CONTRACT DOCUMENTS
AND
SPECIFICATIONS

FOR

AIP 3-22-0006-128-2023 & H.015713
TAXIWAY LIMA EXTENSION AND DECOMMISSIONING OF GA RUNWAY 4R-22L AND TAXIWAY ECHO
BATON ROUGE METROPOLITAN AIRPORT

ADDENDUM NO. 2

DATE ISSUED: JULY 19, 2024

ORIGINAL BID DATE: JULY 30, 2024

SCOPE:

This Addendum shall be part of the Contract Documents as provided in the Instructions to Bidders.

The following items are issued to add, modify, and clarify the Contract Documents and Specifications. These items shall have full force and effect, as the contract Documents and the cost involved shall be included in the bid prices.

Acknowledge receipt of the addendum by its number and date on page I-48 of the original Bid Form. Failure to do so may subject the bidder to disqualification.

This Addendum No. 2 consists of the following:

REVISIONS TO DIVISION I BID FORMS/CONTRACT FORMS:

The following sections have been added, deleted, or amended in the Specifications and Contract Documents dated July 2024.

- Bid Unit Price Form for Phase I Base Bid (Asphalt Pavement Section)
- Bid Unit Price Form for Phase I Alternate 1 (Concrete Pavement Section)
- Bid Unit Price Form for Phase I Alternate 2 (Asphalt Pavement Section with Scope Reduction)

REVISIONS TO DIVISION IV TECHNICAL SPECIFICATIONS:

The following sections have been added, deleted, or amended in the Specifications and Contract Documents dated July 2024.

- Specification Section C-100 CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)

- Specification Section C-102 TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION AND SILTATION CONTROL
- Specification Section C-105 MOBILIZATION
- Specification Section P-620 RUNWAY AND TAXIWAY MARKING

REVISIONS TO CONSTRUCTION PLANS:

- Plan Sheet G023 Summary of Estimated Quantities

ADDITIONAL ITEMS:

- Phase I Base Bid Engineer's Opinion of Probable Construction Cost
- Phase I Alternate 1 Engineer's Opinion of Probable Construction Cost
- Phase I Alternate 2 Engineer's Opinion of Probable Construction Cost

LOUISIANA UNIFORM PUBLIC WORK BID FORM

UNIT PRICE FORM

TO: City of Baton Rouge
Parish of East Baton Rouge
Purchasing Division
Room 826, City Hall
222 St. Louis Street
Baton Rouge, Louisiana 70802

BID FOR: Baton Rouge Metropolitan Airport
Taxiway L Extension and Decommissioning of Runway 4R-22L & Taxiway E

A.I.P. No. 3-22-0006-128-2023
S.P. No. H.015713

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
C-100	1	LS		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		INSTALLATION AND REMOVAL OF SILT FENCE (CATCH BASIN PROTECTION)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
C-102-5.1c	2,305	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		INSTALLATION AND REMOVAL OF SILT FENCE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
C-102-5.1e	3,692	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		MOBILIZATION (5.0%)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
C-105-5.1	1	LS		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		PAVEMENT REMOVAL (GA RUNWAY 4R-22L, TAXIWAY E)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-101-5.1a	17,259	SY		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		COLD MILLING (2" DEPTH) (TAXIWAY L)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-101-5.6a	32,028	SY		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		CLEARING AND GRUBBING	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-151-4.2	31	AC		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		UNCLASSIFIED EXCAVATION	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-152-4.1	32,244	CY		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		EMBANKMENT IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-152-4.2	12,978	CY		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		SUBBASE COURSE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-154-5.1	11,143	CY		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		LIME TREATED SUBGRADE (10" THICK) (RVR AND GLIDE SLOPE ACCESS DRIVES)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-155-8.1a	381	SY		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		LIME (RVR DRIVES)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-155-8.2a	4	TON		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		CRUSHED AGGREGATE BASE COURSE (10" THICK) (RVR DRIVE)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-209-5.1a	260	SY		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		CRUSHED AGGREGATE BASE COURSE (6.0" THICK)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-209-5.1b	22,025	SY		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		SEPARATION GEOTEXTILE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-209-5.2	22,286	SY		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ASPHALT SURFACE COURSE (2.0" THICK)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-401-8.1a	2,366	TON		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ASPHALT SURFACE COURSE (2" THICK) (OVERLAY)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-401-8.1b	3,524	TON		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ASPHALT MIXTURE BINDER COURSE (2.0" THICK)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-403-8.1a	2,395	TON		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ASPHALT BASE COURSE COURSE (5.0" THICK)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-403-8.1b	6,129	TON		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ASPHALT MIXTURE SURFACE COURSE (2" THICK) (RVR DRIVES)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-403-8.1c	29	TON		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ASPHALT MIXTURE BINDER COURSE (2" THICK) (RVR DRIVES)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-403-8.1d	36	TON		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ASPHALT TREATED PERMEABLE BASE COURSE (ATPB) (6" THICK)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-407-8.1	22,286	SY		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		EMULSIFIED ASPHALT PRIME COAT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-602-5.1	6,530	GAL		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		EMULSIFIED ASPHALT TACK COAT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-603-5.1	8,566	GAL		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		CONCRETE (RVR RELOCATION PAD)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-610-6.1	4	CY		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		SURFACE PREPARATION	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.1a	47,484	SF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		RUNWAY AND TAXIWAY MARKING (YELLOW)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.2b-1	23,307	SF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		RUNWAY AND TAXIWAY MARKING (WHITE)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.2b-2	16,575	SF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		RUNWAY AND TAXIWAY MARKING (RED)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.2b-3	9,589	SF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		RUNWAY AND TAXIWAY MARKING (BLACK)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.2b-4	53,835	SF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		REFLECTIVE MEDIA (RUNWAY)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.3c	4,302	LB		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		TEMPORARY RUNWAY AND TAXIWAY MARKING	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.4d	1	LS		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		6 INCH PIPE (PERFORATED PVC), INCLUDING POROUS BACKFILL AND FILTER FABRIC	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-705-5.4	4,702	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		SEEDING (HYDROSEEDING)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
901-5.1	21	AC		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		SODDING	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
904-5.2	5,333	SY		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		MULCHING	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
T-908-5.1	97,217	SY		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		REMOVAL OF EXISTING PIPES AND STRUCTURES	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-101-5.7	1	LS		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		30 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.2	1,527	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		36 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.3	674	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		18 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.7	262	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		24 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.8	285	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		36 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.9	401	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		CATCH BASIN - CB-01 (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-751-5.1	11	EA		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		CATCH BASIN - CB-02 (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-751-5.2	2	EA		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		NO. 8 AWG, 5 KV TYPE C CABLE, INSTALLED IN CONDUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.1	3,200	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		NO. 6 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED, ABOVE THE DUCT BANK OR CONDUIT, INCLUDING CONNECTIONS/TERMINATIONS, INCLUDING GROUND RODS	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.2	3,000	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		MODIFICATIONS TO L-854 RADIO CONTROL EQUIPMENT TO INCLUDE PANEL RELABELING, IN PLACE AND OPERATIONAL	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-109-7.2	1	LUMP		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ELECTRICAL CONDUIT, 2" SCHEDULE 40 PVC, TYPE II INSTALLED IN TRENCH	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.1	3,200	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ELECTRICAL CONDUIT, 2" HDPE, JACKED OR BORED UNDER TAXIWAY IN STEEL CASING (STEEL CASING INCLUDED IN THIS ITEM)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.2	500	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ELECTRICAL DUCT, 4-WAY, 4" AND 1-WAY, 2" HIGH DENSITY POLYETHYLENE CONDUIT, DIRECTIONAL BORE, INSTALLED	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.3	100	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ELECTRICAL JUNCTION CAN, L-867, SIZE B, CLASS 1, COMPLETE, IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-115-5.1	4	EA		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ELECTRICAL JUNCTION CAN, L-867, SIZE D, CLASS 1, COMPLETE, IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-115-5.2	6	EA		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		MEDIUM INTENSITY TAXIWAY EDGE LIGHT (L-861T), WITH BLUE LENS, LED LAMP, 10/15 WATT TRANSFORMER, BASE MOUNTED, IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.1	43	EA		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		SIGN L-858, SIZE 2, 1-PANEL, REQUIRED CONCRETE BASE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.2	3	EA		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		SIGN L-858, SIZE 2, 2-PANEL, REQUIRED CONCRETE BASE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.3	2	EA		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		REPLACE EXISTING SIGN PANEL, COMPLETE, IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.6	5	EA		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		REMOVE EXISTING RUNWAY & TAXIWAY ELECTRICAL SYSTEMS	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.7	1	LUMP		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ELECTRICAL TESTING AND UPDATE ALCS	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.8	1	LUMP		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		CONNECT TO EXISTING CIRCUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.9	1	LUMP		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		TEMPORARY COMMUNICATION LINE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-1004	1	LUMP		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		TRENCHING FOR DIRECT BURIED CABLE, 18-INCH MINIMUM DEPTH	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.1	40	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		NO. 2 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED IN TRENCH, INCLUDING CONNECTIONGS/TERMINATIONS	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.3	40	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		NO. 2 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.4a	5,420	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		NO. 6 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.4b	1,980	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		NO. 10 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.4c	21,600	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		NON-ENCASED ELECTRICAL CONDUIT (2" HDPE)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.2a	1,800	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		NON-ENCASED ELECTRICAL CONDUIT (2" SCHEDULE 80 PVC)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.2b	40	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ELECTRICAL JUNCTION STRUCTURE (48"X48"X48" POLYMER CONCRETE)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-115-5.2	3	LF		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ROLLOUT RVR DISASSEMBLY	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-1001	1	LUMP		

DESCRIPTION:	X Base Bid or ☐ Alt.# _____		ROLLOUT RVR REASSEMBLY	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-1002	1	LUMP		

All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM

UNIT PRICE FORM

TO: City of Baton Rouge
Parish of East Baton Rouge
Purchasing Division
Room 826, City Hall
222 St. Louis Street
Baton Rouge, Louisiana 70802

BID FOR: Baton Rouge Metropolitan Airport
Taxiway L Extension and Decommissioning of Runway 4R-22L & Taxiway E

A.I.P. No. 3-22-0006-128-2023
S.P. No. H.015713

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	☐ Base Bid or X Alt.# 1		CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
C-100	1	LS		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		INSTALLATION AND REMOVAL OF SILT FENCE (CATCH BASIN PROTECTION)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
C-102-5.1c	2,305	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		INSTALLATION AND REMOVAL OF SILT FENCE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
C-102-5.1e	3,692	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		MOBILIZATION (5.0%)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
C-105-5.1	1	LS		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		PAVEMENT REMOVAL (GA RUNWAY 4R-22L, TAXIWAY E)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-101-5.1a	17,259	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		COLD MILLING (2" DEPTH) (TAXIWAY L)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-101-5.6a	32,028	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		CLEARING AND GRUBBING	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-151-4.2	31	AC		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		UNCLASSIFIED EXCAVATION	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-152-4.1	26,557	CY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		EMBANKMENT IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-152-4.2	3,290	CY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		SUBBASE COURSE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-154-5.1	11,143	CY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		LIME TREATED SUBGRADE (10" THICK) (RVR AND GLIDE SLOPE ACCESS DRIVES)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-155-8.1a	381	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		LIME (RVR DRIVES)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-155-8.2a	4	TON		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		CRUSHED AGGREGATE BASE COURSE (10" THICK) (RVR DRIVE)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-209-5.1a	260	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		CRUSHED AGGREGATE BASE COURSE (6.0" THICK)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-209-5.1b	22,025	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		SEPARATION GEOTEXTILE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-209-5.2	22,286	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		LEAN CONCRETE BASE COURSE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-306-8.1	31,904	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		CEMENT TREATED PERMEABLE BASE COURSE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-307	31,904	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		ASPHALT SURFACE COURSE (2" THICK) (OVERLAY)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-401-8.1b	3,524	TON		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		ASPHALT MIXTURE SURFACE COURSE (2" THICK) (RVR DRIVES)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-403-8.1c	29	TON		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		ASPHALT MIXTURE BINDER COURSE (2" THICK) (RVR DRIVES)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-403-8.1d	36	TON		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		CEMENT CONCRETE PAVEMENT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-501-8.1	21,502	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		COMPRESSION JOINT SEALS FOR CONCRETE PAVEMENTS	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-604-6.1	27,408	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		JOINT SEALING FILLER	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-605-5.1	27,408	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		CONCRETE (RVR RELOCATION PAD)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-610-6.1	4	CY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		SURFACE PREPARATION	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.1a	47,484	SF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		RUNWAY AND TAXIWAY MARKING (YELLOW)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.2b-1	23,307	SF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		RUNWAY AND TAXIWAY MARKING (WHITE)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.2b-2	16,575	SF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		RUNWAY AND TAXIWAY MARKING (RED)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.2b-3	9,589	SF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		RUNWAY AND TAXIWAY MARKING (BLACK)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.2b-4	53,835	SF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		REFLECTIVE MEDIA (RUNWAY)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.3c	4,302	LB		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		TEMPORARY RUNWAY AND TAXIWAY MARKING	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.4d	1	LS		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		6 INCH PIPE (PERFORATED PVC), INCLUDING POROUS BACKFILL AND FILTER FABRIC	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-705-5.4	8,678	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		SEEDING (HYDROSEEDING)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
901-5.1	21	AC		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		SODDING	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
904-5.2	5,333	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		MULCHING	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
T-908-5.1	97,217	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		REMOVAL OF EXISTING PIPES AND STRUCTURES	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-101-5.7	1	LS		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		30 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.2	1,527	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		36 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.3	674	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		18 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.7	262	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		24 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.8	285	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		36 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.9	401	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		CATCH BASIN - CB-01 (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-751-5.1	11	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		CATCH BASIN - CB-02 (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-751-5.2	2	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		NO. 8 AWG, 5 KV TYPE C CABLE, INSTALLED IN CONDUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.1	3,200	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		NO. 6 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED, ABOVE THE DUCT BANK OR CONDUIT, INCLUDING CONNECTIONS/TERMINATIONS, INCLUDING GROUND RODS	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.2	3,000	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		MODIFICATIONS TO L-854 RADIO CONTROL EQUIPMENT TO INCLUDE PANEL RELABELING, IN PLACE AND OPERATIONAL	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-109-7.2	1	LUMP		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		ELECTRICAL CONDUIT, 2" SCHEDULE 40 PVC, TYPE II INSTALLED IN TRENCH	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.1	3,200	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		ELECTRICAL CONDUIT, 2" HDPE, JACKED OR BORED UNDER TAXIWAY IN STEEL CASING (STEEL CASING INCLUDED IN THIS ITEM)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.2	500	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		ELECTRICAL DUCT, 4-WAY, 4" AND 1-WAY, 2" HIGH DENSITY POLYETHYLENE CONDUIT, DIRECTIONAL BORE, INSTALLED	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.3	100	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		ELECTRICAL JUNCTION CAN, L-867, SIZE B, CLASS 1, COMPLETE, IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-115-5.1	4	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		ELECTRICAL JUNCTION CAN, L-867, SIZE D, CLASS 1, COMPLETE, IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-115-5.2	6	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		MEDIUM INTENSITY TAXIWAY EDGE LIGHT (L-861T), WITH BLUE LENS, LED LAMP, 10/15 WATT TRANSFORMER, BASE MOUNTED, IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.1	43	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		SIGN L-858, SIZE 2, 1-PANEL, REQUIRED CONCRETE BASE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.2	3	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		SIGN L-858, SIZE 2, 2-PANEL, REQUIRED CONCRETE BASE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.3	2	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		REPLACE EXISTING SIGN PANEL, COMPLETE, IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.6	5	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		REMOVE EXISTING RUNWAY & TAXIWAY ELECTRICAL SYSTEMS	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.7	1	LUMP		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		ELECTRICAL TESTING AND UPDATE ALCS	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.8	1	LUMP		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		CONNECT TO EXISTING CIRCUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.9	1	LUMP		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		TEMPORARY COMMUNICATION LINE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-1004	1	LUMP		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		TRENCHING FOR DIRECT BURIED CABLE, 18-INCH MINIMUM DEPTH	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.1	40	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		NO. 2 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED IN TRENCH, INCLUDING CONNECTIONGS/TERMINATIONS	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.3	40	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		NO. 2 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.4a	5,420	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		NO. 6 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.4b	1,980	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		NO. 10 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.4c	21,600	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		NON-ENCASED ELECTRICAL CONDUIT (2" HDPE)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.2a	1,800	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		NON-ENCASED ELECTRICAL CONDUIT (2" SCHEDULE 80 PVC)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.2b	40	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		ELECTRICAL JUNCTION STRUCTURE (48"X48"X48" POLYMER CONCRETE)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-115-5.2	3	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		ROLLOUT RVR DISASSEMBLY	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-1001	1	LUMP		

