

Project Seabrook
Project No. 7286

Boring No. E2-14

Ground Elevation (MSL) = + 29.9

Type of Feature

Feature Depth	Strike	Dip	Joint	Foliation	Slickensided Surface	Contact	Remarks
101.3	N75E	18NW	X				
103.8	N73E	46NW	X				
104.0	N77E	46NW	X				
105.0	N26E	38NW	X				
107.5	N50E	62SE	X				
108.0	N46E	63SE	X				
108.3	N21E	62SE	X				
109.8	N20W	61NE	X				
110.1	N45E	81SE	X				
110.4	N45E	81SE	X				
112.3	N22W	5SW	X				
112.4	N65E	38NW	X				
129.3	N40E	22NW		X			
129.5	N60E	33NW		X			
131.5	N55E	69SE	X				
131.9	N84W	75NE	X				
132.2	N50W	64NE	X				
133.5	N63E	72SE	X				
141.9	N71W	25NE	X				
142.5	N73W	20NE	X				
146.8	N63W	60NE	X				
148.9	N49E	62SE	X				
149.2	N75W	53NE	X				
150.0	N34E	70SE	X				
153.2	N61W	54NE	X				
154.6	N70W	39NE	X				
155.9	N65E	48NW					
158.0	N55E	29NE	X				
164.8	N25W	20SW		X			

Boring No. E2-15Project Seabrook
Project No. 7286Ground Elevation (MSL) = + 13.9

Type of Feature

Feature Depth	Strike	Dip	Joint	Foliation	Slickensided Surface	Contact	Remarks
17.0	N85W	80NE			X		
17.6	N85E	89NW		X			
18.6	N73W	70NE		X			
18.7	N45E	36NW	X				
19.4	N74W	35NE	X				
20.9	N69E	65NW			X		
21.7	N58E	49NW			X		
16.5	N82E	88NW			X		
24.9	Horizontal		X				
26.6	N75E	82NW		X			
27.6	N69E	83NW		X			
28.1	N77W	78NE			X		
30.0	N50W	78NE			X		
29.3	N63E	86SE			X		
31.0	N88E	82NW			X		
31.5	N86E	80NW			X		
32.0	N49W	73NE			X		
35.5	N80E	3SE		X			
37.5	N83E	39NW			X		
40.3	N50W	85NE			X		
41.5	N55W	86NE			X		
39.7	N60W	60NE			X		

Boring No. E2-16Project Seabrook
Project No. 7286Ground Elevation (MSL) = + 16.0

Feature Depth	Strike	Dip	Type of Feature				Remarks
			Joint	Foliation	Slickensided Surface	Contact	
17.3	N36E	28NW	X				
18.3	N10W	56SW	X				
20.0	N5W	85SW			X		
20.6	N20W	70SW	X				
23.0	N18W	58SW	X				
23.5	N25E	15NW	X				
23.9	N25W	50SW	X				
24.3	N25W	53SW	X				
25.3	N45W	64SW	X				
25.9	N5E	86SE	X				
29.9	N15W	64SW	X				
30.0	N15W	64SW	X				
32.0	N21W	68SW	X				
33.9	N10W	68SW	X				
34.3	N8W	47SW	X				
35.0	N46W	30NE		X			
41.2	N11W	83SW	X				
41.7	N10W	55SW	X				
43.7	N57E	38NW	X				
44.5	N50E	30NW			X		
44.6	N52W	61NE			X		
45.1	N43E	69NW	X				
45.6	N19E	71NW	X				
46.1	N25E	89NW	X				
47.5	N44E	61NW			X		
48.0	N39W	67SW	X				
49.0	N70E	46NW	X				
50.0	N84W	68NE			X		
50.4	N42E	77NW	X				
52.4	N16E	84NW	X				
52.5	N16E	84NW	X				
53.0	Horizontal		X				
54.6	N15E	78SE			X		
56.9	N21E	69NW	X				
57.7	N27E	77NW	X				
58.2	N51E	47NW			X		
58.3	N86W	59NE			X		
58.13	N7E	62NW	X				
75.4	N31E	28NW	X				
77.4	N20E	73NW	X				
78.4	N43E	40NW	X				
79.7	N19E	37NW	X				
81.5	North	26W			X		
81.6	N26E	27NW			X		
82.3	N26E	38NW	X				
82.7	N15E	28NW	X				

Boring No. E2-16Project SeabrookProject No. 7286Ground Elevation (MSL) = + 16.8

Type of Feature

Feature Depth	Strike	Dip	Joint	Foliation	Slickensided Surface	Contact	Remarks
83.8	N15E	25NW	X				
86.8	N22E	34NW	X				
87.5	N5E	76SE	X				
88.0	N55W	32NE	X				
89.0	N12W	74SW			X		
96.5	N20E	33NW			X		Trend=N35W Plunge=27
100.8	N53E	68NW	X				
102.5	N12E	28SE		X			
104.9	N5W	60SW			X		Trend=N71W Plunge=54
106.2	N41W	85SW			X		Trend=S34W Plunge=87
107.0	N50E	5NW			X		Trend=N66W Plunge=19
107.5	N30W	11NE		X			
101.9	N25W	81SW			X		Trend=S16E Plunge=18
109.1	N21W	45SW	X				
109.3	N41E	25NW	X				
110.9	N5W	84SW			X		Trend=S20W Plunge=70
111.1	Horizontal		X				
112.1	N36E	50NW			X		Trend=N71W Plunge=45
112.3	N15E	15NW			X		Trend=S60E Plunge=16
113.0	N5E	85NW			X		Trend=S55W Plunge=70
115.3	N23E	32NW	X				
115.4	N15E	20NW	X				
115.9	N20E	30NW	X				
116.9	N26E	32NW	X				
118.9	N29E	72NW	X				
121.3	N25E	35NW	X				
121.11	N70E	17SE			X		
121.8	N70W	74NE		X			
122.0	N30E	30NW	X				
123.1	N35E	22NW			X		Trend=N35W Plunge=22
124.3	N15W	81SW			X		
125.6	N30E	21NW	X				
126.7	N28W	84SW	X				
127.6	N61E	56SW			X		Trend=N60W Plunge=33
128.8	N48W	76 SW		X			
129.3	N35W	77SW			X		
130.1	N40W	24NE			X		
131.0	N15W	14NE		X			
131.2	N64W	51NE			X		
132.4	N23W	76 SW			X		
133.0	N5W	74SW			X		
133.0	N70E	30NW	X				
133.3	N40E	83SE	X				
133.5	N10W	11NE			X		
134.0	N35E	35NW			X		
134.3	N45W	45NE	X				

Boring No. E2-16

Project Seabrook
Project No. 7286

Ground Elevation (MSL) = + 16.8

Type of Feature

Feature Depth	Strike	Dip	Joint	Foliation	Slickensided Surface	Contact	Remarks
140.5	N21E	30NW			X		
142.2	N53E	45NW			X		Trend=N35E Plunge=10
142.3	N41E	10NW			X		
143.1	N50E	65NW			X		
143.2	N71E	69NW			X		Trend=N40E Plunge=33
143.9	N81E	55NW			X		Trend=N35E Plunge=35
144.1	N72E	65NW			X		
144.1	N17E	54NW	X				
146.1	N59E	80NW			X		Trend= N5W Plunge=73
146.5	N37E	63NW			X		Trend=N20E Plunge=17
147.2	N40E	68NW			X		
147.5	N8W	48SW			X		
140.1	N59E	80NW			X		
148.2	N68E	62NW			X		
148.3	N82E	77NW			X		
149.5	N53E	65NW			X		
151.2	N27W	90SW			X		
151.8	Horizontal		X				
152.0	N81W	56NE			X		
154.0	N35E	29NW			X		
155.7	N59W	53NE			X		
162.0	N10W	72 SW			X		

Boring No. E2-17Project Seabrook
Project No. 7286Ground Elevation (MSL) = t 13.3

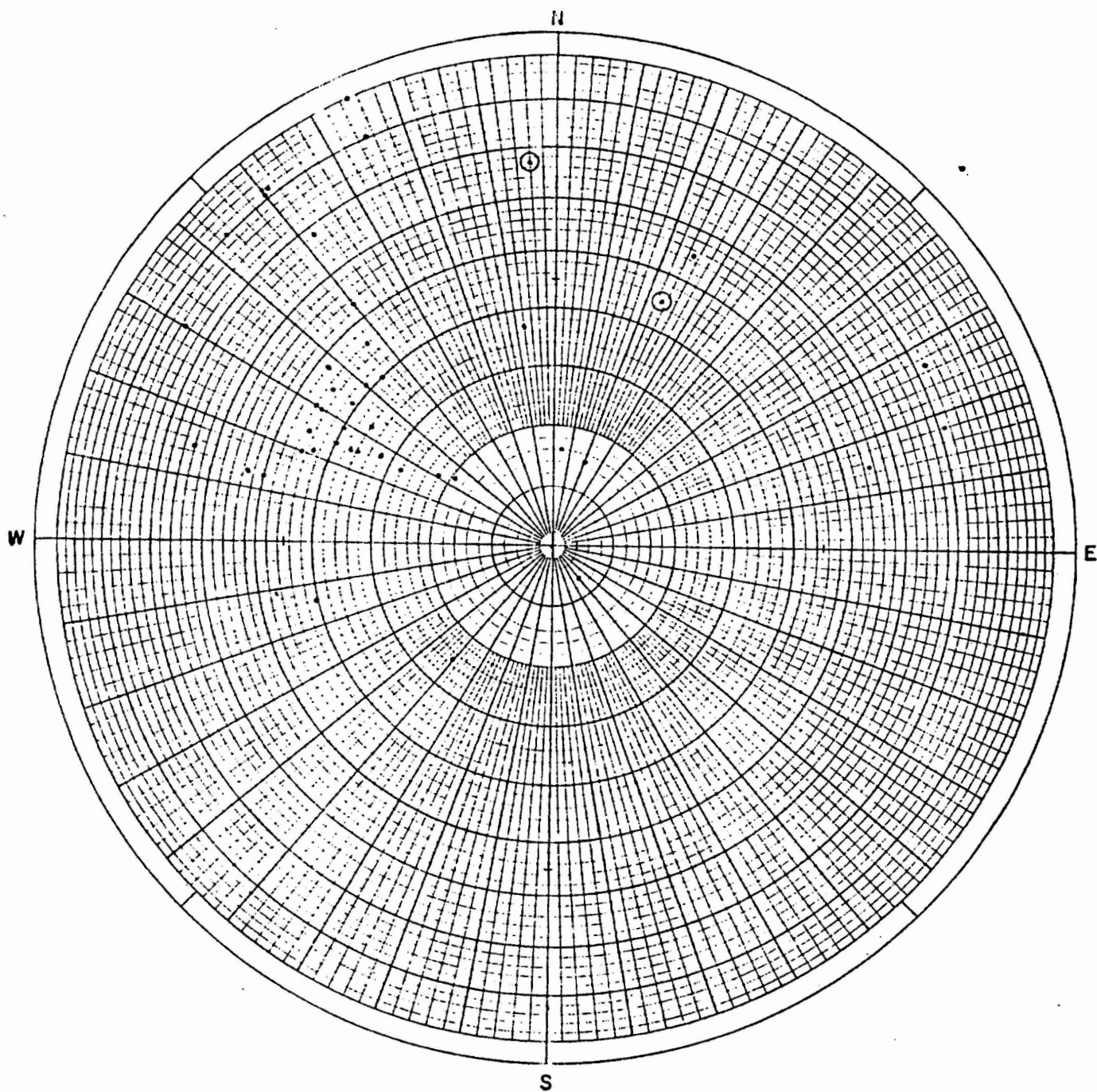
Feature Depth	Strike	Dip	Type of Feature				Remarks
			Joint	Foliation	Slickensided Surface	Contact	
28.0	N37E	34NW	X				
29.5	N55E	59sc	X				
33.3	N87W	87SW		X			
34.3	N47W	23NE			X		
35.9	N17W	77NE	X				
42.6	N50W	78NE			X		
43.4	N49E	23NE			X		
44.1	N61E	52NE	X				
45.0	N24W	10NE			X		
45.1	N49E	60NE			X		
45.3	N73E	84NE			X		
45.9	N51E	24NE	X				
54.7	N55W	80NE		X			
55.5	N78W	86NE			X		
56.0	N68E	80NE			X		
56.2	N76W	86NE			X		
56.3	N44E	64NE			X		
56.4	N44E	64NE			X		
60.5	N71W	89NE			X		

Boring No. E2-18Project SeabrookProject No. 7286Ground Elevation (MSL) = + 14.9

Feature Depth	Strike	Dip	Type of Feature				Remarks
			Joint	Foliation	Slickensided Surface	Contact	
22.8	N28W	50SW			X		
36.0	N53E	25SE	X				
42.0	N5E	73SE	X				
42.6	N42E	64SE	X				
43.1	N55E	25SE	X				
44.0	N8W	45SW	X				
46.6	N30W	72NE	X				
57.0	N45W	75SW			X		
47.5	N40W	81SW			X		
49.1	N87E	86SE			X		
50.2	N87E	73SE			X		
50.3	N60W	36SW	X				
51.3	N25E	81SE	X				
53.0	N48W	44SW			X		
54.0	N8W	34SW			X		
54.1	N76W	56SW	X				
54.2	N73W	73SW			X		
54.3	N21E	70SE			X		
56.0	N8W	69SW			X		
57.11	N 0 rt h	East	X				
61.7	N50W	87NE			X		
64.6	N63W	74NE			X		
66.6	N64E	80SW	X				
67.3	N5W	52SW			X		Trend=N79W Plunge=18
67.9	N55E	89SE	X				
68.0	N45E	85NW	X				
68.3	N45E	85NW	X				
68.5	N23E	45NW	X				
72.2	N55W	61NE	X				
73.6	N45E	62SE	X				
74.8	N14W	68NE	X				
75.0	N42E	71SE	X				
76.0	N20W	66NE			X		
123.8	N37W	44SW			X		
125.0	N4E	76SE	X				
126.0	N21W	63NE			X		Trend=S62E Plunge=52
176.1	N6E	64SE			X		
126.3	N17W	64NE			X		
128.0	N14W	67NE	X				
129.6	N70L	53NW	X				
131.1	N64L	1NW			X		
132.5	N15W	68NE	X				
135.6	N77W	50NE			X		
137.1	N54E	68SE			X		
137.4	N42W	62NE			X		
143.9	N32W	50NE			X		Trend=S25E Plunge=38

