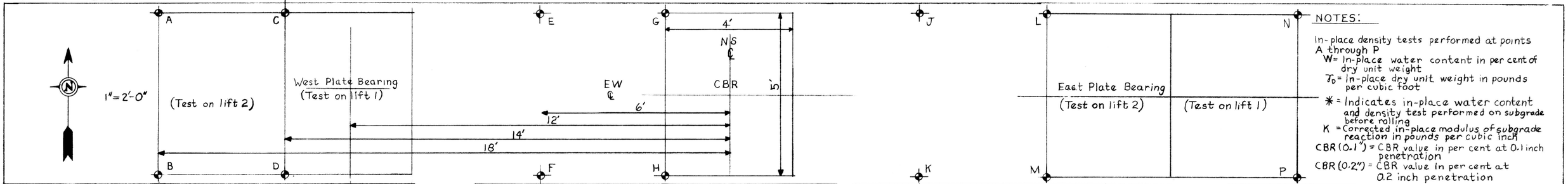

NOTES:

In-place density tests performed at points A through P

W = In-place water content in per cent of dry unit weight

γ_D = In-place dry unit weight in pounds per cubic foot

* = Indicates in-place water content and density test performed on subgrade before rolling

K = Corrected in-place modulus of subgrade reaction in pounds per cubic inch

CBR(0.1") = CBR value in per cent at 0.1 inch penetration

CBR(0.2") = CBR value in per cent at 0.2 inch penetration

LIFT NO.	DEPTH BELOW SURFACE	A W %	A γ_D (pcf)	B W	B γ_D	C W	C γ_D	D W	D γ_D	PLATE BEARING W	PLATE BEARING K	E W	E γ_D	F W	F γ_D	G W	G γ_D	H W	H γ_D	CBR % W	CBR(0.1")	CBR(0.2")	J W	J γ_D	K W	K γ_D	L W	L γ_D	M W	M γ_D	PLATE BEARING W	PLATE BEARING K(pci)	N W	N γ_D	P W	P γ_D
1	0"TO 7"					6.6	105.5	6.5	119.8	5.9	265	5.7	116.7	5.7	119.8	5.8	115.4	5.1	121.1	1" 6.8 10.0 9.9 5.9 20.0 19.2 3" 7.3 11.1 11.8 5.5 15.2 16.3 5" 6.6 19.6 19.2 6.8 20.9 20.2			6.4	111.1	5.6	117.3					7.6	215	6.1	117.9	6.1	119.8
2	7" 8" 9" 10" 11" 12" 13" 14" 15" 16" 17" 18"	7.4	120.4	9.0	121.1	6.8	126.0	6.4	126.0	7.0	400	6.8	122.3	6.0	120.4	5.9	114.8	5.8	120.4	5.4 34.9 26.2 5.5 30.0 22.9 5.7 17.0 20.0 6.2 24.8 23.6 5.7 20.0 22.8 5.8 21.4 23.1			6.1	122.9	6.6	122.9	6.7	124.8	6.5	124.8	8.0	465	6.9	123.6	6.2	120.4
3	19" 20" 21" 22" 23" 24" 25" 26" 27"					6.7	125.4	6.7	119.8			6.2	119.2	5.9	120.4	5.8	121.7	6.6	122.3	6.4 32.3 30.1 5.9 30.5 31.0 6.3 29.2 28.4			6.6	124.2	6.6	123.6							6.7	121.7	6.7	124.2
4	28" 29" 30" 31" 32" 33" 34" 35" 36" 37" 38"					6.6	122.3	6.6	117.9			6.7	125.4	6.5	119.8	6.6	112.9	6.5	121.1	6.3 34.8 31.0 6.6 35.2 29.4 7.7 30.0 26.3			6.1	122.9	6.6	123.6							6.8	122.9	6.7	124.8
SUBGRADE	38"TO 45"	3.4	* 100.5	3.6	104.2	5.7	106.1									6.8	114.8	7.0	122.3	6.7 32.5 30.4 4.1 34.0 30.7 7.4 40.5 34.2											6.9	112.3	5.1	112.9	2.7	* 104.8
	47"TO 54"	5.9	112.3	(4 Coverages subgrade only)									4.0	107.3		7.1	110.4	7.8	106.7											(4 coverages subgrade only)			6.0	107.3	

Unit No. 4 is a retest at 6 coverages

Lifts 3 and 4 spread by motor patrol to 12" thickness and compacted without scarifying.

Lifts 1 and 2 spread by bull-dozer to 12" thickness and scarified to 14" before compaction.

All subgrade tests not otherwise designated were performed after completion of fill.

Reproduced from report "Airfield Test Program" submitted by Skidmore, Owings, and Merrill, and Moran, Proctor, Mueser, and Rutledge Consulting Engineers, to the Air Force Academy Construction Agency

TYPICAL REPORT GIVING SUMMARY OF FIELD TESTS FOR TEST FILL NO. 3, UNIT 4 (SIX COVERAGES), AIRFIELD TEST PROGRAM UNITED STATES AIR FORCE ACADEMY SITE, COLORADO

229-401 O - 67 (In pocket)