DESCRIPTION:	☐ Base Bid or X Alt.# 1		ROLLOUT RVR REASSEMBLY	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-1002	1	LUMP		

All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM

UNIT PRICE FORM

TO: City of Baton Rouge
Parish of East Baton Rouge
Purchasing Division
Room 826, City Hall
222 St. Louis Street
Baton Rouge, Louisiana 70802

BID FOR: Baton Rouge Metropolitan Airport
Taxiway L Extension and Decommissioning of Runway 4R-22L & Taxiway E

A.I.P. No. 3-22-0006-128-2023
S.P. No. H.015713

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	☐ Base Bid or X Alt.# 2		CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
C-100	1	LS		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		INSTALLATION AND REMOVAL OF SILT FENCE (CATCH BASIN PROTECTION)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
C-102-5.1c	1,383	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		INSTALLATION AND REMOVAL OF SILT FENCE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
C-102-5.1e	2,637	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		MOBILIZATION (5.0%)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
C-105-5.1	1	LS		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		PAVEMENT REMOVAL (GA RUNWAY 4R-22L, TAXIWAY E)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-101-5.1a	8,883	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		COLD MILLING (2" DEPTH) (TAXIWAY L)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-101-5.6a	32,028	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		CLEARING AND GRUBBING	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-151-4.2	31	AC		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		UNCLASSIFIED EXCAVATION	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-152-4.1	8,633	CY		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		EMBANKMENT IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-152-4.2	12,715	CY		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		SUBBASE COURSE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-154-5.1	6,584	CY		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		LIME TREATED SUBGRADE (10" THICK) (RVR AND GLIDE SLOPE ACCESS DRIVES)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-155-8.1a	381	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		LIME (RVR DRIVES)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-155-8.2a	4	TON		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		CRUSHED AGGREGATE BASE COURSE (10" THICK) (RVR DRIVE)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-209-5.1a	260	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		CRUSHED AGGREGATE BASE COURSE (6.0" THICK)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-209-5.1b	12,999	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		SEPARATION GEOTEXTILE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-209-5.2	13,166	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ASPHALT SURFACE COURSE (2.0" THICK)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-401-8.1a	1,394	TON		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ASPHALT SURFACE COURSE (2" THICK) (OVERLAY)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-401-8.1b	3,524	TON		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ASPHALT MIXTURE BINDER COURSE (2.0" THICK)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-403-8.1a	1,412	TON		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ASPHALT BASE COURSE COURSE (5.0" THICK)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-403-8.1b	3,621	TON		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ASPHALT MIXTURE SURFACE COURSE (2" THICK) (RVR DRIVES)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-403-8.1c	29	TON		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ASPHALT MIXTURE BINDER COURSE (2" THICK) (RVR DRIVES)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-403-8.1d	36	TON		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ASPHALT TREATED PERMEABLE BASE COURSE (ATPB) (6" THICK)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-407-8.1	13,167	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		EMULSIFIED ASPHALT PRIME COAT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-602-5.1	3,850	GAL		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		EMULSIFIED ASPHALT TACK COAT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-603-5.1	5,708	GAL		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		CONCRETE (RVR RELOCATION PAD)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-610-6.1	4	CY		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		SURFACE PREPARATION	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.1a	46,813	SF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		RUNWAY AND TAXIWAY MARKING (YELLOW)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.2b-1	19,811	SF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		RUNWAY AND TAXIWAY MARKING (WHITE)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.2b-2	14,089	SF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		RUNWAY AND TAXIWAY MARKING (RED)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.2b-3	8,151	SF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		RUNWAY AND TAXIWAY MARKING (BLACK)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.2b-4	45,760	SF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		REFLECTIVE MEDIA (RUNWAY)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.3c	3,657	LB		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		TEMPORARY RUNWAY AND TAXIWAY MARKING	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-620-5.4d	1	LS		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		6 INCH PIPE (PERFORATED PVC), INCLUDING POROUS BACKFILL AND FILTER FABRIC	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-705-5.4	3,007	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		SEEDING (HYDROSEEDING)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
901-5.1	21	AC		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		SODDING	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
904-5.2	5,333	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		MULCHING	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
T-908-5.1	97,217	SY		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		REMOVAL OF EXISTING PIPES AND STRUCTURES	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
P-101-5.7	1	LS		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		30 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.2	1,527	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		36 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.3	674	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		18 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.7	262	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		24 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.8	285	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		36 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-701-5.9	401	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		CATCH BASIN - CB-01 (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-751-5.1	11	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		CATCH BASIN - CB-02 (INCLUDES BEDDING & BACKFILL)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
D-751-5.2	2	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		NO. 8 AWG, 5 KV TYPE C CABLE, INSTALLED IN CONDUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.1	3,200	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		NO. 6 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED, ABOVE THE DUCT BANK OR CONDUIT, INCLUDING CONNECTIONS/TERMINATIONS, INCLUDING GROUND RODS	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.2	3,000	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		MODIFICATIONS TO L-854 RADIO CONTROL EQUIPMENT TO INCLUDE PANEL RELABELING, IN PLACE AND OPERATIONAL	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-109-7.2	1	LUMP		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ELECTRICAL CONDUIT, 2" SCHEDULE 40 PVC, TYPE II INSTALLED IN TRENCH	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.1	3,200	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ELECTRICAL CONDUIT, 2" HDPE, JACKED OR BORED UNDER TAXIWAY IN STEEL CASING (STEEL CASING INCLUDED IN THIS ITEM)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.2	500	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ELECTRICAL DUCT, 4-WAY, 4" AND 1-WAY, 2" HIGH DENSITY POLYETHYLENE CONDUIT, DIRECTIONAL BORE, INSTALLED	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.3	100	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ELECTRICAL JUNCTION CAN, L-867, SIZE B, CLASS 1, COMPLETE, IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-115-5.1	4	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ELECTRICAL JUNCTION CAN, L-867, SIZE D, CLASS 1, COMPLETE, IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-115-5.2	6	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		MEDIUM INTENSITY TAXIWAY EDGE LIGHT (L-861T), WITH BLUE LENS, LED LAMP, 10/15 WATT TRANSFORMER, BASE MOUNTED, IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.1	43	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		SIGN L-858, SIZE 2, 1-PANEL, REQUIRED CONCRETE BASE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.2	3	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		SIGN L-858, SIZE 2, 2-PANEL, REQUIRED CONCRETE BASE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.3	2	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		REPLACE EXISTING SIGN PANEL, COMPLETE, IN PLACE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.6	5	EA		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		REMOVE EXISTING RUNWAY & TAXIWAY ELECTRICAL SYSTEMS	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.7	1	LUMP		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ELECTRICAL TESTING AND UPDATE ALCS	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.8	1	LUMP		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		CONNECT TO EXISTING CIRCUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-125-5.9	1	LUMP		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		TEMPORARY COMMUNICATION LINE	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-1004	1	LUMP		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		TRENCHING FOR DIRECT BURIED CABLE, 18-INCH MINIMUM DEPTH	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.1	40	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		NO. 2 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED IN TRENCH, INCLUDING CONNECTIONGS/TERMINATIONS	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.3	40	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		NO. 2 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.4a	5,420	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		NO. 6 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.4b	1,980	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		NO. 10 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-108-5.4c	21,600	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		NON-ENCASED ELECTRICAL CONDUIT (2" HDPE)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.2a	1,800	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		NON-ENCASED ELECTRICAL CONDUIT (2" SCHEDULE 80 PVC)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-110-5.2b	40	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ELECTRICAL JUNCTION STRUCTURE (48"X48"X48" POLYMER CONCRETE)	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
L-115-5.2	3	LF		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ROLLOUT RVR DISASSEMBLY	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-1001	1	LUMP		

DESCRIPTION:	☐ Base Bid or X Alt.# 2		ROLLOUT RVR REASSEMBLY	
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-1002	1	LUMP		

All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

Item C-100 Contractor Quality Control Program (CQCP)

100-1 General. Quality is more than test results. Quality is the combination of proper materials, testing, workmanship, equipment, inspection, and documentation of the project. Establishing and maintaining a culture of quality is key to achieving a quality project. The Contractor shall establish, provide, and maintain an effective Contractor Quality Control Program (CQCP) that details the methods and procedures that will be taken to assure that all materials and completed construction required by this contract conform to contract plans, technical specifications and other requirements, whether manufactured by the Contractor, or procured from subcontractors or vendors. Although guidelines are established and certain minimum requirements are specified here and elsewhere in the contract technical specifications, the Contractor shall assume full responsibility for accomplishing the stated purpose.

The Contractor shall establish a CQCP that will:

a. Provide qualified personnel to develop and implement the CQCP.

b. Provide for the production of acceptable quality materials.

c. Provide sufficient information to assure that the specification requirements can be met.

d. Document the CQCP process.

The Contractor shall not begin any construction or production of materials to be incorporated into the completed work until the CQCP has been reviewed and approved by the Resident Project Representative (RPR). No partial payment will be made for materials subject to specific quality control (QC) requirements until the CQCP has been reviewed and approved.

The QC requirements contained in this section and elsewhere in the contract technical specifications are in addition to and separate from the quality assurance (QA) testing requirements. QA testing requirements are the responsibility of the RPR or Contractor as specified in the specifications.

A Quality Control (QC)/Quality Assurance (QA) workshop with the Engineer, Resident Project Representative (RPR), Contractor, subcontractors, testing laboratories, and Owner's representative must be held prior to start of construction. The QC/QA workshop will be facilitated by the Contractor. The Contractor shall coordinate with the Airport and the RPR on time and location of the QC/QA workshop. Items to be addressed, at a minimum, will include:

a. Review of the CQCP including submittals, QC Testing, Action & Suspension Limits for Production, Corrective Action Plans, Distribution of QC reports, and Control Charts.

b. Discussion of the QA program.

c. Discussion of the QC and QA Organization and authority including coordination and information exchange between QC and QA.

d. Establish regular meetings to discuss control of materials, methods and testing.

e. Establishment of the overall QC culture.

100-2 Description of program.

a. General description. The Contractor shall establish a CQCP to perform QC inspection and testing of all items of work required by the technical specifications, including those performed by subcontractors. The CQCP shall ensure conformance to applicable specifications and plans with respect to materials, off-

site fabrication, workmanship, construction, finish, and functional performance. The CQCP shall be effective for control of all construction work performed under this Contract and shall specifically include surveillance and tests required by the technical specifications, in addition to other requirements of this section and any other activities deemed necessary by the Contractor to establish an effective level of QC.

b. Contractor Quality Control Program (CQCP). The Contractor shall describe the CQCP in a written document that shall be reviewed and approved by the RPR prior to the start of any production, construction, or off-site fabrication. The written CQCP shall be submitted to the RPR for review and approval at least **[** 10 **]** calendar days before the CQCP Workshop. The Contractor's CQCP and QC testing laboratory must be approved in writing by the RPR prior to the Notice to Proceed (NTP).

The CQCP shall be organized to address, as a minimum, the following:

1. QC organization and resumes of key staff
2. Project progress schedule
3. Submittals schedule
4. Inspection requirements
5. QC testing plan
6. Documentation of QC activities and distribution of QC reports
7. Requirements for corrective action when QC and/or QA acceptance criteria are not met
8. Material quality and construction means and methods. Address all elements applicable to the project that affect the quality of the pavement structure including subgrade, subbase, base, and surface course. Some elements that must be addressed include, but is not limited to mix design, aggregate grading, stockpile management, mixing and transporting, placing and finishing, quality control testing and inspection, smoothness, laydown plan, equipment, and temperature management plan.

The Contractor must add any additional elements to the CQCP that is necessary to adequately control all production and/or construction processes required by this contract.

100-3 CQCP organization. The CQCP shall be implemented by the establishment of a QC organization. An organizational chart shall be developed to show all QC personnel, their authority, and how these personnel integrate with other management/production and construction functions and personnel.

The organizational chart shall identify all QC staff by name and function, and shall indicate the total staff required to implement all elements of the CQCP, including inspection and testing for each item of work. If necessary, different technicians can be used for specific inspection and testing functions for different items of work. If an outside organization or independent testing laboratory is used for implementation of all or part of the CQCP, the personnel assigned shall be subject to the qualification requirements of paragraphs 100-03a and 100-03b. The organizational chart shall indicate which personnel are Contractor employees and which are provided by an outside organization.

The QC organization shall, as a minimum, consist of the following personnel:

a. Program Administrator. The Contractor Quality Control Program Administrator (CQCPA) must be a full-time on-site employee of the Contractor, or a consultant engaged by the Contractor. The CQCPA must have a minimum of five (5) years of experience in QC pavement construction with prior QC experience on a project of comparable size and scope as the contract.

Included in the five (5) years of paving/QC experience, the CQCPA must meet at least one of the following requirements:

(1) Professional Engineer with one (1) year of airport paving experience.

(2) Engineer-in-training with two (2) years of airport paving experience.

(3) National Institute for Certification in Engineering Technologies (NICET) Civil Engineering Technology Level IV with three (3) years of airport paving experience.

(4) An individual with four (4) years of airport paving experience, with a Bachelor of Science Degree in Civil Engineering, Civil Engineering Technology or Construction.

The CQCPA must have full authority to institute any and all actions necessary for the successful implementation of the CQCP to ensure compliance with the contract plans and technical specifications. The CQCPA authority must include the ability to immediately stop production until materials and/or processes are in compliance with contract specifications. The CQCPA must report directly to a principal officer of the construction firm. The CQCPA may supervise the Quality Control Program on more than one project provided that person can be at the job site within two (2) hours after being notified of a problem.

b. QC technicians. A sufficient number of QC technicians necessary to adequately implement the CQCP must be provided. These personnel must be either Engineers, engineering technicians, or experienced craftsman with qualifications in the appropriate field equivalent to NICET Level II in Civil Engineering Technology or higher, and shall have a minimum of two (2) years of experience in their area of expertise.

The QC technicians must report directly to the CQCPA and shall perform the following functions:

(1) Inspection of all materials, construction, plant, and equipment for conformance to the technical specifications, and as required by paragraph 100-6.

(2) Performance of all QC tests as required by the technical specifications and paragraph100-8.

(3) Performance of tests for the RPR when required by the technical specifications.

Certification at an equivalent level of qualification and experience by a state or nationally recognized organization will be acceptable in lieu of NICET certification.

c. Staffing levels. The Contractor shall provide sufficient qualified QC personnel to monitor each work activity at all times. Where material is being produced in a plant for incorporation into the work, separate plant and field technicians shall be provided at each plant and field placement location. The scheduling and coordinating of all inspection and testing must match the type and pace of work activity. The CQCP shall state where different technicians will be required for different work elements.

100-4 Project progress schedule. Critical QC activities must be shown on the project schedule as required by Section 80, paragraph 80-03, *Execution and Progress*.

100-5 Submittals schedule. The Contractor shall submit a detailed listing of all submittals (for example, mix designs, material certifications) and shop drawings required by the technical specifications. The listing can be developed in a spreadsheet format and shall include as a minimum:

a. Specification item number

b. Item description

c. Description of submittal

d. Specification paragraph requiring submittal

e. Scheduled date of submittal

100-6 Inspection requirements. QC inspection functions shall be organized to provide inspections for all definable features of work, as detailed below. All inspections shall be documented by the Contractor as specified by paragraph 100-9.

Inspections shall be performed as needed to ensure continuing compliance with contract requirements until completion of the particular feature of work. Inspections shall include the following minimum requirements:

a. During plant operation for material production, QC test results and periodic inspections shall be used to ensure the quality of aggregates and other mix components, and to adjust and control mix proportioning to meet the approved mix design and other requirements of the technical specifications. All equipment used in proportioning and mixing shall be inspected to ensure its proper operating condition. The CQCP shall detail how these and other QC functions will be accomplished and used.

b. During field operations, QC test results and periodic inspections shall be used to ensure the quality of all materials and workmanship. All equipment used in placing, finishing, and compacting shall be inspected to ensure its proper operating condition and to ensure that all such operations are in conformance to the technical specifications and are within the plan dimensions, lines, grades, and tolerances specified. The CQCP shall document how these and other QC functions will be accomplished and used.