APPENDIX I I I

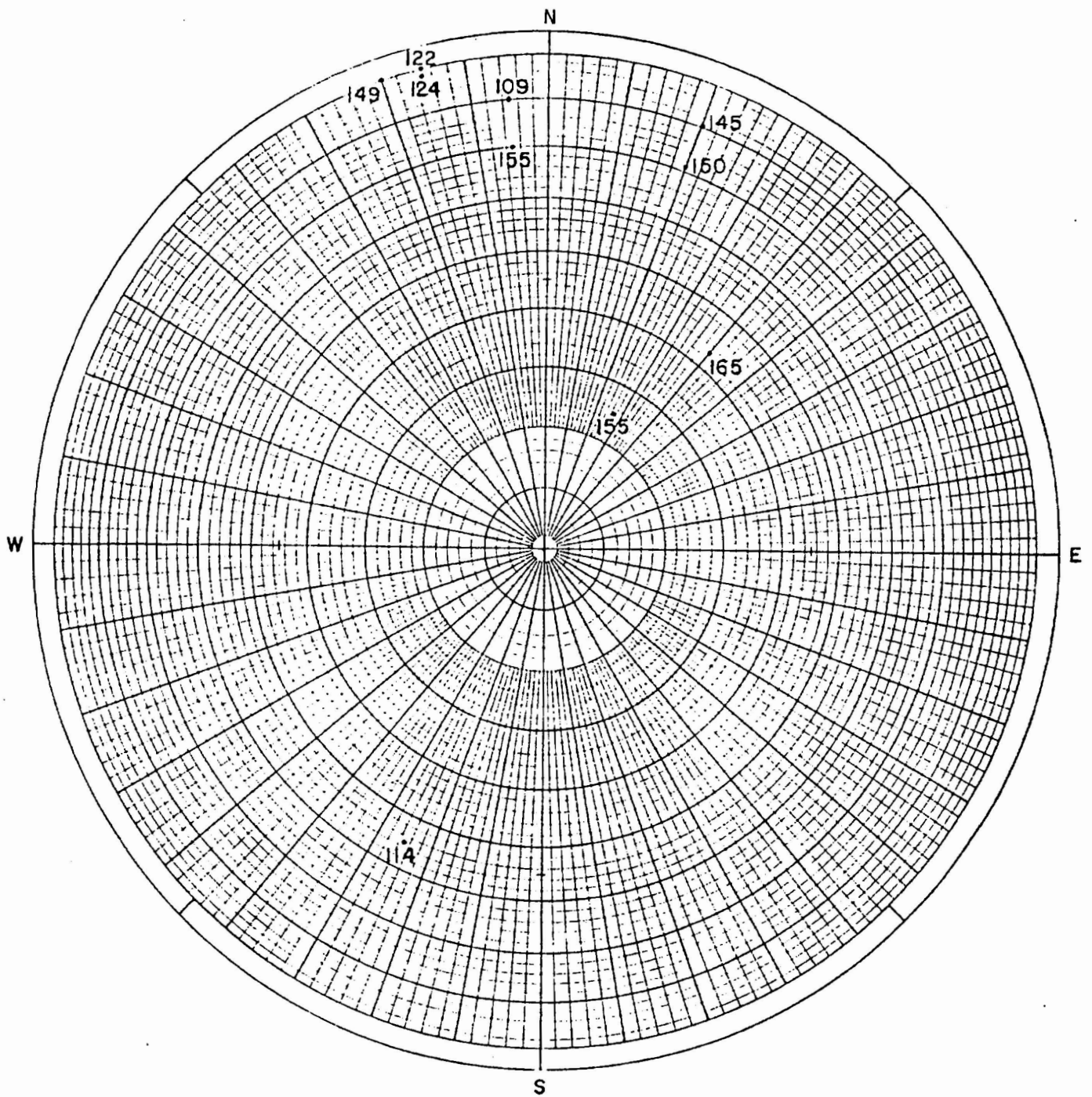
APPENDIX III
Polar Equal Area Stereo Net Projections



Polar Equal Area Stereo Net
 Geotechnical Engineers, Inc.
 Scabrook Station
 June 1974

Boring E2-11
 Ground Elevation (MSL) +25.5 ft
 Joints in:

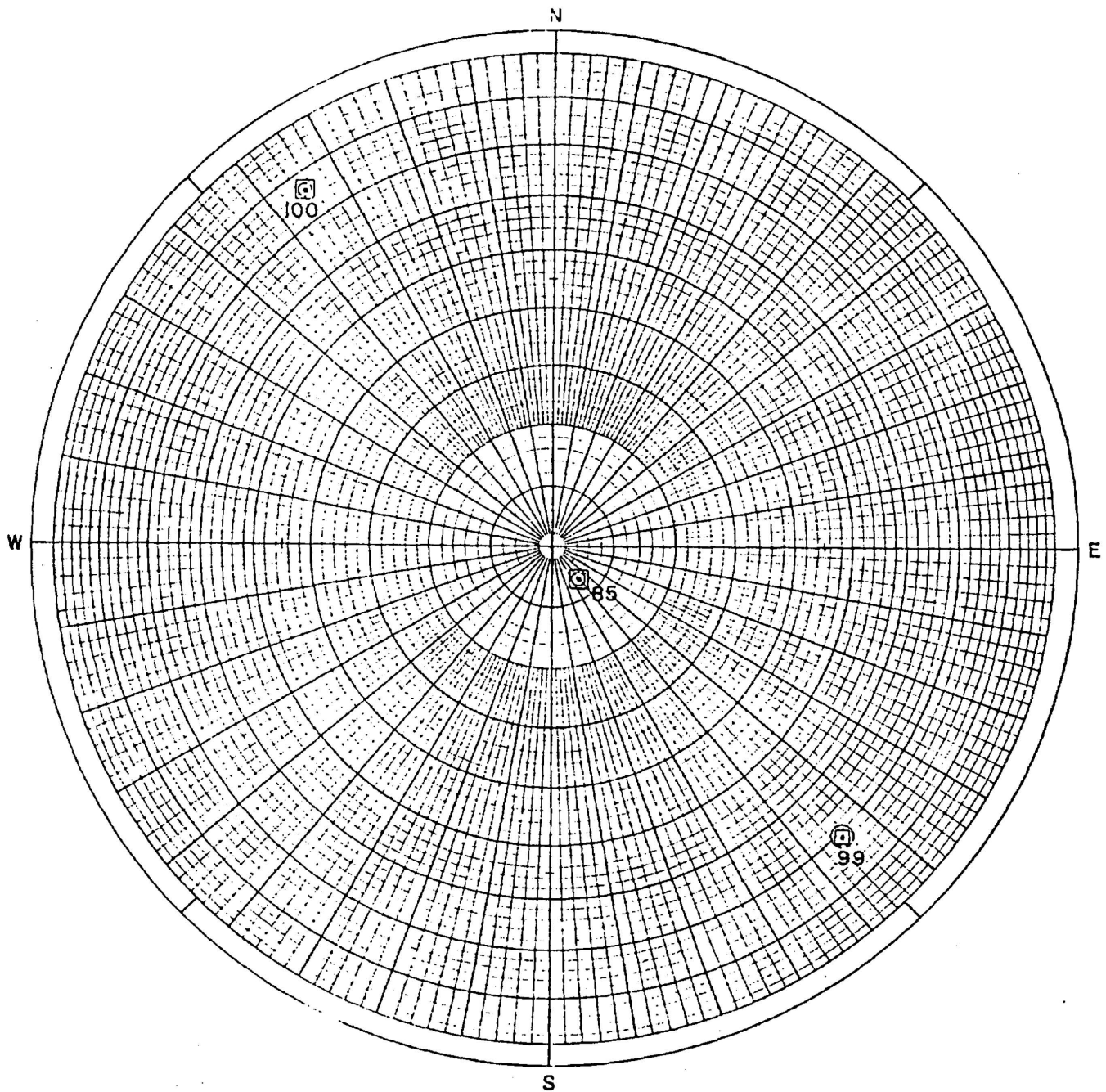
- Diorite
- ⊙ Diabase



Polar Equal Area Stereo Net
 Geotechnical Engineers, Inc.
 Seabrook Station
 June 1974

Boring E2-11
 Ground Elevation (MSL) +25.0 ft
 Foliation in:

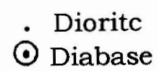
. Diorite

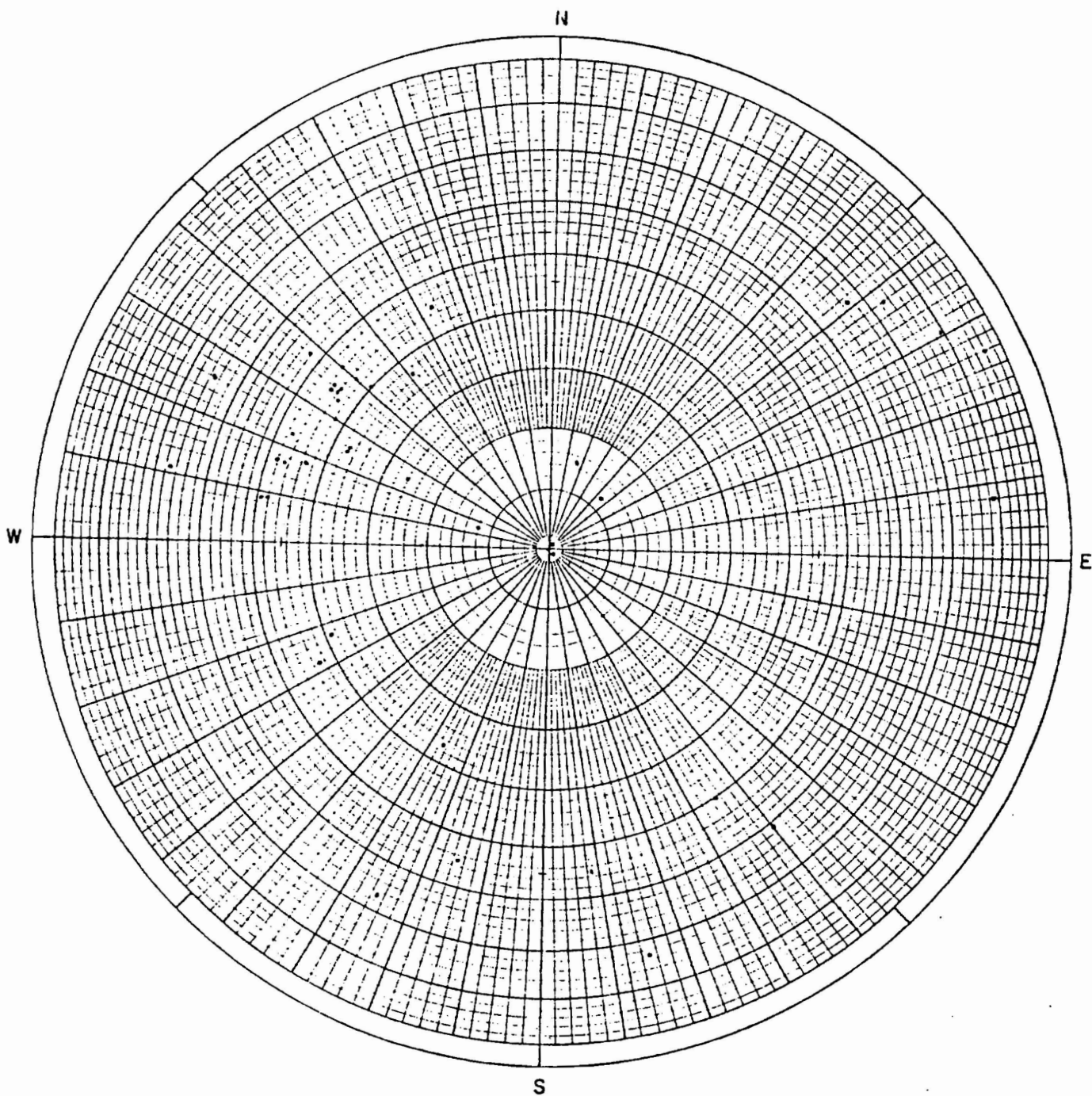


Polar Equal Area Sterco Net
 Geotechnica l Engineers, Inc.
 Seabrook Station
 June 1974

Boring E2-11
 Ground Elevation (MSL) +25.0 ft
 Contac ts and Depth :

