

TRUCKEE TAHOE AIRPORT DISTRICT  
BOARD OF DIRECTORS AGENDA ITEM SUMMARY

Topic:	2014 Airport Capital Improvement Program and Update of Pavement Management Plan		
Purpose	Information: <b>X</b>	Guidance:	Decision: <b>X</b>
Recommendation	Authorize Staff to submit the attached 2014 Airport Capital Improvement Project (ACIP) list to the FAA.		
Last Action	Approval of 2013 ACIP		

Each year the District submits an updated five-year ACIP list to the FAA identifying proposed construction projects and/or equipment needs that are grant fundable; the 2014 ACIP is due no later than January 31<sup>st</sup>. The list does not include maintenance type projects (crack filling, surface sealing or pavement marking, for instance) as the FAA believes that kind of work should be funded by the Airport.

Reinard Brandley's office completed a Pavement Condition Index (PCI) survey this fall and is working on an update of the *Pavement Maintenance/Management Plan* (Plan) that will be considered by the Board at the February 2014, meeting. The result of the PCI survey is that a number of projects are proposed to be accelerated and/or have been added to the 2014 ACIP (attached table and graphical plan) since the 2013 list was prepared. Some of the significant pavement infrastructure timing changes/additions include:

- Reconstruction of GA Apron A-4 in 2014 vs. 2017
- Reconstruction of the South Jet Apron in 2015 vs. 2022
- Construction of supplemental joint control on Runway 02-20 and Taxiway G in 2015 vs. 2016
- Widening of Aprons A1 and A2, between Taxiways D and F, in 2015 to allow improved maneuverability in the ramp area (added)
- Reconstruction of the eastern 4,400 feet of Taxiway A and the adjoining taxiways in 2016 vs. 2018
- Construction of supplemental joint control on the eastern portion of Runway 11-29 in 2017 (added)
- Reconstruction of Taxilanes C and D in 2017 vs. 2015

Other ACIP fundable projects on the 2014 list include:

- FAA mandated GIS-based obstruction surveys of all runway ends and approaches (added)
- Replacement of the Alder Hill Beacon in 2017 (added)
- Replacement of snow removal equipment in 2014 (plow), 2016 (loader) and 2017 (blower). The equipment typically receives a lower funding priority from the FAA and thus is proposed in years when the magnitude of the paving work is lower.

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As inferred in the previous paragraphs, the recent PCI survey indicated that surface distresses have markedly increased (resulting in a lower PCI score) at some locations since the 2011 inventory and initial preparation of the Plan. The attached Plate 2-1 shows the relationship between the PCI score (0-100) and rating (failed to excellent) and the Fall 2013 score for all of the paved surfaces.

Areas with scores of less than 40 (poor condition) are proposed to be reconstructed in 2014, 2015 and 2016:

- Apron A4's score declined from ~40 to 23 and is proposed for reconstruction in 2014.
- The South Jet Apron went from 50 to 30 and is proposed for reconstruction in 2015
- Portions of the eastern-most 4,400 feet of Taxiway A (the route from the ramp to the east end of Runway 11-29) are rated in the upper 30's; reconstruction is planned in 2016.

Runway 02-20's fair score of 53 (north of 11-29) is primarily because of cracking and will be addressed in 2015; full reconstruction of the entire runway and adjacent Taxiway G is scheduled for 2022.

As a result of the Airport's pavement construction projects over the past three years, almost all of the ramp (A1, A1a, A2 and A3), all of Runway 11-29 and more than two-thirds of the hangar taxilanes are considered as good to excellent.

A Final Draft of the *Pavement Maintenance/Management Plan* update (drawings, schedules, cost estimates) should be complete by the end of December. Staff anticipates bringing the document to the Board for discussion and consideration at the February 2014, meeting.