100-7 Contractor QC testing facility.

a. For projects that include Item P-401, Item P-403, and Item P-404, the Contractor shall ensure facilities, including all necessary equipment, materials, and current reference standards, are provided that meet requirements in the following paragraphs of ASTM D3666, *Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials*:

- 8.1.3 Equipment Calibration and Checks;
- 8.1.9 Equipment Calibration, Standardization, and Check Records;
- 8.1.12 Test Methods and Procedures

b. For projects that include P-501, the Contractor shall ensure facilities, including all necessary equipment, materials, and current reference standards, are provided that meet requirements in the following paragraphs of ASTM C1077, Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation:

- 7 Test Methods and Procedures
- 8 Facilities, Equipment, and Supplemental Procedures

100-8 QC testing plan. As a part of the overall CQCP, the Contractor shall implement a QC testing plan, as required by the technical specifications. The testing plan shall include the minimum tests and test frequencies required by each technical specification Item, as well as any additional QC tests that the Contractor deems necessary to adequately control production and/or construction processes.

The QC testing plan can be developed in a spreadsheet fashion and shall, as a minimum, include the following:

a. Specification item number (e.g., P-401)

b. Item description (e.g., Hot Mix Asphalt Pavements)

c. Test type (e.g., gradation, grade, asphalt content)

d. Test standard (e.g., ASTM or American Association of State Highway and Transportation Officials (AASHTO) test number, as applicable)

e. Test frequency (e.g., as required by technical specifications or minimum frequency when requirements are not stated)

f. Responsibility (e.g., plant technician)

g. Control requirements (e.g., target, permissible deviations)

The QC testing plan shall contain a statistically-based procedure of random sampling for acquiring test samples in accordance with ASTM D3665. The RPR shall be provided the opportunity to witness QC sampling and testing.

All QC test results shall be documented by the Contractor as required by paragraph 100-9.

100-9 Documentation. The Contractor shall maintain current QC records of all inspections and tests performed. These records shall include factual evidence that the required QC inspections or tests have been performed, including type and number of inspections or tests involved; results of inspections or tests; nature of defects, deviations, causes for rejection, etc.; proposed remedial action; and corrective actions taken.

These records must cover both conforming and defective or deficient features, and must include a statement that all supplies and materials incorporated in the work are in full compliance with the terms of the contract. Legible copies of these records shall be furnished to the RPR daily. The records shall cover all work placed subsequent to the previously furnished records and shall be verified and signed by the CQCPA.

Contractor QC records required for the contract shall include, but are not necessarily limited to, the following records:

a. Daily inspection reports. Each Contractor QC technician shall maintain a daily log of all inspections performed for both Contractor and subcontractor operations. These technician's daily reports shall provide factual evidence that continuous QC inspections have been performed and shall, as a minimum, include the following:

(1) Technical specification item number and description

(2) Compliance with approved submittals

(3) Proper storage of materials and equipment

(4) Proper operation of all equipment

(5) Adherence to plans and technical specifications

(6) Summary of any necessary corrective actions

(7) Safety inspection.

(8) Photographs and/or video

The daily inspection reports shall identify all QC inspections and QC tests conducted, results of inspections, location and nature of defects found, causes for rejection, and remedial or corrective actions taken or proposed.

The daily inspection reports shall be signed by the responsible QC technician and the CQCPA. The RPR shall be provided at least one copy of each daily inspection report on the work day following the day of record. When QC inspection and test results are recorded and transmitted electronically, the results must be archived.

b. Daily test reports. The Contractor shall be responsible for establishing a system that will record all QC test results. Daily test reports shall document the following information:

(1) Technical specification item number and description

(2) Test designation

(3) Location

(4) Date of test

(5) Control requirements

(6) Test results
(7) Causes for rejection
(8) Recommended remedial actions
(9) Retests

Test results from each day's work period shall be submitted to the RPR prior to the start of the next day's work period. When required by the technical specifications, the Contractor shall maintain statistical QC charts. When QC daily test results are recorded and transmitted electronically, the results must be archived.

100-10 Corrective action requirements. The CQCP shall indicate the appropriate action to be taken when a process is deemed, or believed, to be out of control (out of tolerance) and detail what action will be taken to bring the process into control. The requirements for corrective action shall include both general requirements for operation of the CQCP as a whole, and for individual items of work contained in the technical specifications.

The CQCP shall detail how the results of QC inspections and tests will be used for determining the need for corrective action and shall contain clear rules to gauge when a process is out of control and the type of correction to be taken to regain process control.

When applicable or required by the technical specifications, the Contractor shall establish and use statistical QC charts for individual QC tests. The requirements for corrective action shall be linked to the control charts.

100-11 Inspection and/or observations by the RPR. All items of material and equipment are subject to inspection and/or observation by the RPR at the point of production, manufacture or shipment to determine if the Contractor, producer, manufacturer or shipper maintains an adequate QC system in conformance with the requirements detailed here and the applicable technical specifications and plans. In addition, all items of materials, equipment and work in place shall be subject to inspection and/or observation by the RPR at the site for the same purpose.

Inspection and/or observations by the RPR does not relieve the Contractor of performing QC inspections of either on-site or off-site Contractor's or subcontractor's work.

100-12 Noncompliance.

a. The Resident Project Representative (RPR) will provide written notice to the Contractor of any noncompliance with their CQCP. After receipt of such notice, the Contractor must take corrective action.

b. When QC activities do not comply with either the CQCP or the contract provisions or when the Contractor fails to properly operate and maintain an effective CQCP, and no effective corrective actions have been taken after notification of non-compliance, the RPR will recommend the Owner take the following actions:

(1) Order the Contractor to replace ineffective or unqualified QC personnel or subcontractors and/or

(2) Order the Contractor to stop operations until appropriate corrective actions are taken.

METHOD OF MEASUREMENT

100-13 Basis of measurement and payment. Contractor Quality Control Program (CQCP) is for the personnel, tests, facilities and documentation required to implement the CQCP. The CQCP will be paid as a lump sum with the following schedule of partial payments:

a. With first pay request, 25% with approval of CQCP and completion of the Quality Control (QC)/Quality Assurance (QA) workshop.

b. When 25% or more of the original contract is earned, an additional 25%.

c. When 50% or more of the original contract is earned, an additional 20%.

d. When 75% or more of the original contract is earned, an additional 20%

e. After final inspection and acceptance of project, the final 10%.

BASIS OF PAYMENT

100-14 Payment will be made under:

Item C-100 Contractor Quality Control Program (CQCP) per lump sum

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

National Institute for Certification in Engineering Technologies (NICET)

ASTM International (ASTM)

ASTM C1077	Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation
ASTM D3665	Standard Practice for Random Sampling of Construction Materials
ASTM D3666	Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials

END OF ITEM C-100

Item C-102 Temporary Air and Water Pollution, Soil Erosion, and Siltation Control

DESCRIPTION

102-1. This item shall consist of temporary control measures as shown on the plans or as ordered by the Resident Project Representative (RPR) during the life of a contract to control pollution of air and water, soil erosion, and siltation through the use of silt fences, berms, dikes, dams, sediment basins, fiber mats, gravel, mulches, grasses, slope drains, and other erosion control devices or methods.

Temporary erosion control shall be in accordance with the approved erosion control plan; the approved Construction Safety and Phasing Plan (CSPP) and AC 150/5370-2, *Operational Safety on Airports During Construction*. The temporary erosion control measures contained herein shall be coordinated with the permanent erosion control measures specified as part of this contract to the extent practical to assure economical, effective, and continuous erosion control throughout the construction period.

Temporary control may include work outside the construction limits such as borrow pit operations, equipment and material storage sites, waste areas, and temporary plant sites.

Temporary control measures shall be designed, installed and maintained to minimize the creation of wildlife attractants that have the potential to attract hazardous wildlife on or near public-use airports.

MATERIALS

102-2.1 Grass. Grass that will not compete with the grasses sown later for permanent cover per Item T-901shall be a quick-growing species (such as ryegrass, Italian ryegrass, or cereal grasses) suitable to the area providing a temporary cover. Selected grass species shall not create a wildlife attractant.

102-2.2 Mulches. Mulches may be hay, straw, fiber mats, netting, bark, wood chips, or other suitable material reasonably clean and free of noxious weeds and deleterious materials per Item T-908. Mulches shall not create a wildlife attractant.

102-2.3 Fertilizer. Fertilizer shall be a standard commercial grade and shall conform to all federal and state regulations and to the standards of the Association of Official Agricultural Chemists.

102-2.4 Slope drains. Slope drains may be constructed of pipe, fiber mats, rubble, concrete, asphalt, or other materials that will adequately control erosion.

102-2.5 Silt fence. Silt fence shall consist of polymeric filaments which are formed into a stable network such that filaments retain their relative positions. Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of six months of expected usable construction life. Silt fence shall meet the requirements of ASTM D6461.

102-2.6 Other. All other materials shall meet commercial grade standards and shall be approved by the RPR before being incorporated into the project.

CONSTRUCTION REQUIREMENTS

102-3.1 General. In the event of conflict between these requirements and pollution control laws, rules, or regulations of other federal, state, or local agencies, the more restrictive laws, rules, or regulations shall apply.

The RPR shall be responsible for assuring compliance to the extent that construction practices, construction operations, and construction work are involved.

102-3.2 Schedule. Prior to the start of construction, the Contractor shall submit schedules in accordance with the approved Construction Safety and Phasing Plan (CSPP) and the plans for accomplishment of temporary and permanent erosion control work for clearing and grubbing; grading; construction; paving; and structures at watercourses. The Contractor shall also submit a proposed method of erosion and dust control on haul roads and borrow pits and a plan for disposal of waste materials. Work shall not be started until the erosion control schedules and methods of operation for the applicable construction have been accepted by the RPR.

102-3.3 Construction details. The Contractor will be required to incorporate all permanent erosion control features into the project at the earliest practicable time as outlined in the plans and approved CSPP. Except where future construction operations will damage slopes, the Contractor shall perform the permanent seeding and mulching and other specified slope protection work in stages, as soon as substantial areas of exposed slopes can be made available. Temporary erosion and pollution control measures will be used to correct conditions that develop during construction that were not foreseen during the design stage; that are needed prior to installation of permanent control features; or that are needed temporarily to control erosion that develops during normal construction practices, but are not associated with permanent control features on the project.

Where erosion may be a problem, schedule and perform clearing and grubbing operations so that grading operations and permanent erosion control features can follow immediately if project conditions permit. Temporary erosion control measures are required if permanent measures cannot immediately follow grading operations. The RPR shall limit the area of clearing and grubbing, excavation, borrow, and embankment operations in progress, commensurate with the Contractor's capability and progress in keeping the finish grading, mulching, seeding, and other such permanent control measures current with the accepted schedule. If seasonal limitations make such coordination unrealistic, temporary erosion control measures shall be taken immediately to the extent feasible and justified as directed by the RPR.

The Contractor shall provide immediate permanent or temporary pollution control measures to minimize contamination of adjacent streams or other watercourses, lakes, ponds, or other areas of water impoundment as directed by the RPR. If temporary erosion and pollution control measures are required due to the Contractor's negligence, carelessness, or failure to install permanent controls as a part of the work as scheduled or directed by the RPR, the work shall be performed by the Contractor and the cost shall be incidental to this item.

The RPR may increase or decrease the area of erodible earth material that can be exposed at any time based on an analysis of project conditions.

The erosion control features installed by the Contractor shall be maintained by the Contractor during the construction period.

Provide temporary structures whenever construction equipment must cross watercourses at frequent intervals. Pollutants such as fuels, lubricants, bitumen, raw sewage, wash water from concrete mixing operations, and other harmful materials shall not be discharged into any waterways, impoundments or into natural or manmade channels.

102-3.4 Installation, maintenance and removal of silt fence. Silt fences shall extend a minimum of 16 inches (41 cm) and a maximum of 34 inches (86 cm) above the ground surface. Posts shall be set no more than 10 feet (3 m) on center. Filter fabric shall be cut from a continuous roll to the length required minimizing joints where possible. When joints are necessary, the fabric shall be spliced at a support post with a minimum 12-inch (300-mm) overlap and securely sealed. A trench shall be excavated approximately 4 inches (100 mm) deep by 4 inches (100 mm) wide on the upslope side of the silt fence. The trench shall be backfilled and the soil compacted over the silt fence fabric. The Contractor shall

remove and dispose of silt that accumulates during construction and prior to establishment of permanent erosion control. The fence shall be maintained in good working condition until permanent erosion control is established. Silt fence shall be removed upon approval of the RPR.

METHOD OF MEASUREMENT

102-4.1 Temporary erosion and pollution control work required will be performed as scheduled or directed by the RPR. Completed and accepted work will be measured as follows:

a. Temporary seeding and mulching will be measured by the square yard (square meter).

b. Temporary slope drains will be measured by the linear foot (meter).

c. Temporary benches, dikes, dams, and sediment basins will be measured by the cubic yard (cubic meter) of excavation performed, including necessary cleaning of sediment basins, and the cubic yard (cubic meter) of embankment placed as directed by the RPR.

d. All fertilizing will be measured by the ton (kg).

e. Installation and removal of silt fence will be measured by the lump sum.

102-4.2 Control work performed for protection of construction areas outside the construction limits, such as borrow and waste areas, haul roads, equipment and material storage sites, and temporary plant sites, will not be measured and paid for directly but shall be considered as a subsidiary obligation of the Contractor.

BASIS OF PAYMENT

102-5.1 Accepted quantities of temporary water pollution, soil erosion, and siltation control work ordered by the RPR and measured as provided in paragraph 102-4.1 will be paid for under:

Item C-102-5.1a	Temporary seeding and mulching - per square yard (square meter)
Item C-102-5.1b	Temporary slope drains - per linear foot (meter)
Item C-102-5.1c	Temporary benches, dikes, dams and sediment basins - per cubic yard (cubic meter)
Item C-102-5.1d	Fertilizing - per ton (kg)
Item C-102-5.1e	Installation and removal of silt fence lump sum

Where other directed work falls within the specifications for a work item that has a contract price, the units of work shall be measured and paid for at the contract unit price bid for the various items.

Temporary control features not covered by contract items that are ordered by the RPR will be paid for in accordance with Section 90, paragraph 90-05 *Payment for Extra Work*.

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Advisory Circulars (AC)

AC 150/5200-33	*Hazardous Wildlife Attractants on or Near Airports*
AC 150/5370-2	*Operational Safety on Airports During Construction*

ASTM International (ASTM)

ASTM D6461 *Standard Specification for Silt Fence Materials*

United States Department of Agriculture (USDA)

FAA/USDA Wildlife Hazard Management at Airports, A Manual for Airport Personnel

END OF ITEM C-102

Item C-105 Mobilization

105-1 Description. This item of work shall consist of, but is not limited to, work and operations necessary for the movement of personnel, equipment, material and supplies to and from the project site for work on the project except as provided in the contract as separate pay items.

105-2 Mobilization limit. Mobilization shall be limited to 10 percent of the total project cost.

105-3 Posted notices. Prior to commencement of construction activities, the Contractor must post the following documents in a prominent and accessible place where they may be easily viewed by all employees of the prime Contractor and by all employees of subcontractors engaged by the prime Contractor: Equal Employment Opportunity (EEO) Poster "Equal Employment Opportunity is the Law" in accordance with the Office of Federal Contract Compliance Programs Executive Order 11246, as amended; Davis Bacon Wage Poster (WH 1321) - DOL "Notice to All Employees" Poster; and Applicable Davis-Bacon Wage Rate Determination. These notices must remain posted until final acceptance of the work by the Owner.

105-4 Engineer/RPR field office. The Contractor shall provide dedicated space for the use of the field RPR and inspectors, as a field office for the duration of the project. This space shall be located conveniently near the construction and shall be separate from any space used by the Contractor. The Contractor shall furnish water, sanitary facilities, heat, air conditioning, and electricity in accordance with local building codes.

METHOD OF MEASUREMENT

105-5 Basis of measurement and payment. Based upon the contract lump sum price for "Mobilization" partial payments will be allowed as follows:

a. With first pay request, 25%.

b. When 25% or more of the original contract is earned, an additional 25%.

c. When 50% or more of the original contract is earned, an additional 40%.

d. After Final Inspection, Staging area clean-up and delivery of all Project Closeout materials as required by Section 90, paragraph 90-11, *Contractor Final Project Documentation*, the final 10%.