- ⊠ Diorite over Diabase
- ⊡ Diabase over Diorite

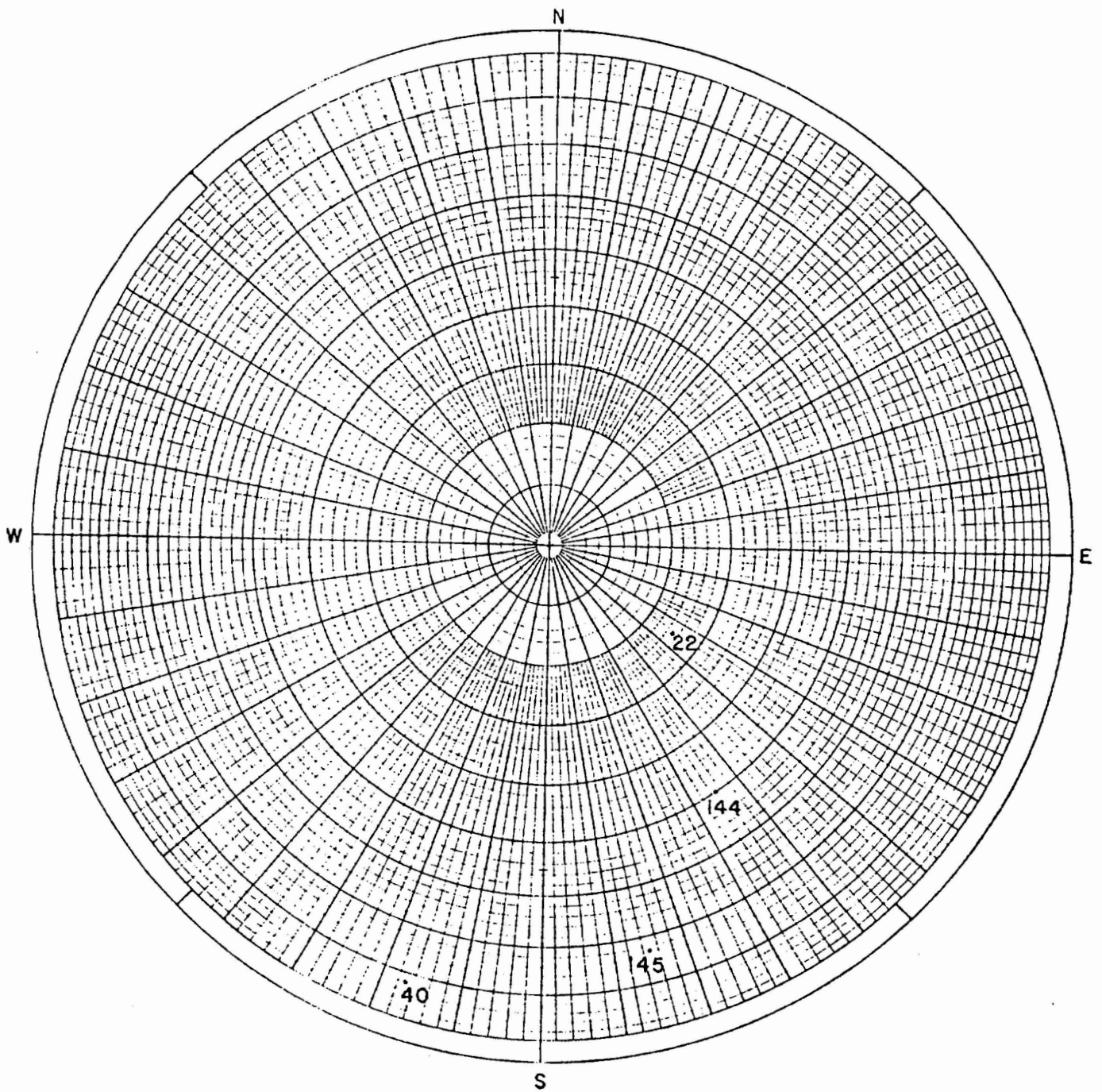




Polar Equal Area Stereo Net
Geotechnical Engineers, Inc.
Seabrook Station
June 1974

Boring F2-12
Ground Elevation (MSL) +21.5 ft
Joints in

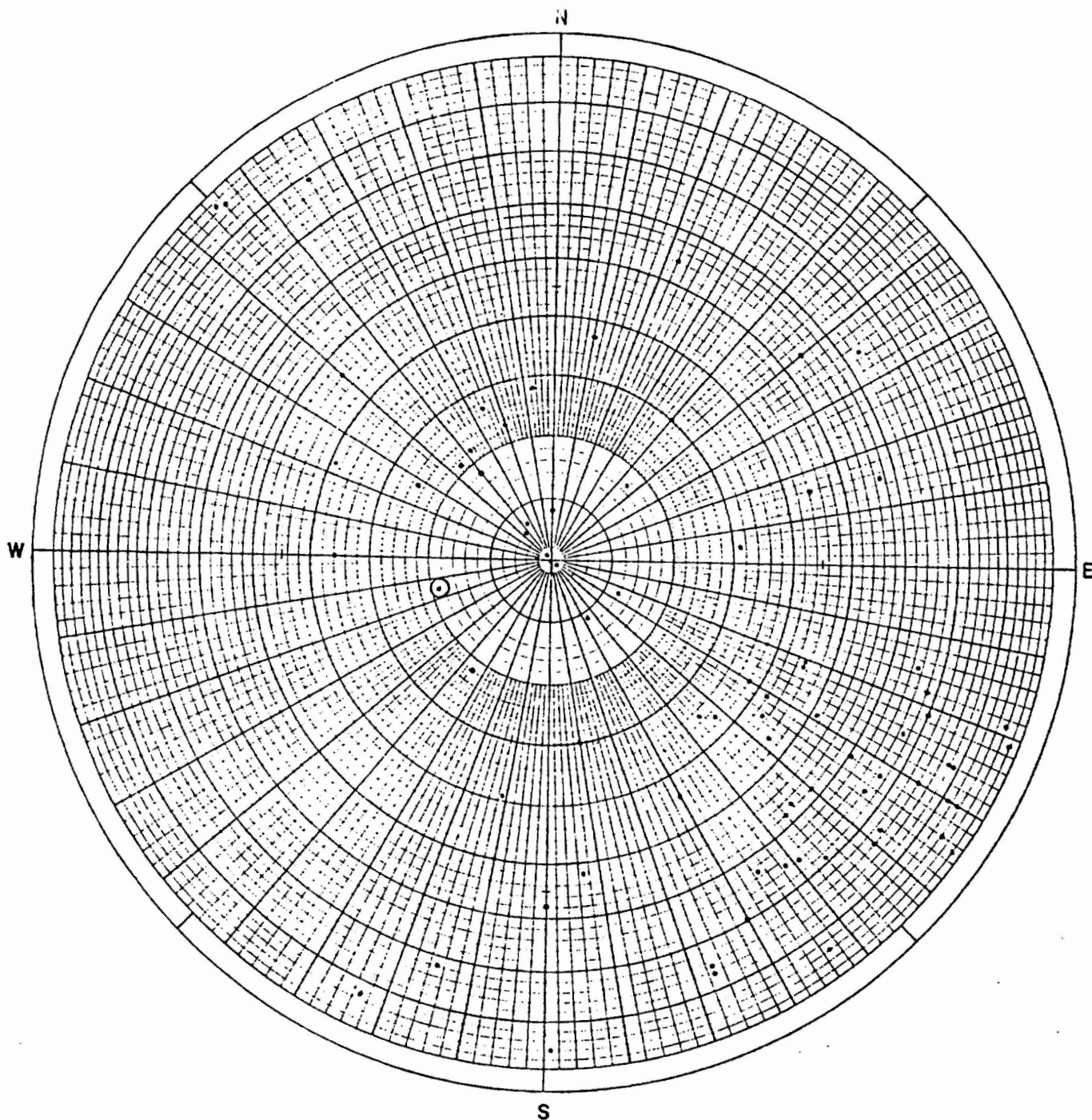
. Diorite



Polar Equal Area Stereo Net
Geotechnical Engineers, Inc.
Seabrook Station
June 1974

Boring E2-12
Ground Elevation (MSL) +21.5
Foliation and Depth in:

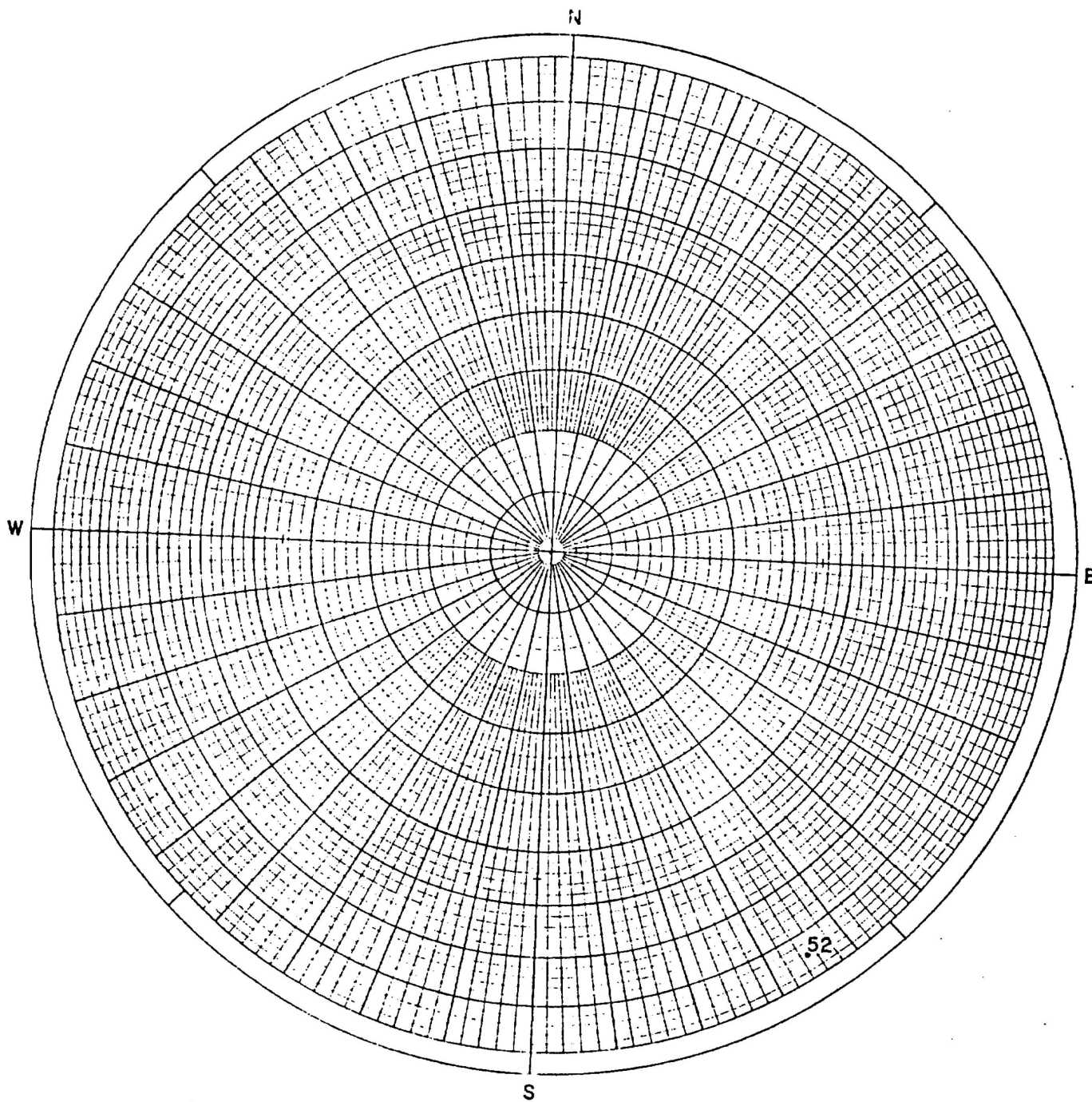
. Diorite



Polar Equal Area Stereo Net
Geotechnical Engineers, Inc.
Seabrook Station
June 1974

Boring E2-13
Ground Elevation (MS L) +30.5 ft
Joints in:

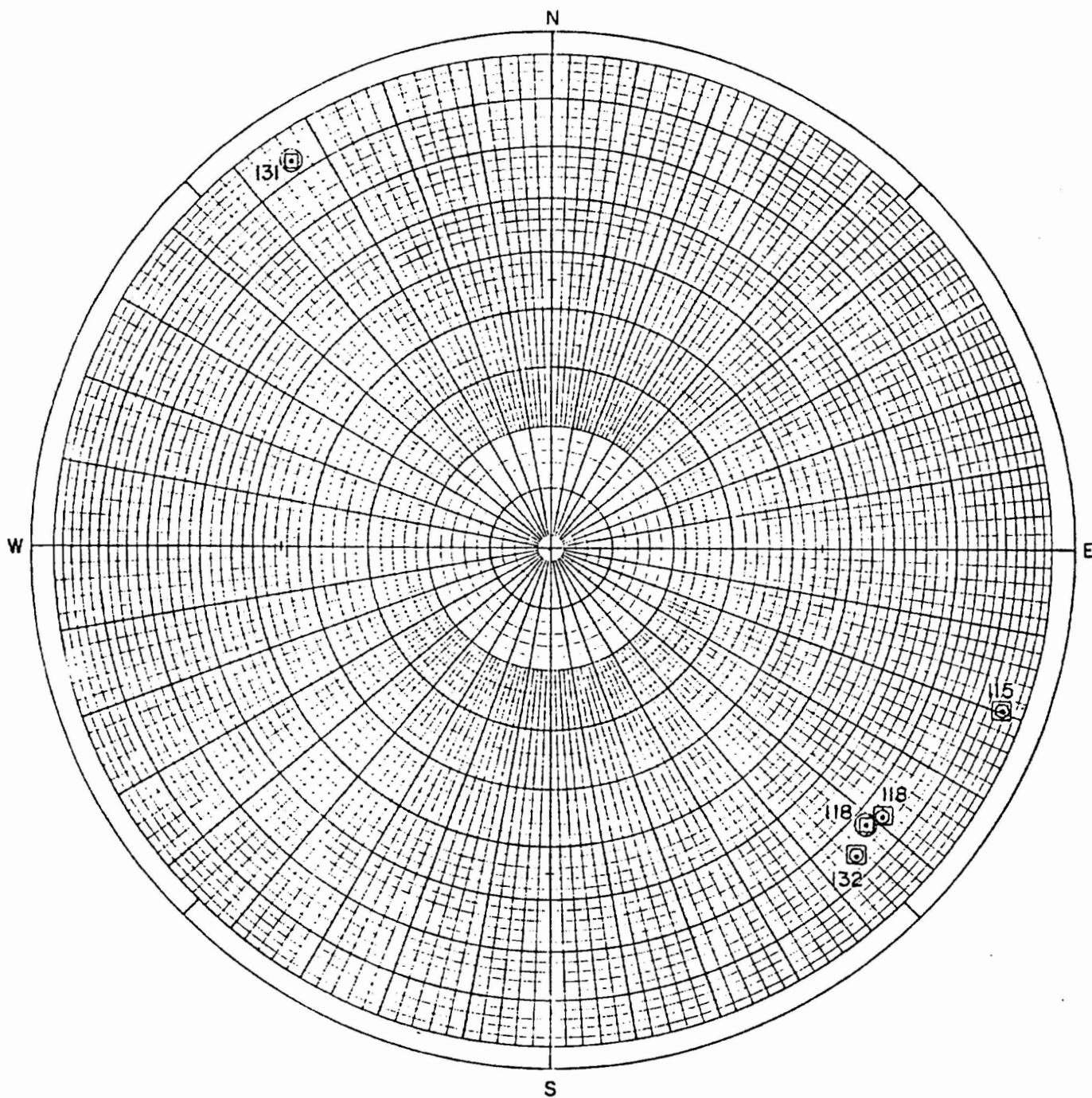
• Diorite
⊙ Diabase



Polar Equal Area Sterco Net
Geotechnical Engineers, Inc.
Seabrook Station
June 1974

