

ATTACHMENT 7


PROJECT PLANNING INFORMATION


Aviation Project Initiation Sheet

Project Information			
Proposed Project Title	Petersburg Airport Rehabilitation		
Airport Name & Identifier	Petersburg James A. Johnson Airport (PSG)		
APEB Date	2/22/2024	APEB Score	143.7
Nomination Description	Rehabilitate the sinking Runway Safety Areas, correct the settlement on the RWY 5 blast pad, replace the runway and taxiway lights. Replace three of the six ramp flood light poles with drop down poles and replace the light heads on 5 of the 6 poles. Mill and pave the runway, taxiway, and General Aviation expansion area		
Project Justification	Three of the ramp flood light poles are well past their age, they are corroding, difficult to drop down, and their stability is in question. The seals on the five light heads are worn; water is getting in. Bulbs are replaced often. The new lights will also use an LED system, which will save a lot of electricity. Working flood lights are critical to the safety of snow removal operations and aircraft night operations. The GA Expansion Area pavement is 19 years old and the runway pavement is 13 years old. This pavement is expected to be in need of rehabilitation within the five year forecast. The FAA has made note of settlement and ponding water in our RSA's that does not meet standard. The Runway 5 blast pad is settling and the runway end lights are settling with it. The settlement bump between the runway and the blast pad does not meet the standards of AC 150/5300-13B.		

Proposed Project Schedule/Estimate			
Phase	Planned Year	Estimated Cost per Phase	Comments
Phase 2 (Design)		1,000,000	
Phase 3 (ROW)		100,000	
Phase 4 (Construction)		18,400,000	
Phase 7 (Utilities)		100,000	
Phase 8 (Planning)			

Program Development Project Initiation Approvals

Prepared By: 	03/11/2024
Aviation Planner Signature	Date

Approved: 	03/11/2024
Planning Section Chief	Date

FAA and Statewide Aviation Approval for Design Phase

Project Initiation
Proposed Project Name:

AIP Program Year		Legislative Authority Reviewed	
		(balance available at time of signature)	
2028		T11Z21002	/ \$12,958,521
Contingent Year	Expected	Appropriation Unit/Balance	

Approved:	
<i>Kari Hebert</i>	3/29/2024
Statewide Aviation Signature	Date

CIP DATASHEET

Airport Name: Petersburg James A. Johnson Airport

Grant Year: 2028

LOCID: PSG

Date Submitted: 12/30/2023

CIP Work Code			Project Description	Cost in Dollars (\$)
Purpose	Component	Type		
SA	RW	SF	Rehabilitate Safety Areas	\$3,162,942
ST	OT	IM	Rehabilitate runway blast pad	\$529,513
RC	RW	LI	Replace Runway Lights	\$794,699
RC	TW	LI	Replace Taxiway Lights	\$230,337
ST	OT	LI	Replace 3 flood lights	\$236,896
RE	OT	LI	Rehabilitate 2 existing flood lights	\$2,163
RE	RW	IM	Rehabilitate Runway Pavement	\$11,395,385
RE	TW	IM	Rehabilitate Taxiway Pavement	\$522,240
RE	AP	IM	Rehabilitate the General Aviation Expansion Area Apron	\$2,725,825
			Total Cost:	\$19,600,000
			(5.0%) Sponsor Share:	\$980,000
			Federal Share:	\$18,620,000

Project Description and Justification:

(Provide a more detailed project description than above. The justification should be brief and describe the need, objectives, method of accomplishment, and the benefit expected to be obtained from the assistance.)

Description: Rehabilitate the sinking Runway Safety Areas, correct the settlement on the RWY 5 blast pad, replace the runway and taxiway lights. Replace three of the six ramp flood light poles with drop down poles and replace the light heads on 5 of the 6 poles. Mill and pave the runway, taxiway, and General Aviation expansion area.

Justification: Three of the ramp flood light poles are well past their age, they are corroding, difficult to drop down, and their stability from falling over is in question. The seals on the five light heads are worn with water getting in. Bulbs are replaced often. The new lights will also use an LED system, which will save a lot of electricity. Working flood lights are critical to the safety of snow removal operations and aircraft night operations. The GA Expansion Area pavement is 19 years old and the runway pavement is 13 years old. A PCI inspection was due this year but will not happen until spring 2024. This project is not likely to break ground until the 2028-2030 time period and by then, the pavement will be in dire need of rehabilitation. We cannot wait until the pavement gets to that point. The FAA has made note of settlement and ponding water in our RSA's and that does not meet standard. The Runway 5 blast pad is settling and the runway end lights are settling with it. The settlement bump between the runway and the blast pad does not meet the standards of AC 150/5300-13B.

