DRAINED 1MI		ONE LANE	.4	1	2	538	1185		748	1933
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	TYPE Y	2.0	14	16	2808	110	511	515	1136
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	MAN/VEH	6.0	12	12	1992	55	828	331	1214
					857	1213	742627	2193	10734	7538	20465

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL PIPELINE PUMP STATION.TWO 6 INCH DIESEL DRIVEN PUMPS,19 MILES OF 6 INCH PIPE AND TUBING,1570 BPA CAPABILITY. PD1269

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510BA	PPLN POL 1 MILE OF 6 INCH GROOVE	1MILE-6INCH	AS REQUIRED	2.0	60	100	64416	69	736	506	1311
12510BE	PPLN POL 5 MILE OF 6 INCH GROOVE	5 MILES-6 IN	AS REQUIRED	3.0	441	717	476826	173	5003	3795	8971
12510BN	PPLN POL 1 MILE- 6 IN API GROVE	1 MILE	AS REQUIRED	2.0	118	126	89200	92	1196	667	1955
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	2 UNIT	1.0	1	1	1368	6	40	23	69
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	4 UNIT	1.0	1	1	1246	9	60	23	92
12530AT	PUMP STA POL 6IN TWO PUMPS 1200 GPM	1200 GPM	785 BPH	1.0	14	92	76277	235	1198	442	1875
41180AA	TANK, POL, 100 BARREL, W/4 IN PIPE	100 BBL	100 BBL	2.0	6	32	11256	58	173	69	300
41180AC	TANK, POL, 500 BARREL, W/4 IN PIPE	500 BBL	500 BBL	1.0	1	7	6442	52	207	86	345
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	20FTX40FT	1.0	7	15	11731	37	526	196	759
72321BC	LAT PIT TYPE FEMALE 2 SEATS 10X10	10X10X8FT	2 SEAT FEMALE	1.0	5	6	1028		129	18	147
81240AB	ELEC DISTR POL PUMP STA 6 IN LINE	2	AS REQUIRED	1.0	3	6	14092	81	276	175	532
84330AD	FIREFIGHT SYS EQP FOAM,POL 3000GAL		AS REQUIRED	1.0	1	5	17434		37		37
85110CJ	ROAD PAVEMENT,CLASS C,STAB SURFACE		ONE LANE	.4	177	119	884	57		18	75
85130KB	ROAD,CLASS C,GRADED AND DRAINED 1MI		ONE LANE	.4	1	2	538	1185		748	1933
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	TYPE Y	2.0	14	16	2808	110	511	515	1136
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	MAN/VEH	6.0	12	12	1992	55	828	331	1214
					862	1257	777538	2219	10920	7612	20751

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL TANK TRUCK LOADING STATION.2 STATIONS,4-UNITS. PE1019
TEMP,TROP,DST & FRIGID CLIM. LOAD 5000 GALLON TRUCKS AT RATE
OF TWENTY TRUCKS/DAY/PRODUCT. TANKS,PPLNS,MANIFOLDS,PUMPS,
OPERATIONS BLDG TO HANDLE 4 PRODUCTS OR LESS. REQUIRES 40 AC
RES. 185 CY FINE AGGR. 290 CY COARSE AGGR. ONLY HAND EXT. IN
CLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510AE	FLOOD PMP 785 BPH 6IN MANIFOLD	785 BPH	AS REQUIRED	1.0	10	19	21960	12	247	63	322
12510AL	DIST MNFLD F/DRUM & CAN LOADG INSTL	785BPH,6-IN	AS REQUIRED	1.0	1	1	1792	6	52	12	70
12510AT	PPLN POL 1000 FT OF 4 INCH GROOVE	1000FT-4IN	AS REQUIRED	1.0	3	5	2498	12	85	41	138
12510BA	PPLN POL 1 MILE OF 6 INCH GROOVE	1MILE-6INCH	AS REQUIRED	8.0	240	400	257664	276	2944	2024	5244
12510BJ	PPLN POL 1M FT OF 6 IN API GROOVE	1000 FT	AS REQUIRED	2.0	22	26	16526	12	265	161	438
12530AH	LOADING PMP FOR 2TNK/TRK/5CAR INSTL	700X1400 BPH	AS REQUIRED	4.0	32	100	73772	46	391	115	552
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	3.0	3	3	6106	17	121	69	207
12630AA	LDG FACIL FOR TWO FUEL TRUCKS	2-STATION	AS REQUIRED	1.0	12	12	13862	173	374	1213	1760
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	3.0	15	30	15606	86	345	155	586
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AG	TANK, POL, 3000 BARREL, W/6 IN PIPE	3000 BBL	AS REQUIRED	8.0	16	256	100304	828	2852	1932	5612
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AB	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	2.7	19	22	3791	149	689	696	1534
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					385	906	531532	1764	9535	6937	18236