BASIS OF PAYMENT

105-6 Payment will be made under:

Item C-105	Mobilization per lump sum

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Office of Federal Contract Compliance Programs (OFCCP)

Executive Order 11246, as amended

EEOC-P/E-1 – Equal Employment Opportunity is the Law Poster

United States Department of Labor, Wage and Hour Division (WHD)

WH 1321 – Employee Rights under the Davis-Bacon Act Poster

END OF ITEM C-105

Item P-620 Runway and Taxiway Marking

DESCRIPTION

620-1.1 This item shall consist of the preparation and painting of numbers, markings, and stripes on the surface of runways, taxiways, and aprons, in accordance with these specifications and at the locations shown on the plans, or as directed by the Resident Project Representative (RPR). The terms "paint" and "marking material" as well as "painting" and "application of markings" are interchangeable throughout this specification.

MATERIALS

620-2.1 Materials acceptance. The Contractor shall furnish manufacturer's certified test reports, for materials shipped to the project. The certified test reports shall include a statement that the materials meet the specification requirements. This certification along with a copy of the paint manufacturer's surface preparation; marking materials, including adhesion, flow promoting and/or floatation additive; and application requirements must be submitted and approved by the Resident Project Representative (RPR) prior to the initial application of markings. The reports can be used for material acceptance or the RPR may perform verification testing. The reports shall not be interpreted as a basis for payment. The Contractor shall notify the RPR upon arrival of a shipment of materials to the site. All material shall arrive in sealed containers that are easily quantifiable for inspection by the RPR.

620-2.2 Marking materials.

Table 1. Marking Materials

Paint[1]				Glass Beads[2]	
Type	**Color**	**Fed Std. 595 Number**	**Application Rate Maximum**	**Type**	**Application Rate Minimum**
Type I	*	*	115ft²/gal max (2.8 m²/l)	Type III	10 lb/gal min (1.2 kg/l)

Glass beads shall be distributed upon the marked areas at the locations shown on the plans to receive glass beads immediately after application of the paint. A dispenser shall be furnished that is properly designed for attachment to the marking machine and suitable for dispensing glass beads. Glass beads shall be applied at the rate shown in Table 1. Glass beads shall not be applied to black paint or green paint. Glass beads shall be adhere to the cured paint or all marking operations shall cease until corrections are made. Different bead types shall not be mixed. Regular monitoring of glass bead embedment should be performed.

All emptied containers shall be returned to the paint storage area for checking be the Engineer. The containers shall not be removed from the airport or destroyed until authorized by the Engineer.

[1] See paragraph 620-2.2a

[2] See paragraph 620-2.2b

a. Paint. Paint shall be waterborne in accordance with the requirements of this paragraph. Paint colors shall comply with Federal Standard No. 595. Type I

Waterborne. Paint shall meet the requirements of Federal Specification TT-P-1952F, Type I. The non-volatile portion of the vehicle for all paint types shall be composed of a 100% acrylic polymer as determined by infrared spectral analysis.

b. Reflective media. Glass beads for white and yellow paint shall meet the requirements for Federal Specification TT-B-1325D Type III.

Glass beads for red and pink paint shall meet the requirements for Type I, Gradation A .

Glass beads shall be treated with all compatible coupling agents recommended by the manufacturers of the paint and reflective media to ensure adhesion and embedment.

Glass beads shall not be used in black and green paint.

Type III glass beads shall not be used in red and pink paint.

CONSTRUCTION METHODS

620-3.1 Weather limitations. Painting shall only be performed when the surface is dry, and the ambient temperature and the pavement surface temperature meet the manufacturer's recommendations in accordance with paragraph 620-2.1. Painting operations shall be discontinued when the ambient or surface temperatures does not meet the manufacturer's recommendations. Markings shall not be applied when the wind speed exceeds 10 mph unless windscreens are used to shroud the material guns. Markings shall not be applied when weather conditions are forecasts to not be within the manufacturers' recommendations for application and dry time.

620-3.2 Equipment. Equipment shall include the apparatus necessary to properly clean the existing surface, a mechanical marking machine, a bead dispensing machine, and such auxiliary hand-painting equipment as may be necessary to satisfactorily complete the job.

The mechanical marker shall be an atomizing spray-type or airless type marking machine with automatic glass bead dispensers suitable for application of traffic paint. It shall produce an even and uniform film thickness and appearance of both paint and glass beads at the required coverage and shall apply markings of uniform cross-sections and clear-cut edges without running or spattering and without over spray. The marking equipment for both paint and beads shall be calibrated daily.

620-3.3 Preparation of surfaces. Immediately before application of the paint, the surface shall be dry and free from dirt, grease, oil, laitance, or other contaminates that would reduce the bond between the paint and the pavement. Use of any chemicals or impact abrasives during surface preparation shall be approved in advance by the RPR. After the cleaning operations, sweeping, blowing, or rinsing with pressurized water shall be performed to ensure the surface is clean and free of grit or other debris left from the cleaning process.

a. Preparation of new pavement surfaces. The area to be painted shall be cleaned by broom, blower, water blasting, or by other methods approved by the RPR to remove all contaminants, including PCC curing compounds, minimizing damage to the pavement surface.

b. Preparation of pavement to remove existing markings. Existing pavement markings shall be removed by rotary grinding, water blasting, or by other methods approved by the RPR minimizing damage to the pavement surface. The removal area may need to be larger than the area of the markings to eliminate ghost markings. After removal of markings on asphalt pavements, apply a fog seal or seal coat to 'block out' the removal area to eliminate 'ghost' markings.

c. Preparation of pavement markings prior to remarking. Prior to remarking existing markings, loose existing markings must be removed minimizing damage to the pavement surface, with a method approved by the RPR. After removal, the surface shall be cleaned of all residue or debris.

Prior to the application of markings, the Contractor shall certify in writing that the surface is dry and free from dirt, grease, oil, laitance, or other foreign material that would prevent the bond of the paint to the pavement or existing markings. This certification along with a copy of the paint manufactures application and surface preparation requirements must be submitted to the RPR prior to the initial application of markings.

620-3.4 Layout of markings. The proposed markings shall be laid out in advance of the paint application. The locations of markings to receive glass beads shall be shown on the plans.

620-3.5 Application. A period of 30 days shall elapse between placement of surface course or seal coat and application of the permanent paint markings. Paint shall be applied at the locations and to the dimensions and spacing shown on the plans. Paint shall not be applied until the layout and condition of the surface has been approved by the RPR.

The edges of the markings shall not vary from a straight line more than 1/2 inch (12 mm) in 50 feet (15 m), and marking dimensions and spacing shall be within the following tolerances:

Marking Dimensions and Spacing Tolerance

Dimension and Spacing	Tolerance
36 inch (910 mm) or less	±1/2 inch (12 mm)
greater than 36 inch to 6 feet (910 mm to 1.85 m)	±1 inch (25 mm)
greater than 6 feet to 60 feet (1.85 m to 18.3 m)	±2 inch (50 mm)
greater than 60 feet (18.3 m)	±3 inch (76 mm)

The paint shall be mixed in accordance with the manufacturer's instructions and applied to the pavement with a marking machine at the rate shown in Table 1. The addition of thinner will not be permitted.

Glass beads shall be distributed upon the marked areas at the locations shown on the plans to receive glass beads immediately after application of the paint. A dispenser shall be furnished that is properly designed for attachment to the marking machine and suitable for dispensing glass beads. Glass beads shall be applied at the rate shown in Table 1. Glass beads shall not be applied to black paint or green paint. Glass beads shall adhere to the cured paint or all marking operations shall cease until corrections are made. Different bead types shall not be mixed. Regular monitoring of glass bead embedment and distribution should be performed.

620-3.7 Control strip. Prior to the full application of airfield markings, the Contractor shall prepare a control strip in the presence of the RPR. The Contractor shall demonstrate the surface preparation method and all striping equipment to be used on the project. The marking equipment must achieve the prescribed application rate of paint and population of glass beads (per Table 1) that are properly embedded and evenly distributed across the full width of the marking. Prior to acceptance of the control strip, markings must be evaluated during darkness to ensure a uniform appearance.

620-3.8 Retro-reflectance. Reflectance shall be measured with a portable retro-reflectometer meeting ASTM E1710 (or equivalent). A total of 6 reading shall be taken over a 6 square foot area with 3 readings taken from each direction. The average shall be equal to or above the minimum levels of all readings which are within 30% of each other.

Minimum Retro-Reflectance Values

Material	Retro-reflectance mcd/m^2/lux		
	White	**Yellow**	**Red**
Initial Type I	300	175	35
Initial Type III	600	300	35
Initial Thermoplastic	225	100	35
All materials, remark when less than[1]	100	75	10

[1] 'Prior to remarking determine if removal of contaminants on markings will restore retro-reflectance]

620-3.9 Protection and cleanup. After application of the markings, all markings shall be protected from damage until dry. All surfaces shall be protected from excess moisture and/or rain and from disfiguration by spatter, splashes, spillage, or drippings. The Contractor shall remove from the work area all debris, waste, loose reflective media, and by-products generated by the surface preparation and application operations to the satisfaction of the RPR. The Contractor shall dispose of these wastes in strict compliance with all applicable state, local, and federal environmental statutes and regulations.

METHOD OF MEASUREMENT

620-4.1a The quantity of surface preparation shall be incidental to the pavement marking.

620-4.1b The quantity of markings shall be paid for shall be measured by the number of square feet (square meters) of painting.

620-4.1c The quantity of reflective media shall be incidental to the pavement marking.

620-4.1d The quantity of temporary markings to be paid for shall be lump sum price performed in accordance with the specifications and accepted by the RPR. Temporary marking includes surface preparation, application and complete removal of the temporary marking.

BASIS OF PAYMENT

620-5.1 This price shall be full compensation for furnishing all materials and for all labor, equipment, tools, and incidentals necessary to complete the item complete in place and accepted by the RPR in accordance with these specifications.

620-5.2b Payment for markings shall be made at the contract price for by the number of square feet (square meters) of painting.

620-5.4d Payment for temporary markings shall be made at the contract price lump sum price. This price shall be full compensation for furnishing all materials and for all labor, equipment, tools, and incidentals necessary to complete the item.

Payment will be made under:

Item P-620-5.1 Surface Preparation per square foot (square meter)

Item P-620-5.2b	Marking per square foot (square meter)
Item P-620-5.3c	Reflective Media per pound (km)
Item P-620-5.4d	Temporary runway and taxiway marking per square foot, per square meter, lump sum price.

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM International (ASTM)

ASTM D476	Standard Classification for Dry Pigmentary Titanium Dioxide Products
ASTM D968	Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive
ASTM D1652	Standard Test Method for Epoxy Content of Epoxy Resins
ASTM D2074	Standard Test Method for Total, Primary, Secondary, and Tertiary Amine Values of Fatty Amines by Alternative Indicator Method
ASTM D2240	Standard Test Method for Rubber Property - Durometer Hardness
ASTM D7585	Standard Practice for Evaluating Retroreflective Pavement Markings Using Portable Hand-Operated Instruments
ASTM E303	Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester
ASTM E1710	Standard Test Method for Measurement of Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retroreflectometer
ASTM E2302	Standard Test Method for Measurement of the Luminance Coefficient Under Diffuse Illumination of Pavement Marking Materials Using a Portable Reflectometer
ASTM G154	Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials

Code of Federal Regulations (CFR)

40 CFR Part 60, Appendix A-7, Method 24	Determination of volatile matter content, water content, density, volume solids, and weight solids of surface coatings
29 CFR Part 1910.1200	Hazard Communication

Federal Specifications (FED SPEC)

FED SPEC TT-B-1325D	Beads (Glass Spheres) Retro-Reflective
FED SPEC TT-P-1952F	Paint, Traffic and Airfield Marking, Waterborne
FED STD 595	Colors used in Government Procurement

Commercial Item Description

A-A-2886B	Paint, Traffic, Solvent Based

Advisory Circulars (AC)

AC 150/5340-1	Standards for Airport Markings
AC 150/5320-12	Measurement, Construction, and Maintenance of Skid Resistant Airport Pavement Surfaces