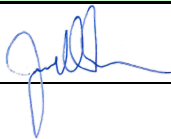
Submitted by:

Joel Osburn, PE

Contact Name:

907-465-4409

Telephone:

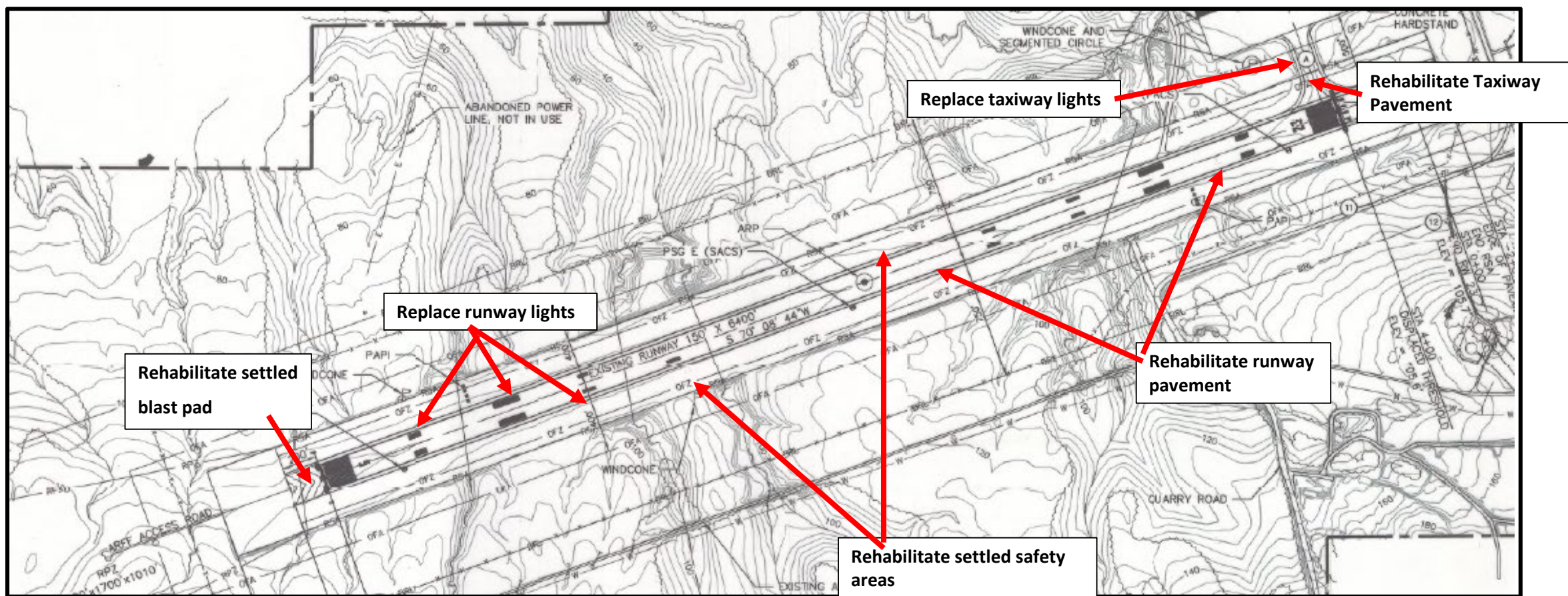


Reconnaissance Engineer, AKDOT&PF SCR

Title:

joel.osburn@alaska.gov

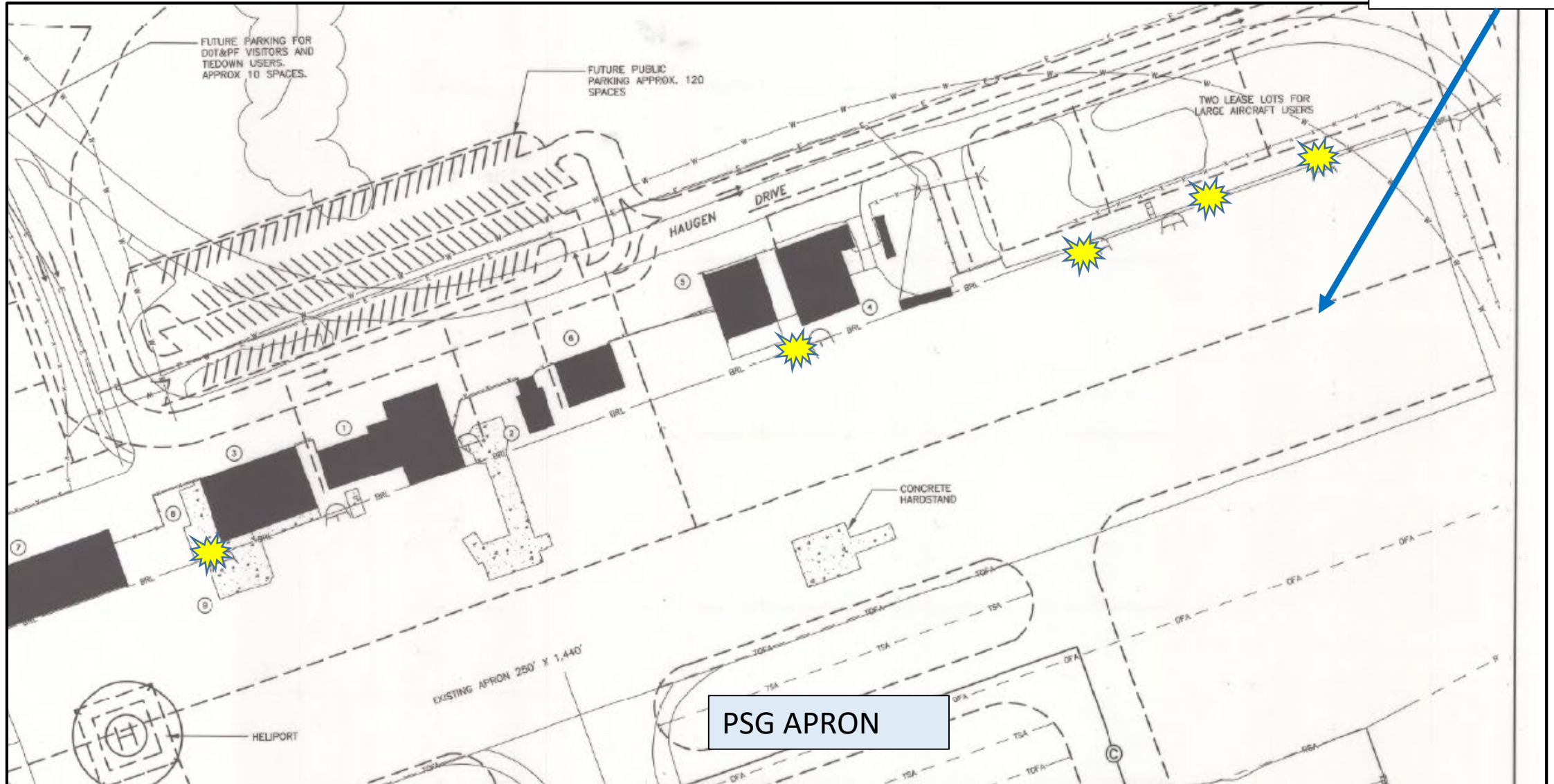
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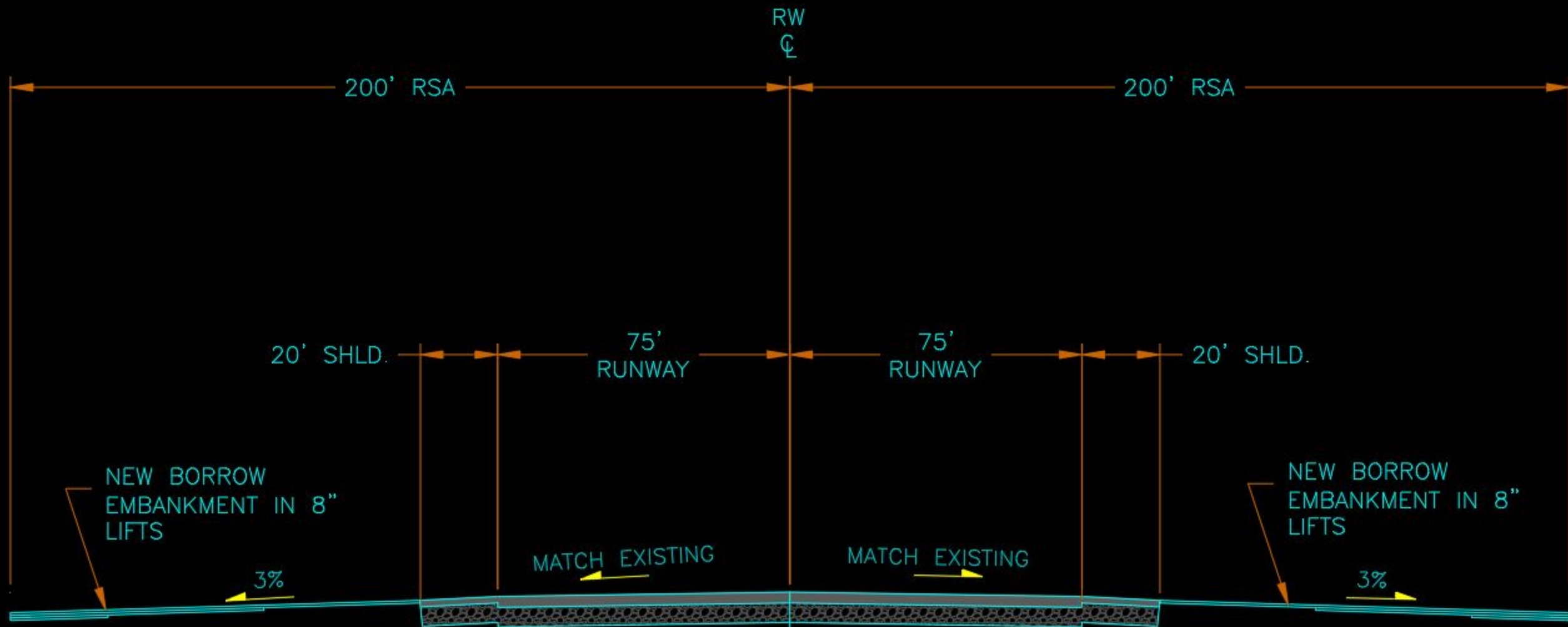
Replace and rehabilitate light poles



