



APPENDIX M

COST ESTIMATES



Harvey Field
Preliminary Cost Estimate
CONSTRUCT AIRPORT WAY

					CONSTRUCT AIRPORT WAY	
Item Description	Unit	Unit Price	Quantity	Total		
MOBILIZATION						
15% Mobilization	LS	Varies	1	\$	394,300.00	
PAVEMENT REMOVAL						
Pavement removal - Complete	SY	\$ 10.00	30,000	\$	300,000.00	
EXCAVATION AND EMBANKMENT						
Unclassified Excavation	CY	\$ 10.00	50,000	\$	500,000.00	
Over Excavation	CY	\$ 15.00	15,000	\$	225,000.00	
Subgrade Preparation	SY	\$ 5.00	21,000	\$	105,000.00	
SUBBASE COURSE						
Aggregate Subbase Course (18")	CY	\$ 30.00	10,000	\$	300,000.00	
EROSION CONTROL						
Erosion Control	LS	\$ 10,000.00	1	\$	10,000.00	
CRUSHED AGGREGATE BASE COURSE						
Crushed Aggregate Base Course (12")	CY	\$ 40.00	7,000	\$	280,000.00	
SOIL STERILIZATION						
Soil Sterilization	SY	\$ 0.20	21,000	\$	4,200.00	
PLANT MIX BITUMINOUS PAVEMENTS						
Bituminous Surface Course (4")	TON	\$ 120.00	4,500	\$	540,000.00	
BITUMINOUS TACK COAT						
Bituminous Tack Coat	GAL	\$ 1.50	3,500	\$	5,250.00	
ROADWAY PAINTING						
Temporary Pavement Markings	SF	\$ 1.00	8,400	\$	8,400.00	
Permanent Pavement Markings	SF	\$ 1.00	8,400	\$	8,400.00	
REINFORCED CONCRETE PIPE						
Install 36" RCP	LF	\$ 95.00	1,440	\$	136,800.00	
Install 48" RCP	LF	\$ 125.00	120	\$	15,000.00	
TOPSOIL						
Strip, Stockpile, and Spread Topsoil	AC	\$ 1,000.00	20	\$	20,000.00	
SEEDING						
Seeding and Hydromulch	AC	\$ 1,000.00	20	\$	20,000.00	
UTILITY MODIFICATIONS						
Relocate OH Electrical	LF	\$ 150.00	1,000	\$	150,000.00	
Item Total				\$	3,022,350.00	
20% Contingency				\$	604,470.00	
Engineering Design Fees (Est)				\$	302,235.00	
Construction Management Fees (Est)				\$	302,235.00	
Total				\$	4,231,290.00	

NOTES:

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Roadway on embankment extended to south portion of depressed floodplain area.
 Roadway Section: (2) 12' lanes with 8' shoulders and 3:1 sideslopes
 36" RCP: 120' long pipes placed every 200 feet in depressed floodplain area (12 pipes).
 48" RCP: Pipe for slough under road near Marsh Rd
 Silt Fence: Placed along upstream side of perimeter slough



Harvey Field
Preliminary Cost Estimate
CONSTRUCT NORTHEAST APRON (100' X 500')