END OF ITEM P-620

ADDENDUM 2

REVISED PLAN SHEETS

SUMMARY OF ESTIMATED QUANTITIES--PHASE I BASE BID

ITEM	DESCRIPTION	UNIT	TOTAL QUANTITY
	TAXIWAY PAVEMENT AND EARTHWORK		
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	LS	1
C-102-S.1c	INSTALLATION AND REMOVAL OF SILT FENCE (CATCH 8ASIN PROTECTION)	LF	2,30S
C-102-5.1e	INSTALLATION AND REMOVAL OF SILT FENCE	LF	3,692
C-105-5.1	MO8ILIZATION (5.0%)	LS	1
P-101-5.1a	PAVEMENT REMOVAL (GA RUNWAY 4R-22L, TAXIWAY E)	SY	17,259
P-101-S.6a	COLD MILLING (2" DEPTH) (TAXIWAY L)	SY	32,028
P-151-4.2	CLEARING AND GRU88ING	AC	31
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	32,244
P-1S2-4.2	EM8ANKMENT IN PLACE	CY	12,978
P-154-5.1	SU88ASE COURSE	CY	11,143
P-155-8.1a	LIME TREATED SU8GRADE (10" THICK) (RVR AND GLIDE SLOPE ACCESS DRIVES)	SY	381
P-1SS-8.2a	LIME (RVR DRIVES)	TON	4
P-209-5.1a	CRUSHED AGGREGATE 8ASE COURSE (10" THICK) (RVR DRIVE)	SY	260
P-209-5.1b	CRUSHED AGGREGATE 8ASE COURSE (6.0" THICK)	SY	22,025
P-209-S.2	SEPARATION GEOTEXTILE	SY	22,286
P-401-8.1a	ASPHALT SURFACE COURSE (2.0" THICK)	TON	2,366
P-403-8.1a	ASPHALT MIXTURE 8INDER COURSE (2.0" THICK)	TON	2,395
P-403-8.1b	ASPHALT 8ASE COURSE COURSE (S.0" THICK)	TON	6,129
P-403-8.1c	ASPHALT MIXTURE SURFACE COURSE (2" THICK) (RVR DRIVES)	TON	29
P-401-8.1b	ASPHALT SURFACE COURSE (2" THICK) (OVERLAY)	TON	3,524
P-403-8.1d	ASPHALT MIXTURE 8INDER COURSE (2" THICK) (RVR DRIVES)	TON	36
P-407-8.1	ASPHALT TREATED PERMEA8LE 8ASE COURSE (ATP8) (6" THICK)	SY	22,286
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	GAL	6,530
P-603-S.1	EMULSIFIED ASPHALT TACK COAT	GAL	8,S66
P-610-6.1	CONCRETE (RVR RELOCATION PAD)	CY	4
P-620-5.1a	SURFACE PREPARATION	SF	47,484
P-620-S.2b-1	RUNWAY AND TAXIWAY MARKING (YELLOW)	SF	23,307
P-620-5.2b-2	RUNWAY AND TAXIWAY MARKING (WHITE)	SF	16,575
P-620-5.2b-3	RUNWAY AND TAXIWAY MARKING (RED)	SF	9,589
P-620-S.2b-4	RUNWAY AND TAXIWAY MARKING (8LACK)	SF	S3,83S
P-620-5.3c	REFLECTIVE MEDIA (RUNWAY)	L8	4,302
P-620-5.4d	TEMPORARY RUNWAY AND TAXIWAY MARKING	LS	1
D-70S-S.4	6 INCH PIPE (PERFORATED PVC), INCLUDING POROUS 8ACKFILL AND FILTER FA8RIC	LF	4,702
901-5.1	SEEDING (HYDROSEEDING)	AC	21
904-5.2	SODDING	SY	5,333
T-908-5.1	MULCHING	SY	97,217
	DRAINAGE, PERIMETER ROAD, PERIMETER FENCE		
P-101-S.1a	ASPHALT PAVEMENT AND 8ASE REMOVAL	SY	0
P-101-S.1b	CONCRETE PAVEMENT REMOVAL	SY	0
P-101-5.6	COLD MILLING (DEPTH VARIES)	SY	0
P-101-S.7	REMOVAL OF EXISTING PIPES AND STRUCTURES	LS	1
P-1S1-4.1	CLEARING (REMOVAL OF EXISTING FENCE AND CONCRETE MAINTENANCE PAD)	LS	0
P-151-4.2	CLEARING AND GRU88ING (REMOVAL OF GRASS)	AC	0
P-1S2-4.1	UNCLASSIFIED EXCAVATION	CY	0
P-1S2-4.2	MUCK EXCAVATION	CY	0
P-152-4.3	EM8ANKMENT IN PLACE - GENERAL	CY	0
P-1S2-4.4	EM8ANKMENT IN PLACE - SELECT FILL	CY	0
P-1S3-6.1	CONTROLLED LOW-STRENGTH MATERIAL (CLSM)	CY	0
P-155-8.1	LIME TREATED SU8GRADE	SY	0
P-1SS-8.2	LIME	TON	0
P-209-S.1c	CRUSHED AGGREGATE 8ASE COURSE (8" THICK)	SY	0
P-209-5.2	SEPERATION GEOTEXTILE	SY	0
P-403-8.1a	ASPHALT MIXTURE SURFACE COURSE	TON	0
P-403-8.1b	ASPHALT MIXTURE 8INDER COURSE	TON	0
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	GAL	0
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	GAL	0
P-620-S.2b	PAINTED TRAFFIC STRIPING	SF	0
P-620-5.2c	REFLECTIVE MEDIA	L8S	0
D-701-5.1	15 INCH RCP (CLASS IV) (INCLUDES 8EDDING & 8ACKFILL)	LF	0
D-701-S.2	30 INCH RCP (CLASS IV) (INCLUDES 8EDDING & 8ACKFILL)	LF	1,S27
D-701-5.3	36 INCH RCP (CLASS IV) (INCLUDES 8EDDING & 8ACKFILL)	LF	674
D-701-5.4	42 INCH RCP (CLASS IV) (INCLUDES 8EDDING & 8ACKFILL)	LF	0
D-701-S.S	48 INCH RCP (CLASS IV) (INCLUDES 8EDDING & 8ACKFILL)	LF	0
D-701-5.6	15 INCH RCPA (CLASS AIV) (INCLUDES 8EDDING & 8ACKFILL)	LF	0
D-701-5.7	18 INCH RCPA (CLASS AIV) (INCLUDES 8EDDING & 8ACKFILL)	LF	262
D-701-S.8	24 INCH RCPA (CLASS AIV) (INCLUDES 8EDDING & 8ACKFILL)	LF	28S
D-701-5.9	36 INCH RCPA (CLASS AIV) (INCLUDES 8EDDING & 8ACKFILL)	LF	401
D-701-5.10	42 INCH RCPA (CLASS AIV) (INCLUDES 8EDDING & 8ACKFILL)	LF	0
D-7S1-S.1	CATCH 8ASIN - C8-01 (INCLUDES 8EDDING & 8ACKFILL)	EA	11
D-751-5.2	CATCH 8ASIN - C8-02 (INCLUDES 8EDDING & 8ACKFILL)	EA	2
D-751-5.3	CATCH 8ASIN - C8-SD02 (INCLUDES 8EDDING & 8ACKFILL)	EA	0
F-162-5.1	CHAIN-LINK FENCE (6 FT HT. W/ 3 STRANDS 8AR8ED WIRE)	LF	0
F-162-5.3	CONCRETE MAINTENANCE PAD	LF	0
LA-731-02	REFLECTORIZED RAISED PAVEMENT MARKERS (WHITE / WHITE)	EA	0
S-1003	SECURITY SIGNS	LS	0
	TAXIWAY EDGE LIGHTING AND SIGNING		
L-108-5.1	NO. 8 AWG, 5 KV TYPE C CA8LE, INSTALLED IN CONDUIT	LF	3,200
L-108-S.2	NO. 6 AWG, SOLID, 8ARE COPPER COUNTERPOISE WIRE, INSTALLED, A8OVE THE DUCT 8ANK OR CONDUIT, INCLUDING CONNECTIONS/TERMINATIONS, INCLUDING GROUND RODS	LF	3,000
L-109-7.2	MODIFICATIONS TO L-854 RADIO CONTROL EQUIPMENT TO INCLUDE PANEL RELA8ELING, IN PLACE AND OPERATIONAL	LUMP	1
L-110-S.1	ELECTRICAL CONDUIT, 2" SCHEDULE 40 PVC, TYPE II INSTALLED IN TRENCH	LF	3,200
L-110-S.2	ELECTRICAL CONDUIT, 2" HDPE, JACKED OR 8ORED UNDER TAXIWAY IN STEEL CASING (STEEL CASING INCLUDED IN THIS ITEM)	LF	S00
L-110-S.3	ELECTRICAL DUCT, 4-WAY, 4" AND 1-WAY, 2" HIGH DENSITY POLYETHYLENE CONDUIT, DIRECTIONAL 8ORE, INSTALLED	LF	100
L-11S-S.1	ELECTRICAL JUNCTION CAN, L-867, SIZE 8, CLASS 1, COMPLETE, IN PLACE	EA	4
L-11S-S.2	ELECTRICAL JUNCTION CAN, L-867, SIZE D, CLASS 1, COMPLETE, IN PLACE	EA	6
L-125-5.1	MEDIUM INTENSITY TAXIWAY EDGE LIGHT (L-861T), WITH 8LUE LENS, LED LAMP, 10/1S WATT TRANSFORMER, 8ASE MOUNTED, IN PLACE	EA	43
L-125-5.2	SIGN L-858, SIZE 2, 1-PANEL, REQUIRED CONCRETE 8ASE	EA	3
L-12S-S.3	SIGN L-8S8, SIZE 2, 2-PANEL, REQUIRED CONCRETE 8ASE	EA	2
L-12S-S.6	REPLACE EXISTING SIGN PANEL, COMPLETE, IN PLACE	EA	S
L-125-5.7	REMOVE EXISTING RUNWAY & TAXIWAY ELECTRICAL SYSTEMS	LUMP	1
L-125-5.8	ELECTRICAL TESTING AND UPDATE ALCS	LUMP	1
L-125-5.9	CONNECT TO EXISTING CIRCUIT	LUMP	1
S-1004	TEMPORARY COMMUNICATION LINE	LUMP	1
	NAVAIDS (RVR RELOCATION)		
L-108-S.1	TRENCHING FOR DIRECT 8URIED CA8LE, 18-INCH MINIMUM DEPTH	LF	40
L-108-S.3	NO. 2 AWG, SOLID, 8ARE COPPER COUNTERPOISE WIRE, INSTALLED IN TRENCH, INCLUDING CONNECTIONGS/TERMINATIONS	LF	40
L-108-S.4a	NO. 2 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT 8ANK OR CONDUIT	LF	S,420
L-108-5.4b	NO. 6 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT 8ANK OR CONDUIT	LF	1,980
L-108-5.4c	NO. 10 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT 8ANK OR CONDUIT	LF	21,600
L-110-5.2a	NON-ENCASED ELECTRICAL CONDUIT (2" HDPE)	LF	1,800
L-110-S.2b	NON-ENCASED ELECTRICAL CONDUIT (2" SCHEDULE 80 PVC)	LF	40
L-115-5.2	ELECTRICAL JUNCTION STRUCTURE (48"X48"X48" POLYMER CONCRETE)	LF	3
S-1001	ROLLOUT RVR DISASSEM8LY	LUMP	1
S-1002	ROLLOUT RVR REASSEM8LY	LUMP	1

SUMMARY OF ESTIMATED QUANTITIES--PHASE I ALTERNATE 1

ITEM	DESCRIPTION	UNIT	TOTAL QUANTITY
	TAXIWAY PAVEMENT AND EARTHWORK		
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	LS	1
C-102-5.1c	INSTALLATION AND REMOVAL OF SILT FENCE (CATCH BASIN PROTECTION)	LF	2,305
C-102-5.1e	INSTALLATION AND REMOVAL OF SILT FENCE	LF	3,692
C-105-5.1	MOBILIZATION (5.0%)	LS	1
P-101-5.1a	PAVEMENT REMOVAL (GA RUNWAY 4R-22L, TAXIWAY E)	SY	17,259
P-101-5.6a	COLD MILLING (2" DEPTH) (TAXIWAY L)	SY	32,028
P-151-4.2	CLEARING AND GRUBBING	AC	31
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	26,557
P-152-4.2	EMBANKMENT IN PLACE	CY	3,290
P-154-5.1	SUBBASE COURSE	CY	11,143
P-155-8.1a	LIME TREATED SUBGRADE (10" THICK) (RVR AND GLIDE SLOPE ACCESS DRIVES)	SY	381
P-155-8.2a	LIME (RVR DRIVES)	TON	4
P-209-5.1a	CRUSHED AGGREGATE BASE COURSE (10" THICK) (RVR DRIVE)	SY	260
P-209-5.1b	CRUSHED AGGREGATE BASE COURSE (6.0" THICK)	SY	22,025
P-209-5.2	SEPARATION GEOTEXTILE	SY	22,286
P-306-8.1	LEAN CONCRETE BASE COURSE	SY	31,904
P-307	CEMENT TREATED PERMEABLE BASE COURSE	SY	31,904
P-403-8.1c	ASPHALT MIXTURE SURFACE COURSE (2" THICK) (RVR DRIVES)	TON	29
P-401-8.1b	ASPHALT SURFACE COURSE (2" THICK) (OVERLAY)	TON	3,524
P-403-8.1d	ASPHALT MIXTURE BINDER COURSE (2" THICK) (RVR DRIVES)	TON	36
P-501-8.1	CEMENT CONCRETE PAVEMENT	SY	21,502
P-604-6.1	COMPRESSION JOINT SEALS FOR CONCRETE PAVEMENTS	LF	27,408
P-605-5.1	JOINT SEALING FILLER	LF	27,408
P-610-6.1	CONCRETE (RVR RELOCATION PAD)	CY	4
P-620-5.1a	SURFACE PREPARATION	SF	47,484
P-620-5.2b-1	RUNWAY AND TAXIWAY MARKING (YELLOW)	SF	23,307
P-620-5.2b-2	RUNWAY AND TAXIWAY MARKING (WHITE)	SF	16,575
P-620-5.2b-3	RUNWAY AND TAXIWAY MARKING (RED)	SF	9,589
P-620-5.2b-4	RUNWAY AND TAXIWAY MARKING (BLACK)	SF	53,835
P-620-5.3c	REFLECTIVE MEDIA (RUNWAY)	LB	4,302
P-620-5.4d	TEMPORARY RUNWAY AND TAXIWAY MARKING	LS	1
D-705-5.4	6 INCH PIPE (PERFORATED PVC), INCLUDING POROUS BACKFILL AND FILTER FABRIC	LF	8,678
901-5.1	SEEDING (HYDROSEEDING)	AC	21
904-5.2	SODDING	SY	5,333
T-908-5.1	MULCHING	SY	97,217
	DRAINAGE, PERIMETER ROAD, PERIMETER FENCE		
P-101-5.1a	ASPHALT PAVEMENT AND BASE REMOVAL	SY	0
P-101-5.1b	CONCRETE PAVEMENT REMOVAL	SY	0
P-101-5.6	COLD MILLING (DEPTH VARIES)	SY	0
P-101-5.7	REMOVAL OF EXISTING PIPES AND STRUCTURES	LS	1
P-151-4.1	CLEARING (REMOVAL OF EXISTING FENCE AND CONCRETE MAINTENANCE PAD)	LS	0
P-151-4.2	CLEARING AND GRUBBING (REMOVAL OF GRASS)	AC	0
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	0
P-152-4.2	MUCK EXCAVATION	CY	0
P-152-4.3	EMBANKMENT IN PLACE - GENERAL	CY	0
P-152-4.4	EMBANKMENT IN PLACE - SELECT FILL	CY	0
P-153-6.1	CONTROLLED LOW-STRENGTH MATERIAL (CLSM)	CY	0
P-155-8.1	LIME TREATED SUBGRADE	SY	0
P-155-8.2	LIME	TON	0
P-209-5.1c	CRUSHED AGGREGATE BASE COURSE (8" THICK)	SY	0
P-209-5.2	SEPERATION GEOTEXTILE	SY	0
P-403-8.1a	ASPHALT MIXTURE SURFACE COURSE	TON	0
P-403-8.1b	ASPHALT MIXTURE BINDER COURSE	TON	0
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	GAL	0
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	GAL	0
P-620-5.2b	PAINTED TRAFFIC STRIPING	SF	0
P-620-5.2c	REFLECTIVE MEDIA	LBS	0
D-701-5.1	15 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0
D-701-5.2	30 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	1,527
D-701-5.3	36 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	674
D-701-5.4	42 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0
D-701-5.5	48 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0
D-701-5.6	15 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	0
D-701-5.7	18 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	262
D-701-5.8	24 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	285
D-701-5.9	36 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	401
D-701-5.10	42 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	0
D-751-5.1	CATCH BASIN - CB-01 (INCLUDES BEDDING & BACKFILL)	EA	11
D-751-5.2	CATCH BASIN - CB-02 (INCLUDES BEDDING & BACKFILL)	EA	2
D-751-5.3	CATCH BASIN - CB-SD02 (INCLUDES BEDDING & BACKFILL)	EA	0
F-162-5.1	CHAIN-LINK FENCE (6 FT HT. W/ 3 STRANDS BARBED WIRE)	LF	0
F-162-5.3	CONCRETE MAINTENANCE PAD	LF	0
LA-731-02	REFLECTORIZED RAISED PAVEMENT MARKERS (WHITE / WHITE)	EA	0
S-1003	SECURITY SIGNS	LS	0
	TAXIWAY EDGE LIGHTING AND SIGNING		
L-108-5.1	NO. 8 AWG, 5 KV TYPE C CABLE, INSTALLED IN CONDUIT	LF	3,200
L-108-5.2	NO. 6 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED, ABOVE THE DUCT BANK OR CONDUIT, INCLUDING CONNECTIONS/TERMINATIONS, INCLUDING GROUND RODS	LF	3,000
L-109-7.2	MODIFICATIONS TO L-854 RADIO CONTROL EQUIPMENT TO INCLUDE PANEL RELABELING, IN PLACE AND OPERATIONAL	LUMP	1
L-110-5.1	ELECTRICAL CONDUIT, 2" SCHEDULE 40 PVC, TYPE II INSTALLED IN TRENCH	LF	3,200
L-110-5.2	ELECTRICAL CONDUIT, 2" HDPE, JACKED OR BORED UNDER TAXIWAY IN STEEL CASING (STEEL CASING INCLUDED IN THIS ITEM)	LF	500
L-110-5.3	ELECTRICAL DUCT, 4-WAY, 4" AND 1-WAY, 2" HIGH DENSITY POLYETHYLENE CONDUIT, DIRECTIONAL BORE, INSTALLED	LF	100
L-115-5.1	ELECTRICAL JUNCTION CAN, L-867, SIZE B, CLASS 1, COMPLETE, IN PLACE	EA	4
L-115-5.2	ELECTRICAL JUNCTION CAN, L-867, SIZE D, CLASS 1, COMPLETE, IN PLACE	EA	6
L-125-5.1	MEDIUM INTENSITY TAXIWAY EDGE LIGHT (L-861T), WITH BLUE LENS, LED LAMP, 10/15 WATT TRANSFORMER, BASE MOUNTED, IN PLACE	EA	43
L-125-5.2	SIGN L-858, SIZE 2, 1-PANEL, REQUIRED CONCRETE BASE	EA	3
L-125-5.3	SIGN L-858, SIZE 2, 2-PANEL, REQUIRED CONCRETE BASE	EA	2
L-125-5.6	REPLACE EXISTING SIGN PANEL, COMPLETE, IN PLACE	EA	5
L-125-5.7	REMOVE EXISTING RUNWAY & TAXIWAY ELECTRICAL SYSTEMS	LUMP	1
L-125-5.8	ELECTRICAL TESTING AND UPDATE ALCS	LUMP	1
L-125-5.9	CONNECT TO EXISTING CIRCUIT	LUMP	1
S-1004	TEMPORARY COMMUNICATION LINE	LUMP	1
	NAVAIDS (RVR RELOCATION)		
L-108-5.1	TRENCHING FOR DIRECT BURIED CABLE, 18-INCH MINIMUM DEPTH	LF	40
L-108-5.3	NO. 2 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED IN TRENCH, INCLUDING CONNECTIONGS/TERMINATIONS	LF	40
L-108-5.4a	NO. 2 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	5,420
L-108-5.4b	NO. 6 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	1,980
L-108-5.4c	NO. 10 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	21,600
L-110-5.2a	NON-ENCASED ELECTRICAL CONDUIT (2" HDPE)	LF	1,800
L-110-5.2b	NON-ENCASED ELECTRICAL CONDUIT (2" SCHEDULE 80 PVC)	LF	40
L-115-5.2	ELECTRICAL JUNCTION STRUCTURE (48"X48"X48" POLYMER CONCRETE)	LF	3
S-1001	ROLLOUT RVR DISASSEMBLY	LUMP	1
S-1002	ROLLOUT RVR REASSEMBLY	LUMP	1