Rehabilitate GA
Expansion Apron



PSG APRON



RSA SETTLEMENT
REPAIR & PAVEMENT
TYPICAL SECTION

Scope, Schedule, Estimate (SSE) Confirmation

Project Name	Petersburg Airport Rehabilitation		
DATE	15-Dec-23	CATEGORY	State of Good Repair
NEED ID		REASON	<input checked="" type="radio"/> New Project <input type="radio"/> Update SSE

PLANNING SSE

PROPOSED SCOPE	Rehabilitate the sinking Runway Safety Areas, correct the settlement on the RWY 5 blast pad, replace the runway and taxiway lights. Replace three of the six ramp flood light poles with drop down poles and replace the light heads on 5 of the 6 poles. Mill and pave the runway, taxiway, and General Aviation expansion area
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PLANNING ESTIMATE

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	TOTAL
<i>Design</i>	500,000	500,000									1,000,000
<i>Utilities</i>			100,000								100,000
<i>Right of Way</i>			100,000								100,000
<i>Construction</i>				20,000,000							20,000,000
TOTAL	500,000	500,000	200,000	20,000,000							21,200,000

CONFIRMED SSE

CONFIRMED SCOPE	Rehabilitate the sinking Runway Safety Areas, correct the settlement on the RWY 5 blast pad, replace the runway and taxiway lights (reuse conductors, cable, conduit). Replace three of the six ramp flood light poles with drop down poles and replace the light heads on 5 of the 6 poles. Mill and pave the runway, taxiway, and General Aviation expansion area. ASSUMPTIONS: Blast pad settlement unknown - repaired with 2" cold plane & 4" HMA lift. RSA settlement unknown - repaired with a new embankment slope meeting RSA minimum slope of 3%.
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ENGINEERS CONFIRMED

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	TOTAL
<i>Design</i>	1,176,000	784,000									1,960,000
<i>Utilities</i>		100,000									100,000
<i>Right of Way</i>											-
<i>Construction</i>			13,000,000	6,600,000							19,600,000
TOTAL	1,176,000	884,000	13,000,000	6,600,000							21,660,000

Scope, Schedule, Estimate (SSE) Confirmation

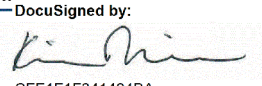
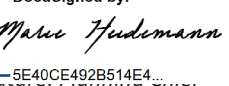
Project Name	Petersburg Airport Rehabilitation		
DATE	15-Dec-23	CATEGORY	State of Good Repair
NEED ID	0	REASON	<input checked="" type="radio"/> New Project <input type="radio"/> Update SSE

