



MEETING DATE: November 24, 2014  
TO: Board of Directors  
FROM: Bill Quesnel PE, District Engineer  
SUBJECT: Preliminary 2015-2025 Airport Capital Improvement Program  
2015 Pavement Maintenance Projects

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**RECOMMENDATION:**

Authorize the General Manager to submit the attached 2015-2025 Airport Capital Improvement Project (ACIP) list to the FAA.

Authorize staff to proceed with the design of the 2015 Pavement Maintenance Projects and submit project applications to the FAA for funding consideration.

**DISCUSSION:**

Each year the District submits an updated Airport Capital Improvement Program (ACIP) list to the FAA identifying proposed construction projects and/or equipment needs that are grant eligible (up to 90% of the project cost); the 2015 ACIP is due no later than January 31<sup>st</sup>. While all of the projects are technically eligible for funding, the District should assume some will not “make the cut” due to the FAA’s prioritization of construction oriented work related to runways, taxiways, aprons and ramps. Examples of low priority projects include:

- surface sealing and pavement marking not associated with construction
- taxilanes (portion adjacent to hangars, middle 25-feet is higher priority)
- snow removal equipment

As shown on the attached Table No. 39, the grant fundable projects total \$26,848,000 through 2025. The list of improvements is comprised primarily of on-airport infrastructure projects identified in both the recently updated *Pavement Management Plan* and soon-to-be-completed *Airport Master Plan* along with a replacement tower for the Alder Hill Beacon and replacement snow removal equipment (loader and blower). 2015 construction season pavement projects likely to be 90% funded by the FAA include:

- Runway 2-20 & Taxiway G- Saw & Seal Supplemental Joints and Surface Seal: \$510,000
  - South Jet Apron reconstruction (pending decision on Hangar 3): \$845,000
  - Remove Taxiway E and Apron A1 & A2 widening: \$230,000
- SUBTOTAL: \$1,585,000

2015 construction season projects likely to require partial or full funding by the District include:

- Hangar Taxilanes West G & GH reconstruction: \$867,000
  - Hangars L & M and Warehouse Area Taxilane Seal: \$26,000
  - Purchase replacement snow removal loader \$460,000
- SUBTOTAL: \$1,353,000

The FAA will also pay 90% of the “soft costs” for funded projects. The fees for design engineering and preparation of environmental documentation for the 2015 projects and the 2016 reconstruction of Taxiways A, F, H, U and J total \$430,000 or approximately 9.6% of construction. Professional services for bidding, construction engineering, inspection and contract administration of the 2015 projects is approximately 15.8% of construction costs or \$463,000; the total cost of professional services for 2015 projects and design of the 2016 project is \$893,000.

**FISCAL IMPACT:**

The General Manager met with the FAA in October and indications are that funding seems likely given the Airport’s history of fronting the cost of project design/bidding and completing construction in a timely manner. As of last month, the FAA has given a verbal commitment of approximately \$550,000 for the upcoming construction season. Staff’s expectation is that more funding will be made available; with a goal of 90% funding of all grant eligible projects. The General Manager continues to work with FAA on the final ACIP funding allocation and Staff will return to the Board at a later date, likely March, to provide an update as the level of FAA funding becomes clearer.

To supplement FAA funding and allow implementation of the *Pavement Management Plan’s* 2015 program, Staff proposes to use a combination of the following Unrestricted Net Assets funds that have been reserved for current and future projects:

- Non-funded Grant Eligible Projects : \$2,170,000
  - Pavement Maintenance : \$ 500,000
  - Non-Grant Eligible Projects : \$1,400,000
- SUBTOTAL : \$4,070,000

The FY2015 Budget includes a \$527,000 line item for pavement maintenance making total District funding of \$4,597,000 available to supplement 2015 FAA funding.