				CONSTRUCT NORTHEAST APRON	
Item	Item Description	Unit	Unit Price	Quantity	Total
GP-105	MOBILIZATION				
GP-105a	10% Mobilization	LS	Varies	1	\$ 43,100.00
P-140	PAVEMENT REMOVAL				
P-140b	Pavement removal - Complete	SY	\$ 10.00	0	\$ -
P-152	EXCAVATION AND EMBANKMENT				
P-152a	Unclassified Excavation	CY	\$ 10.00	3,200	\$ 32,000.00
P-152b	Over Excavation	CY	\$ 20.00	852	\$ 17,049.60
P-152c	Subgrade Preparation	SY	\$ 5.00	6,400	\$ 32,000.00
P-156	EROSION CONTROL				
P-156a	Erosion Control	LS	\$ 25,000.00	1	\$ 25,000.00
P-209	CRUSHED AGGREGATE BASE COURSE				
P-209a	Crushed Aggregate Base Course (9")	CY	\$ 50.00	1,600	\$ 80,000.00
P-222	SOIL STERILIZATION				
P-222	Soil Sterilization	SY	\$ 0.20	6,400	\$ 1,280.00
P-310	GEOSYNTHETIC PRODUCTS				
P-310a	Stabilization Fabric	SY	\$ 2.00	6,400	\$ 12,800.00
P-401	PLANT MIX BITUMINOUS PAVEMENTS				
P-401a	Bituminous Surface Course (4")	TON	\$ 65.00	1,600	\$ 104,000.00
P-401b	Modified Bituminous Material	TON	\$ 650.00	104	\$ 67,600.00
P-603	BITUMINOUS TACK COAT				
P-603a	Bituminous Tack Coat	GAL	\$ 1.50	1,100	\$ 1,650.00
P-620	RUNWAY AND TAXIWAY PAINTING				
P-620a	Temporary Pavement Markings	SF	\$ 1.00	2,600	\$ 2,600.00
P-620b	Permanent Pavement Markings	SF	\$ 1.00	2,600	\$ 2,600.00
D-701	REINFORCED CONCRETE PIPE				
D-701b	Install 18" RCP, CLASS V	LF	\$ 82.00	200	\$ 16,400.00
D-705	PIPE UNDERDRAINS FOR AIRPORTS				
D-705a	Install 6" Perforated Polyethylene Pipe	LF	\$ 25.00	800	\$ 20,000.00
D-751	MANHOLES & INSPECTION HOLES				
D-751a	Install Underdrain Inspection Pit	EA	\$ 4,000.00	2	\$ 8,000.00
D-751b	Install Underdrain Cleanouts	EA	\$ 1,500.00	2	\$ 3,000.00
T-901	SEEDING				
L-108a	Seeding and Hydromulch	AC	\$ 5,000.00	1	\$ 5,000.00
Item Total					\$ 474,079.60
20% Contingency					\$ 94,815.92
Engineering Design Fees (Est.)					\$ 47,407.96
Construction Management Fees (Est.)					\$ 47,407.96
Total					\$ 663,711.44

NOTES:

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Harvey Field
Preliminary Cost Estimate
CONSTRUCT EAST APRON (180' X 670')

				CONSTRUCT EAST APRON	
Item	Item Description	Unit	Unit Price	Quantity	Total
GP-105	MOBILIZATION				
GP-105a	10% Mobilization	LS	Varies	1	\$ 108,800.00
P-140	PAVEMENT REMOVAL				
P-140b	Pavement removal - Complete	SY	\$ 10.00	0	\$ -
P-152	EXCAVATION AND EMBANKMENT				
P-152a	Unclassified Excavation	CY	\$ 10.00	8,550	\$ 85,500.00
P-152b	Over Excavation	CY	\$ 20.00	2,278	\$ 45,554.40
P-152c	Subgrade Preparation	SY	\$ 5.00	17,100	\$ 85,500.00
P-156	EROSION CONTROL				
P-156a	Erosion Control	LS	\$ 25,000.00	1	\$ 25,000.00
P-209	CRUSHED AGGREGATE BASE COURSE				
P-209a	Crushed Aggregate Base Course (9")	CY	\$ 50.00	4,275	\$ 213,750.00
P-222	SOIL STERILIZATION				
P-222	Soil Sterilization	SY	\$ 0.20	17,100	\$ 3,420.00
P-310	GEOSYNTHETIC PRODUCTS				
P-310a	Stabilization Fabric	SY	\$ 2.00	17,100	\$ 34,200.00
P-401	PLANT MIX BITUMINOUS PAVEMENTS				
P-401a	Bituminous Surface Course (4")	TON	\$ 65.00	4,700	\$ 305,500.00
P-401b	Modified Bituminous Material	TON	\$ 650.00	306	\$ 198,575.00
P-603	BITUMINOUS TACK COAT				
P-603a	Bituminous Tack Coat	GAL	\$ 1.50	2,900	\$ 4,350.00
P-620	RUNWAY AND TAXIWAY PAINTING				
P-620a	Temporary Pavement Markings	SF	\$ 1.00	6,800	\$ 6,800.00
P-620b	Permanent Pavement Markings	SF	\$ 1.00	6,800	\$ 6,800.00
D-701	REINFORCED CONCRETE PIPE				
D-701b	Install 18" RCP, CLASS V	LF	\$ 82.00	200	\$ 16,400.00
D-705	PIPE UNDERDRAINS FOR AIRPORTS				
D-705a	Install 6" Perforated Polyethylene Pipe	LF	\$ 25.00	1,300	\$ 32,500.00
D-751	MANHOLES & INSPECTION HOLES				
D-751a	Install Underdrain Inspection Pit	EA	\$ 4,000.00	2	\$ 8,000.00
D-751b	Install Underdrain Cleanouts	EA	\$ 1,500.00	4	\$ 6,000.00
T-901	SEEDING				
L-108a	Seeding and Hydromulch	AC	\$ 5,000.00	2	\$ 10,000.00
Item Total					\$ 1,196,649.40
20% Contingency					\$ 239,329.88
Engineering Design Fees (Est.)					\$ 119,664.94
Construction Management Fees (Est.)					\$ 119,664.94
Total					\$ 1,675,309.16