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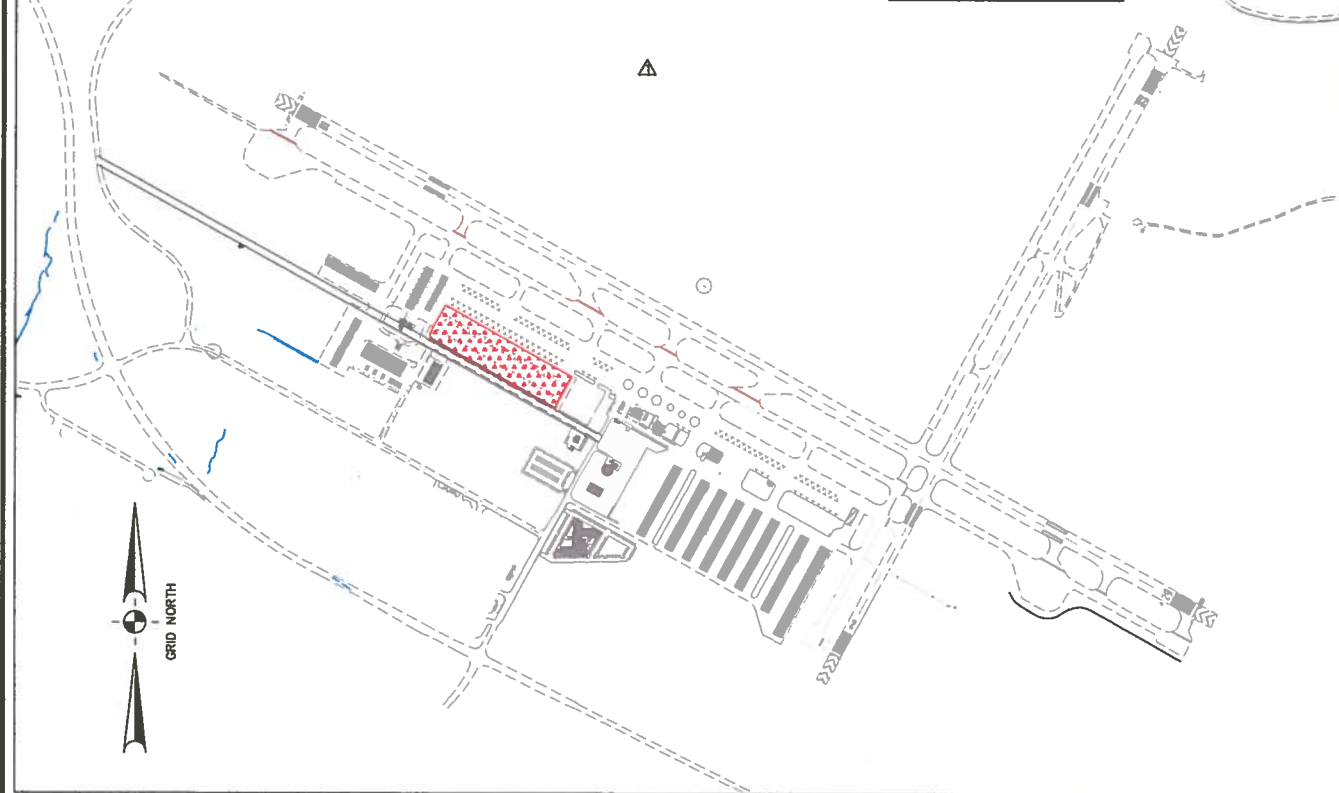
Fiscal Impact	The total value of the 2014 ACIP is preliminarily estimated at \$8,864,000 including the District's required 10% match. The budgets for the added and existing projects will be verified prior to submittal to the FAA at the end of January.
Attachments	Preliminary 2014 Airport Capital Improvement Program List 2014-2018 Pavement Rehabilitation Schedule <i>Maintenance/Management Plan</i> Plate 2-1

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**TABLE NO. 1**  
**TRUCKEE TAHOE AIRPORT**  
**TRUCKEE TAHOE AIRPORT DISTRICT, TRUCKEE, CALIFORNIA**  
**AIRPORT CAPITAL IMPROVEMENT PROGRAM - 2014-2018 - PRELIMINARY**  
**SUMMARY OF PROJECT COSTS**  
**(Based on 2013 Unit Prices)**