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL TANK CAR LOADING STATION,5 STATIONS. PE1029
TEMP,TROP,DST & FRIGID CLIM. LOAD FIFTEEN 10 THOUSAND GALLON RAILWAY TANK CARS PER DAY. PROVIDES TANKS,PPLNS,MANIFOLDS, PUMPS,OPERATIONS BLDG TO HANDLE 4 PRODUCTS OR LESS. REQUIRES 41 ACRES. 185CY FINE AGGR. 290CY COARSE AGGR. ONLY HAND EXT INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12510AE	FLOOD PMP 785 BPH 6IN MANIFOLD	785 BPH	AS REQUIRED	1.0	10	19	21960	12	247	63	322
12510AL	DIST MNFLD F/DRUM & CAN LOADG INSTL	785BPH,6-IN	AS REQUIRED	1.0	1	1	1792	6	52	12	70
12510AT	PPLN POL 1000 FT OF 4 INCH GROOVE	1000FT-4IN	AS REQUIRED	1.0	3	5	2498	12	85	41	138
12510BA	PPLN POL 1 MILE OF 6 INCH GROOVE	1MILE-6INCH	AS REQUIRED	8.0	240	400	257664	276	2944	2024	5244
12510BJ	PPLN POL 1M FT OF 6 IN API GROOVE	1000 FT	AS REQUIRED	2.0	22	26	14526	12	265	161	438
12530AH	LOADING PMP FOR 2TNK/TRK/5CAR INSTL	700X1400 BPH	AS REQUIRED	4.0	32	100	73772	46	391	115	552
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	3.0	3	3	4106	17	121	69	207
12640AA	TANK CAR LOADING, POL, FOR LOADING	5-TANK CARS	AS REQUIRED	1.0	35	61	53557	598	1840	4025	6463
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	3.0	15	30	15606	86	345	155	586
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AG	TANK, POL, 3000 BARREL, W/6 IN PIPE	3000 BBL	AS REQUIRED	8.0	16	256	100304	828	2852	1932	5612
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	2.7	19	22	3791	149	689	696	1534
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					408	955	571227	2189	11001	9749	22939

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL TANK CAR LOADING STATION 10 STATIONS. PE1039
TEMP,TROP,DST & FRIGID CLIM. LOAD THIRTY 10 THOUSAND GALLON
RAILWAY TANK CARS PER DAY. PROVIDES TANKS,PPLNS,MANIFOLDS,
PUMPS,OPERATIONS BLDG TO HANDLE 4 PRODUCTS OR LESS. REQUIRES
42 ACRES. 185CY FINE AGGR. 290CY COARSE AGGR. ONLY HAND EXT
. INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR HORZ	EFFORT VERT	IN MANHOURS GENL	TOT
12510AF	FLOOD PMP 1355BPH 8IN MANIFOLD	1355 BPH	AS REQUIRED	1.0	11	20	20627	23	322	92	437
12510AM	DIST MNFLD F/10STA-TNK CAR LDG INST	10STATION	AS REQUIRED	1.0	2	2	2464	6	52	12	70
12510AT	PPLN POL 1000 FT OF 4 INCH GROOVE	1000FT-4IN	AS REQUIRED	1.0	3	5	2498	12	85	41	138
12510BB	PPLN POL 1 MILE OF 8 INCH GROOVE	1 MILE-8INCH	AS REQUIRED	8.0	288	696	302376	368	4140	2944	7452
12510BJ	PPLN POL 1M FT OF 6 IN API GROOVE	1000 FT	AS REQUIRED	2.0	22	26	14526	12	265	161	438
12510BK	PPLN POL 1M FT OF 8 IN API GROOVE	1000 FT	AS REQUIRED	.5	7	8	1750	6	115	81	202
12530AJ	LOADING PMP FOR 10TNK/CAR INSTL	2000-2500BPH	AS REQUIRED	4.0	56	164	111960	69	506	207	782
12530AK	PUMP STATION FUEL SUPPLY, POL, FOR	2-UNIT	AS REQUIRED	3.0	3	3	4104	17	121	69	207
12640AB	TANK CAR LOADING, POL, FOR LOADING	10-TANK CARS	AS REQUIRED	1.0	74	75	71174	782	2392	5244	8418
41180AB	TANK, POL, 250 BARREL, W/4 IN PIPE	250 BBL	AS REQUIRED	3.0	15	30	15606	86	345	155	586
41180AE	TANK POL 1000 BARREL W/4 IN PIPE	1000 BBL	AS REQUIRED	1.0	1	13	9258	92	368	150	610
41180AH	TANK, POL, 3000 BARREL, W/8 IN PIPE	3000 BBL	AS REQUIRED	8.0	16	256	96352	828	2852	2024	5704
161050BF	HQTRS & UNIT SUPPLY&GO STL FR	20X40X8FT	AS REQUIRED	1.0	7	15	11731	37	526	196	759
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	2.7	19	22	3791	149	689	696	1534
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					528	1339	668881	2505	13054	12182	27741