Boring E2 -13
Ground Elevation (MSL) +30. 5 ft
Foliation and Depth in:

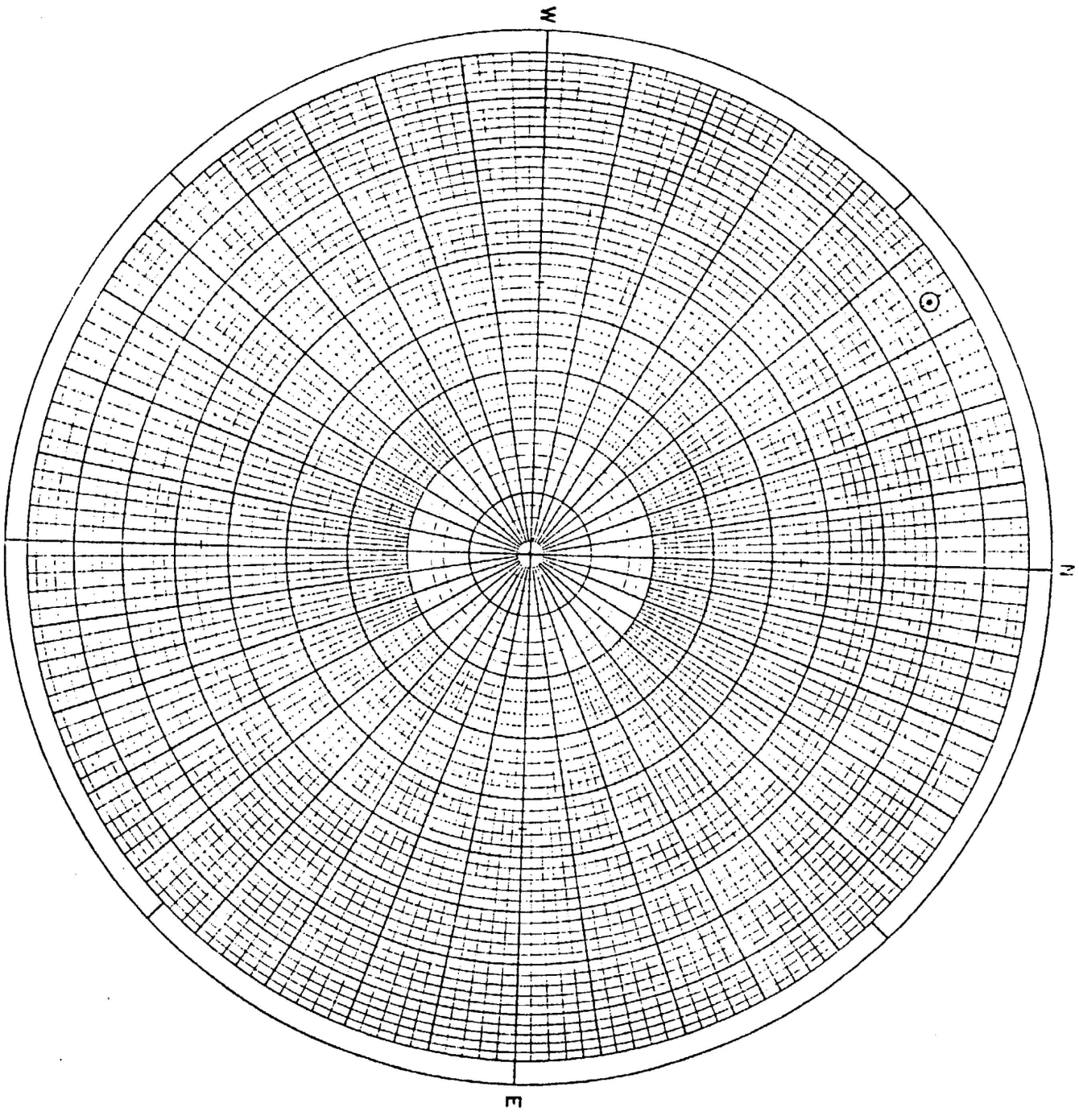
. Diorite



Polar Equal Area Stereo Net
 Geotechnical Engineers, Inc.
 Seabrook Station
 June 1974

Boring E2-13
 Ground Elevation (MSL) -130.5 ft
 Contacts and Depth:

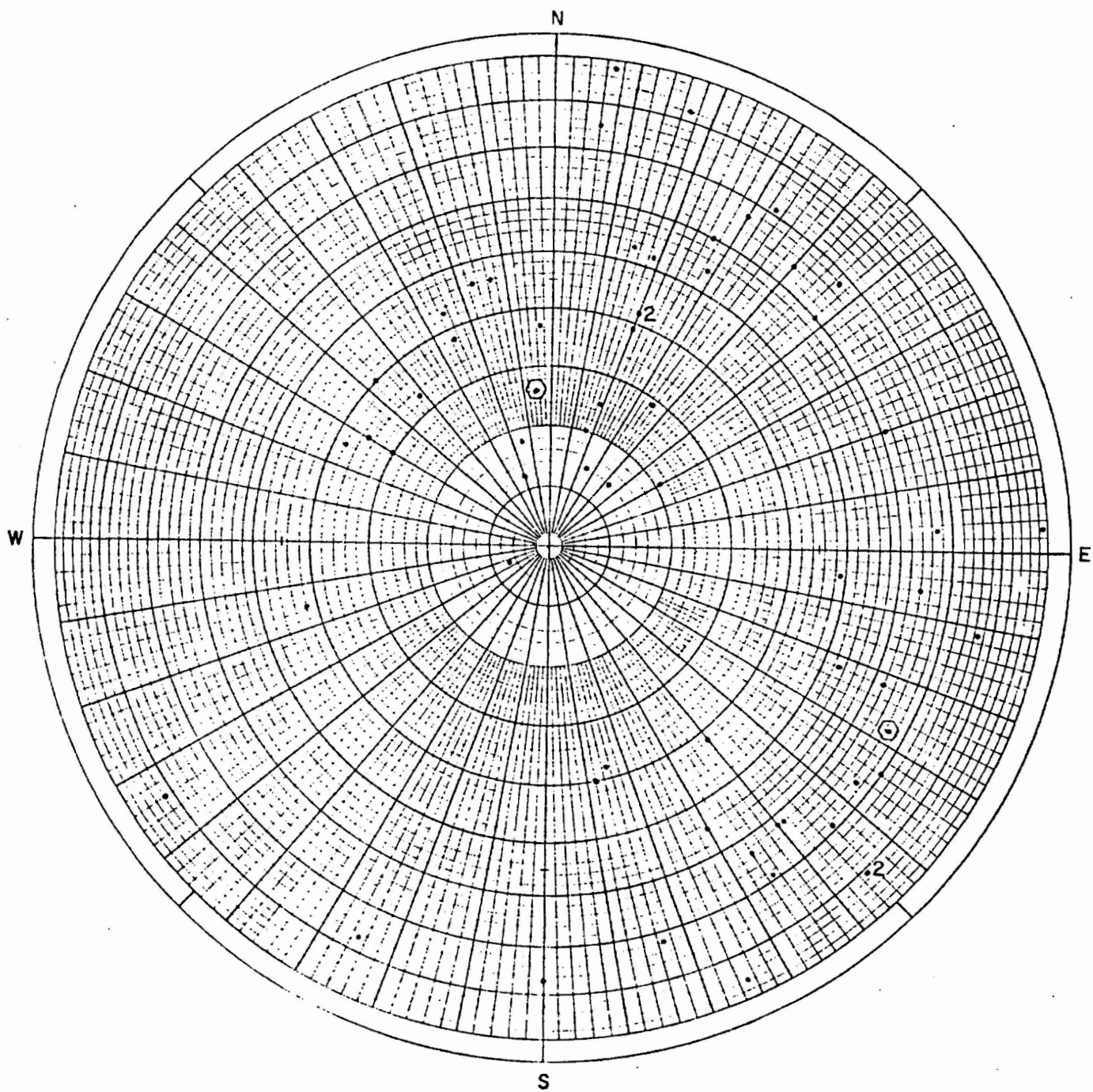
- ⊠ Diorite over Diabase
- ⊡ Diabase over Diorite



Polar Equal Area Stereo Net
Geotechnical Engineers, Inc.
Seabrook Station
June 1974

Boring E2-13
Ground Elevation (MSL) +30.5 ft
Slickensided Surfaces in:

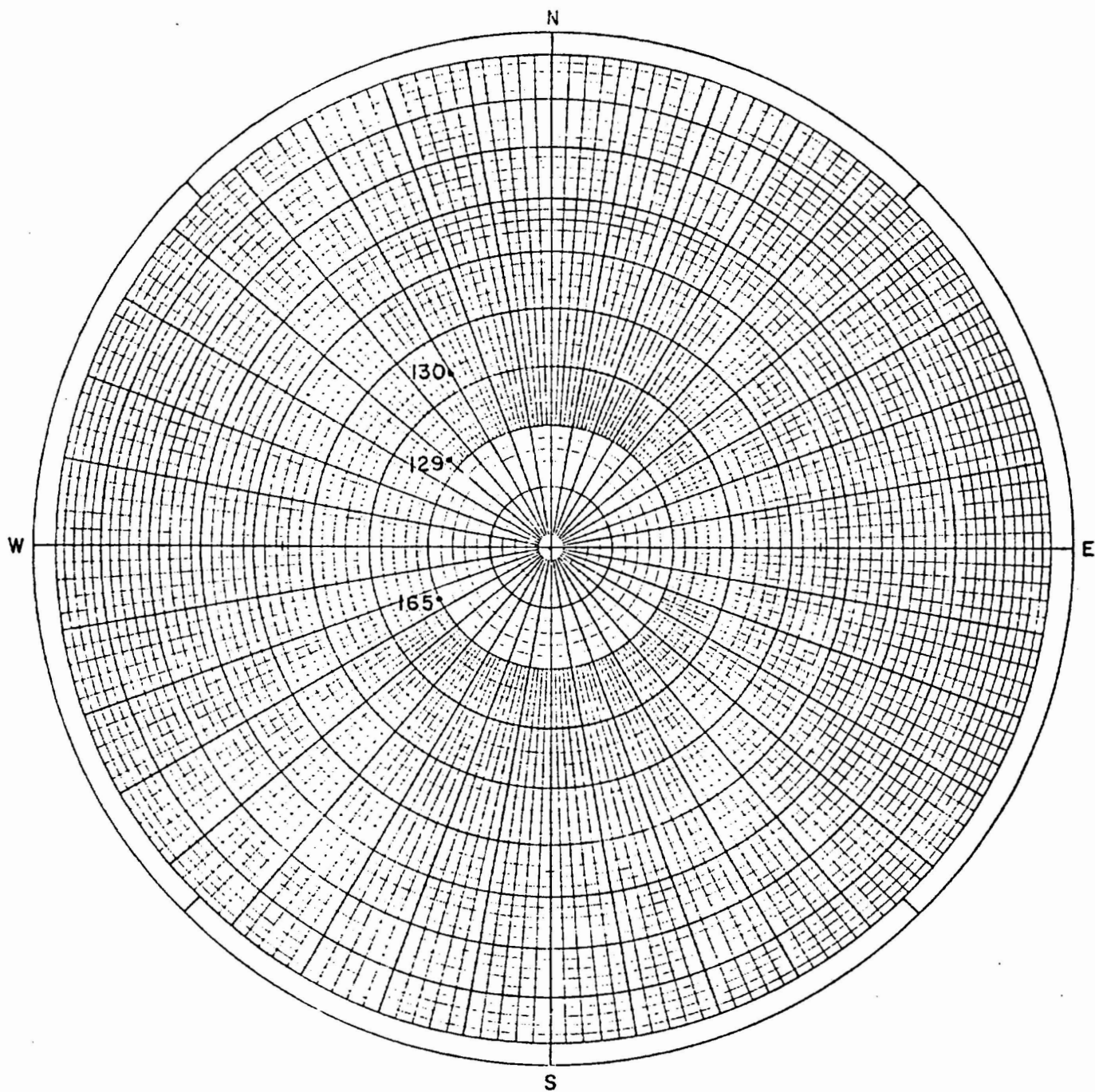
⊙ Diabase



Polar Equal Area Stereo Net
 Geotechnical Engineers, Inc.
 Scabrook Station
 June 1974

Boring E2-14
 Ground Elevation (MSL) +29.9 ft
 Joints in:

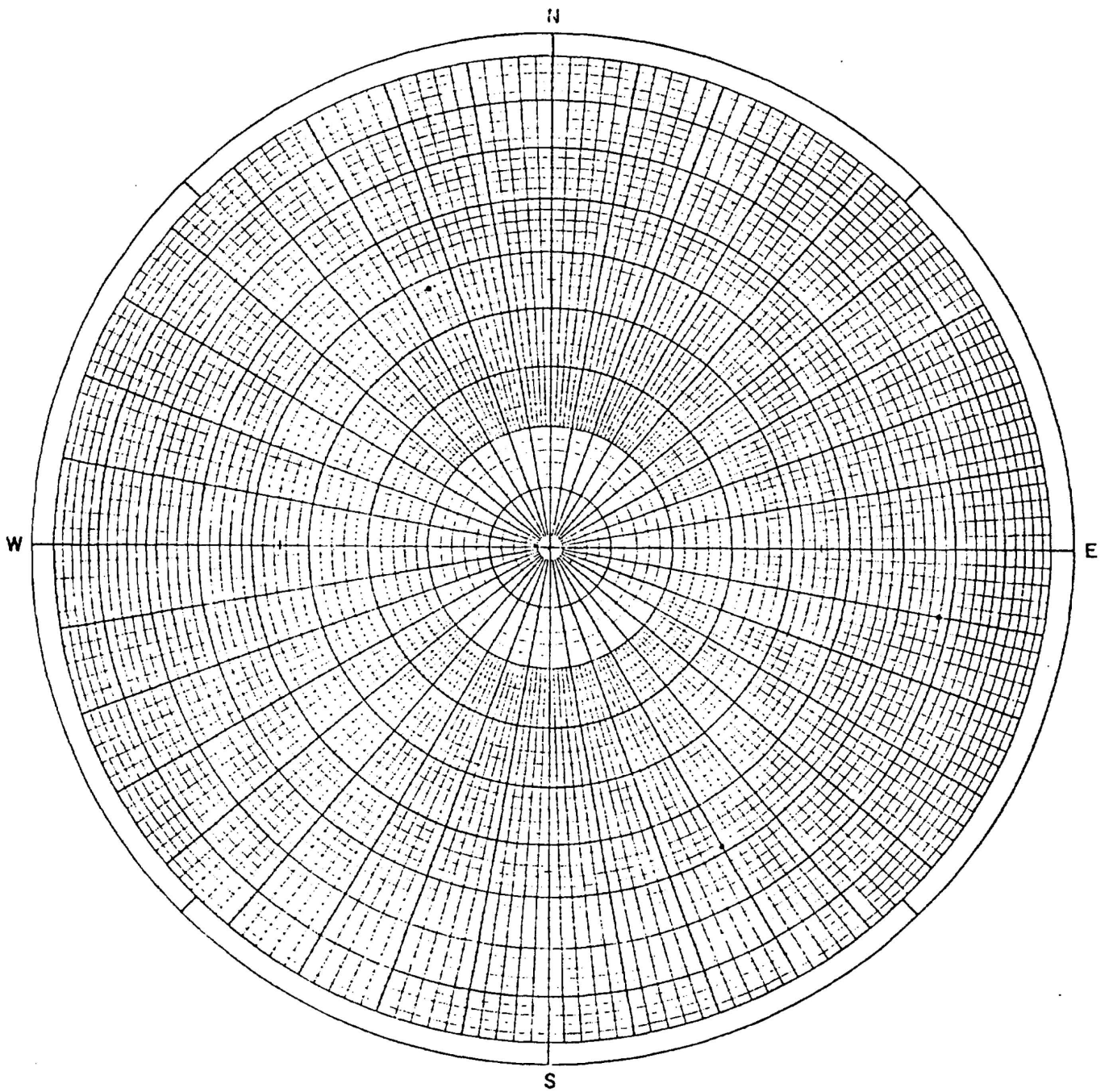
. Diorite
 ⊙ Pegmatite



Polar Equal Area Stereo Net
Geotechnical Engineers, Inc.
Scabrook Station
June 1974

Boring E2-14
Ground Elevation (MSL) + 29.9 ft
Foliation and Depth in:

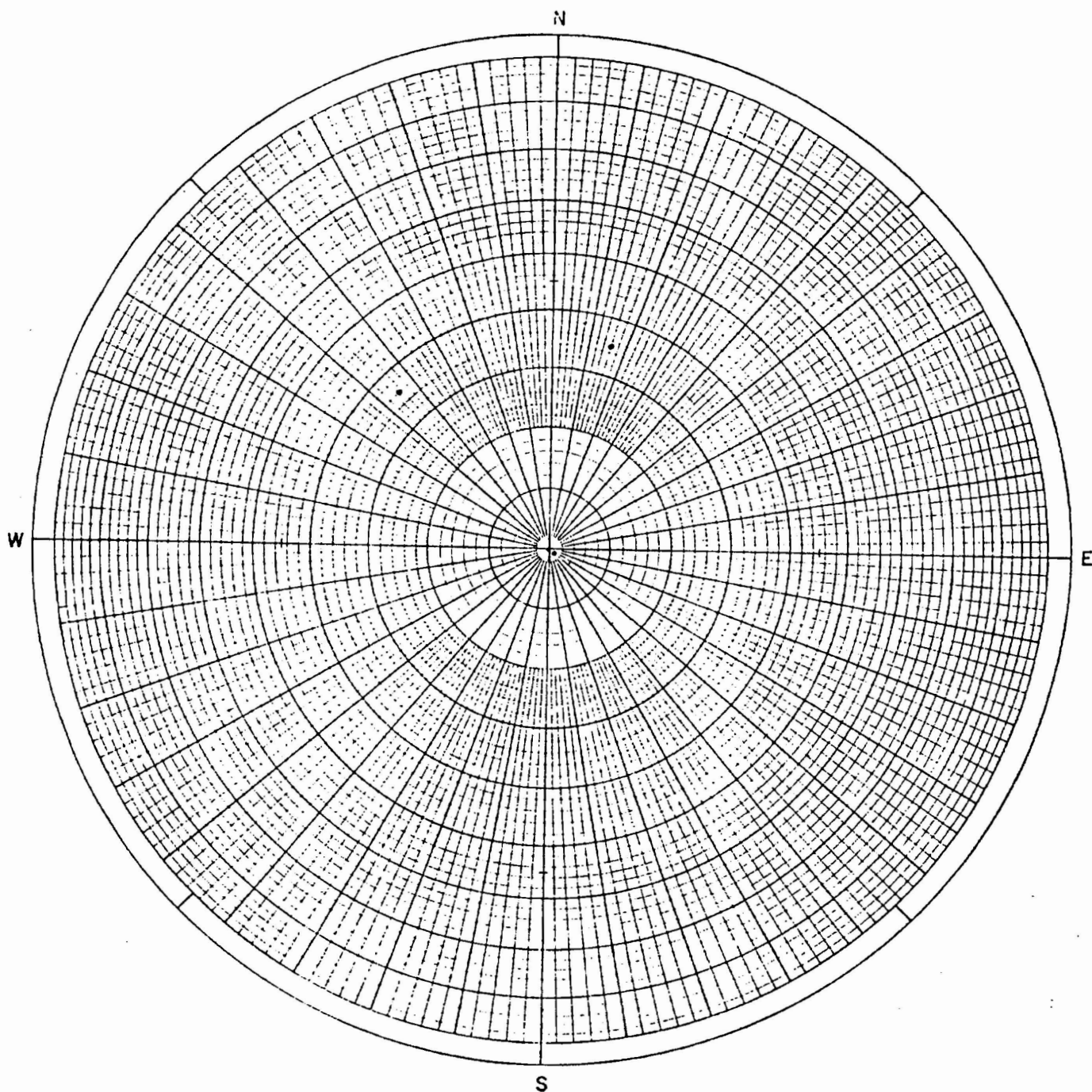
• Diorite



Polar Equal Area Stereo Net
Geotechnical Engineers, Inc.
Seabrook Station
June 1974

Boring E2-14
Ground Elevation (MSL) +29.9 ft
Slickensided Surfaces in:

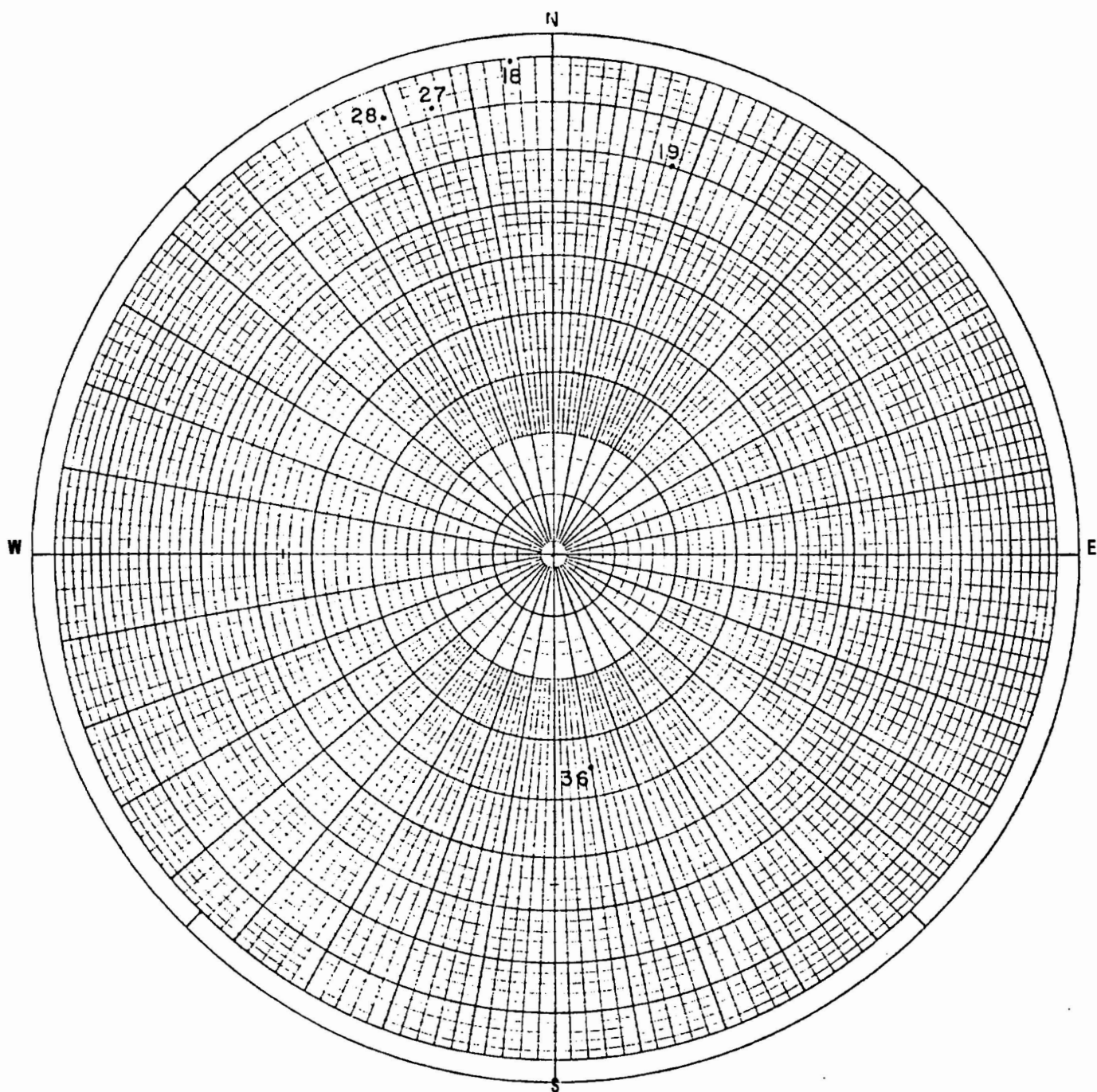
. Diorite



Polar Equal Area Stereonet
Geotechnical Engineers, Inc.
Seabrook Station
June 1974

Boring E2-15
Ground Elevation (MSL) + 13.9 ft
Joints in:

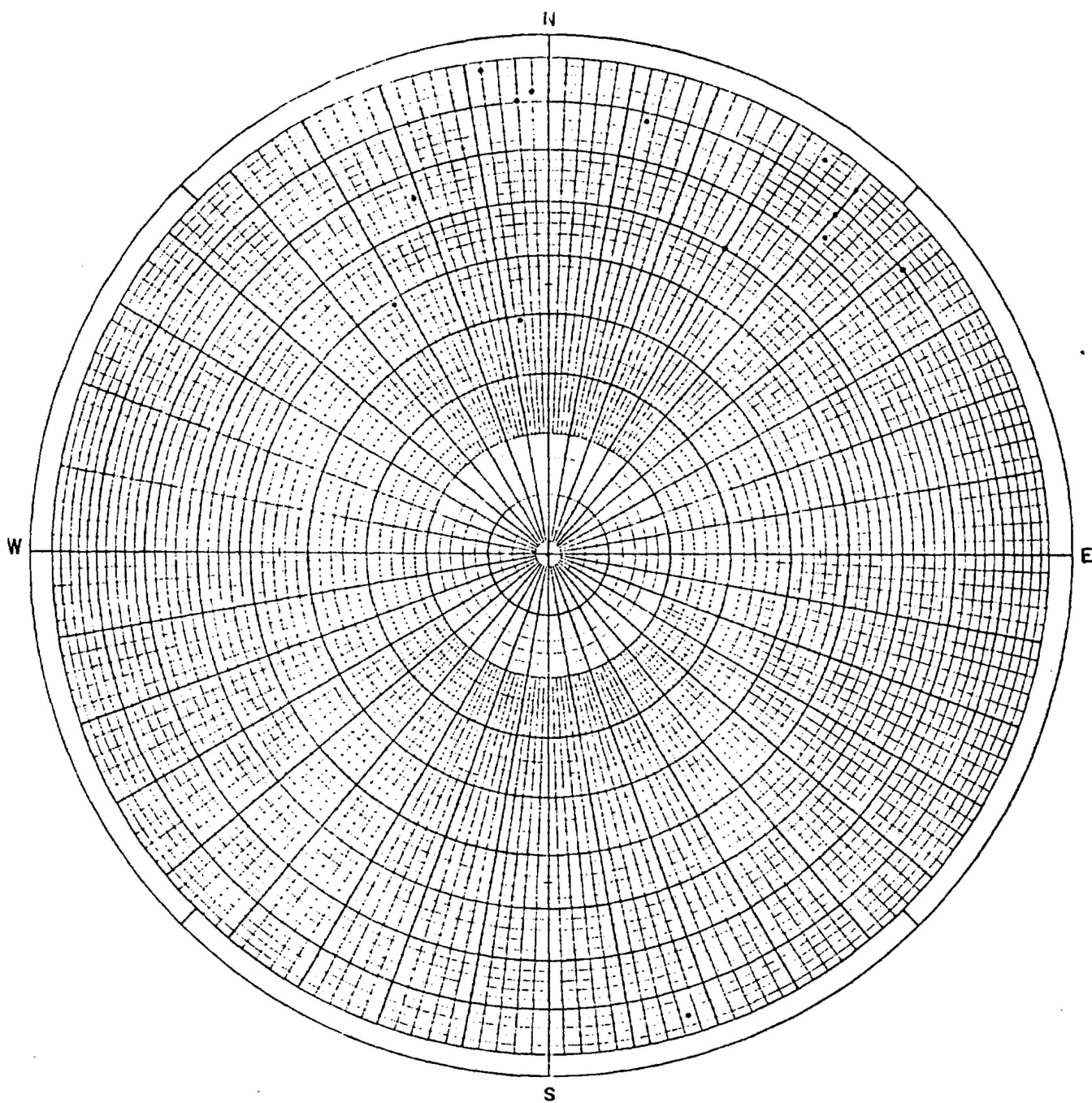
. Diorite



Polar Equal Area Stereo Net
Geotechnical Engineers, Inc.
Seabrook Station
June 1974