Project/ Priority No.	Shown on ALP	Project Type	Construction Year	Description	Construction Cost	Engineering & Administration	Total Project Cost	F.A.A. Participation	Sponsor Participation
1	Yes	D	2014	AGIS Survey - All Runway Ends and Approaches	\$ -	\$ 130,000	\$ 130,000	\$ 117,000	\$ 13,000
2	Yes	D	2014	Purchase Snow Removal Equipment - Snowplow	420,000	10,000	430,000	387,000	43,000
<b>3</b>	<b>Yes</b>	<b>D</b>	<b>2014</b>	<b>Engineering Design - Projects No. 4 thru 8</b>	-	<b>244,000</b>	<b>244,000</b>	<b>219,600</b>	<b>24,400</b>
4	Yes	D	2014	Apron A4 - Reconstruct	1,600,000	320,000	1,920,000	1,728,000	192,000
<b>TOTAL FOR 2014</b>					<b>\$ 2,020,000</b>	<b>\$ 704,000</b>	<b>\$ 2,724,000</b>	<b>\$ 2,451,600</b>	<b>\$ 272,400</b>
5	Yes	D	2015	South Jet Apron - Reconstruct	\$ 550,000	\$ 110,000	\$ 660,000	\$ 594,000	\$ 66,000
6	Yes	D	2015	H1 - Taxilanes G & H - Reconstruct	500,000	81,000	581,000	522,900	58,100
7	Yes	D	2015	Runway 2-20 & Taxiway G - Saw & Seal Supplemental Joints	406,000	60,000	466,000	419,400	46,600
8	No	D	2015	Widen Apron A1 and A2	210,000	45,000	255,000	229,500	25,500
<b>9</b>	<b>Yes</b>	<b>D</b>	<b>2015</b>	<b>Engineering Design - Projects No. 10 thru 12</b>	-	<b>168,000</b>	<b>168,000</b>	<b>151,200</b>	<b>16,800</b>
<b>TOTAL FOR 2015</b>					<b>\$ 1,666,000</b>	<b>\$ 464,000</b>	<b>\$ 2,130,000</b>	<b>\$ 1,917,000</b>	<b>\$ 213,000</b>
10	Yes	D	2016	Taxiways A (Sta. 28+00 to 72+00), E, F, H, U, & J - Reconstruct	\$ 1,970,000	\$ 395,000	\$ 2,365,000	\$ 2,128,500	\$ 236,500
11	Yes	D	2016	Runway 2-20 Blast Pads - Reconstruct	182,000	37,000	219,000	197,100	21,900
12	Yes	D	2016	Runway 11-29 East Blast Pad - Reconstruct	102,000	20,000	122,000	109,800	12,200
13	Yes	D	2016	Purchase Snow Removal Equipment - Loader	460,000	10,000	470,000	423,000	47,000
14	Yes	P	2016	Airport Land Use Compatibility Plan				State Funded	
<b>15</b>	<b>Yes</b>	<b>D</b>	<b>2016</b>	<b>Engineering Design - Project No. 16, 17, and 19</b>	-	<b>57,000</b>	<b>57,000</b>	<b>51,300</b>	<b>5,700</b>
<b>TOTAL FOR 2016</b>					<b>\$ 2,714,000</b>	<b>\$ 519,000</b>	<b>\$ 3,233,000</b>	<b>\$ 2,909,700</b>	<b>\$ 323,300</b>
16	Yes	D	2017	Runway 11-29 (East) - Saw & Seal Supplemental Joints	\$ 125,000	\$ 25,000	\$ 150,000	\$ 135,000	\$ 15,000
17	Yes	D	2017	H1 - Taxilanes C & D - Reconstruct	320,000	52,000	372,000	334,800	37,200
18	Yes	D	2017	Purchase Snow Removal Equipment - Oshkosh Blower	-	10,000	10,000	9,000	1,000
19	Yes	D	2017	Replacement of Alder Hill Beacon Tower	100,000	15,000	115,000	103,500	11,500
<b>TOTAL FOR 2017</b>					<b>\$ 545,000</b>	<b>\$ 102,000</b>	<b>\$ 647,000</b>	<b>\$ 582,300</b>	<b>\$ 64,700</b>
<b>20</b>	<b>Yes</b>	<b>D</b>	<b>2018</b>	<b>Engineering Design - Reconstruct Apron A3 and Taxilane R</b>	<b>\$ -</b>	<b>\$ 130,000</b>	<b>\$ 130,000</b>	<b>\$ 117,000</b>	<b>\$ 13,000</b>
<b>TOTAL FOR 2018</b>					<b>\$ -</b>	<b>\$ 130,000</b>	<b>\$ 130,000</b>	<b>\$ 117,000</b>	<b>\$ 13,000</b>
<b>TOTAL</b>					<b>\$ 6,945,000</b>	<b>\$ 1,919,000</b>	<b>\$ 8,864,000</b>	<b>\$ 7,977,600</b>	<b>\$ 886,400</b>