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL TANK CAR UNLOADING STATION,5 STATIONS. PE1049
TEMP,TROP,DST & FRIGID CLIM. UNLOADS UP TO FIFTY 10000 GALLO
N RAILWAY TANK CARS /10HR DAY. PROVIDES TANKS,PPLNS,MANIFOLD
S,PUMPS,OPERATIONS BLDG TO HANDLE 4 PRODUCTS OR LESS. REQUIR
ES 27 ACRES. 2CY FINE AGGR. 3CY COARSE AGGR. ONLY HAND EXT.
INCLUDED W/INSTALLATION AS FIREFIGHTING EQUIP.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12645AA	FUEL TRANSFER, POL, TANK CAR UNLOAD	5 STA-2 PROD	AS REQUIRED	1.0	45	67	79691	63	426	161	650
87210AR	SECURITY FENCE TYPE Y 1000 FEET	1000 FEET	AS REQUIRED	1.0	7	8	1404	55	255	258	568
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	AS REQUIRED	2.0	4	4	664	18	276	110	404
					56	79	81759	136	957	529	1622

DDEXER4 RUN DATE 860207

DESERT CLIMATE

POL TANK CAR LOADING STATION. 2 STATIONS,4-UNIT. PE1059
TEMP,TROP,DST & FRIGID CLIM. PROVIDES TANK TRUCK LOADING FOR
2 STATION AT TANK FARM. THE EXISTING FUEL STORAGE TANKS OF
TANK FARM ARE CONNECTED TO THE LOADING STAND. LOADS 5000 GAL
. TRUCKS AT RATE OF 20 TRUCKS/DAY/PRODUCT. LINES FOR 4 PROD.
REAL EST. REQUIREMENT 4 ACRES. 6CY FINE AGGR. 12CY COARSE
AGGR. ONLY HAND EXT. INCLUDED W/INSTALLATION AS FIREFIGHTING

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
12510BJ	PPLN POL 1M FT OF 6 IN API GROOVE	1000 FT	AS REQUIRED	2.0	22	26	16526	12	265	161	438
12530AH	LOADING PMP FOR 2TNK/TRK/5CAR INSTL	700X1400 BPH	AS REQUIRED	4.0	32	100	73772	46	391	115	552
12530AL	PUMP STATION FUEL SUPPLY, POL, FOR	4-UNIT	AS REQUIRED	2.0	2	2	2492	18	120	46	184
12630AA	LDG FACIL FOR TWO FUEL TRUCKS	2-STATION	AS REQUIRED	1.0	12	12	13862	173	374	1213	1760
					68	140	104652	249	1150	1535	2934

DDEXER4 RUN DATE 860207

DESERT CLIMATE

TEMPERATE CLIMATE,/TACTICAL/POL/50M BBL STOC COEC W/6IN SUBM PPLN &6 BUOYANT HOSELINE FOR TKR DISCHARGE/TEM/TROP & DST CLIM. DISCHARGE AND TRANSFER CAPACITY OF 600 GPM AND STOR. OF 3 PROD OR LESS/MOGAS. JP-4 & DIESEL FUEL). REQUIRES 160 ACRES. PF1015