NOTES:

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Harvey Field
Preliminary Cost Estimate
CONSTRUCT WEST APRON (740' X 1,140')

				CONSTRUCT WEST APRON	
Item	Item Description	Unit	Unit Price	Quantity	Total
GP-105	MOBILIZATION				
GP-105a	10% Mobilization	LS	Varies	1	\$ 316,700.00
P-140	PAVEMENT REMOVAL				
P-140b	Pavement removal - Complete	SY	\$ 10.00	0	\$ -
P-152	EXCAVATION AND EMBANKMENT				
P-152a	Unclassified Excavation	CY	\$ 10.00	44,800	\$ 448,000.00
P-152b	Over Excavation	CY	\$ 20.00	11,935	\$ 238,694.40
P-152c	Subgrade Preparation	SY	\$ 5.00	89,600	\$ 448,000.00
P-156	EROSION CONTROL				
P-156a	Erosion Control	LS	\$ 35,000.00	1	\$ 35,000.00
P-209	CRUSHED AGGREGATE BASE COURSE				
P-209a	Crushed Aggregate Base Course (9")	CY	\$ 50.00	22,400	\$ 1,120,000.00
P-222	SOIL STERILIZATION				
P-222	Soil Sterilization	SY	\$ 0.20	89,600	\$ 17,920.00
P-310	GEOSYNTHETIC PRODUCTS				
P-310a	Stabilization Fabric	SY	\$ 2.00	89,600	\$ 179,200.00
P-401	PLANT MIX BITUMINOUS PAVEMENTS				
P-401a	Bituminous Surface Course (4")	TON	\$ 65.00	4,700	\$ 305,500.00
P-401b	Modified Bituminous Material	TON	\$ 650.00	306	\$ 198,575.00
P-603	BITUMINOUS TACK COAT				
P-603a	Bituminous Tack Coat	GAL	\$ 1.50	14,800	\$ 22,200.00
P-620	RUNWAY AND TAXIWAY PAINTING				
P-620a	Temporary Pavement Markings	SF	\$ 1.00	35,500	\$ 35,500.00
P-620b	Permanent Pavement Markings	SF	\$ 1.00	35,500	\$ 35,500.00
D-701	REINFORCED CONCRETE PIPE				
D-701b	Install 18" RCP, CLASS V	LF	\$ 82.00	200	\$ 16,400.00
D-705	PIPE UNDERDRAINS FOR AIRPORTS				
D-705a	Install 6" Perforated Polyethylene Pipe	LF	\$ 25.00	1,300	\$ 32,500.00
D-751	MANHOLES & INSPECTION HOLES				
D-751a	Install Underdrain Inspection Pit	EA	\$ 4,000.00	2	\$ 8,000.00
D-751b	Install Underdrain Cleanouts	EA	\$ 1,500.00	4	\$ 6,000.00
T-901	SEEDING				
L-108a	Seeding and Hydromulch	AC	\$ 5,000.00	4	\$ 20,000.00
Item Total					\$ 3,483,689.40
20% Contingency					\$ 696,737.88
Engineering Design Fees (Est.)					\$ 348,368.94
Construction Management Fees (Est.)					\$ 348,368.94
Total					\$ 4,877,165.16