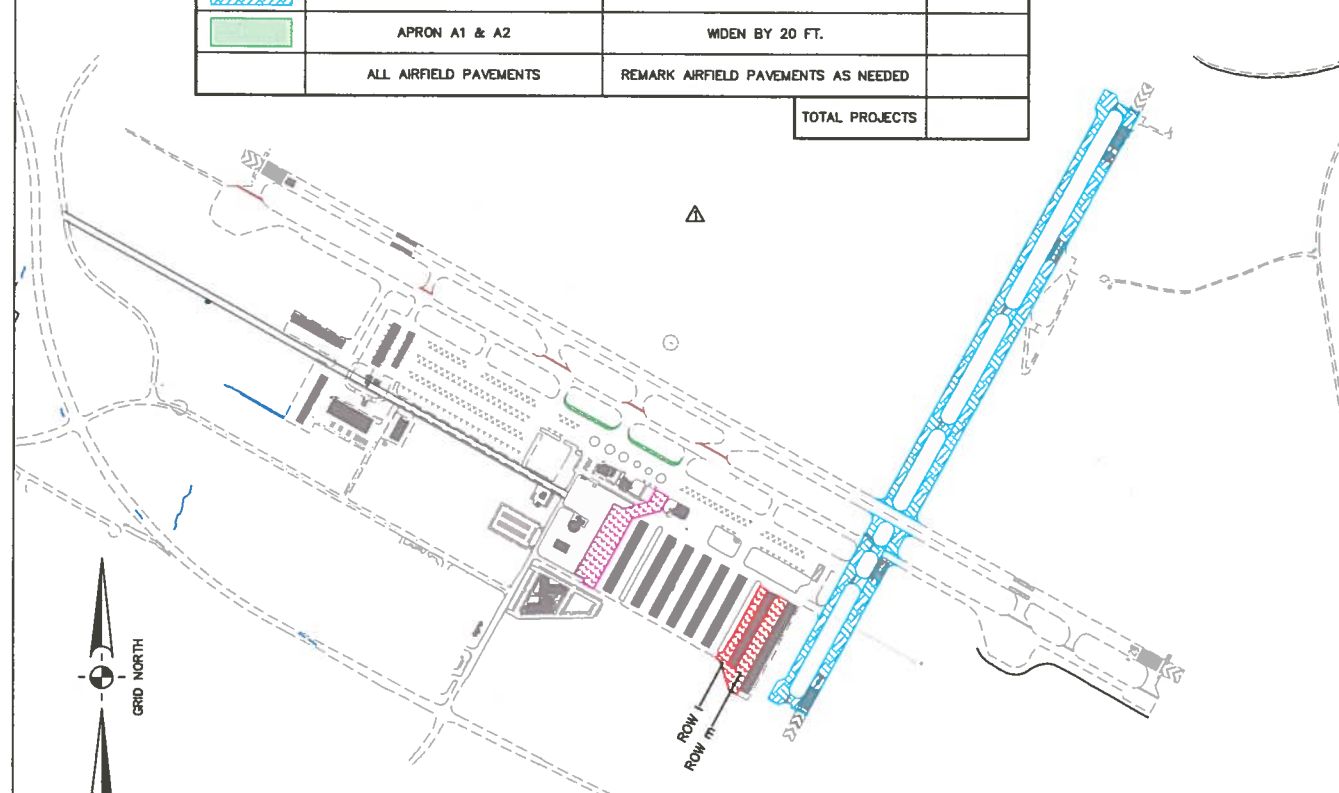
HATCH	AREA	PROJECT	COST
	APRON A4	RECONSTRUCT	
TOTAL PROJECTS			