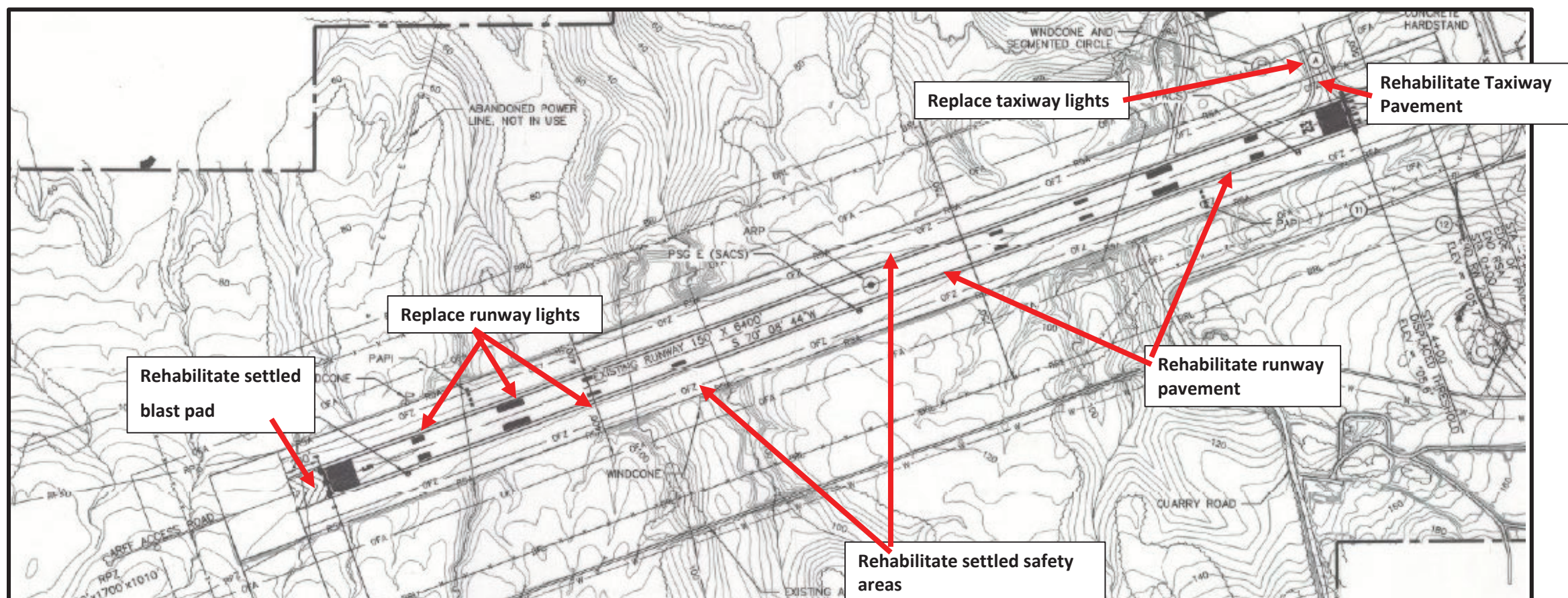
CONSIDERATIONS

SSE	Value	Comments
Basis for Estimate Field Review or Recon List Assumptions & Unknowns	Itemized Approx	
	No	
	Several assumptions made as we had less than 2 weeks to complete. Mainly lacking information on settlement issues at RW 5 blast pad & RSA slopes - assumptions are provided in the confirming estimate file. Assumed re-use of existing cable/conduit/conductors for all lighting.	
ENVIRONMENTAL	Value	Comments
Anticipated Environmental Doc Environmental Doc Prep Time 4(F) Involvement Permits Required List Assumptions & Unknowns	CE	Cat Ex for working within existing airport typical section
	8 months	
	No	
	Yes	
	Not certain about permits - all work within previously disturbed ground.	
ROW	Value	Comments
Confidence in ROW Estimate List Assumptions & Unknowns	High	
	All work within ROW limits.	
UTILITY	Value	Comments
Confidence in Utility Estimate List Assumptions & Unknowns	Low	
	Assuming no damages to existing UG conduit/conductors/cable.	
OTHER	Value	Comments
Impacts to Annual M&O Bridge Work Included Geotech Considerations List Assumptions & Unknowns	Yes	Improved facility will require less maintenance for next 10 years.
	No	
	Will need pavement cores & boreholes at RSA to determine settlement solution.	