Boring E2-15
Ground Elevation (MSL) +13.9 ft
Foliation in:

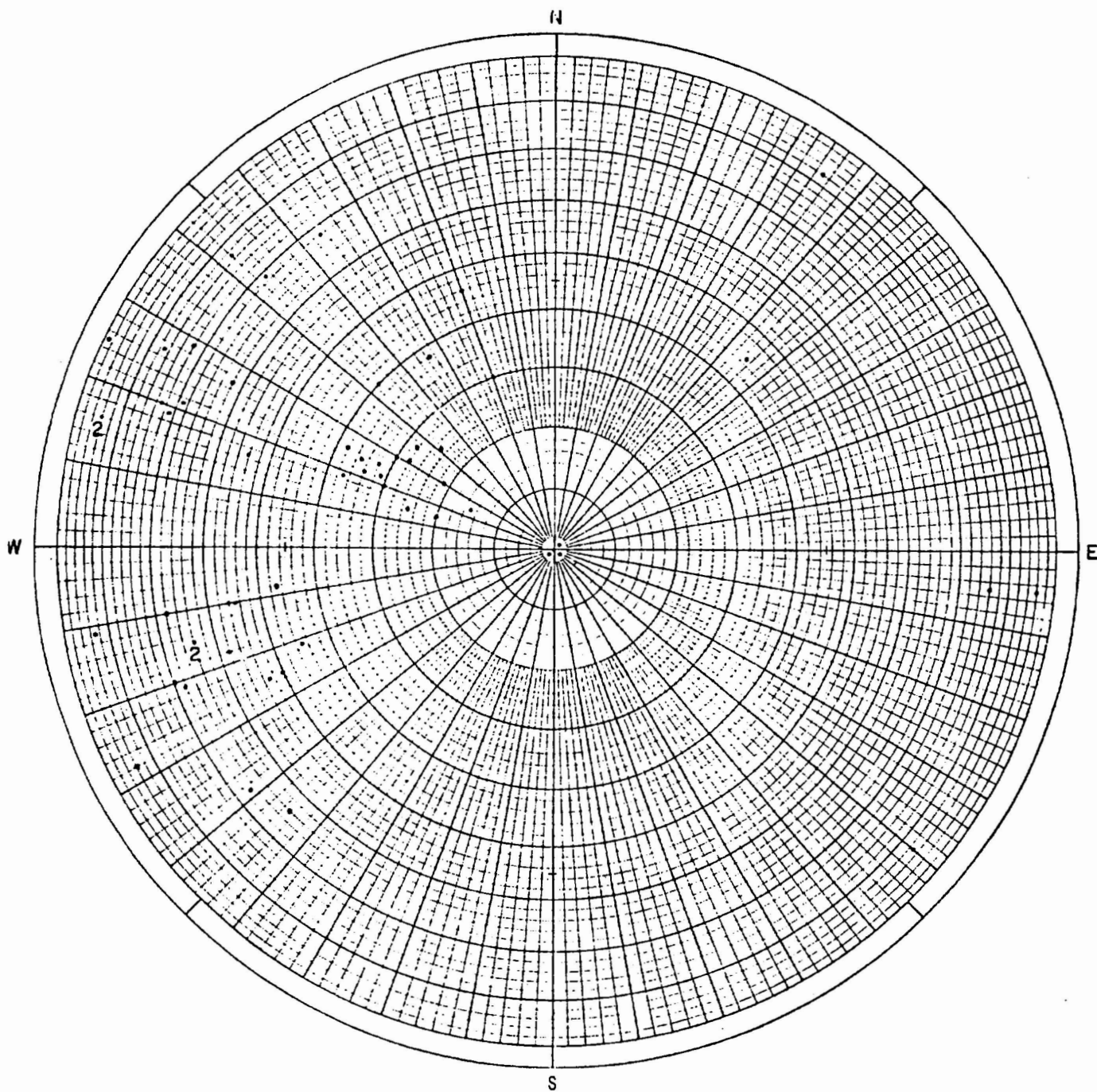
. Diorite



Polar Equal Area Stereonet
Geotechnical Engineers, Inc.
Seabrook Station
June 1974

Boring E2-15
Ground Elevation (MSL) -13.9 ft
Slickensided Surfaces in:

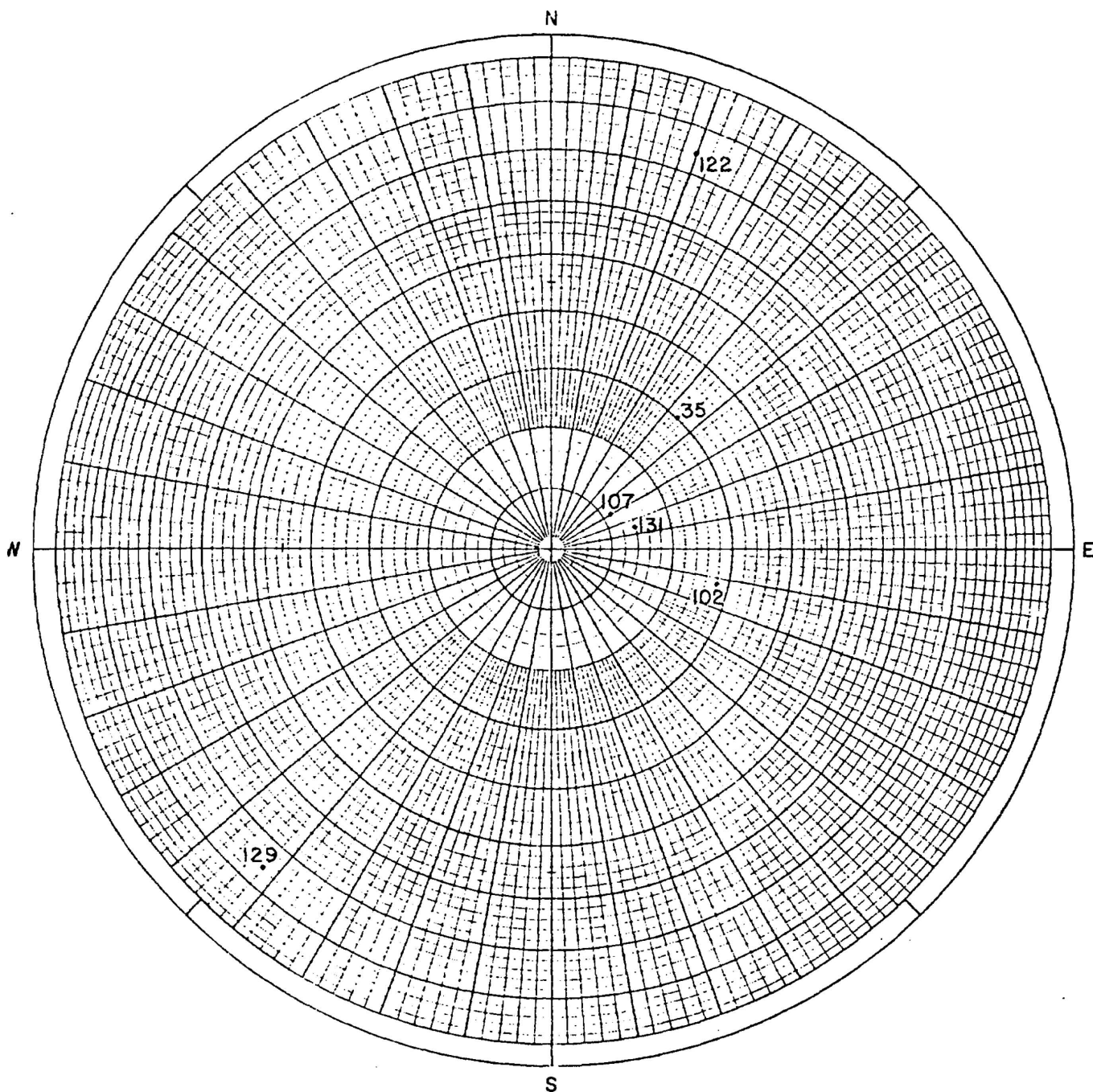
. Diorite



Polar Equal Area Stereo Net
Geotechnical Engineers, Inc.
Seabrook Station
June 1374

Boring E2-16
Ground Elevation (MSL) +16.8 ft
Joints in:

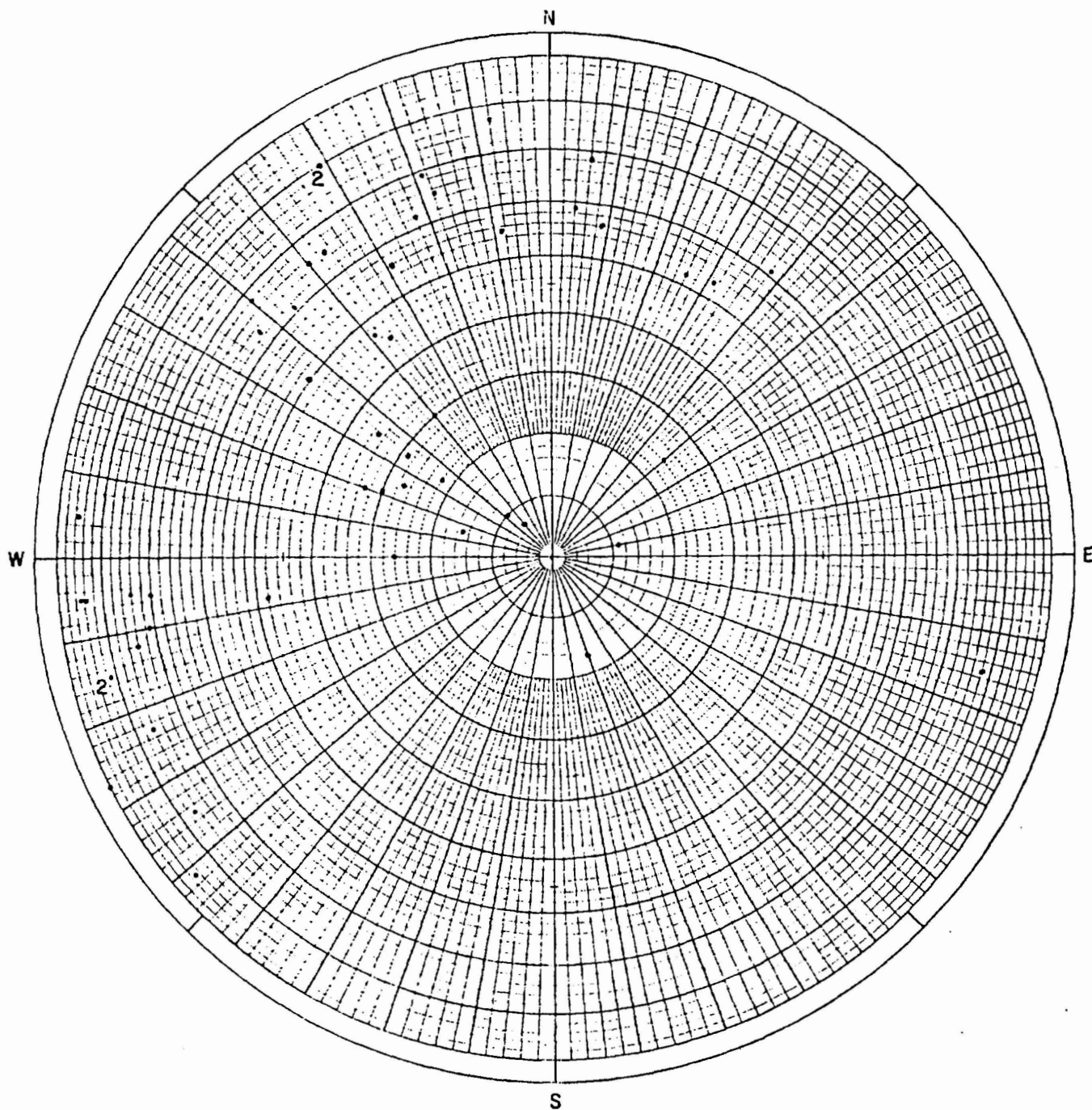
. Diorite



Polar Equal Area Stereo Net
 Geotechnical Engineers, Inc.
 Scabrook Station
 June 1974

Boring E2-16
 Ground Elevation (MSL) +16.8 ft
 Foliation and Depth in:

Diorite



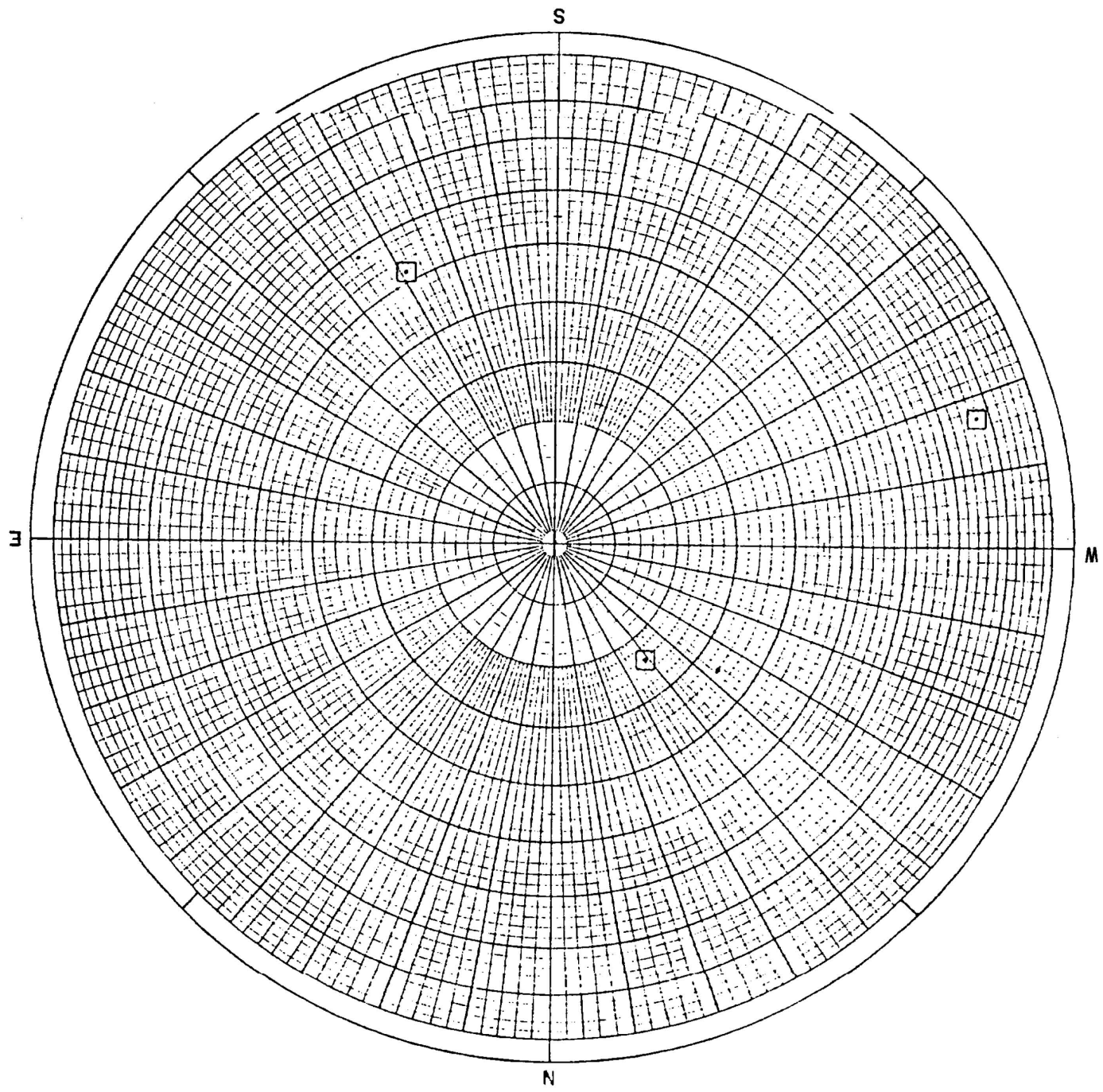
Polar Equal Area Stereo Net
 Geotechnical Engineers, Inc.
 Seabrook Station
 June 1974

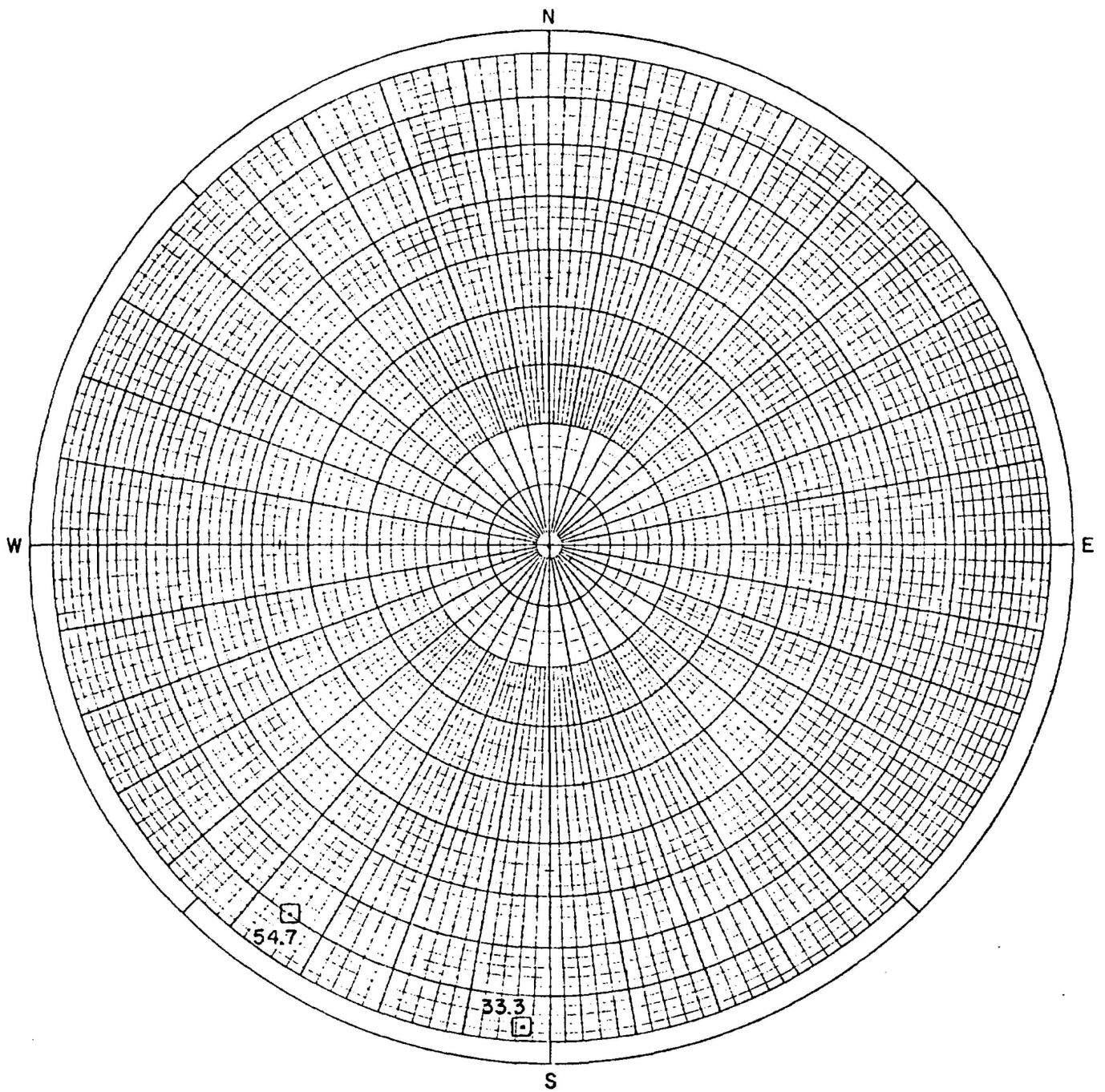
Boring E2-16
 Ground Elevation (MSL) +16.8 ft
 Slickensided Surfaces in:

. Diorite

Polar Equal Area Stereo Net
Geotechnical Engineers, Inc.
Seabrook Station
June 1974

Boring R2-17
Ground Elevation (MS L) +13.3
Joints in:
• Diorite
□ Schist

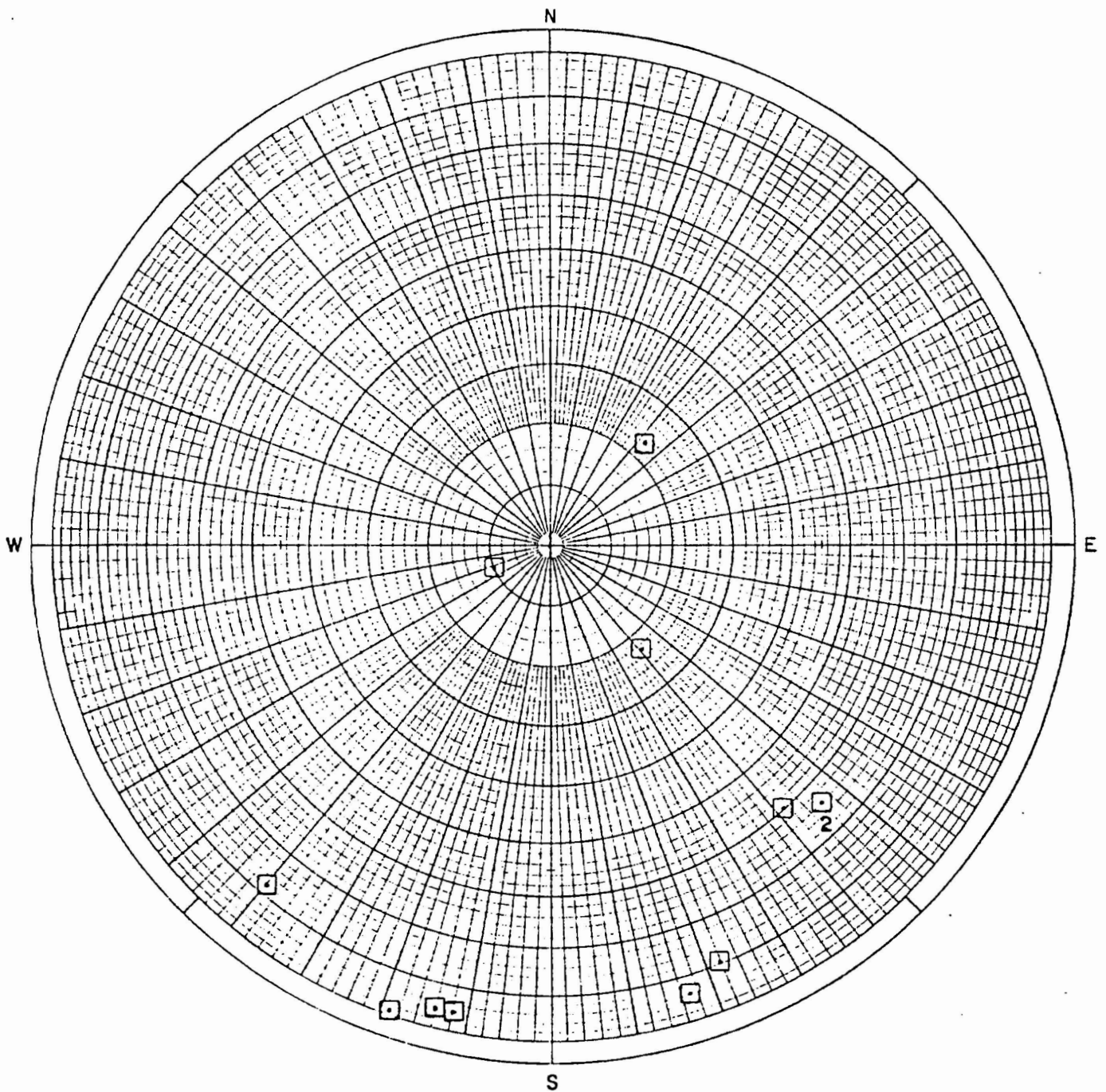




Polar Equal Area Stereo Net
 Geotechnical Engineers, Inc.
 Seabrook Station
 June 1974

Boring E2-17
 Ground Elevation (MSL) + 13.3 ft
 Foliation and Depth in:

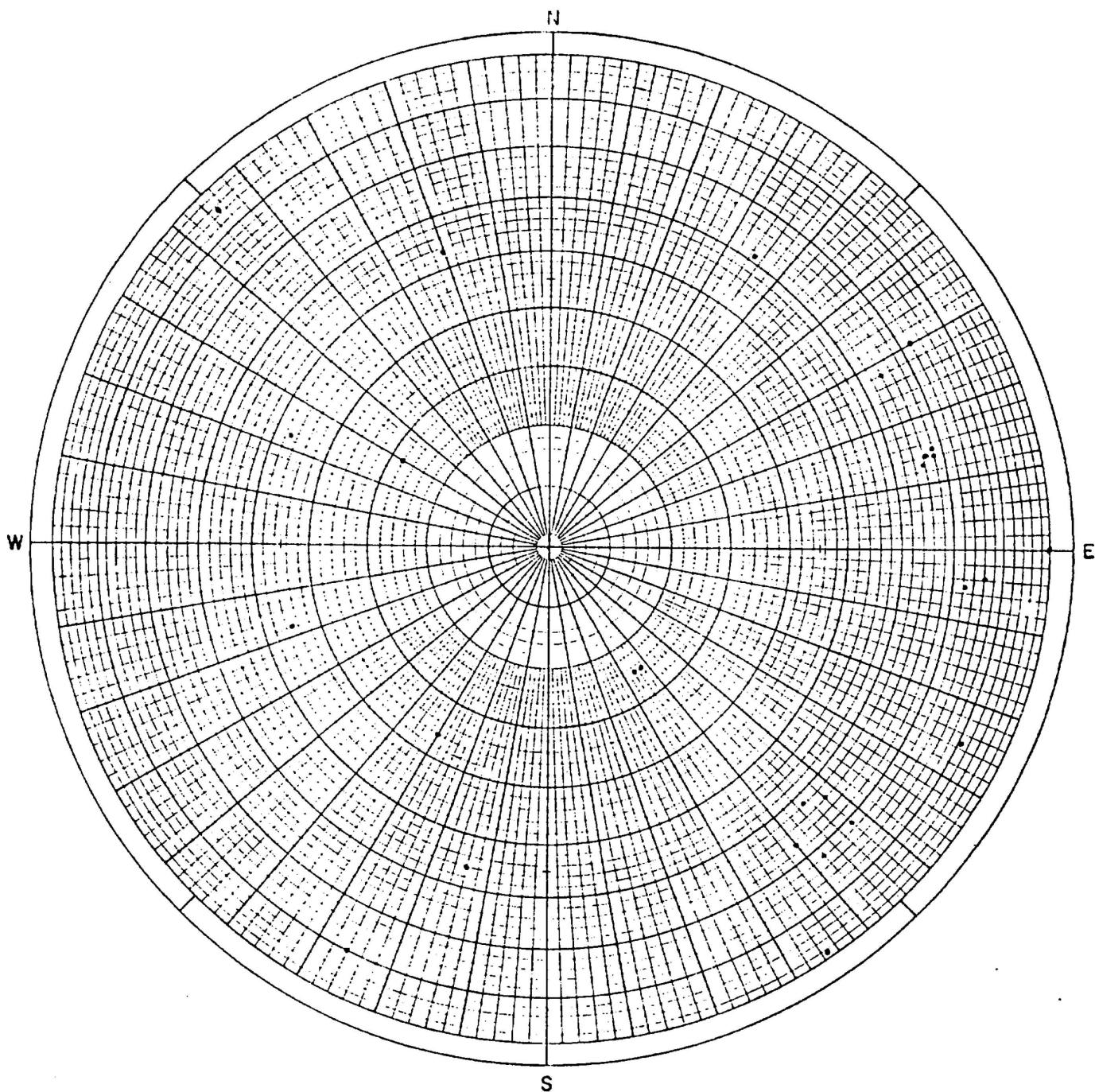
□ Schist



Polar Equal Area Stereo Net
 Geotechnical Engineers, Inc.
 Scabrook Station
 June 1974