2014 MAINTENANCE AND REHABILITATION SCHEDULE

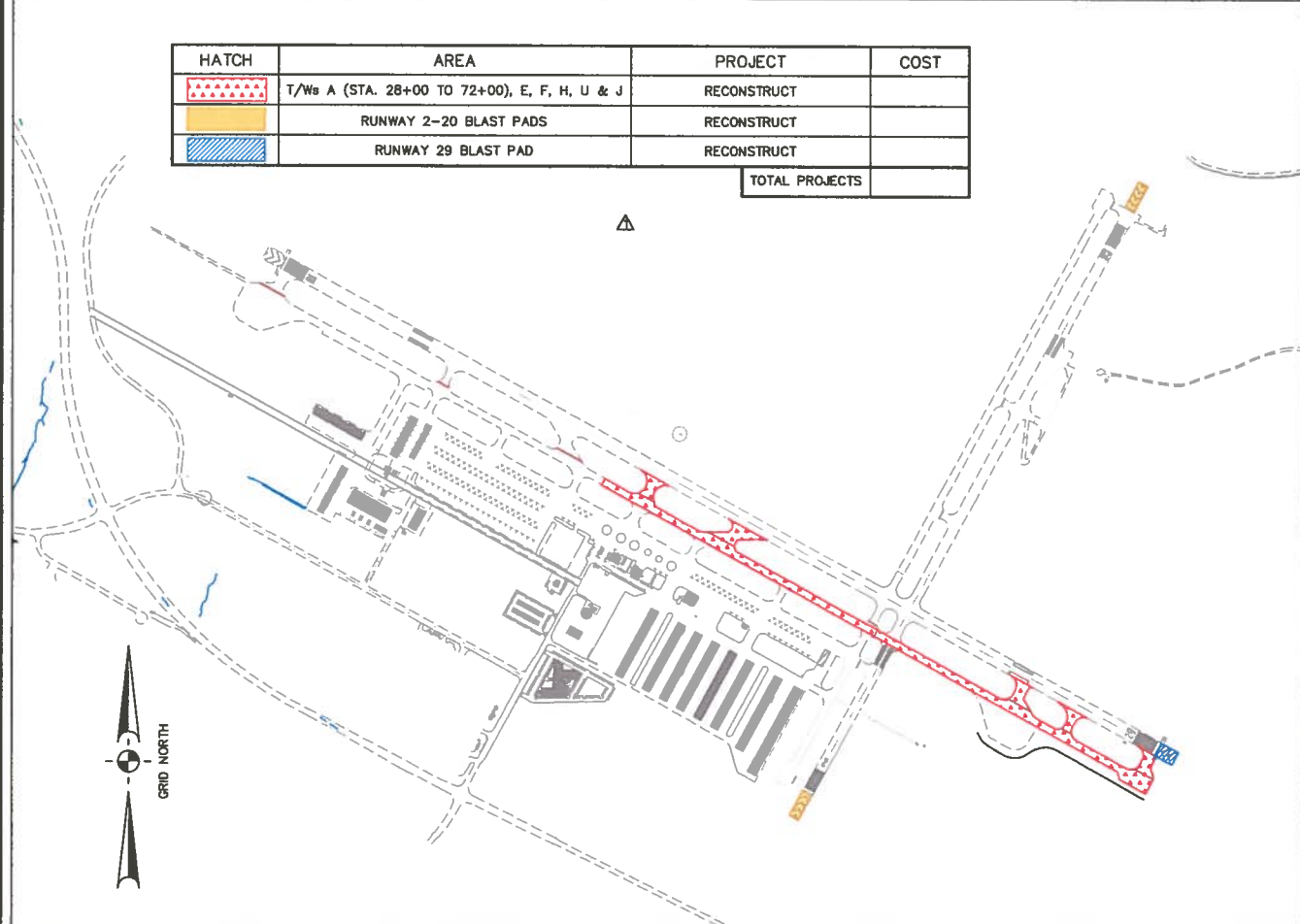
HATCH	AREA	PROJECT	COST
	SOUTH JET APRON	RECONSTRUCT	
	H1 - ROWS l, & m	RECONSTRUCT	
	RUNWAY 2-20 & TAXIWAY G	SAW & SEAL NEW JOINTS - SUPPLEMENTAL	
	APRON A1 & A2	WIDEN BY 20 FT.	
	ALL AIRFIELD PAVEMENTS	REMARK AIRFIELD PAVEMENTS AS NEEDED	
TOTAL PROJECTS			