**ATTACHMENTS:**

Table No. 39, Preliminary 2015-2025 Airport Capital Improvement Program Summary of Project Costs

Plate No. 1, ACIP Sketch Map 2015-2025

**TABLE NO. 39**

**TRUCKEE TAHOE AIRPORT  
TRUCKEE TAHOE AIRPORT DISTRICT, TRUCKEE, CALIFORNIA  
AIRPORT CAPITAL IMPROVEMENT PROGRAM - 2015-2025 - PRELIMINARY**

**SUMMARY OF PROJECT COSTS  
(Based on 2014 Unit Prices)**

Project/ Priority No.	Shown on ALP	Project Type	Construction Year	Environmental Status	Description	Construction Cost	Engineering & Administration	Total Project Cost	F.A.A. Participation	Sponsor Participation
<b>1</b>	<b>Yes</b>	<b>D</b>	<b>2015</b>		<b>Engineering Design - Projects No. 2, 3, 4, 5 and 6 - Reimbursement</b>	\$ -	\$ 230,000	\$ 230,000	\$ 207,000	\$ 23,000
2	Yes	D	2015	Need 2014	Runway 2-20 & Taxiway G - Saw & Seal Supplemental Joints & Reclaimite Seal	510,000	80,000	590,000	531,000	59,000
3	Yes	D	2015	2/26/14	South Jet Apron - Reconstruct	845,000	160,000	1,005,000	904,500	100,500
4	Yes	D	2015	Need 2014	Hangar Taxilanes West G and GH - Reconstruct	867,000	165,000	1,032,000	928,800	103,200
5	Yes	D	2015	Need 2014	Hangars L & M & Warehouse Area Taxilane - Reclaimite Seal	26,000	5,000	31,000	27,900	3,100
6	No*	D	2015	Need 2014	Remove Taxiway E and Widen Apron A1 and A2 - New Construction	230,000	43,000	273,000	245,700	27,300
7	Yes	D	2015	N/A	Purchase Snow Removal Equipment - Loader	460,000	10,000	470,000	423,000	47,000
<b>8</b>	<b>Yes</b>	<b>D</b>	<b>2015</b>	<b>Need 2014</b>	<b>Engineering Design - Project No. 9</b>	-	<b>200,000</b>	<b>200,000</b>	<b>180,000</b>	<b>20,000</b>
<b>TOTAL FOR 2015</b>						<b>\$ 2,938,000</b>	<b>\$ 893,000</b>	<b>\$ 3,831,000</b>	<b>\$ 3,447,900</b>	<b>\$ 383,100</b>
9	Yes	D	2016	Need 2014	Taxiways A (Sta. 28+00 to 72+00), F, H, U, & J - Reconstruct	\$ 2,000,000	\$ 381,000	\$ 2,381,000	\$ 2,142,900	\$ 238,100
10	Yes	P	2016	N/A	Airport Land Use Compatibility Plan			State Funded		
<b>11</b>	<b>Yes</b>	<b>D</b>	<b>2016</b>	<b>2015</b>	<b>Engineering Design - Projects No. 13, 14, and 15</b>	-	<b>75,000</b>	<b>75,000</b>	<b>67,500</b>	<b>7,500</b>
<b>12</b>	<b>No*</b>	<b>D</b>	<b>2016</b>	<b>--</b>	<b>Environmental Assessment (EA) - Project 27</b>	-	-	-	-	-
<b>TOTAL FOR 2016</b>						<b>\$ 2,000,000</b>	<b>\$ 456,000</b>	<b>\$ 2,456,000</b>	<b>\$ 2,210,400</b>	<b>\$ 245,600</b>
13	Yes	D	2017	2015	Runway 11-29 (East) - Saw & Seal Supplemental Joints	\$ 155,000	\$ 30,000	\$ 185,000	\$ 166,500	\$ 18,500
14	Yes	D	2017	2015	Hangar Taxilanes CD and DE (East) - Reconstruct	390,000	74,000	464,000	417,600	46,400
15	Yes	D	2017	2015	Replacement of Alder Hill Beacon Tower	100,000	15,000	115,000	103,500	11,500
16	Yes	D	2017	N/A	Purchase Snow Removal Equipment - Oshkosh Blower	500,000	10,000	510,000	459,000	51,000
<b>17</b>	<b>Yes</b>	<b>D</b>	<b>2017</b>	<b>2016</b>	<b>Engineering Design - Projects No. 18, 19, 20, and 21</b>	-	-	-	-	-
<b>TOTAL FOR 2017</b>						<b>\$ 1,145,000</b>	<b>\$ 129,000</b>	<b>\$ 1,274,000</b>	<b>\$ 1,146,600</b>	<b>\$ 127,400</b>