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Harvey Field
Preliminary Cost Estimate
CONSTRUCT HELIPAD

					CONSTRUCT HELIPAD	
Item	Item Description	Unit	Unit Price	Quantity	Total	
GP-105	MOBILIZATION					
GP-105a	10% Mobilization	LS	Varies	1	\$	35,000.00
P-140	PAVEMENT REMOVAL					
P-140b	Pavement removal - Complete	SY	\$ 10.00	0	\$	-
P-152	EXCAVATION AND EMBANKMENT					
P-152a	Unclassified Excavation	CY	\$ 10.00	2,500	\$	25,000.00
P-152b	Over Excavation	CY	\$ 20.00	667	\$	13,333.33
P-152c	Subgrade Preparation	SY	\$ 5.00	5,000	\$	25,000.00
P-156	EROSION CONTROL					
P-156a	Erosion Control	LS	\$ 10,000.00	1	\$	10,000.00
P-209	CRUSHED AGGREGATE BASE COURSE					
P-209a	Crushed Aggregate Base Course (6")	CY	\$ 50.00	833	\$	41,666.67
P-222	SOIL STERILIZATION					
P-222	Soil Sterilization	SY	\$ 0.20	5,000	\$	1,000.00
P-310	GEOSYNTHETIC PRODUCTS					
P-310a	Stabilization Fabric	SY	\$ 2.00	5,000	\$	10,000.00
P-401	PLANT MIX BITUMINOUS PAVEMENTS					
P-401a	Bituminous Surface Course (4")	TON	\$ 65.00	1,400	\$	91,000.00
P-401b	Modified Bituminous Material	TON	\$ 650.00	91	\$	59,150.00
P-603	BITUMINOUS TACK COAT					
P-603a	Bituminous Tack Coat	GAL	\$ 1.50	900	\$	1,350.00
P-620	RUNWAY AND TAXIWAY PAINTING					
P-620a	Temporary Pavement Markings	SF	\$ 1.00	2,000	\$	2,000.00
P-620b	Permanent Pavement Markings	SF	\$ 1.00	2,000	\$	2,000.00
D-701	REINFORCED CONCRETE PIPE					
D-701b	Install 18" RCP, CLASS V	LF	\$ 82.00	200	\$	16,400.00
D-705	PIPE UNDERDRAINS FOR AIRPORTS					
D-705a	Install 6" Perforated Polyethylene Pipe	LF	\$ 25.00	1,000	\$	25,000.00
D-751	MANHOLES & INSPECTION HOLES					
D-751a	Install Underdrain Inspection Pit	EA	\$ 4,000.00	2	\$	8,000.00
D-751b	Install Underdrain Cleanouts	EA	\$ 1,500.00	6	\$	9,000.00
T-901	SEEDING					
L-108a	Seeding and Hydromulch	AC	\$ 5,000.00	2	\$	10,000.00
Item Total					\$	384,900.00
20% Contingency					\$	76,980.00
Engineering Design Fees (Est.)					\$	38,490.00
Construction Management Fees (Est.)					\$	38,490.00
Total					\$	538,860.00

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Harvey Field
Preliminary Cost Estimate
Seal Coat Runway 15/33

				SEAL COAT RUNWAY	
Item	Item Description	Unit	Unit Price	Quantity	Total
GP-105	MOBILIZATION				
GP-105a	10% Mobilization	LS	Varies	1	\$ 19,700.00
P-101	CRACK SEAL				
P-101a	Minor Crack Repair	LF	\$ 2.50	15,000	\$ 37,500.00
P-608	FOG SEAL				
P-608a	Fog Seal with Sand	SY	\$ 2.00	22,000	\$ 44,000.00
P-620	PAVEMENT MARKINGS				
P-620a	Obliterate Existing Markings	SF	\$ 2.00	23,000	\$ 46,000.00
P-620b	Temporary Pavement Markings	SF	\$ 1.50	23,000	\$ 34,500.00
P-620c	Permanent Pavement Markings	SF	\$ 1.50	23,000	\$ 34,500.00
Item Total					\$ 216,200.00
20% Contingency					\$ 43,240.00
Engineering Design Fees (Est.)					\$ 21,620.00
Construction Management Fees (Est.)					\$ 21,620.00
Total					\$ 302,680.00