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0" = 100' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



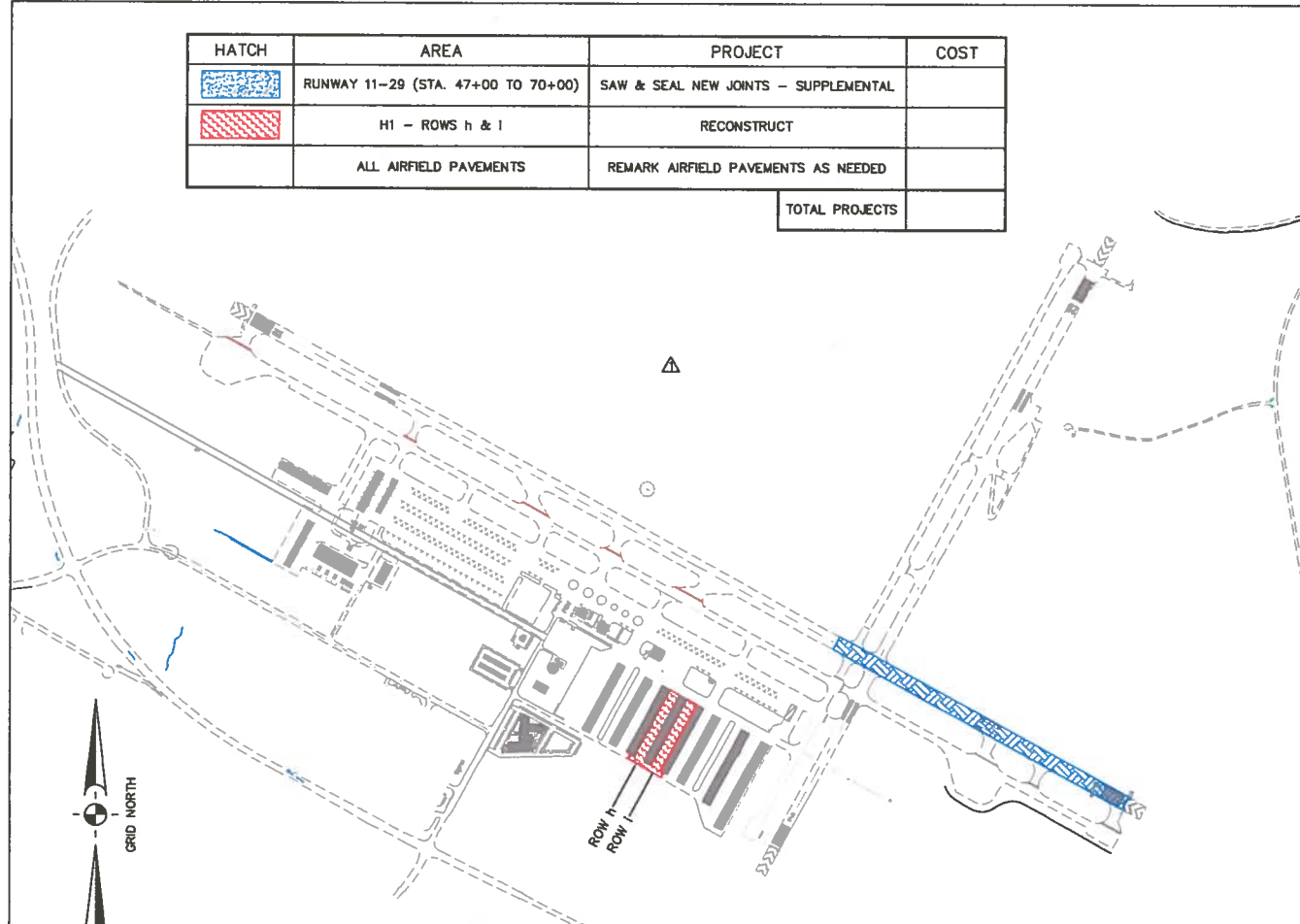
2015 MAINTENANCE AND REHABILITATION SCHEDULE