18	Yes	D	2018	2016	Hangars L & M & Warehouse Area Taxilane - Crack Repair, Seal Cracks	\$ 116,000	\$ 22,000	\$ 138,000	\$ 124,200	\$ 13,800
19	Yes	D	2018	2016	Runway 2-20 Blast Pads - Reconstruct	142,000	27,000	169,000	152,100	16,900
20	Yes	D	2018	2016	Runway 11-29 East Blast Pad - Reconstruct	82,000	16,000	98,000	88,200	9,800
21	Yes	D	2018	2016	Taxilanes - Hangars A through C - Crack Repair	75,000	14,000	89,000	80,100	8,900
<b>22</b>	<b>Yes</b>	<b>D</b>	<b>2018</b>	<b>2017</b>	<b>Engineering Design - Projects No. 25, 26, and 27</b>	-	-	-	-	-
<b>TOTAL FOR 2018</b>						<b>\$ 415,000</b>	<b>\$ 79,000</b>	<b>\$ 494,000</b>	<b>\$ 444,600</b>	<b>\$ 49,400</b>
23	Yes	D	2019	N/A	Update Pavement Maintenance/Management Program	\$ -	\$ 85,000	\$ 85,000	\$ 76,500	\$ 8,500
24	Yes	D	2019	N/A	Airport Layout Plan Narrative including Updated ALP Drawings	-	105,000	105,000	94,500	10,500
25	Yes	D	2019	2017	Taxilane R - Reconstruct	885,000	168,000	1,053,000	947,700	105,300
26	Yes	D	2019	2017	Taxiways A, B, C, & D - Crack Repair, Seal Cracks	48,000	9,000	57,000	51,300	5,700
27	No*	D	2019	EA	Widen and Extend Runway 2-20	4,990,000	948,000	5,938,000	5,344,200	593,800
<b>28</b>	<b>Yes</b>	<b>D</b>	<b>2019</b>	<b>2018</b>	<b>Engineering Design - Project No. 29</b>	-	<b>8,000</b>	<b>8,000</b>	<b>7,200</b>	<b>800</b>
<b>TOTAL FOR 2019</b>						<b>\$ 5,923,000</b>	<b>\$ 1,323,000</b>	<b>\$ 7,246,000</b>	<b>\$ 6,521,400</b>	<b>\$ 724,600</b>
29	Yes	D	2020	2018	Hangar Taxilanes J & K - Saw & Seal New Joints	\$ 49,000	\$ 9,000	\$ 58,000	\$ 52,200	\$ 5,800
<b>30</b>	<b>Yes</b>	<b>D</b>	<b>2020</b>	<b>2019</b>	<b>Engineering Design - Project No. 31</b>	-	<b>175,000</b>	<b>175,000</b>	<b>157,500</b>	<b>17,500</b>
<b>TOTAL FOR 2020</b>						<b>\$ 49,000</b>	<b>\$ 184,000</b>	<b>\$ 233,000</b>	<b>\$ 209,700</b>	<b>\$ 23,300</b>
31	Yes	D	2021	2019	Apron A3 - Reconstruct	\$ 1,207,000	\$ 230,000	\$ 1,437,000	\$ 1,293,300	\$ 143,700
<b>32</b>	<b>Yes</b>	<b>D</b>	<b>2021</b>	<b>2020</b>	<b>Engineering Design - Project No. 33</b>	-	<b>366,000</b>	<b>366,000</b>	<b>329,400</b>	<b>36,600</b>
33	Yes	D	2022	2020	Runway 2-20 and Taxiway G - Reconstruct	3,450,000	655,000	4,105,000	3,694,500	410,500
<b>34</b>	<b>Yes</b>	<b>D</b>	<b>2022</b>	<b>2021</b>	<b>Engineering Design - Projects No. 35, 36, 37, and 38</b>	-	-	-	-	-
35	Yes	D	2022	2021	Runway 11-29 - Crack Repair, Seal Cracks and Joints	156,000	30,000	186,000	167,400	18,600
36	Yes	D	2023	2021	Apron A1 - Reconstruct	1,590,000	302,000	1,892,000	1,702,800	189,200
37	Yes	D	2024	2021	Taxiways A (Sta. 0+00 to 28+00), B, C, & D - Reconstruct	1,330,000	253,000	1,583,000	1,424,700	158,300
38	Yes	D	2025	2021	Apron A2 - Reconstruct	1,465,000	280,000	1,745,000	1,570,500	174,500
<b>TOTAL FOR 2021 thru 2025</b>						<b>\$ 9,198,000</b>	<b>\$ 2,116,000</b>	<b>\$ 11,314,000</b>	<b>\$ 10,182,600</b>	<b>\$ 1,131,400</b>
<b>TOTAL</b>						<b>\$ 21,668,000</b>	<b>\$ 5,180,000</b>	<b>\$ 26,848,000</b>	<b>\$ 24,163,200</b>	<b>\$ 2,684,800</b>