SUMMARY OF ESTIMATED QUANTITIES--PHASE I ALTERNATE 2

ITEM	DESCRIPTION	UNIT	TOTAL QUANTITY
	TAXIWAY PAVEMENT AND EARTHWORK		
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	LS	1
C-102-5.1c	INSTALLATION AND REMOVAL OF SILT FENCE (CATCH BASIN PROTECTION)	LF	1,383
C-102-5.1e	INSTALLATION AND REMOVAL OF SILT FENCE	LF	2,637
C-105-5.1	MOBILIZATION (5.0%)	LS	1
P-101-5.1a	PAVEMENT REMOVAL (GA RUNWAY 4R-22L, TAXIWAY E)	SY	8,883
P-101-5.6a	COLD MILLING (2" DEPTH) (TAXIWAY L)	SY	32,028
P-151-4.2	CLEARING AND GRUBBING	AC	31
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	8,633
P-152-4.2	EMBANKMENT IN PLACE	CY	12,715
P-154-5.1	SUBBASE COURSE	CY	6,584
P-155-8.1a	LIME TREATED SUBGRADE (10" THICK) (RVR AND GLIDE SLOPE ACCESS DRIVES)	SY	381
P-155-8.2a	LIME (RVR DRIVES)	TON	4
P-209-5.1a	CRUSHED AGGREGATE BASE COURSE (10" THICK) (RVR DRIVE)	SY	260
P-209-5.1b	CRUSHED AGGREGATE BASE COURSE (6.0" THICK)	SY	12,999
P-209-5.2	SEPARATION GEOTEXTILE	SY	13,166
P-401-8.1a	ASPHALT SURFACE COURSE (2.0" THICK)	TON	1,394
P-403-8.1a	ASPHALT MIXTURE BINDER COURSE (2.0" THICK)	TON	1,412
P-403-8.1b	ASPHALT BASE COURSE COURSE (5.0" THICK)	TON	3,621
P-403-8.1c	ASPHALT MIXTURE SURFACE COURSE (2" THICK) (RVR DRIVES)	TON	29
P-401-8.1b	ASPHALT SURFACE COURSE (2" THICK) (OVERLAY)	TON	3,524
P-403-8.1d	ASPHALT MIXTURE BINDER COURSE (2" THICK) (RVR DRIVES)	TON	36
P-407-8.1	ASPHALT TREATED PERMEABLE BASE COURSE (ATPB) (6" THICK)	SY	13,167
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	GAL	3,850
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	GAL	5,708
P-610-6.1	CONCRETE (RVR RELOCATION PAD)	CY	4
P-620-5.1a	SURFACE PREPARATION	SF	46,813
P-620-5.2b-1	RUNWAY AND TAXIWAY MARKING (YELLOW)	SF	19,811
P-620-5.2b-2	RUNWAY AND TAXIWAY MARKING (WHITE)	SF	14,089
P-620-5.2b-3	RUNWAY AND TAXIWAY MARKING (RED)	SF	8,151
P-620-5.2b-4	RUNWAY AND TAXIWAY MARKING (BLACK)	SF	45,760
P-620-5.3c	REFLECTIVE MEDIA (RUNWAY)	LB	3,657
P-620-5.4d	TEMPORARY RUNWAY AND TAXIWAY MARKING	LS	1
D-705-5.4	6 INCH PIPE (PERFORATED PVC), INCLUDING POROUS BACKFILL AND FILTER FABRIC	LF	3,007
901-5.1	SEEDING (HYDROSEEDING)	AC	21
904-5.2	SODDING	SY	5,333
T-908-5.1	MULCHING	SY	97,217
	DRAINAGE, PERIMETER ROAD, PERIMETER FENCE		
P-101-5.1a	ASPHALT PAVEMENT AND BASE REMOVAL	SY	0
P-101-5.1b	CONCRETE PAVEMENT REMOVAL	SY	0
P-101-5.6	COLD MILLING (DEPTH VARIES)	SY	0
P-101-5.7	REMOVAL OF EXISTING PIPES AND STRUCTURES	LS	1
P-151-4.1	CLEARING (REMOVAL OF EXISTING FENCE AND CONCRETE MAINTENANCE PAD)	LS	0
P-151-4.2	CLEARING AND GRUBBING (REMOVAL OF GRASS)	AC	0
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	0
P-152-4.2	MUCK EXCAVATION	CY	0
P-152-4.3	EMBANKMENT IN PLACE - GENERAL	CY	0
P-152-4.4	EMBANKMENT IN PLACE - SELECT FILL	CY	0
P-153-6.1	CONTROLLED LOW-STRENGTH MATERIAL (CLSM)	CY	0
P-155-8.1	LIME TREATED SUBGRADE	SY	0
P-155-8.2	LIME	TON	0
P-209-5.1c	CRUSHED AGGREGATE BASE COURSE (8" THICK)	SY	0
P-209-5.2	SEPERATION GEOTEXTILE	SY	0
P-403-8.1a	ASPHALT MIXTURE SURFACE COURSE	TON	0
P-403-8.1b	ASPHALT MIXTURE BINDER COURSE	TON	0
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	GAL	0
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	GAL	0
P-620-5.2b	PAINTED TRAFFIC STRIPING	SF	0
P-620-5.2c	REFLECTIVE MEDIA	LBS	0
D-701-5.1	15 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0
D-701-5.2	30 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	1,527
D-701-5.3	36 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	674
D-701-5.4	42 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0
D-701-5.5	48 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0
D-701-5.6	15 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	0
D-701-5.7	18 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	262
D-701-5.8	24 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	285
D-701-5.9	36 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	401
D-701-5.10	42 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	0
D-751-5.1	CATCH BASIN - CB-01 (INCLUDES BEDDING & BACKFILL)	EA	11
D-751-5.2	CATCH BASIN - CB-02 (INCLUDES BEDDING & BACKFILL)	EA	2
D-751-5.3	CATCH BASIN - CB-SD02 (INCLUDES BEDDING & BACKFILL)	EA	0
F-162-5.1	CHAIN-LINK FENCE (6 FT HT. W/ 3 STRANDS BARBED WIRE)	LF	0
F-162-5.3	CONCRETE MAINTENANCE PAD	LF	0
LA-731-02	REFLECTORIZED RAISED PAVEMENT MARKERS (WHITE / WHITE)	EA	0
S-1003	SECURITY SIGNS	LS	0
	TAXIWAY EDGE LIGHTING AND SIGNING		
L-108-5.1	NO. 8 AWG, 5 KV TYPE C CABLE, INSTALLED IN CONDUIT	LF	3,200
L-108-5.2	NO. 6 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED, ABOVE THE DUCT BANK OR CONDUIT, INCLUDING CONNECTIONS/TERMINATIONS, INCLUDING GROUND RODS	LF	3,000
L-109-7.2	MODIFICATIONS TO L-854 RADIO CONTROL EQUIPMENT TO INCLUDE PANEL RELABELING, IN PLACE AND OPERATIONAL	LUMP	1
L-110-5.1	ELECTRICAL CONDUIT, 2" SCHEDULE 40 PVC, TYPE II INSTALLED IN TRENCH	LF	3,200
L-110-5.2	ELECTRICAL CONDUIT, 2" HDPE, JACKED OR BORED UNDER TAXIWAY IN STEEL CASING (STEEL CASING INCLUDED IN THIS ITEM)	LF	500
L-110-5.3	ELECTRICAL DUCT, 4-WAY, 4" AND 1-WAY, 2" HIGH DENSITY POLYETHYLENE CONDUIT, DIRECTIONAL BORE, INSTALLED	LF	100
L-115-5.1	ELECTRICAL JUNCTION CAN, L-867, SIZE B, CLASS 1, COMPLETE, IN PLACE	EA	4
L-115-5.2	ELECTRICAL JUNCTION CAN, L-867, SIZE D, CLASS 1, COMPLETE, IN PLACE	EA	6
L-125-5.1	MEDIUM INTENSITY TAXIWAY EDGE LIGHT (L-861T), WITH BLUE LENS, LED LAMP, 10/15 WATT TRANSFORMER, BASE MOUNTED, IN PLACE	EA	43
L-125-5.2	SIGN L-858, SIZE 2, 1-PANEL, REQUIRED CONCRETE BASE	EA	3
L-125-5.3	SIGN L-858, SIZE 2, 2-PANEL, REQUIRED CONCRETE BASE	EA	2
L-125-5.6	REPLACE EXISTING SIGN PANEL, COMPLETE, IN PLACE	EA	5
L-125-5.7	REMOVE EXISTING RUNWAY & TAXIWAY ELECTRICAL SYSTEMS	LUMP	1
L-125-5.8	ELECTRICAL TESTING AND UPDATE ALCS	LUMP	1
L-125-5.9	CONNECT TO EXISTING CIRCUIT	LUMP	1
S-1004	TEMPORARY COMMUNICATION LINE	LUMP	1
	NAVAIDS (RVR RELOCATION)		
L-108-5.1	TRENCHING FOR DIRECT BURIED CABLE, 18-INCH MINIMUM DEPTH	LF	40
L-108-5.3	NO. 2 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED IN TRENCH, INCLUDING CONNECTIONGS/TERMINATIONS	LF	40
L-108-5.4a	NO. 2 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	5,420
L-108-5.4b	NO. 6 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	1,980
L-108-5.4c	NO. 10 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	21,600
L-110-5.2a	NON-ENCASED ELECTRICAL CONDUIT (2" HDPE)	LF	1,800
L-110-5.2b	NON-ENCASED ELECTRICAL CONDUIT (2" SCHEDULE 80 PVC)	LF	40
L-115-5.2	ELECTRICAL JUNCTION STRUCTURE (48"X48"X48" POLYMER CONCRETE)	LF	3
S-1001	ROLLOUT RVR DISASSEMBLY	LUMP	1
S-1002	ROLLOUT RVR REASSEMBLY	LUMP	1

STATE OF LOUISIANA
BLAKE S. ROUSSEL
License No. 33279
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Blake S. Roussel
07/19/2024

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
721 Government Street, Suite 302, Baton Rouge, Louisiana 70802
www.stanleyconsultants.com

TAXIWAY LIMA EXTENSION

SUMMARY OF ESTIMATED QUANTITIES

DESIGNED W.T.B.
DRAWN G.T.H.
CHECKED B.S.R.
APPROVED N/A.
APPROVED N/A
DATE 12/22/2023

SCALE: NTS
NO. 30757.02.00
REV. 0
G023

CADD D3-R4

PHASE I--ENGINEER'S OPINION OF PROBABLE COST--BASE BID
TAXIWAY L EXTENSION AND DECOMMISSIONING OF RUNWAY 4R-22L AND TAXIWAY E
ADDENDUM 2

ITEM	DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT PRICE	PHASE I COST
	TAXIWAY PAVEMENT AND EARTHWORK				
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	LS	1	$150,000.00	$150,000.00
C-102-5.1c	INSTALLATION AND REMOVAL OF SILT FENCE (CATCH BASIN PROTECTION)	LF	2,305	$2.75	$6,338.75
C-102-5.1e	INSTALLATION AND REMOVAL OF SILT FENCE	LF	3,692	$2.75	$10,153.00
C-105-5.1	MOBILIZATION (5.0%)	LS	1	$540,000.00	$540,000.00
P-101-5.1a	PAVEMENT REMOVAL (GA RUNWAY 4R-22L, TAXIWAY E)	SY	17,259	$14.00	$241,626.00
P-101-5.6a	COLD MILLING (2" DEPTH) (TAXIWAY L)	SY	32,028	$8.00	$256,225.53
P-151-4.2	CLEARING AND GRUBBING	AC	31	$10,000.00	$310,000.00
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	32,244	$19.00	$612,636.00
P-152-4.2	EMBANKMENT IN PLACE	CY	12,978	$40.00	$519,120.00
P-154-5.1	SUBBASE COURSE	CY	11,143	$75.00	$835,725.00
P-155-8.1a	LIME TREATED SUBGRADE (10" THICK) (RVR AND GLIDE SLOPE ACCESS DRIVES)	SY	381	$5.25	$2,000.25
P-155-8.2a	LIME (RVR DRIVES)	TON	4	$450.00	$1,800.00
P-209-5.1a	CRUSHED AGGREGATE BASE COURSE (10" THICK) (RVR DRIVE)	SY	260	$52.00	$13,520.00
P-209-5.1b	CRUSHED AGGREGATE BASE COURSE (6.0" THICK)	SY	22,025	$40.00	$881,000.00
P-209-5.2	SEPARATION GEOTEXTILE	SY	22,286	$4.00	$89,144.00
P-401-8.1a	ASPHALT SURFACE COURSE (2.0" THICK)	TON	2,366	$200.00	$473,200.00
P-401-8.1b	ASPHALT SURFACE COURSE (2" THICK) (OVERLAY)	TON	3,524	$120.00	$422,880.00
P-403-8.1a	ASPHALT MIXTURE BINDER COURSE (2.0" THICK)	TON	2,395	$175.00	$419,125.00
P-403-8.1b	ASPHALT BASE COURSE COURSE (5.0" THICK)	TON	6,129	$155.00	$949,995.00
P-403-8.1c	ASPHALT MIXTURE SURFACE COURSE (2" THICK) (RVR DRIVES)	TON	29	$120.00	$3,480.00
P-403-8.1d	ASPHALT MIXTURE BINDER COURSE (2" THICK) (RVR DRIVES)	TON	36	$120.00	$4,320.00
P-407-8.1	ASPHALT TREATED PERMEABLE BASE COURSE (ATPB) (6" THICK)	SY	22,286	$40.00	$891,440.00
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	GAL	6,530	$5.00	$32,650.00
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	GAL	8,566	$5.00	$42,829.45
P-610-6.1	CONCRETE (RVR RELOCATION PAD)	CY	4	$1,500.00	$6,000.00
P-620-5.1a	SURFACE PREPARATION	SF	47,484	$1.00	$47,484.00
P-620-5.2b-1	RUNWAY AND TAXIWAY MARKING (YELLOW)	SF	23,307	$17.00	$396,210.50
P-620-5.2b-2	RUNWAY AND TAXIWAY MARKING (WHITE)	SF	16,575	$17.00	$281,775.00
P-620-5.2b-3	RUNWAY AND TAXIWAY MARKING (RED)	SF	9,589	$17.00	$163,013.00
P-620-5.2b-4	RUNWAY AND TAXIWAY MARKING (BLACK)	SF	53,835	$17.00	$915,195.00
P-620-5.3c	REFLECTIVE MEDIA (RUNWAY)	LB	4,302	$2.00	$8,604.00
P-620-5.4d	TEMPORARY RUNWAY AND TAXIWAY MARKING	LS	1	$100,000.00	$100,000.00
D-705-5.4	6 INCH PIPE (PERFORATED PVC), INCLUDING POROUS BACKFILL AND FILTER FABRIC	LF	4,702	$50.00	$235,100.00
901-5.1	SEEDING (HYDROSEEDING)	AC	21	$2,500.00	$52,500.00
904-5.2	SODDING	SY	5,333	$10.00	$53,333.33
T-908-5.1	MULCHING	SY	97,217	$0.25	$24,304.25
	DRAINAGE, PERIMETER ROAD, PERIMETER FENCE				
P-101-5.1a	ASPHALT PAVEMENT AND BASE REMOVAL	SY	0	$30.00	$0.00
P-101-5.1b	CONCRETE PAVEMENT REMOVAL	SY	0	$30.00	$0.00
P-101-5.6	COLD MILLING (DEPTH VARIES)	SY	0	$5.00	$0.00
P-101-5.7	REMOVAL OF EXISTING PIPES AND STRUCTURES	LS	1	$50,000.00	$50,000.00
P-151-4.1	CLEARING (REMOVAL OF EXISTING FENCE AND CONCRETE MAINTENANCE PAD)	LS	0	$30,780.00	$0.00
P-151-4.2	CLEARING AND GRUBBING (REMOVAL OF GRASS)	AC	0	$1,500.00	$0.00
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	0	$20.00	$0.00
P-152-4.2	MUCK EXCAVATION	CY	0	$23.00	$0.00
P-152-4.3	EMBANKMENT IN PLACE - GENERAL	CY	0	$40.00	$0.00
P-152-4.4	EMBANKMENT IN PLACE - SELECT FILL	CY	0	$50.00	$0.00
P-153-6.1	CONTROLLED LOW-STRENGTH MATERIAL (CLSM)	CY	0	$100.00	$0.00
P-155-8.1	LIME TREATED SUBGRADE	SY	0	$12.00	$0.00
P-155-8.2	LIME	TON	0	$350.00	$0.00
P-209-5.1c	CRUSHED AGGREGATE BASE COURSE (8" THICK)	SY	0	$40.00	$0.00
P-209-5.2	SEPERATION GEOTEXTILE	SY	0	$3.00	$0.00
P-403-8.1a	ASPHALT MIXTURE SURFACE COURSE	TON	0	$160.00	$0.00
P-403-8.1b	ASPHALT MIXTURE BINDER COURSE	TON	0	$160.00	$0.00
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	GAL	0	$4.50	$0.00
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	GAL	0	$4.50	$0.00
P-620-5.2b	PAINTED TRAFFIC STRIPING	SF	0	$4.00	$0.00
P-620-5.2c	REFLECTIVE MEDIA	LBS	0	$2.00	$0.00
D-701-5.1	15 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0	$145.00	$0.00
D-701-5.2	30 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	1,527	$235.00	$358,845.00
D-701-5.3	36 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	674	$295.00	$198,830.00
D-701-5.4	42 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0	$345.00	$0.00
D-701-5.5	48 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0	$380.00	$0.00
D-701-5.6	15 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	0	$160.00	$0.00
D-701-5.7	18 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	262	$175.00	$45,850.00
D-701-5.8	24 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	285	$195.00	$55,575.00
D-701-5.9	36 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	401	$275.00	$110,275.00
D-701-5.10	42 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	0	$340.00	$0.00
D-751-5.1	CATCH BASIN - CB-01 (INCLUDES BEDDING & BACKFILL)	EA	11	$6,000.00	$66,000.00