CERTIFICATION & APPROVAL

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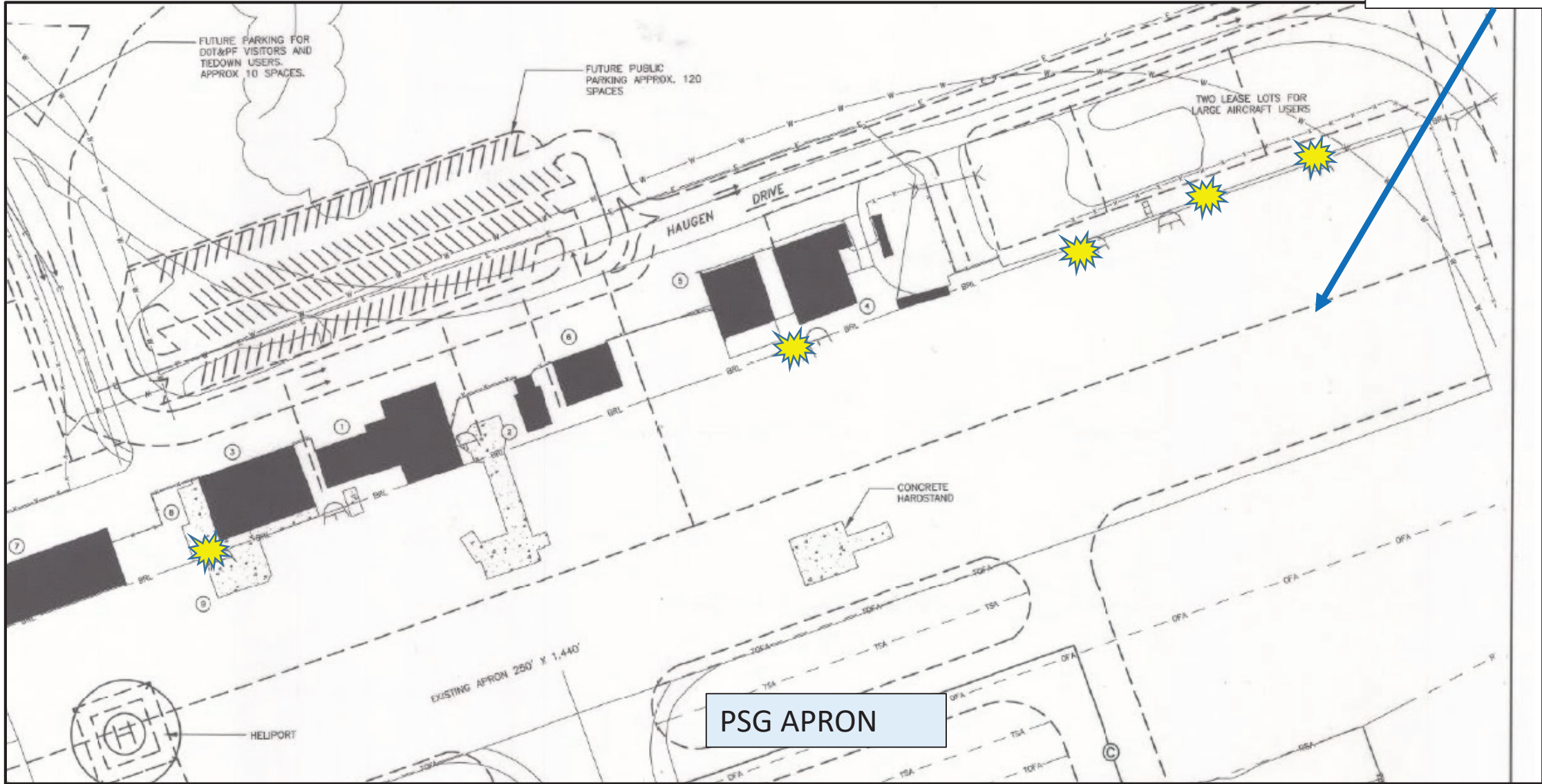
Confirmed SSE Prepared By	Joel Osburn, PE	12/31/23
Confirmed SSE Pre-Construction Approval	DocuSigned by: 	Date
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	Signature, PE Construction Engineer	
Confirmed SSE Planner Approval	Kirk Miller, PE	1/2/2024
	DocuSigned by: 	Date
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	Marie Heidemann	1/2/2024
	Name	Date