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Harvey Field
Preliminary Cost Estimate
Seal Coat Taxiway

				SEAL COAT TAXIWAY	
Item	Item Description	Unit	Unit Price	Quantity	Total
GP-105	MOBILIZATION				
GP-105a	10% Mobilization	LS	Varies	1	\$ 5,600.00
P-101	CRACK SEAL				
P-101a	Minor Crack Repair	LF	\$ 2.50	7,500	\$ 18,750.00
P-608	FOG SEAL				
P-608a	Fog Seal without Sand	SY	\$ 1.75	9,800	\$ 17,150.00
P-620	PAVEMENT MARKINGS				
P-620a	Obliterate Existing Markings	SF	\$ 2.00	3,900	\$ 7,800.00
P-620b	Temporary Pavement Markings	SF	\$ 1.50	3,900	\$ 5,850.00
P-620c	Permanent Pavement Markings	SF	\$ 1.50	3,900	\$ 5,850.00
Item Total					\$ 61,000.00
20% Contingency					\$ 12,200.00
Engineering Design Fees (Est.)					\$ 6,100.00
Construction Management Fees (Est.)					\$ 6,100.00
Total					\$ 85,400.00

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Harvey Field
Preliminary Cost Estimate
Seal Coat Aprons and Helipad

				SEAL COAT APRONS AND HELIPAD	
Item	Item Description	Unit	Unit Price	Quantity	Total
GP-105	MOBILIZATION				
GP-105a	10% Mobilization	LS	Varies	1	\$ 48,600.00
P-101	CRACK SEAL				
P-101a	Minor Crack Repair	LF	\$ 2.00	25,000	\$ 50,000.00
P-608	FOG SEAL				
P-608a	Fog Seal without Sand	SY	\$ 1.70	118,100	\$ 200,770.00
P-620	PAVEMENT MARKINGS				
P-620a	Obliterate Existing Markings	SF	\$ 2.00	46,900	\$ 93,800.00
P-620b	Temporary Pavement Markings	SF	\$ 1.50	46,900	\$ 70,350.00
P-620c	Permanent Pavement Markings	SF	\$ 1.50	46,900	\$ 70,350.00
Item Total					\$ 533,870.00
20% Contingency					\$ 106,774.00
Engineering Design Fees (Est.)					\$ 53,387.00
Construction Management Fees (Est.)					\$ 53,387.00
Total					\$ 747,418.00

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Harvey Field
Preliminary Cost Estimate
Rehabilitate Runway 15/33

				REHABILITATE RUNWAY	
Item	Item Description	Unit	Unit Price	Quantity	Total
GP-105	MOBILIZATION				
GP-105a	10% Mobilization	LS	Varies	1	\$ 66,000.00
P-140	PAVEMENT REMOVAL				
P-140a	Pavement removal - Partial	SY	\$ 3.00	23,200	\$ 69,600.00
P-101	CRACK SEAL				
P-101a	Minor Crack Repair	LF	\$ 2.50	25,000	\$ 62,500.00
P-101a	Major Crack Repair	LF	\$ 25.00	6,000	\$ 150,000.00
P-156	EROSION CONTROL				
P-156a	Erosion Control	LS	\$ 15,000.00	1	\$ 15,000.00
P-401	PLANT MIX BITUMINOUS PAVEMENTS				
P-401a	Bituminous Surface Course (4")	TON	\$ 65.00	2,900	\$ 188,500.00
P-401b	Modified Bituminous Material	TON	\$ 650.00	189	\$ 122,525.00
P-603	BITUMINOUS TACK COAT				
P-603a	Bituminous Tack Coat	GAL	\$ 1.50	3,900	\$ 5,850.00
P-620	RUNWAY AND TAXIWAY PAINTING				
P-620a	Temporary Pavement Markings	SF	\$ 1.00	23,000	\$ 23,000.00
P-620b	Permanent Pavement Markings	SF	\$ 1.00	23,000	\$ 23,000.00
Item Total					\$ 725,975.00
20% Contingency					\$ 145,195.00
Engineering Design Fees (Est.)					\$ 72,597.50
Construction Management Fees (Est.)					\$ 72,597.50
Total					\$ 1,016,365.00