Boring E2-17
 Ground Elevation (MSL) + 13.3 ft
 Slicensided Surfaces in:

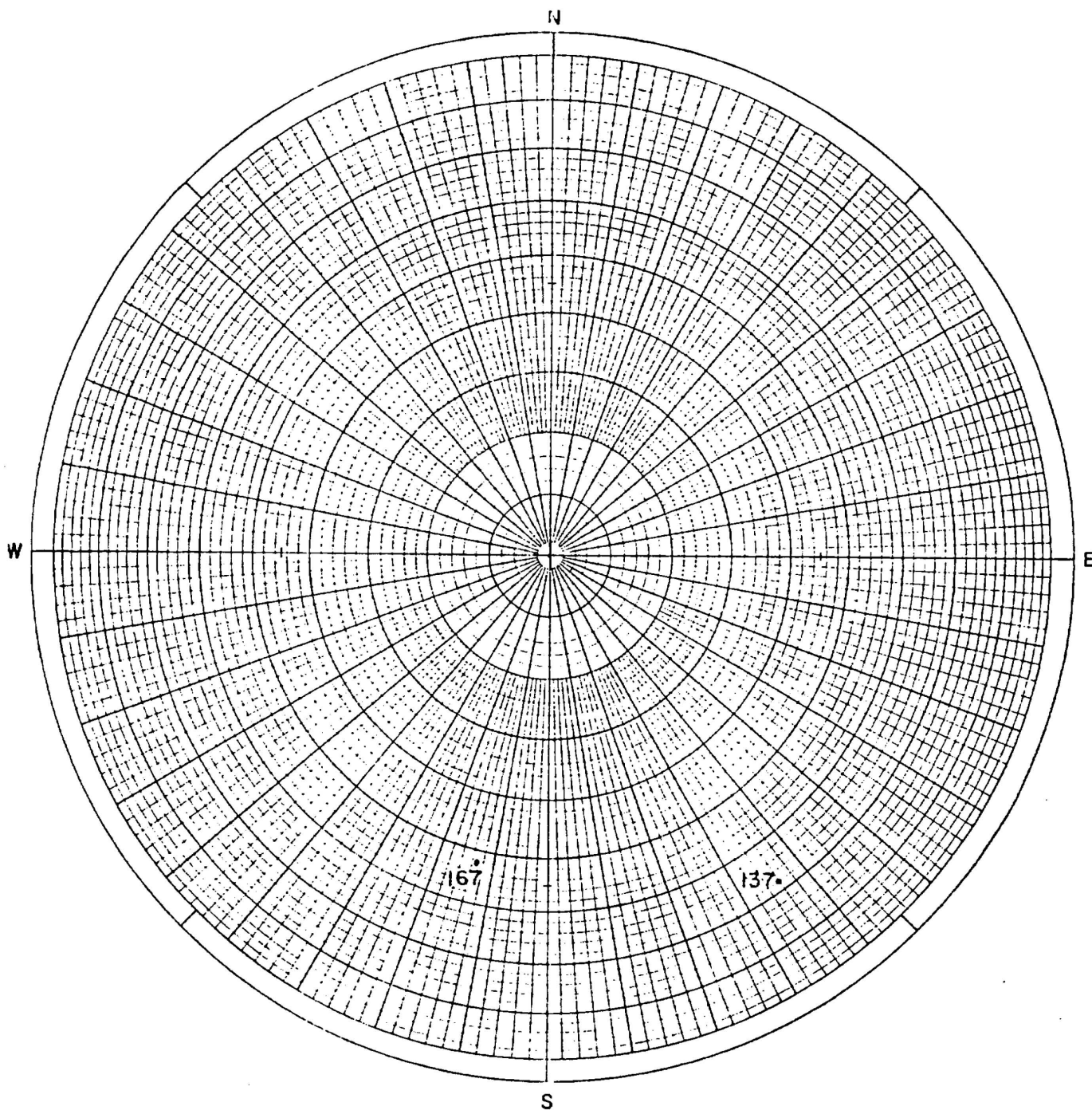
□ Schist



Polar Equal Area Sierco Net
Geotechnical Engineers, Inc.
Seabrook Station
June 1974

Boring E2-18
Ground Elevation (MSL) +14.9 ft
Joints in:

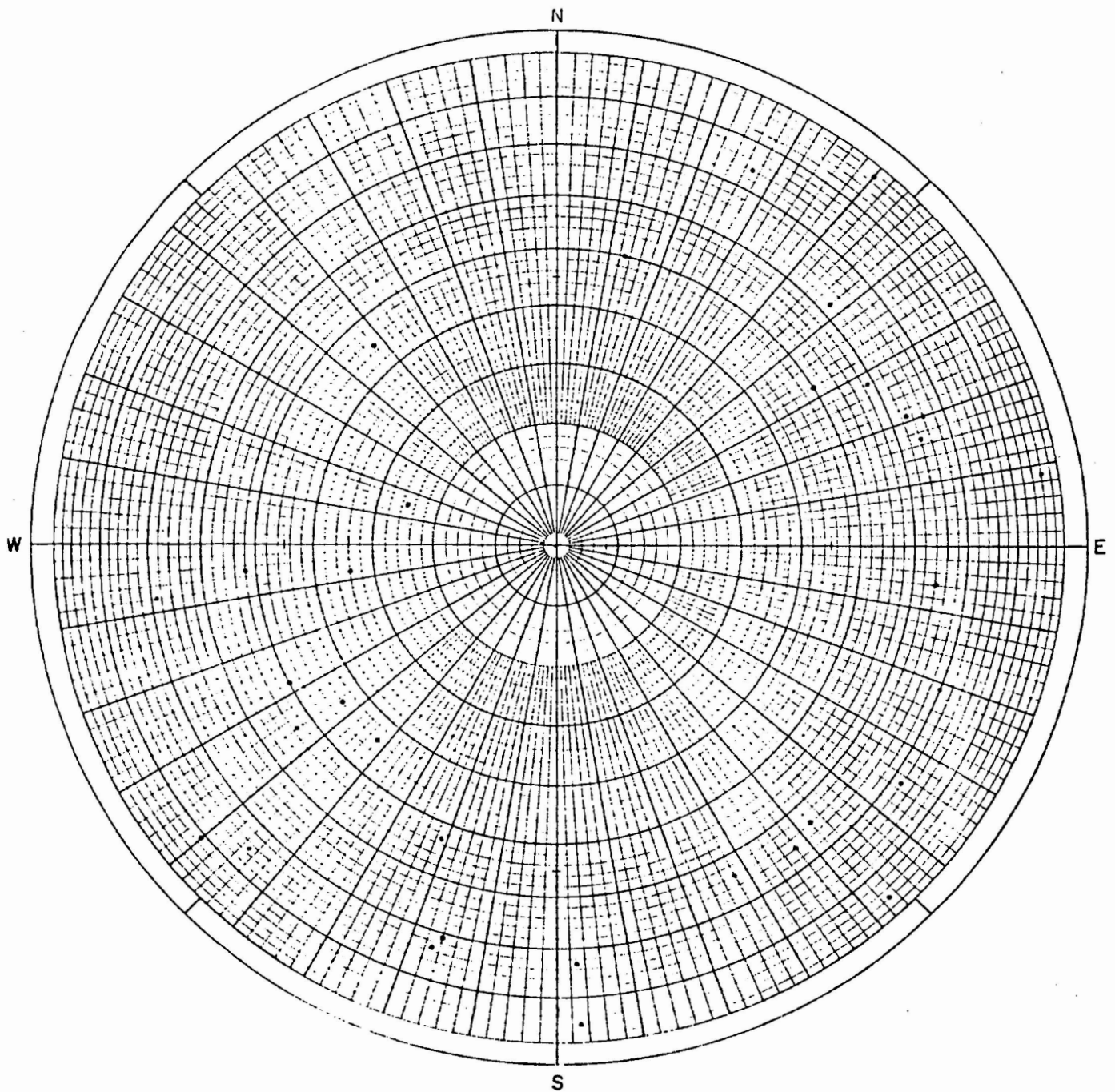
. Diorite



Polar Equal Area Sterco Net
Geotechnical Engineers, Inc.
Scabrook Station
June 1974

Boring E2-18
Ground Elevation (MSL) +14.9 ft
Foliation and Depth in:

. Diorite



Polar Equal Area Stereo Net
Geotechnical Engineers, Inc.
Seabrook Station
June 1974

Boring E2-18
Ground Elevation (MSL) +14.9 ft
Slickensided Surfaces in:

- Diorite

APPENDIX IV

APPENDIX IV

Overburden Descriptions

Note: The boring layout and soil descriptions are taken from the PSAR.

CONTENTS OF APPENDIX IV

1. Fig. 2.5-9 from PSAR
2. Boring Logs from Appendix 2D of PSAR:
 - D1-11
 - D1-8
 - E2-1
 - E1-1

SOIL DESCRIPTIONS

Ground Elevation: 13.8 ft

Depth to Water Level: 1.2 ft

Project No. 7286

Sample No.	Depth ft	Number of Blows per 6"	Description
1	0-2	1-1-4-7	Top is dark brown peat with many roots up to 1 mm diameter. Bottom is brown sand. Fine grained; uniform; contains few black organic pieces < 1 mm in size; < 5% silt.
2	5- 6.5	7-10-12	Light gray silty sand. Fine grained; uniform; very fast reaction to shaking test; contains ~ 30-40% nonplastic fines; part of sample is silty gravelly sand containing gravel up to 28 mm in size; angular grains
3	10-11.5	27-30-44	Gray silty sand. Widely graded; angular to subrounded grains; contains ~ 25-30% nonplastic fines; few gravel pieces up to 8 mm in size. w. = 7.5.g



GEOTECHNICAL ENGINEERS INC.

BORING NO. D1-8
SOIL DESCRIPTIONS

Ground Elevation: 15.9 ft

Depth to Water Level: 1.9 ft

Project No. 7286

Sample No.	Depth ft	Number or Blows per 6"	Description
1	0- 1.5	1-1-12	Top is dark brown fine-sandy organic silt containing several roots < 1 mm diameter. Bottom is brown and rusty-brown sandy silt <i>containing many</i> dark brown organic pieces < 0.5 mm in size.
2	5- 6 . 5	31-40-72	Brown slightly gravelly silty sand. Widely graded; angular to subrounded grains; contains ~ 30-40% nonplastic fines and ~ 10-15% gravel up to 35 mm in size; fast reaction to shaking test.
3	8.5- 9	127	Gray-brown silty gravelly sand. Widely graded; angular grains; contains ~ 30-40% gravel up to 25 mm in size and ~ 20-30% nonplastic fines.



BORING NO. E2-1
SOIL DESCRIPTIONS

Ground Elevation: 15.9 ft

Depth to Water Level: 6.0 ft

Project No. 7286

Sample No.	Depth ft	Number of Blows per 6"	Description
1	0- 2	1-1-7-19	Top is brown sandy organic silt containing roots up to 12 mm diameter. Bottom is light brown to gray-brown gravelly silty sand. Widely graded; generally angular grains; contains ~ 20-30% nonplastic fines and ~ 10-20% gravel up to 18 mm in size; several rusty-brown spots up to 10 mm in size.
2	5- G.6	31-60-74	Similar to bottom portion of Sample No. 1, but slightly less silty and fewer rusty-brown spots.

BORING NO. E1-1
SOIL DESCRIPTIONS

Ground Elevation: 28.9 ft
Depth to Water Table:

Project No. 7286

Sample No.	Depth ft	Number of Blows per 6"	Description
			No soil samples taken. (Bedrock at ground surface.)

BORING LOCATION				INCLINATION		BEARING		DATE START/FINISH	
N20117, F75221, Plant Site				4°		N6, 54		May 30, 1974 / June 5, 1974	
CASING ID		CORE SIZE		TOTAL DEPTH		DRILLED BY			
3 in.		1-7/8 in.		165.0 ft		American Drilling & Boring, T. Canning			
GROUND ELEVATION		DEPTH TO WATER TABLE				LOGGED BY			
13.7 ft		-2.5 ft		June 5, 1974		Sailor, R., Polk, R., J., H. Rand			
EL. MSL ft	SAMPLE Type No.	RATIO OF ADV. min./ft	WATER CONTENT %	OR RQD %	PRESSURE TEST Computed k in-lb/cm ²	STRIKE, DIP F = foliation J = joint C = contact B = bedding	CORE BREAKS	SOIL AND ROCK DESCRIPTIONS	
								(Weathering, defects, etc.)	(Type, texture, mineralogy, color, hardness, etc.)
13.3									
10									
0									
-10	NQ-1	100	*	0					
	NQ-2	89	*	0					
	NQ-3	82	1.8	0					
-20	NQ-4	100	2.0	21					
	NQ-5	95	2.0	96					
	NQ-6	89	1.4	0					
	NQ-7	100	2.1	73					
-30	NQ-8	100	1.0	24					
	NQ-9	100	2.0	61					
	NQ-10	100	2.0	29					
	NQ-11	100	2.1	53					
	NQ-12	100	2.8	60					
	NQ-13	100	3.1	44					
-40	NQ-14	100	2.8	34					
	NQ-15	97	2.0	33					
	NQ-16	100	2.0	21					
	NQ-17	100	2.1	60					
	NQ-18	90	2.4	0					
	NQ-19	98	2.0	32					
-50	NQ-20	100	2.6	22					
	NQ-21	100	2.1	49					
	NQ-22	100	2.1	64					
	NQ-23	100	1.5	100					
	NQ-24	88	2.3	95					
-60	NQ-25	100	2.1	94					