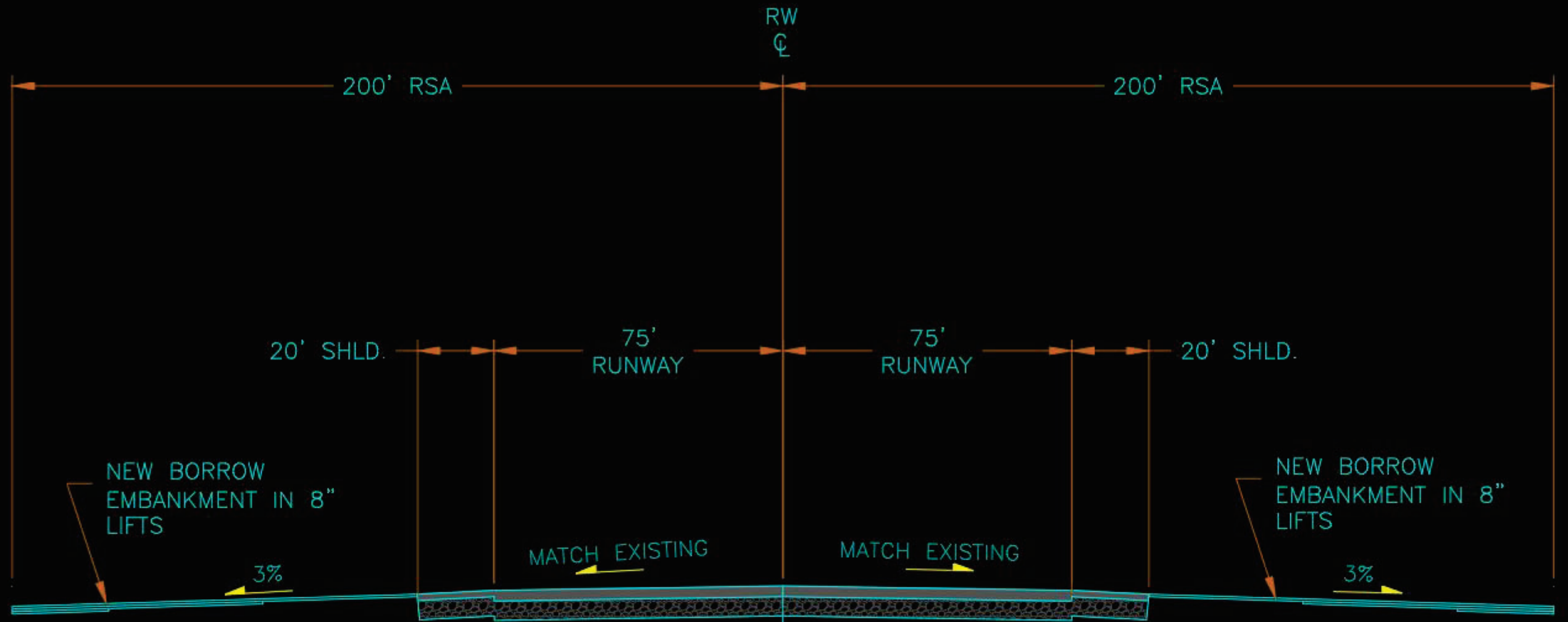
Replace and rehabilitate light poles



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RSA SETTLEMENT
REPAIR & PAVEMENT
TYPICAL SECTION



SSE Estimate

State of Alaska - Department of Transportation and Public Facilities

Southcoast Region

Project Name: Petersburg Airport Rehabilitation

Project Number: Unassigned

SCOPE:	Rehabilitate the sinking Runway Safety Areas, correct the settlement on the RWY 5 blast pad, replace the runway and taxiway lights (reuse conductors, cable, conduit). Replace three of the six ramp flood light poles with drop down poles and replace the light heads on 5 of the 6 poles. Mill and pave the runway, taxiway, and General Aviation expansion area.				
	ASSUMPTIONS: Blast pad settlement unknown - repaired with 2" cold plane & 4" HMA lift. RSA settlement unknown - repaired with a new embankment slope meeting RSA minimum slope of 3%.				
ITEM No.	Descriptions	Pay Unit	Quantity	Unit Price	Amount
G135.030.0000	MONUMENTS BY THE CONTRACTOR	LUMP SUM	ALL REQUIRED	\$ 4,410.00	\$ 4,410.00
L125.030.0000	MEDIUM INTENSITY RUNWAY EDGE AND THRESHOLD LIGHT, L-861 AND L-861E	EACH	70	\$ 4,961.25	\$ 347,287.50
L125.040.0000	TAXIWAY EDGE LIGHT, L-861T	EACH	22	\$ 4,575.38	\$ 100,658.25
L125.180.0000	TEMPORARY RUNWAY LIGHTING SYSTEM	LUMP SUM	ALL REQUIRED	\$ 203,962.50	\$ 203,962.50
L125.450.0000	REMOVE AIRPORT ELECTRICAL	LUMP SUM	ALL REQUIRED	\$ 74,418.75	\$ 74,418.75
L150.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	LUMP SUM	ALL REQUIRED	\$ 105,288.75	\$ 105,288.75
L155.010.0000	FLOOD LIGHTING	LUMP SUM	ALL REQUIRED	\$ 16,537.50	\$ 16,537.50
P152.010.0000	UNCLASSIFIED EXCAVATION	CUBIC YARD	34,000	\$ 28.67	\$ 974,610.00
P152.200.0000	BORROW	CUBIC YARD	34,000	\$ 18.74	\$ 637,245.00
P162.010.0000	PAVEMENT COLD PLANING	SQUARE YARD	192,828	\$ 4.41	\$ 850,370.99
P209.080.0000	LINEAR GRADING	STATION	141	\$ 385.88	\$ 54,292.61
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	TON	23,055	\$ 170.89	\$ 3,939,787.90
P401.020.6428	ASPHALT CEMENT, PG 64-28	TON	1,383	\$ 755.21	\$ 1,044,679.24
P401.080.0000	HOT MIX ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED	\$ 249,223.36	\$ 249,223.36
P401.090.0000	ASPHALT MATERIAL PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED	\$ -	\$ -
P401.100.0010	PAVEMENT SMOOTHNESS PRICE ADJUSTMENT, METHOD 1	CONTINGENT SUM	ALL REQUIRED	\$ 124,611.68	\$ 124,611.68
P401.110.0000	LONGITUDINAL JOINT DENSITY PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED	\$ 113,835.00	\$ 113,835.00
P411.010.0000	INTELLIGENT COMPACTION FOR HOT MIX ASPHALT PAVEMENT	LUMP SUM	ALL REQUIRED	\$ 35,280.00	\$ 35,280.00
P603.010.0010	TACK COAT STE-1 OR CSS-1	TON	69	\$ 716.63	\$ 49,454.88
P620.020.0000	RUNWAY AND TAXIWAY PAINTING	LUMP SUM	ALL REQUIRED	\$ 271,704.28	\$ 271,704.28
P620.060.0000	PAINTED MARKING REMOVAL	LUMP SUM	ALL REQUIRED	\$ 190,997.76	\$ 190,997.76
P620.070.0000	TEMPORARY RUNWAY AND TAXIWAY PAINTING	LUMP SUM	ALL REQUIRED	\$ 224,596.53	\$ 224,596.53
P621.020.0000	SAW-CUT GROOVES	LUMP SUM	ALL REQUIRED	\$ 375,029.03	\$ 375,029.03