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Harvey Field
Preliminary Cost Estimate
Rehabilitate Taxiway

				REHABILITATE TAXIWAY	
Item	Item Description	Unit	Unit Price	Quantity	Total
GP-105	MOBILIZATION				
GP-105a	10% Mobilization	LS	Varies	1	\$ 27,700.00
P-140	PAVEMENT REMOVAL				
P-140a	Pavement removal - Partial	SY	\$ 3.00	9,800	\$ 29,400.00
P-101	CRACK SEAL				
P-101a	Minor Crack Repair	LF	\$ 2.50	10,000	\$ 25,000.00
P-101a	Major Crack Repair	LF	\$ 25.00	2,500	\$ 62,500.00
P-156	EROSION CONTROL				
P-156a	Erosion Control	LS	\$ 10,000.00	1	\$ 10,000.00
P-401	PLANT MIX BITUMINOUS PAVEMENTS				
P-401a	Bituminous Surface Course (4")	TON	\$ 65.00	1,300	\$ 84,500.00
P-401b	Modified Bituminous Material	TON	\$ 650.00	85	\$ 54,925.00
P-603	BITUMINOUS TACK COAT				
P-603a	Bituminous Tack Coat	GAL	\$ 1.50	1,700	\$ 2,550.00
P-620	RUNWAY AND TAXIWAY PAINTING				
P-620a	Temporary Pavement Markings	SF	\$ 1.00	3,900	\$ 3,900.00
P-620b	Permanent Pavement Markings	SF	\$ 1.00	3,900	\$ 3,900.00
Item Total					\$ 304,375.00
20% Contingency					\$ 60,875.00
Engineering Design Fees (Est.)					\$ 30,437.50
Construction Management Fees (Est.)					\$ 30,437.50
Total					\$ 426,125.00

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Harvey Field
Preliminary Cost Estimate
Rehabilitate Aprons

				REHABILITATE APRONS	
Item	Item Description	Unit	Unit Price	Quantity	Total
GP-105	MOBILIZATION				
GP-105a	10% Mobilization	LS	Varies	1	\$ 243,900.00
P-140	PAVEMENT REMOVAL				
P-140a	Pavement removal - Partial	SY	\$ 3.00	118,100	\$ 354,300.00
P-101	CRACK SEAL				
P-101a	Minor Crack Repair	LF	\$ 2.50	50,000	\$ 125,000.00
P-101a	Major Crack Repair	LF	\$ 25.00	10,000	\$ 250,000.00
P-156	EROSION CONTROL				
P-156a	Erosion Control	LS	\$ 10,000.00	1	\$ 10,000.00
P-401	PLANT MIX BITUMINOUS PAVEMENTS				
P-401a	Bituminous Surface Course (4")	TON	\$ 65.00	14,700	\$ 955,500.00
P-401b	Modified Bituminous Material	TON	\$ 650.00	956	\$ 621,075.00
P-603	BITUMINOUS TACK COAT				
P-603a	Bituminous Tack Coat	GAL	\$ 1.50	19,500	\$ 29,250.00
P-620	RUNWAY AND TAXIWAY PAINTING				
P-620a	Temporary Pavement Markings	SF	\$ 1.00	46,900	\$ 46,900.00
P-620b	Permanent Pavement Markings	SF	\$ 1.00	46,900	\$ 46,900.00
Item Total					\$ 2,682,825.00
20% Contingency					\$ 536,565.00
Engineering Design Fees (Est.)					\$ 268,282.50
Construction Management Fees (Est.)					\$ 268,282.50
Total					\$ 3,755,955.00

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Harvey Field
Preliminary Cost Estimate
Construct Runway 15/33