HATCH	AREA	PROJECT	COST
	T/Ws A (STA. 28+00 TO 72+00), E, F, H, U & J	RECONSTRUCT	
	RUNWAY 2-20 BLAST PADS	RECONSTRUCT	
	RUNWAY 29 BLAST PAD	RECONSTRUCT	
TOTAL PROJECTS			



2016 MAINTENANCE AND REHABILITATION SCHEDULE

HATCH	AREA	PROJECT	COST
	RUNWAY 11-29 (STA. 47+00 TO 70+00)	SAW & SEAL NEW JOINTS - SUPPLEMENTAL	
	H1 - ROWS h & i	RECONSTRUCT	
	ALL AIRFIELD PAVEMENTS	REMARK AIRFIELD PAVEMENTS AS NEEDED	
TOTAL PROJECTS			



2017 MAINTENANCE AND REHABILITATION SCHEDULE

6125 King Road, Suite 201 • Livermore, California 94550-8004 • (916) 452-4725

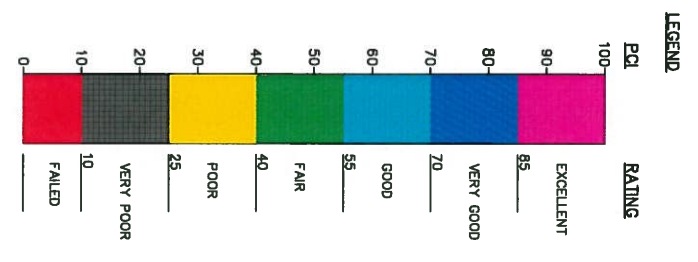
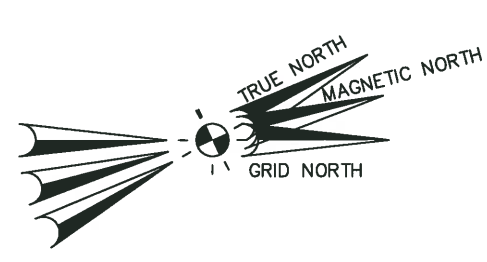
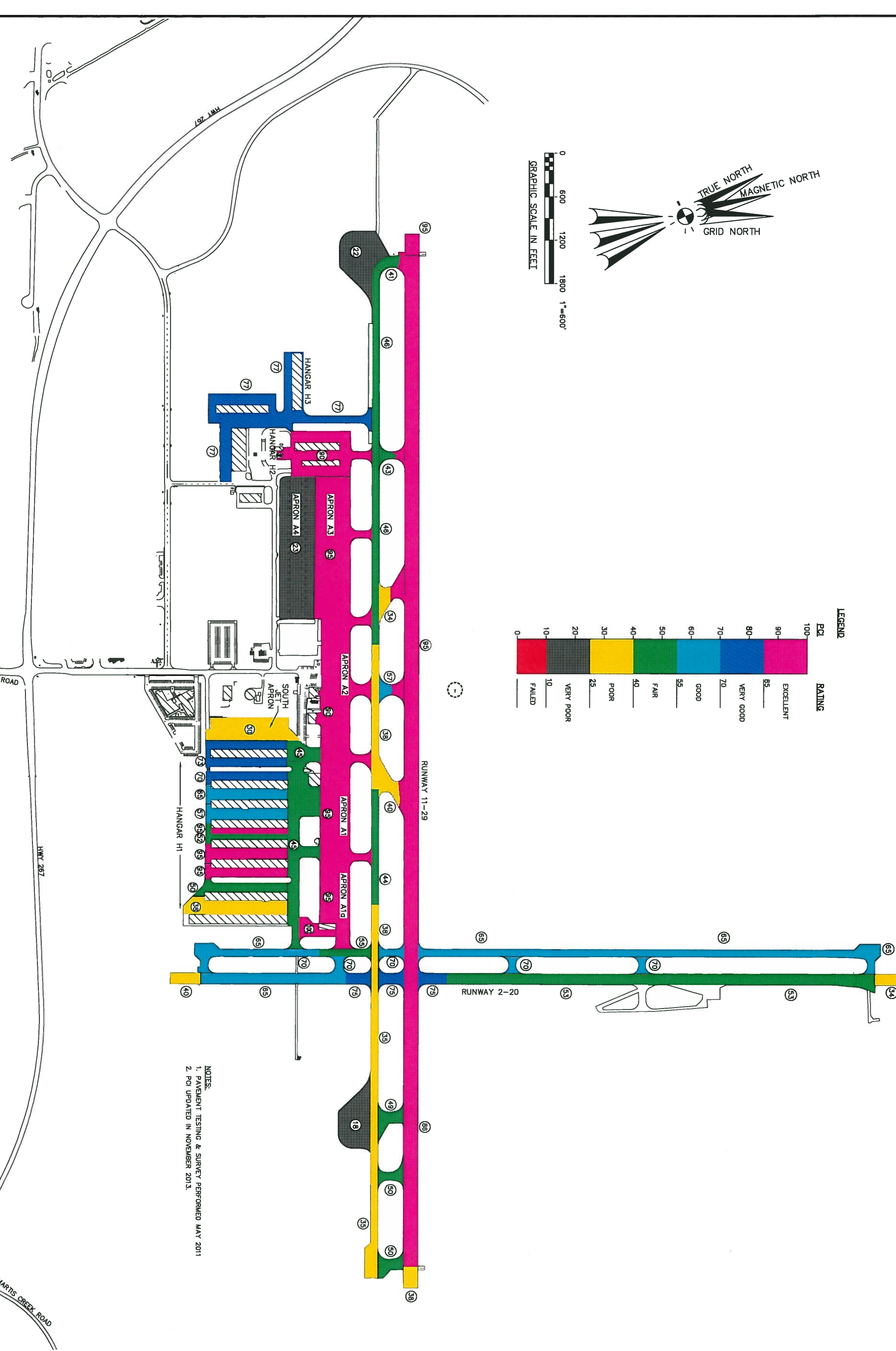
**Reinhard W. Brandley**  
CONSULTING AIRPORT ENGINEER