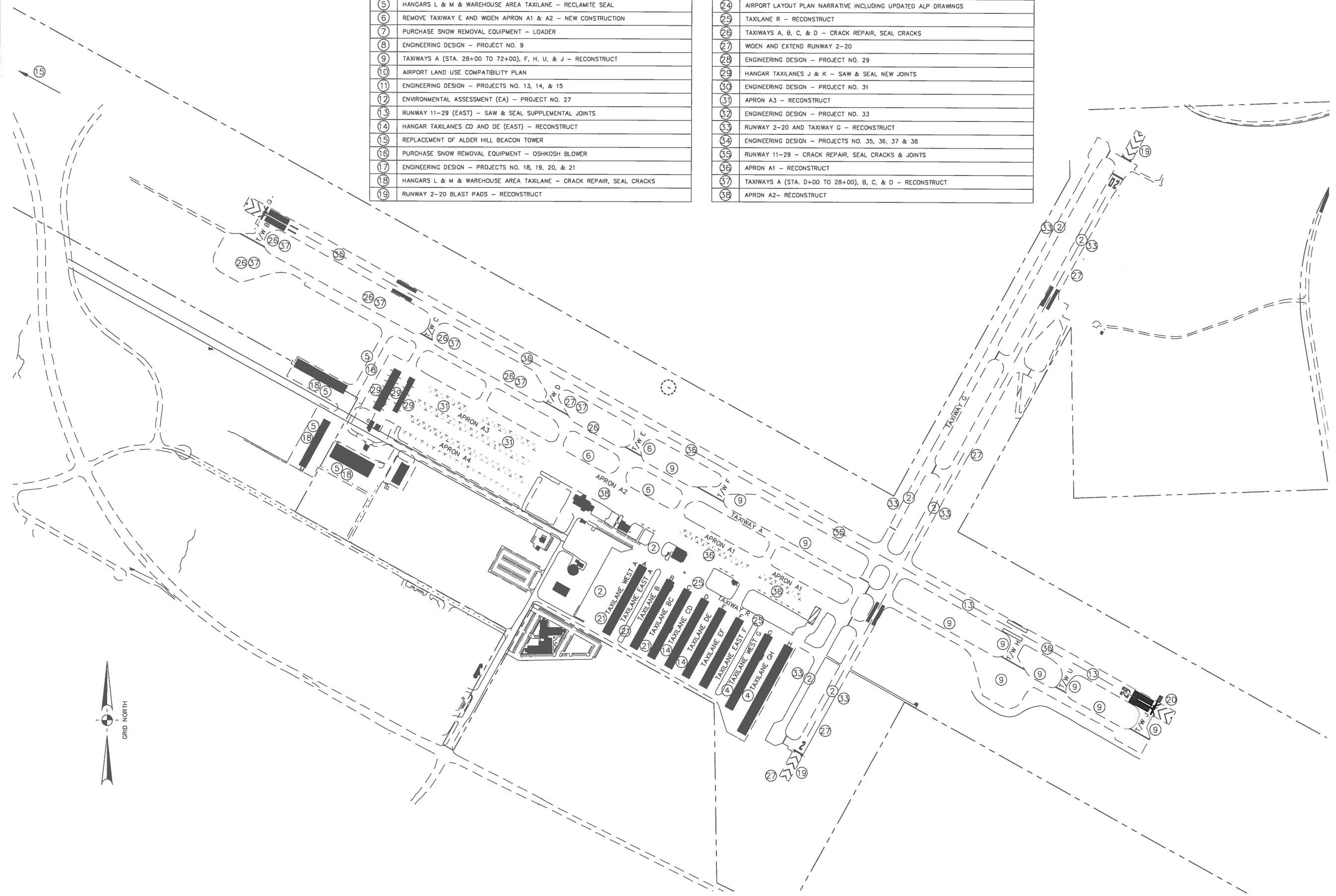
\* - Project is shown on the revised ALP that has been submitted for review.

VERIFY SCALES.

BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

PROJECT No.	DESCRIPTION
1	ENGINEERING DESIGN - PROJECTS NO. 2, 3, 4, 5 & 6 - REIMBURSEMENT
2	RUNWAY 2-20 & TAXIWAY G - SAW & SEAL SUPPLEMENTAL JOINTS & RECLAIMITE SEAL
3	SOUTH JET APRON - RECONSTRUCT
4	HANGAR TAXILANES WEST G & GH - RECONSTRUCT
5	HANGARS L & M & WAREHOUSE AREA TAXILANE - RECLAIMITE SEAL
6	REMOVE TAXIWAY E AND WIDEN APRON A1 & A2 - NEW CONSTRUCTION
7	PURCHASE SNOW REMOVAL EQUIPMENT - LOADER
8	ENGINEERING DESIGN - PROJECT NO. 9
9	TAXIWAYS A (STA. 28+00 TO 72+00), F, H, U, & J - RECONSTRUCT
10	AIRPORT LAND USE COMPATIBILITY PLAN
11	ENGINEERING DESIGN - PROJECTS NO. 13, 14, & 15
12	ENVIRONMENTAL ASSESSMENT (EA) - PROJECT NO. 27
13	RUNWAY 11-29 (EAST) - SAW & SEAL SUPPLEMENTAL JOINTS
14	HANGAR TAXILANES CD AND DE (EAST) - RECONSTRUCT
15	REPLACEMENT OF ALDER HILL BEACON TOWER
16	PURCHASE SNOW REMOVAL EQUIPMENT - OSHKOSH BLOWER
17	ENGINEERING DESIGN - PROJECTS NO. 18, 19, 20, & 21
18	HANGARS L & M & WAREHOUSE AREA TAXILANE - CRACK REPAIR, SEAL CRACKS
19	RUNWAY 2-20 BLAST PADS - RECONSTRUCT

PROJECT No.	DESCRIPTION
20	RUNWAYS 11-29 EAST BLAST PADS - RECONSTRUCT
21	TAXILANES - HANGARS A THROUGH C - CRACK REPAIR
22	ENGINEERING DESIGN - PROJECTS NO. 25, 26, & 27
23	UPDATE PAVEMENT MAINTENANCE/MANAGEMENT PROGRAM
24	AIRPORT LAYOUT PLAN NARRATIVE INCLUDING UPDATED ALP DRAWINGS
25	TAXILANE R - RECONSTRUCT
26	TAXIWAYS A, B, C, & D - CRACK REPAIR, SEAL CRACKS
27	WIDEN AND EXTEND RUNWAY 2-20
28	ENGINEERING DESIGN - PROJECT NO. 29
29	HANGAR TAXILANES J & K - SAW & SEAL NEW JOINTS
30	ENGINEERING DESIGN - PROJECT NO. 31
31	APRON A3 - RECONSTRUCT
32	ENGINEERING DESIGN - PROJECT NO. 33
33	RUNWAY 2-20 AND TAXIWAY G - RECONSTRUCT
34	ENGINEERING DESIGN - PROJECTS NO. 35, 36, 37 & 38
35	RUNWAY 11-29 - CRACK REPAIR, SEAL CRACKS & JOINTS
36	APRON A1 - RECONSTRUCT
37	TAXIWAYS A (STA. D+00 TO 28+00), B, C, & D - RECONSTRUCT
38	APRON A2 - RECONSTRUCT




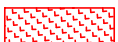


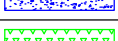
NO.	REVISIONS	BY	DATE	ENGINEER OF RECORD