					CONSTRUCT RUNWAY	
Item	Item Description	Unit	Unit Price	Quantity	Total	
GP-105	MOBILIZATION					
GP-105a	10% Mobilization	LS	Varies	1	\$	270,100.00
P-140	PAVEMENT REMOVAL					
P-140a	Pavement removal - Complete	SY	\$ 10.00	16,700	\$	167,000.00
P-152	EXCAVATION AND EMBANKMENT					
P-152a	Embankment	CY	\$ 10.00	40,000	\$	400,000.00
P-152b	Over Excavation	CY	\$ 20.00	5,150	\$	103,008.00
P-152c	Subgrade Preparation	SY	\$ 5.00	23,200	\$	116,000.00
P-156	EROSION CONTROL					
P-156a	Erosion Control	LS	\$ 40,000.00	1	\$	40,000.00
P-209	CRUSHED AGGREGATE BASE COURSE					
P-209a	Crushed Aggregate Base Course (9")	CY	\$ 50.00	5,800	\$	290,000.00
P-222	SOIL STERILIZATION					
P-222	Soil Sterilization	SY	\$ 0.20	23,200	\$	4,640.00
P-310	GEOSYNTHETIC PRODUCTS					
P-310a	Stabilization Fabric	SY	\$ 2.00	23,200	\$	46,400.00
P-401	PLANT MIX BITUMINOUS PAVEMENTS					
P-401a	Bituminous Surface Course (4")	TON	\$ 65.00	6,400	\$	416,000.00
P-401b	Modified Bituminous Material	TON	\$ 650.00	416	\$	270,400.00
P-603	BITUMINOUS TACK COAT					
P-603a	Bituminous Tack Coat	GAL	\$ 1.50	3,900	\$	5,850.00
P-620	RUNWAY AND TAXIWAY PAINTING					
P-620a	Temporary Pavement Markings	SF	\$ 1.00	23,000	\$	23,000.00
P-620b	Permanent Pavement Markings	SF	\$ 1.00	23,000	\$	23,000.00
D-701	REINFORCED CONCRETE PIPE					
D-701a	Install 36" RCP, CLASS V	LF	\$ 150.00	1,750	\$	262,500.00
D-701b	Install 18" RCP, CLASS V	LF	\$ 82.00	400	\$	32,800.00
D-705	PIPE UNDERDRAINS FOR AIRPORTS					
D-705a	Install 6" Perforated Polyethylene Pipe	LF	\$ 25.00	5,000	\$	125,000.00
D-751	MANHOLES & INSPECTION HOLES					
D-751a	Install Underdrain Inspection Pit	EA	\$ 4,000.00	6	\$	24,000.00
D-751b	Install Underdrain Cleanouts	EA	\$ 1,500.00	20	\$	30,000.00
T-901	SEEDING					
L-108a	Seeding and Hydromulch	AC	\$ 5,000.00	10	\$	50,000.00
L-108	INSTALLATION OF UNDERGROUND CABLE FOR AIRPORTS					
L-108a	L-824C #8 AWG 5000V Cable	LF	\$ 3.00	8,000	\$	24,000.00
L-108b	#6 AWG Bare Counterpoise Wire	LF	\$ 2.25	8,000	\$	18,000.00
L-109	AIRPORT ELECTRICAL EQUIPMENT BUILDING					
L-109a	Install New Regulator	EA	\$ 30,000.00	1	\$	30,000.00



Harvey Field
 Preliminary Cost Estimate
 Construct Runway 15/33

					CONSTRUCT RUNWAY		
Item	Item Description	Unit	Unit Price	Quantity	Total		
L-110	AIRPORT UNDERGROUND ELECTRICAL DUCT						
L-110a	1-2" SCH. 40 PVC Conduit (DEB)	LF	\$ 10.00	7,000	\$	70,000.00	
L-110b	1-2" SCH. 40 PVC Conduit (CE)	LF	\$ 25.00	500	\$	12,500.00	
L-125	INSTALLATION OF AIRPORT LIGHTING SYSTEMS						
L-125b	Remove and Install New Runway Edge lights	EA	\$ 1,500.00	50	\$	75,000.00	
L-125d	L-858 Guidance Sign, 2 Module	EA	\$ 4,000.00	4	\$	16,000.00	
L-125e	Install REIL	LS	\$ 20,000.00	1	\$	20,000.00	
L-806	Wind Cone						
L-806	Relocate Wind Cone	LS	\$ 5,000.00	1	\$	5,000.00	
Item Total					\$	2,970,198.00	
20% Contingency					\$	594,039.60	
Engineering Design Fees (Est.)					\$	297,019.80	
Construction Management Fees (Est.)					\$	297,019.80	
Total					\$	4,158,277.20	