D-751-5.2	CATCH BASIN - CB-02 (INCLUDES BEDDING & BACKFILL)	EA	2	$7,500.00	$15,000.00
D-751-5.3	CATCH BASIN - CB-SD02 (INCLUDES BEDDING & BACKFILL)	EA	0	$11,600.00	$0.00
F-162-5.1	CHAIN-LINK FENCE (6 FT HT. W/ 3 STRANDS BARBED WIRE)	LF	0	$80.00	$0.00
F-162-5.3	CONCRETE MAINTENANCE PAD	LF	0	$20.00	$0.00
LA-731-02	REFLECTORIZED RAISED PAVEMENT MARKERS (WHITE / WHITE)	EA	0	$10.00	$0.00
S-1003	SECURITY SIGNS	LS	0	$7,500.00	$0.00
	TAXIWAY EDGE LIGHTING AND SIGNING				
L-108-5.1	NO. 8 AWG, 5 KV TYPE C CABLE, INSTALLED IN CONDUIT	LF	3,200	$5.00	$16,000.00
L-108-5.2	NO. 6 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED, ABOVE THE DUCT BANK OR CONDUIT, INCLUDING CONNECTIONS/TERMINATIONS, INCLUDING GROUND RODS	LF	3,000	$5.00	$15,000.00
L-109-7.2	MODIFICATIONS TO L-854 RADIO CONTROL EQUIPMENT TO INCLUDE PANEL RELABELING, IN PLACE AND OPERATIONAL	LUMP	1	$5,000.00	$5,000.00
L-110-5.1	ELECTRICAL CONDUIT, 2" SCHEDULE 40 PVC, TYPE II INSTALLED IN TRENCH	LF	3,200	$4.00	$12,800.00
L-110-5.2	ELECTRICAL CONDUIT, 2" HDPE, JACKED OR BORED UNDER TAXIWAY IN STEEL CASING (STEEL CASING INCLUDED IN THIS ITEM)	LF	500	$20.00	$10,000.00
L-110-5.3	ELECTRICAL DUCT, 4-WAY, 4" AND 1-WAY, 2" HIGH DENSITY POLYETHYLENE CONDUIT, DIRECTIONAL BORE, INSTALLED	LF	100	$125.00	$12,500.00
L-115-5.1	ELECTRICAL JUNCTION CAN, L-867, SIZE B, CLASS 1, COMPLETE, IN PLACE	EA	4	$2,000.00	$8,000.00
L-115-5.2	ELECTRICAL JUNCTION CAN, L-867, SIZE D, CLASS 1, COMPLETE, IN PLACE	EA	6	$2,700.00	$16,200.00
L-125-5.1	MEDIUM INTENSITY TAXIWAY EDGE LIGHT (L-861T), WITH BLUE LENS, LED LAMP, 10/15 WATT TRANSFORMER, BASE MOUNTED, IN PLACE	EA	43	$1,200.00	$51,600.00
L-125-5.2	SIGN L-858, SIZE 2, 1-PANEL, REQUIRED CONCRETE BASE	EA	3	$6,000.00	$18,000.00
L-125-5.3	SIGN L-858, SIZE 2, 2-PANEL, REQUIRED CONCRETE BASE	EA	2	$6,000.00	$12,000.00
L-125-5.6	REPLACE EXISTING SIGN PANEL, COMPLETE, IN PLACE	EA	5	$1,000.00	$5,000.00
L-125-5.7	REMOVE EXISTING RUNWAY & TAXIWAY ELECTRICAL SYSTEMS	LUMP	1	$3,000.00	$3,000.00
L-125-5.8	ELECTRICAL TESTING AND UPDATE ALCS	LUMP	1	$4,000.00	$4,000.00
L-125-5.9	CONNECT TO EXISTING CIRCUIT	LUMP	1	$2,000.00	$2,000.00
S-1004	TEMPORARY COMMUNICATION LINE	LUMP	1	$35,000.00	$35,000.00
	NAVAIDS (RVR RELOCATION)				
L-108-5.1	TRENCHING FOR DIRECT BURIED CABLE, 18-INCH MINIMUM DEPTH	LF	40	$172.50	$6,900.00
L-108-5.3	NO. 2 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED IN TRENCH, INCLUDING CONNECTIONGS/TERMINATIONS	LF	40	$2.65	$106.00
L-108-5.4a	NO. 2 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	5,420	$3.38	$18,319.60
L-108-5.4b	NO. 6 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	1,980	$1.58	$3,128.40
L-108-5.4c	NO. 10 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	21,600	$0.65	$14,040.00
L-110-5.2a	NON-ENCASED ELECTRICAL CONDUIT (2" HDPE)	LF	1,800	$22.63	$40,734.00
L-110-5.2b	NON-ENCASED ELECTRICAL CONDUIT (2" SCHEDULE 80 PVC)	LF	40	$9.82	$392.80
L-115-5.2	ELECTRICAL JUNCTION STRUCTURE (48"X48"X48" POLYMER CONCRETE)	LF	3	$8,613.44	$25,840.32
S-1001	ROLLOUT RVR DISASSEMBLY	LUMP	1	$4,554.00	$4,554.00
S-1002	ROLLOUT RVR REASSEMBLY	LUMP	1	$28,874.50	$28,874.50
PHASE I CONSTRUCTION TOTAL =					$11,262,091.68

PHASE I--ENGINEER'S OPINION OF PROBABLE COST--ALTERNATE #1
TAXIWAY L EXTENSION AND DECOMMISSIONING OF RUNWAY 4R-22L AND TAXIWAY E
ADDENDUM 2

ITEM	DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT PRICE	PHASE I COST
	TAXIWAY PAVEMENT AND EARTHWORK				
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	LS	1	$150,000.00	$150,000.00
C-102-5.1c	INSTALLATION AND REMOVAL OF SILT FENCE (CATCH BASIN PROTECTION)	LF	2,305	$2.75	$6,338.75
C-102-5.1e	INSTALLATION AND REMOVAL OF SILT FENCE	LF	3,692	$2.75	$10,153.00
C-105-5.1	MOBILIZATION (5.0%)	LS	1	$810,000.00	$810,000.00
P-101-5.1a	PAVEMENT REMOVAL (GA RUNWAY 4R-22L, TAXIWAY E)	SY	17,259	$14.00	$241,626.00
P-101-5.6a	COLD MILLING (2" DEPTH) (TAXIWAY L)	SY	32,028	$8.00	$256,225.53
P-151-4.2	CLEARING AND GRUBBING	AC	31	$10,000.00	$310,000.00
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	26,557	$19.00	$504,583.00
P-152-4.2	EMBANKMENT IN PLACE	CY	3,290	$40.00	$131,600.00
P-154-5.1	SUBBASE COURSE	CY	11,143	$75.00	$835,725.00
P-155-8.1a	LIME TREATED SUBGRADE (10" THICK) (RVR AND GLIDE SLOPE ACCESS DRIVES)	SY	381	$5.25	$2,000.25
P-155-8.2a	LIME (RVR DRIVES)	TON	4	$450.00	$1,800.00
P-209-5.1a	CRUSHED AGGREGATE BASE COURSE (10" THICK) (RVR DRIVE)	SY	260	$52.00	$13,520.00
P-209-5.1b	CRUSHED AGGREGATE BASE COURSE (6.0" THICK)	SY	22,025	$40.00	$881,000.00
P-209-5.2	SEPARATION GEOTEXTILE	SY	22,286	$4.00	$89,144.00
P-306-8.1	LEAN CONCRETE BASE COURSE	SY	31,904	$45.00	$1,435,680.00
P-307	CEMENT TREATED PERMEABLE BASE COURSE	SY	31,904	$85.00	$2,711,840.00
P-401-8.1b	ASPHALT SURFACE COURSE (2" THICK) (OVERLAY)	TON	3,524	$120.00	$422,880.00
P-403-8.1c	ASPHALT MIXTURE SURFACE COURSE (2" THICK) (RVR DRIVES)	TON	29	$120.00	$3,480.00
P-403-8.1d	ASPHALT MIXTURE BINDER COURSE (2" THICK) (RVR DRIVES)	TON	36	$120.00	$4,320.00
P-501-8.1	CEMENT CONCRETE PAVEMENT	SY	21,502	$200.00	$4,300,400.00
P-604-6.1	COMPRESSION JOINT SEALS FOR CONCRETE PAVEMENTS	LF	27,408	$4.00	$109,632.00
P-605-5.1	JOINT SEALING FILLER	LF	27,408	$2.00	$54,816.00
P-610-6.1	CONCRETE (RVR RELOCATION PAD)	CY	4	$1,500.00	$6,000.00
P-620-5.1a	SURFACE PREPARATION	SF	47,484	$1.00	$47,484.00
P-620-5.2b-1	RUNWAY AND TAXIWAY MARKING (YELLOW)	SF	23,307	$17.00	$396,210.50
P-620-5.2b-2	RUNWAY AND TAXIWAY MARKING (WHITE)	SF	16,575	$17.00	$281,775.00
P-620-5.2b-3	RUNWAY AND TAXIWAY MARKING (RED)	SF	9,589	$17.00	$163,013.00
P-620-5.2b-4	RUNWAY AND TAXIWAY MARKING (BLACK)	SF	53,835	$17.00	$915,195.00
P-620-5.3c	REFLECTIVE MEDIA (RUNWAY)	LB	4,302	$2.00	$8,604.00
P-620-5.4d	TEMPORARY RUNWAY AND TAXIWAY MARKING	LS	1	$100,000.00	$100,000.00
D-705-5.4	6 INCH PIPE (PERFORATED PVC), INCLUDING POROUS BACKFILL AND FILTER FABRIC	LF	8,678	$50.00	$433,900.00
901-5.1	SEEDING (HYDROSEEDING)	AC	21	$2,500.00	$52,500.00
904-5.2	SODDING	SY	5,333	$10.00	$53,333.33
T-908-5.1	MULCHING	SY	97,217	$0.25	$24,304.25
	DRAINAGE, PERIMETER ROAD, PERIMETER FENCE				
P-101-5.1a	ASPHALT PAVEMENT AND BASE REMOVAL	SY	0	$30.00	$0.00
P-101-5.1b	CONCRETE PAVEMENT REMOVAL	SY	0	$30.00	$0.00
P-101-5.6	COLD MILLING (DEPTH VARIES)	SY	0	$5.00	$0.00
P-101-5.7	REMOVAL OF EXISTING PIPES AND STRUCTURES	LS	1	$50,000.00	$50,000.00
P-151-4.1	CLEARING (REMOVAL OF EXISTING FENCE AND CONCRETE MAINTENANCE PAD)	LS	0	$30,780.00	$0.00
P-151-4.2	CLEARING AND GRUBBING (REMOVAL OF GRASS)	AC	0	$1,500.00	$0.00
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	0	$20.00	$0.00
P-152-4.2	MUCK EXCAVATION	CY	0	$23.00	$0.00
P-152-4.3	EMBANKMENT IN PLACE - GENERAL	CY	0	$40.00	$0.00
P-152-4.4	EMBANKMENT IN PLACE - SELECT FILL	CY	0	$50.00	$0.00
P-153-6.1	CONTROLLED LOW-STRENGTH MATERIAL (CLSM)	CY	0	$100.00	$0.00
P-155-8.1	LIME TREATED SUBGRADE	SY	0	$12.00	$0.00
P-155-8.2	LIME	TON	0	$350.00	$0.00
P-209-5.1c	CRUSHED AGGREGATE BASE COURSE (8" THICK)	SY	0	$40.00	$0.00
P-209-5.2	SEPERATION GEOTEXTILE	SY	0	$3.00	$0.00
P-403-8.1a	ASPHALT MIXTURE SURFACE COURSE	TON	0	$160.00	$0.00
P-403-8.1b	ASPHALT MIXTURE BINDER COURSE	TON	0	$160.00	$0.00
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	GAL	0	$4.50	$0.00
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	GAL	0	$4.50	$0.00
P-620-5.2b	PAINTED TRAFFIC STRIPING	SF	0	$4.00	$0.00
P-620-5.2c	REFLECTIVE MEDIA	LBS	0	$2.00	$0.00
D-701-5.1	15 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0	$145.00	$0.00
D-701-5.2	30 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	1,527	$235.00	$358,845.00
D-701-5.3	36 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	674	$295.00	$198,830.00
D-701-5.4	42 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0	$345.00	$0.00
D-701-5.5	48 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0	$380.00	$0.00
D-701-5.6	15 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	0	$160.00	$0.00
D-701-5.7	18 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	262	$175.00	$45,850.00
D-701-5.8	24 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	285	$195.00	$55,575.00
D-701-5.9	36 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	401	$275.00	$110,275.00
D-701-5.10	42 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	0	$340.00	$0.00
D-751-5.1	CATCH BASIN - CB-01 (INCLUDES BEDDING & BACKFILL)	EA	11	$6,000.00	$66,000.00
D-751-5.2	CATCH BASIN - CB-02 (INCLUDES BEDDING & BACKFILL)	EA	2	$7,500.00	$15,000.00