Subtotal \$9,988,281.51

G100.010.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED	15%	\$ 1,498,242.23
G115.010.0000	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED	10%	\$ 998,828.15
G130.010.0000	FIELD OFFICE	LUMP SUM	ALL REQUIRED	\$ 55,000.00	\$ 55,000.00
G130.020.0000	FIELD LABORATORY	LUMP SUM	ALL REQUIRED	\$ 27,500.00	\$ 27,500.00
G130.060.0000	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EACH	1	\$ 8,000.00	\$ 8,000.00
G130.140.0000	RADIOS	EACH	4	\$ 1,000.00	\$ 4,000.00
G131.010.0000	ENGINEERING TRANSPORTATION (TRUCK)	EACH	2	\$ 25,000.00	\$ 50,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LUMP SUM	ALL REQUIRED	2%	\$ 199,765.63
G135.050.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	CONTINGENT SUM	ALL REQUIRED	\$ 66,150.00	\$ 66,150.00
G200.010.0000	CONTRACTOR QUALITY CONTROL PROGRAM	LUMP SUM	ALL REQUIRED	\$ 11,025.00	\$ 11,025.00
G200.020.0000	QC PROGRAM ADMINISTRATOR	LUMP SUM	ALL REQUIRED	\$ 44,100.00	\$ 44,100.00
G200.030.0000	QC TECHNICIAN	EACH	2	\$ 57,000.00	\$ 114,000.00
G300.010.0000	CPM SCHEDULING	LUMP SUM	ALL REQUIRED	\$ 22,050.00	\$ 22,050.00

G310.010.0000	PUBLIC UPDATES	LUMP SUM	ALL REQUIRED	\$ 25,000.00	\$ 25,000.00
G700.010.0000	AIRPORT FLAGGER	CONTINGENT SUM	ALL REQUIRED	3%	\$ 299,648.45
G700.030.0000	AIRPORT TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED	\$ 350,000.00	\$ 350,000.00
P641.010.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED	\$ 9,000.00	\$ 9,000.00
P641.030.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED	\$ 100,000.00	\$ 100,000.00
P641.050.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CONTINGENT SUM	ALL REQUIRED	\$ 40,000.00	\$ 40,000.00
P641.060.0000	WITHHOLDING	CONTINGENT SUM	ALL REQUIRED	\$ -	\$ -
P641.070.0000	SWPPP MANAGER	LUMP SUM	ALL REQUIRED	0.5%	\$ 49,941.41

TOTAL BASE BID = \$13,960,532

Contingency	10%	\$1,396,053
CE @	20%	\$3,071,317
Subtotal		\$18,427,903
ICAP @	6.35%	\$1,170,172
Phase 4 Total		\$19,598,075
Rounded Phase 4 Total		\$19,600,000

Petersburg Airport Rehabilitation

Rehabilitate the sinking Runway Safety Areas, correct the settlement on the RWY 5 blast pad, replace the runway and taxiway lights (reuse conductors, cable, conduit). Replace three of the six ramp flood light poles with drop down poles and replace the light heads on 5 of the 6 poles. Mill and pave the runway, taxiway, and General Aviation expansion area.

ASSUMPTIONS: Blast pad settlement unknown - repaired with 2" cold plane & 4" HMA lift. RSA settlement unknown - repaired with a new embankment slope meeting RSA minimum slope of 3%.

PHASE COST SUMMARY				
Phase 2	Start @ 10% of Ph4	\$1,960,000.00		\$1176 K to EV Doc
	Geotech	\$294,000	15%	\$784 K to ATA
	Environmental	\$196,000	10%	
	Survey	\$157,000	8%	
	ROW eng.	\$59,000	3%	
	Utility eng.	\$98,000	5%	
	Civil	\$1,156,500	59%	
Phase 3		\$0.00	All work within ROW	
Phase 4	Rounded total	\$19,600,000.00		
Phase 7	Placeholder @ 0.5% of Ph4	\$100,000.00	To establish the potential for Utility needs	
Phase 2, 3, 4, and 7 total cost		\$21,660,000.00		

PHASE TIME SUMMARY (months)		
Phase 2		
Design Start (PDA 0)		0
Prelim Design (approx 25%)		10
Env Document		10
PIH Review		6
PSE Review		7
Anticipated Bid Advertisement		3
TOTAL =		36
Phase 4		
Anticipated Duration		24