NO.	REVISIONS	BY	DATE
1	2013 PMMP UPDATE	RWB	11/13

**TRUCKEE TAHOE AIRPORT**  
CALIFORNIA

**PAVEMENT EVALUATION**  
REHABILITATION SCHEDULE 2014-2017

DESIGN BY: RWB
DRAWN BY: DMB
CHKD BY: RWB
DATE: NOV. 28, 2013
CONTRACT No. -
PROJECT NO. 40.
DWG FILE: MAINTENANCE SCHEDULE
DRAWING SCALE: 1"=600'
SHEET NUMBER
PLATE NO. ?-?



NOTES:  
 1. PAVEMENT TESTING & SURVEY PERFORMED MAY 2011  
 2. PCI UPDATED IN NOVEMBER 2013.



**TRUCKEE TAHOE AIRPORT**  
 CALIFORNIA  
**PAVEMENT EVALUATION**  
 SURFACE DISTRESS - PAVEMENT CONDITION INDEX (PCI)

NO.	REVISIONS	BY	APR	DATE
1	2013 PMMP UPDATE	RDB	RWB	11/13

ENGINEER OF RECORD  
  
 Ronald W. Bradley  
 CONSULTING AIRPORT ENGINEER

8125 King Road, Suite 201 • Loomis, California 95650-8004 • (916) 652-4725

DESIGN BY: DB  
 DRAWN BY: DB  
 CHECK BY: RMB  
 DATE: NOV. 14, 2013  
 CONTRACT NO.:  
 PROJECT NO.: 40-04-13  
 DWG FILE: PLATE 6  
 DRAWING SCALE: 1"=200'

SHEET NUMBER  
 PLATE NO. 2-1