NOTES:

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Harvey Field
Preliminary Cost Estimate
CONSTRUCT TAXIWAY

				CONSTRUCT TAXIWAY	
Item	Item Description	Unit	Unit Price	Quantity	Total
GP-105	MOBILIZATION				
GP-105a	10% Mobilization	LS	Varies	1	\$ 156,100.00
P-140	PAVEMENT REMOVAL				
P-140a	Pavement removal - Complete	SY	\$ 10.00	5,500	\$ 55,000.00
P-152	EXCAVATION AND EMBANKMENT				
P-152a	Unclassified Excavation	CY	\$ 10.00	50,000	\$ 500,000.00
P-152b	Over Excavation	CY	\$ 20.00	2,173	\$ 43,468.49
P-152c	Subgrade Preparation	SY	\$ 5.00	9,800	\$ 49,000.00
P-156	EROSION CONTROL				
P-156a	Erosion Control	LS	\$ 25,000.00	1	\$ 25,000.00
P-209	CRUSHED AGGREGATE BASE COURSE				
P-209a	Crushed Aggregate Base Course (9")	CY	\$ 50.00	2,450	\$ 122,500.00
P-222	SOIL STERILIZATION				
P-222	Soil Sterilization	SY	\$ 0.20	9,800	\$ 1,960.00
P-310	GEOSYNTHETIC PRODUCTS				
P-310a	Stabilization Fabric	SY	\$ 2.00	9,800	\$ 19,600.00
P-401	PLANT MIX BITUMINOUS PAVEMENTS				
P-401a	Bituminous Surface Course (4")	TON	\$ 65.00	2,100	\$ 136,500.00
P-401b	Modified Bituminous Material	TON	\$ 650.00	137	\$ 88,725.00
P-603	BITUMINOUS TACK COAT				
P-603a	Bituminous Tack Coat	GAL	\$ 1.50	1,700	\$ 2,550.00
P-620	RUNWAY AND TAXIWAY PAINTING				
P-620a	Temporary Pavement Markings	SF	\$ 1.00	3,900	\$ 3,900.00
P-620b	Permanent Pavement Markings	SF	\$ 1.00	3,900	\$ 3,900.00
D-701	REINFORCED CONCRETE PIPE				
D-701a	Install 36" RCP, CLASS V	LF	\$ 150.00	1,050	\$ 157,500.00
D-701b	Install 18" RCP, CLASS V	LF	\$ 82.00	100	\$ 8,200.00
D-705	PIPE UNDERDRAINS FOR AIRPORTS				
D-705a	Install 6" Perforated Polyethylene Pipe	LF	\$ 25.00	6,000	\$ 150,000.00
D-751	MANHOLES & INSPECTION HOLES				
D-751a	Install Underdrain Inspection Pit	EA	\$ 4,000.00	6	\$ 24,000.00
D-751b	Install Underdrain Cleanouts	EA	\$ 1,500.00	20	\$ 30,000.00
T-901	SEEDING				
L-108a	Seeding and Hydromulch	AC	\$ 5,000.00	11	\$ 55,000.00
L-125	INSTALLATION OF AIRPORT LIGHTING SYSTEMS				
L-125a	Taxiway Edge Reflective Markers	EA	\$ 350.00	60	\$ 21,000.00
L-125d	L-858 Guidance Sign, 2 Module- Unlighted	EA	\$ 3,200.00	4	\$ 12,800.00
L-880	PRECISION APPROACH PATH INDICATOR				
L-880	Install PAPI	LS	\$ 50,000.00	1	\$ 50,000.00
Item Total					\$ 1,716,703.49
20% Contingency					\$ 343,340.70
Engineering Design Fees (Est.)					\$ 171,670.35
Construction Management Fees (Est.)					\$ 171,670.35
Total					\$ 2,403,384.88

NOTES:

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