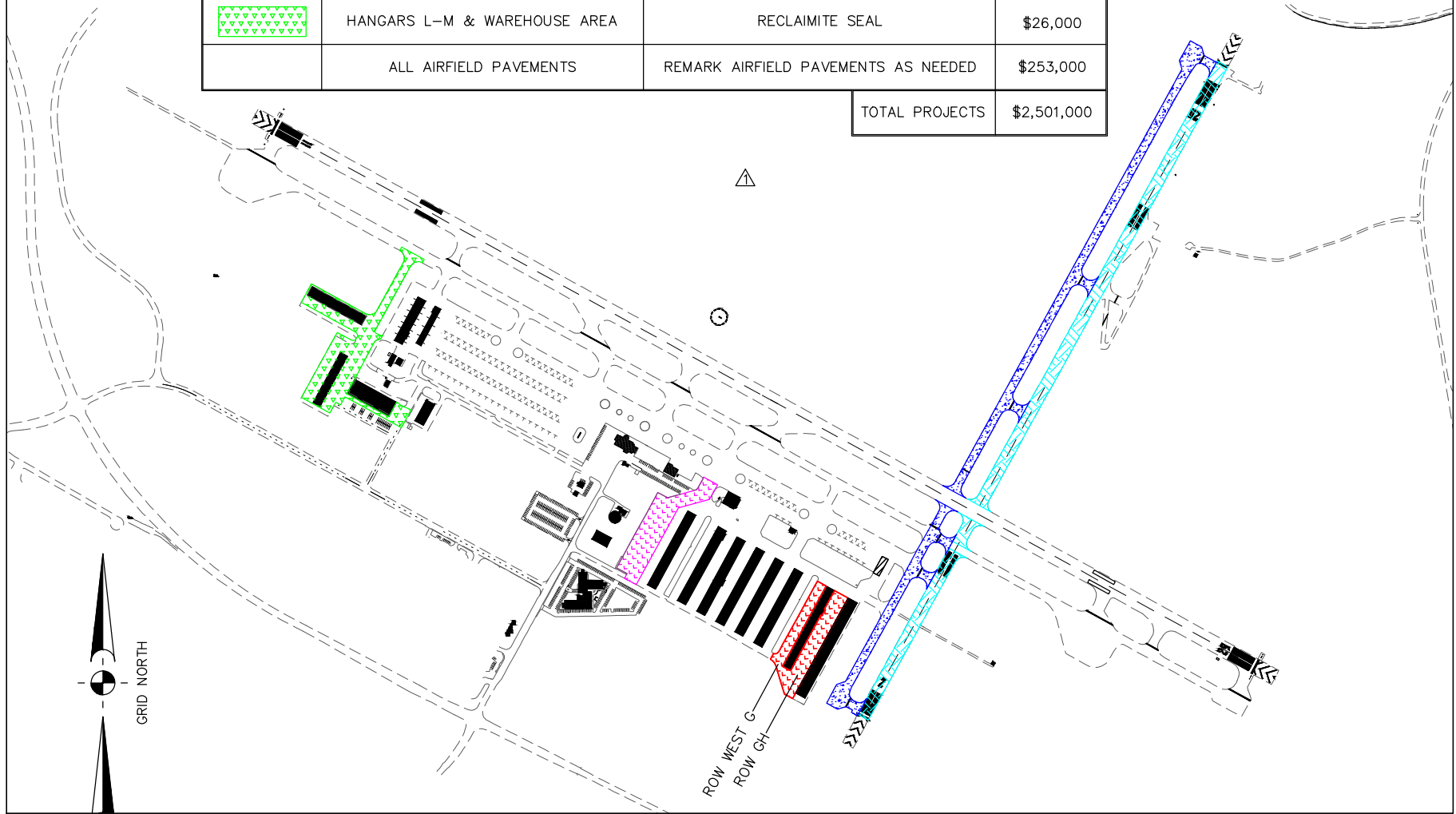
TRUCKEE, CALIFORNIA  
**TRUCKEE TAHOE AIRPORT**  
**AIRPORT CAPITAL IMPROVEMENT PLAN**  
 ACIP SKETCH MAP 2015 - 2025

DESIGN BY: RWB  
 DRAWN BY: DB  
 CHKD BY: RWB  
 DATE: NOV. 21, 2014  
 CONTRACT NO. -  
 PROJECT NO: 40.  
 DWG FILE: 40ACIPSKMAP  
 DRAWING SCALE: 1"=300'

SHEET NUMBER  
 PLATE NO. 1

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HATCH	AREA	PROJECT	COST
	SOUTH JET APRON	REMOVE AC AND RECONSTRUCT	\$845,000
	HANGARS A-H – ROWS WEST G & GH	REMOVE AC AND RECONSTRUCT	\$867,000
	RUNWAY 2-20 (STA. 0+00 TO 46+00)	SAW & SEAL NEW JOINTS – SUPPLEMENTAL RECLAIMITE SEAL	\$270,000
	TAXIWAYS G, V, P, Q	SAW & SEAL NEW JOINTS – SUPPLEMENTAL RECLAIMITE SEAL	\$240,000
	HANGARS L-M & WAREHOUSE AREA	RECLAIMITE SEAL	\$26,000
	ALL AIRFIELD PAVEMENTS	REMARK AIRFIELD PAVEMENTS AS NEEDED	\$253,000
		TOTAL PROJECTS	\$2,501,000



2015 MAINTENANCE AND REHABILITATION SCHEDULE