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	CONSTR EFFORT IN MANHOURS VERT	CONSTR EFFORT IN MANHOURS GENL	CONSTR EFFORT IN MANHOURS TOT
12665AN	MARINE TERM 50M BBL STOR CAP	50000 BBL	AS REQUIRED	1.0	6	250	575092	2645	4255	1794	8694
85190AA	ROAD BEACH 2 LN PORT MAT SURF 1 MI		ACCESS ROAD	.4	197	120	49913		414	879	1293
87190AB	CLEARING AND GRUBBING ONE ACRE		SITE PREP.	160.0				6256		6624	12880
87210AY	TRIPLE STANDARD CONCERTINA FENCE		SECURITY FENCE	20.0	20	60	76840		2438	12190	14628
					223	430	701845	8901	7107	21487	37495

DDEXER4 RUN DATE 860207

DESERT CLIMATE

FABRICATION PLANT,PANELIZED WOOD BUILDING SUB-FACILITY ASSE- PY2894
MBLY AND STORAGE AREA 12.9 ACRES REQUIRED FOR REAL ESTATE.
REQUIRED FROM LOCAL SOURCE,FINE AGGREGATE 2026 CY,COARSE
AGGREGATE 2614 CY.POWER REQUIREMENT MUST BE DETERMINED AND
APPROPRIATE AFCS FACILITY SELECTED.

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
22892AA	SAW HORSE,FOR PAN.WD.BLDG.FAB.WORK.		2 PER INST	2.0			58			5	5
22892AB	FABRICATION JIG WOOD FLOOR PANELS		2 PER INST	2.0	2	2	326		37		37
22892AC	FABRICATION JIG 6-8FT WALL PANELS		4 PER INST	4.0		4	576		64		64
22892AD	FABRICATION JIG 12FT WALL PANELS		2 PER INST	2.0	2	2	320		37		37
22892AE	FABRICATION JIG 24FT TRUSSES.		2 PER INST	2.0	2	4	748		83		83
22892AF	FABRICATION JIG 30FT TRUSSES.		2 PER INST	2.0	4	6	1082		92		92
22892AG	FABRICATION JIG 36FT TRUSSES.		2 PER INST	2.0	4	6	998		87		87
22892AH	FABRICATION JIG ROOF PANELS		2 PER INST	2.0	2	2	396		46		46
22892AJ	FABRICATION JIG BOX BEAMS		2 PER INST	2.0	2	2	652		28		28
72321BD	LAT PIT TYPE 160MAN 8 SEATS 10X20	10X20X8	1 PER INST	1.0	8	9	1559	2	230	37	269
84330AC	SUMP FIRE PROTECTION 10000 GAL	10000 GAL	EFF RAD 500FT	1.0	7	5	145	18	124	133	275
187190AA	SITE PREPARATION,ONE ACRE		BUILDINGS	2.5				253		92	345
87210AP	SECURITY FENCE TYPE X 1000 FEET	1000 FEET	PERIMETER	2.0	16	18	3312	106	584	589	1279
87210AT	VEH-MAN GATE FOR SECURITY FENCE	1	2 PER INST	2.0	4	4	664	18	276	110	404
87230AA	SENTRY BOX 4X4		2 PER INST	2.0			244	219	920	460	1599
93112AA	BLDG,PANELIZED WD 12X24X8FT C/F D/T		6 PER INST	6.0	66	36	9846	97	1201	711	2009
93112LA	BLDG,PANELIZED WD 144X140X12FT D/T		1 PER INST	1.0	739	2828	256776	436	6972	3856	11264
					858	2928	277702	1149	10781	5993	17923

DDEXER4 RUN DATE 860207

DESERT CLIMATE

PRE-PACKAGED CULVERT SECTIONS IN ASSORTED SIZES AND SANDBAGS FOR ROAD CONSTRUCTION AND REPAIR. YY1009

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
99999AA	PRE-PKGD DRAINAGE-FLD FORTS CULVERT		AS REQUIRED	1.0	5	13	4546				
99999AB	PRE-PACKAGED DRAINAGE SUPPLIES CULV		AS REQUIRED	1.0	5	12	4391				
99999AC	PRE-PACKAGED DRAINAGE SUPPLIES CULV		AS REQUIRED	1.0	4	14	3663				
99999AD	PRE-PACKAGED DRAINAGE SUPPLIES CULV		AS REQUIRED	1.0	4	16	3175				
99999AE	PRE-PACKAGED SANDBAGS MULTI-PURPOSE		AS REQUIRED	1.0	5	18	5963				
					23	73	21738				