D-751-5.3	CATCH BASIN - CB-SD02 (INCLUDES BEDDING & BACKFILL)	EA	0	$11,600.00	$0.00
F-162-5.1	CHAIN-LINK FENCE (6 FT HT. W/ 3 STRANDS BARBED WIRE)	LF	0	$80.00	$0.00
F-162-5.3	CONCRETE MAINTENANCE PAD	LF	0	$20.00	$0.00
LA-731-02	REFLECTORIZED RAISED PAVEMENT MARKERS (WHITE / WHITE)	EA	0	$10.00	$0.00
S-1003	SECURITY SIGNS	LS	0	$7,500.00	$0.00
	TAXIWAY EDGE LIGHTING AND SIGNING				
L-108-5.1	NO. 8 AWG, 5 KV TYPE C CABLE, INSTALLED IN CONDUIT	LF	3,200	$5.00	$16,000.00
L-108-5.2	NO. 6 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED, ABOVE THE DUCT BANK OR CONDUIT, INCLUDING CONNECTIONS/TERMINATIONS, INCLUDING GROUND RODS	LF	3,000	$5.00	$15,000.00
L-109-7.2	MODIFICATIONS TO L-854 RADIO CONTROL EQUIPMENT TO INCLUDE PANEL RELABELING, IN PLACE AND OPERATIONAL	LUMP	1	$5,000.00	$5,000.00
L-110-5.1	ELECTRICAL CONDUIT, 2" SCHEDULE 40 PVC, TYPE II INSTALLED IN TRENCH	LF	3,200	$4.00	$12,800.00
L-110-5.2	ELECTRICAL CONDUIT, 2" HDPE, JACKED OR BORED UNDER TAXIWAY IN STEEL CASING (STEEL CASING INCLUDED IN THIS ITEM)	LF	500	$20.00	$10,000.00
L-110-5.3	ELECTRICAL DUCT, 4-WAY, 4" AND 1-WAY, 2" HIGH DENSITY POLYETHYLENE CONDUIT, DIRECTIONAL BORE, INSTALLED	LF	100	$125.00	$12,500.00
L-115-5.1	ELECTRICAL JUNCTION CAN, L-867, SIZE B, CLASS 1, COMPLETE, IN PLACE	EA	4	$2,000.00	$8,000.00
L-115-5.2	ELECTRICAL JUNCTION CAN, L-867, SIZE D, CLASS 1, COMPLETE, IN PLACE	EA	6	$2,700.00	$16,200.00
L-125-5.1	MEDIUM INTENSITY TAXIWAY EDGE LIGHT (L-861T), WITH BLUE LENS, LED LAMP, 10/15 WATT TRANSFORMER, BASE MOUNTED, IN PLACE	EA	43	$1,200.00	$51,600.00
L-125-5.2	SIGN L-858, SIZE 2, 1-PANEL, REQUIRED CONCRETE BASE	EA	3	$6,000.00	$18,000.00
L-125-5.3	SIGN L-858, SIZE 2, 2-PANEL, REQUIRED CONCRETE BASE	EA	2	$6,000.00	$12,000.00
L-125-5.6	REPLACE EXISTING SIGN PANEL, COMPLETE, IN PLACE	EA	5	$1,000.00	$5,000.00
L-125-5.7	REMOVE EXISTING RUNWAY & TAXIWAY ELECTRICAL SYSTEMS	LUMP	1	$3,000.00	$3,000.00
L-125-5.8	ELECTRICAL TESTING AND UPDATE ALCS	LUMP	1	$4,000.00	$4,000.00
L-125-5.9	CONNECT TO EXISTING CIRCUIT	LUMP	1	$2,000.00	$2,000.00
S-1004	TEMPORARY COMMUNICATION LINE	LUMP	1	$35,000.00	$35,000.00
	NAVAIDS (RVR RELOCATION)				
L-108-5.1	TRENCHING FOR DIRECT BURIED CABLE, 18-INCH MINIMUM DEPTH	LF	40	$172.50	$6,900.00
L-108-5.3	NO. 2 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED IN TRENCH, INCLUDING CONNECTIONGS/TERMINATIONS	LF	40	$2.65	$106.00
L-108-5.4a	NO. 2 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	5,420	$3.38	$18,319.60
L-108-5.4b	NO. 6 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	1,980	$1.58	$3,128.40
L-108-5.4c	NO. 10 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	21,600	$0.65	$14,040.00
L-110-5.2a	NON-ENCASED ELECTRICAL CONDUIT (2" HDPE)	LF	1,800	$22.63	$40,734.00
L-110-5.2b	NON-ENCASED ELECTRICAL CONDUIT (2" SCHEDULE 80 PVC)	LF	40	$9.82	$392.80
L-115-5.2	ELECTRICAL JUNCTION STRUCTURE (48"X48"X48" POLYMER CONCRETE)	LF	3	$8,613.44	$25,840.32
S-1001	ROLLOUT RVR DISASSEMBLY	LUMP	1	$4,554.00	$4,554.00
S-1002	ROLLOUT RVR REASSEMBLY	LUMP	1	$28,874.50	$28,874.50
PHASE I CONSTRUCTION TOTAL =					$17,038,447.23

PHASE I--ENGINEER'S OPINION OF PROBABLE COST--ALTERNATE #2
TAXIWAY L EXTENSION AND DECOMMISSIONING OF RUNWAY 4R-22L AND TAXIWAY E
ADDENDUM 2

ITEM	DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT PRICE	PHASE I COST
	TAXIWAY PAVEMENT AND EARTHWORK				
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	LS	1	$150,000.00	$150,000.00
C-102-5.1c	INSTALLATION AND REMOVAL OF SILT FENCE (CATCH BASIN PROTECTION)	LF	1,383	$2.75	$3,803.25
C-102-5.1e	INSTALLATION AND REMOVAL OF SILT FENCE	LF	2,637	$2.75	$7,251.75
C-105-5.1	MOBILIZATION (5.0%)	LS	1	$400,000.00	$400,000.00
P-101-5.1a	PAVEMENT REMOVAL (GA RUNWAY 4R-22L, TAXIWAY E)	SY	8,883	$14.00	$124,362.00
P-101-5.6a	COLD MILLING (2" DEPTH) (TAXIWAY L)	SY	32,028	$8.00	$256,225.53
P-151-4.2	CLEARING AND GRUBBING	AC	31	$10,000.00	$310,000.00
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	8,633	$19.00	$164,017.50
P-152-4.2	EMBANKMENT IN PLACE	CY	12,715	$40.00	$508,610.40
P-154-5.1	SUBBASE COURSE	CY	6,584	$75.00	$493,800.00
P-155-8.1a	LIME TREATED SUBGRADE (10" THICK) (RVR AND GLIDE SLOPE ACCESS DRIVES)	SY	381	$5.25	$2,000.25
P-155-8.2a	LIME (RVR DRIVES)	TON	4	$450.00	$1,800.00
P-209-5.1a	CRUSHED AGGREGATE BASE COURSE (10" THICK) (RVR DRIVE)	SY	260	$52.00	$13,520.00
P-209-5.1b	CRUSHED AGGREGATE BASE COURSE (6.0" THICK)	SY	12,999	$40.00	$519,960.00
P-209-5.2	SEPARATION GEOTEXTILE	SY	13,166	$4.00	$52,664.00
P-401-8.1a	ASPHALT SURFACE COURSE (2.0" THICK)	TON	1,394	$200.00	$278,800.00
P-401-8.1b	ASPHALT SURFACE COURSE (2" THICK) (OVERLAY)	TON	3,524	$120.00	$422,880.00
P-403-8.1a	ASPHALT MIXTURE BINDER COURSE (2.0" THICK)	TON	1,412	$175.00	$247,100.00
P-403-8.1b	ASPHALT BASE COURSE COURSE (5.0" THICK)	TON	3,621	$155.00	$561,255.00
P-403-8.1c	ASPHALT MIXTURE SURFACE COURSE (2" THICK) (RVR DRIVES)	TON	29	$120.00	$3,480.00
P-403-8.1d	ASPHALT MIXTURE BINDER COURSE (2" THICK) (RVR DRIVES)	TON	36	$120.00	$4,320.00
P-407-8.1	ASPHALT TREATED PERMEABLE BASE COURSE (ATPB) (6" THICK)	SY	13,167	$40.00	$526,680.00
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	GAL	3,850	$5.00	$19,250.00
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	GAL	5,708	$5.00	$28,539.85
P-610-6.1	CONCRETE (RVR RELOCATION PAD)	CY	4	$1,500.00	$6,000.00
P-620-5.1a	SURFACE PREPARATION	SF	46,813	$1.00	$46,813.00
P-620-5.2b-1	RUNWAY AND TAXIWAY MARKING (YELLOW)	SF	19,811	$17.00	$336,787.00
P-620-5.2b-2	RUNWAY AND TAXIWAY MARKING (WHITE)	SF	14,089	$17.00	$239,513.00
P-620-5.2b-3	RUNWAY AND TAXIWAY MARKING (RED)	SF	8,151	$17.00	$138,567.00
P-620-5.2b-4	RUNWAY AND TAXIWAY MARKING (BLACK)	SF	45,760	$17.00	$777,920.00
P-620-5.3c	REFLECTIVE MEDIA (RUNWAY)	LB	3,657	$2.00	$7,314.00
P-620-5.4d	TEMPORARY RUNWAY AND TAXIWAY MARKING	LS	1	$100,000.00	$100,000.00
D-705-5.4	6 INCH PIPE (PERFORATED PVC), INCLUDING POROUS BACKFILL AND FILTER FABRIC	LF	3,007	$50.00	$150,350.00
901-5.1	SEEDING (HYDROSEEDING)	AC	21	$2,500.00	$52,500.00
904-5.2	SODDING	SY	5,333	$10.00	$53,333.33
T-908-5.1	MULCHING	SY	97,217	$0.25	$24,304.25
	DRAINAGE, PERIMETER ROAD, PERIMETER FENCE				
P-101-5.1a	ASPHALT PAVEMENT AND BASE REMOVAL	SY	0	$30.00	$0.00
P-101-5.1b	CONCRETE PAVEMENT REMOVAL	SY	0	$30.00	$0.00
P-101-5.6	COLD MILLING (DEPTH VARIES)	SY	0	$5.00	$0.00
P-101-5.7	REMOVAL OF EXISTING PIPES AND STRUCTURES	LS	1	$50,000.00	$50,000.00
P-151-4.1	CLEARING (REMOVAL OF EXISTING FENCE AND CONCRETE MAINTENANCE PAD)	LS	0	$30,780.00	$0.00
P-151-4.2	CLEARING AND GRUBBING (REMOVAL OF GRASS)	AC	0	$1,500.00	$0.00
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	0	$20.00	$0.00
P-152-4.2	MUCK EXCAVATION	CY	0	$23.00	$0.00
P-152-4.3	EMBANKMENT IN PLACE - GENERAL	CY	0	$40.00	$0.00
P-152-4.4	EMBANKMENT IN PLACE - SELECT FILL	CY	0	$50.00	$0.00
P-153-6.1	CONTROLLED LOW-STRENGTH MATERIAL (CLSM)	CY	0	$100.00	$0.00
P-155-8.1	LIME TREATED SUBGRADE	SY	0	$12.00	$0.00
P-155-8.2	LIME	TON	0	$350.00	$0.00
P-209-5.1c	CRUSHED AGGREGATE BASE COURSE (8" THICK)	SY	0	$40.00	$0.00
P-209-5.2	SEPERATION GEOTEXTILE	SY	0	$3.00	$0.00
P-403-8.1a	ASPHALT MIXTURE SURFACE COURSE	TON	0	$160.00	$0.00
P-403-8.1b	ASPHALT MIXTURE BINDER COURSE	TON	0	$160.00	$0.00
P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	GAL	0	$4.50	$0.00
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	GAL	0	$4.50	$0.00
P-620-5.2b	PAINTED TRAFFIC STRIPING	SF	0	$4.00	$0.00
P-620-5.2c	REFLECTIVE MEDIA	LBS	0	$2.00	$0.00
D-701-5.1	15 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0	$145.00	$0.00
D-701-5.2	30 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	1,527	$235.00	$358,845.00
D-701-5.3	36 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	674	$295.00	$198,830.00
D-701-5.4	42 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0	$345.00	$0.00
D-701-5.5	48 INCH RCP (CLASS IV) (INCLUDES BEDDING & BACKFILL)	LF	0	$380.00	$0.00
D-701-5.6	15 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	0	$160.00	$0.00
D-701-5.7	18 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	262	$175.00	$45,850.00
D-701-5.8	24 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	285	$195.00	$55,575.00
D-701-5.9	36 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	401	$275.00	$110,275.00
D-701-5.10	42 INCH RCPA (CLASS AIV) (INCLUDES BEDDING & BACKFILL)	LF	0	$340.00	$0.00
D-751-5.1	CATCH BASIN - CB-01 (INCLUDES BEDDING & BACKFILL)	EA	11	$6,000.00	$66,000.00

D-751-5.2	CATCH BASIN - CB-02 (INCLUDES BEDDING & BACKFILL)	EA	2	$7,500.00	$15,000.00
D-751-5.3	CATCH BASIN - CB-SD02 (INCLUDES BEDDING & BACKFILL)	EA	0	$11,600.00	$0.00
F-162-5.1	CHAIN-LINK FENCE (6 FT HT. W/ 3 STRANDS BARBED WIRE)	LF	0	$80.00	$0.00
F-162-5.3	CONCRETE MAINTENANCE PAD	LF	0	$20.00	$0.00
LA-731-02	REFLECTORIZED RAISED PAVEMENT MARKERS (WHITE / WHITE)	EA	0	$10.00	$0.00
S-1003	SECURITY SIGNS	LS	0	$7,500.00	$0.00
	TAXIWAY EDGE LIGHTING AND SIGNING				
L-108-5.1	NO. 8 AWG, 5 KV TYPE C CABLE, INSTALLED IN CONDUIT	LF	3,200	$5.00	$16,000.00
L-108-5.2	NO. 6 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED, ABOVE THE DUCT BANK OR CONDUIT, INCLUDING CONNECTIONS/TERMINATIONS, INCLUDING GROUND RODS	LF	3,000	$5.00	$15,000.00
L-109-7.2	MODIFICATIONS TO L-854 RADIO CONTROL EQUIPMENT TO INCLUDE PANEL RELABELING, IN PLACE AND OPERATIONAL	LUMP	1	$5,000.00	$5,000.00
L-110-5.1	ELECTRICAL CONDUIT, 2" SCHEDULE 40 PVC, TYPE II INSTALLED IN TRENCH	LF	3,200	$4.00	$12,800.00
L-110-5.2	ELECTRICAL CONDUIT, 2" HDPE, JACKED OR BORED UNDER TAXIWAY IN STEEL CASING (STEEL CASING INCLUDED IN THIS ITEM)	LF	500	$20.00	$10,000.00
L-110-5.3	ELECTRICAL DUCT, 4-WAY, 4" AND 1-WAY, 2" HIGH DENSITY POLYETHYLENE CONDUIT, DIRECTIONAL BORE, INSTALLED	LF	100	$125.00	$12,500.00
L-115-5.1	ELECTRICAL JUNCTION CAN, L-867, SIZE B, CLASS 1, COMPLETE, IN PLACE	EA	4	$2,000.00	$8,000.00
L-115-5.2	ELECTRICAL JUNCTION CAN, L-867, SIZE D, CLASS 1, COMPLETE, IN PLACE	EA	6	$2,700.00	$16,200.00
L-125-5.1	MEDIUM INTENSITY TAXIWAY EDGE LIGHT (L-861T), WITH BLUE LENS, LED LAMP, 10/15 WATT TRANSFORMER, BASE MOUNTED, IN PLACE	EA	43	$1,200.00	$51,600.00
L-125-5.2	SIGN L-858, SIZE 2, 1-PANEL, REQUIRED CONCRETE BASE	EA	3	$6,000.00	$18,000.00
L-125-5.3	SIGN L-858, SIZE 2, 2-PANEL, REQUIRED CONCRETE BASE	EA	2	$6,000.00	$12,000.00
L-125-5.6	REPLACE EXISTING SIGN PANEL, COMPLETE, IN PLACE	EA	5	$1,000.00	$5,000.00
L-125-5.7	REMOVE EXISTING RUNWAY & TAXIWAY ELECTRICAL SYSTEMS	LUMP	1	$3,000.00	$3,000.00
L-125-5.8	ELECTRICAL TESTING AND UPDATE ALCS	LUMP	1	$4,000.00	$4,000.00
L-125-5.9	CONNECT TO EXISTING CIRCUIT	LUMP	1	$2,000.00	$2,000.00
S-1004	TEMPORARY COMMUNICATION LINE	LUMP	1	$35,000.00	$35,000.00
	NAVAIDS (RVR RELOCATION)				
L-108-5.1	TRENCHING FOR DIRECT BURIED CABLE, 18-INCH MINIMUM DEPTH	LF	40	$172.50	$6,900.00
L-108-5.3	NO. 2 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED IN TRENCH, INCLUDING CONNECTIONGS/TERMINATIONS	LF	40	$2.65	$106.00
L-108-5.4a	NO. 2 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	5,420	$3.38	$18,319.60
L-108-5.4b	NO. 6 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	1,980	$1.58	$3,128.40
L-108-5.4c	NO. 10 AWG, INSULATED, STRANDED EQUIPMENT GROUND, INSTALLED IN DUCT BANK OR CONDUIT	LF	21,600	$0.65	$14,040.00
L-110-5.2a	NON-ENCASED ELECTRICAL CONDUIT (2" HDPE)	LF	1,800	$22.63	$40,734.00
L-110-5.2b	NON-ENCASED ELECTRICAL CONDUIT (2" SCHEDULE 80 PVC)	LF	40	$9.82	$392.80
L-115-5.2	ELECTRICAL JUNCTION STRUCTURE (48"X48"X48" POLYMER CONCRETE)	LF	3	$8,613.44	$25,840.32
S-1001	ROLLOUT RVR DISASSEMBLY	LUMP	1	$4,554.00	$4,554.00
S-1002	ROLLOUT RVR REASSEMBLY	LUMP	1	$28,874.50	$28,874.50
PHASE I CONSTRUCTION TOTAL =					$8,303,085.73