DDEXER4 RUN DATE 860207

DESERT CLIMATE

CONTAINERIZED SUPPLIES FOR CONSTRUCTION OF FIELD FORTIFICATIONS. YY1019

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
99999AA	PRE-PKGD DRAINAGE-FLD FORTS CULVERT		AS REQUIRED	1.0	5	13	4566				
99999AE	PRE-PACKAGED SANDBAGS MULTI-PURPOSE		AS REQUIRED	1.0	5	18	5963				
99999AF	FIELD FORTS- BARBED-TAPE CONCERTINA		AS REQUIRED	1.0	2	16	12390				
99999AG	FLD FORTS-BARBED WIRE-POSTS-STL SEC		AS REQUIRED	1.0	8	15	5266				
99999AH	LUMBER 2 X 12 FLD FORTS & GEN CONST		AS REQUIRED	1.0	16	49	6324				
99999AJ	STRUCTURAL TIMBER 5IN X 10IN		AS REQUIRED	1.0	16	49	7824				
					52	160	42313				

DDEXER4 RUN DATE 860207

DESERT CLIMATE

PRE-PACKAGED CONSTRUCTION SUPPLIES (LUMBER, HARDWARE, ELECTRICAL AND PLUMBING FIXTURES, ETC) FOR GENERAL CONSTRUCTION AND RENOVATION. YY1029

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
99999AH	LUMBER 2 X 12 FLD FORTS & GEN CONST		AS REQUIRED	1.0	16	49	6324				
99999AJ	STRUCTURAL TIMBER 3IN X 10IN		AS REQUIRED	1.0	16	49	7824				
99999AK	PLYWOOD-LUMBER & CORR SHEET METAL		AS REQUIRED	1.0	21	59	12639				
99999AL	ASSORTED SIZES OF STRUCTURAL LUMBER		AS REQUIRED	1.0	16	49	5349				
99999AM	ASSORTED CONST SUPPLIES & HARDWARE		AS REQUIRED	1.0	11	20	12414				
99999AN	ASSORTED ELEC SUPPLIES & FIXTURES		AS REQUIRED	1.0	9	38	52212				
99999AP	ASSORTED PLUMBING SUPPLIES/FIXTURES		AS REQUIRED	1.0	2	12	3755				
					91	276	100517				

DESERT CLIMATE

PRE-PACKAGED MULTI-PURPOSE RIGGING KIT W/ASSORTED SIZES OF FIBER ROPE - WIRE ROPE - CHAIN AND RELATED ACCESSORIES. YY1039

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
99999AR	PRE-PACK MULTI-PURPOSE RIGGING KIT		AS REQUIRED	1.0	7	14	13090				
					7	14	13090				

DDEXER4 RUN DATE 860207

DESERT CLIMATE

PRE-PACKAGED MARKING & CAMOUFLAGE KIT W/MARKING & CAMOUFLAGE PAINT AND CAMOUFLAGE NETS-WOOLAND RADAR SCATTERING. YY1049

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FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
99999AT	MARKING PAINT & CAMOUF PAINT & NETS		AS REQUIRED	1.0	5	19	21159				
					5	19	21159				

DDEXER4 RUN DATE 860207

DESERT CLIMATE

PRE-PACKAGED MARKING & CAMOUFLAGE KIT W/MARKING & CAMOUFLAGE PAINT AND CAMOUFLAGE NETS-DESERT RADAR SCATTERING. YY1059

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	VOL-MT	COST	CONSTR EFFORT IN MANHOURS MOBZ	VERT	GENL	TOT
99999AV	MARKING PAINT & CAMOUF PAINT & NETS		AS REQUIRED	1.0	4	15	8160				
					4	15	8160				

DDEXER4 RUN DATE 860207

DESERT CLIMATE

PRE-PACKAGED HAND TOOL KIT FOR USE BY INDIGENOUS LABOR. YY1069

FAC NUMBER	FACILITY DESCRIPTION	SIZE OR UNIT	BASIS	QUANTITY REQUIRED	MATERIALS WT-ST	MATERIALS VOL-MT	MATERIALS COST	CONSTR EFFORT IN MANHOURS HORZ	VERT	GENL	TOT
99999AU	PRE-PACK INDIGENOUS LABOR TOOL KIT		AS REQUIRED	1.0			373				
							373				

END REPORT DDEXER4