



John R. Byerly

I N C O R P O R A T E D

April 20, 2009

Santa Ana Watershed Project Authority (SAWPA)
c/o Robert L. Reiter, Consulting Civil Engineer
30665 Palo Alto Court
Redlands, California 92373-7484

Rpt. No.: 5495
File No.: S-12719

Project: Temescal Canyon Road SARI Trench Failure Repair Project, Riverside County, California

Subject: "R" Value and Maximum Density Soil Test Results

Ladies and Gentlemen:

On April 2, 2009, a representative of this firm cored the existing asphalt concrete pavement at three locations on the east side of Temescal Canyon Road, north and south of Foster Road. The three core locations were selected by SAWPA. The purpose of the coring was to measure the existing pavement sections and obtain soil samples for "R" value and maximum density/optimum moisture determinations. The approximate core locations are illustrated on the attached plan, Enclosure 1. The pavement section measurements and results of the "R" value and maximum density testing are tabulated below:

Core No.	Asphalt Thickness (inches)	Base Thickness (inches)	Soil Description	"R" Value	Maximum Density (pcf)	Optimum Moisture (%)
1	8.5 (6.5 + 2.0 Cap)	7.0	Silty fine to coarse sand and gravel	38	134.0	7.0
2	3.0	5.0	Silty fine to coarse sand and gravel	37	135.0	6.5
3	6.0	5.5	Silty fine to coarse sand and gravel	45	134.0	6.5

The "R" value and maximum density/optimum moisture test data are included with this report as Enclosures 2 and 3, respectively.

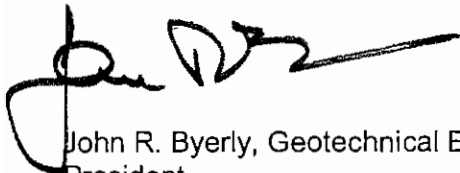
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We trust this provides the information needed at this time. Should there be questions, please contact this office.

Respectfully submitted,

JOHN R. BYERLY, INC.



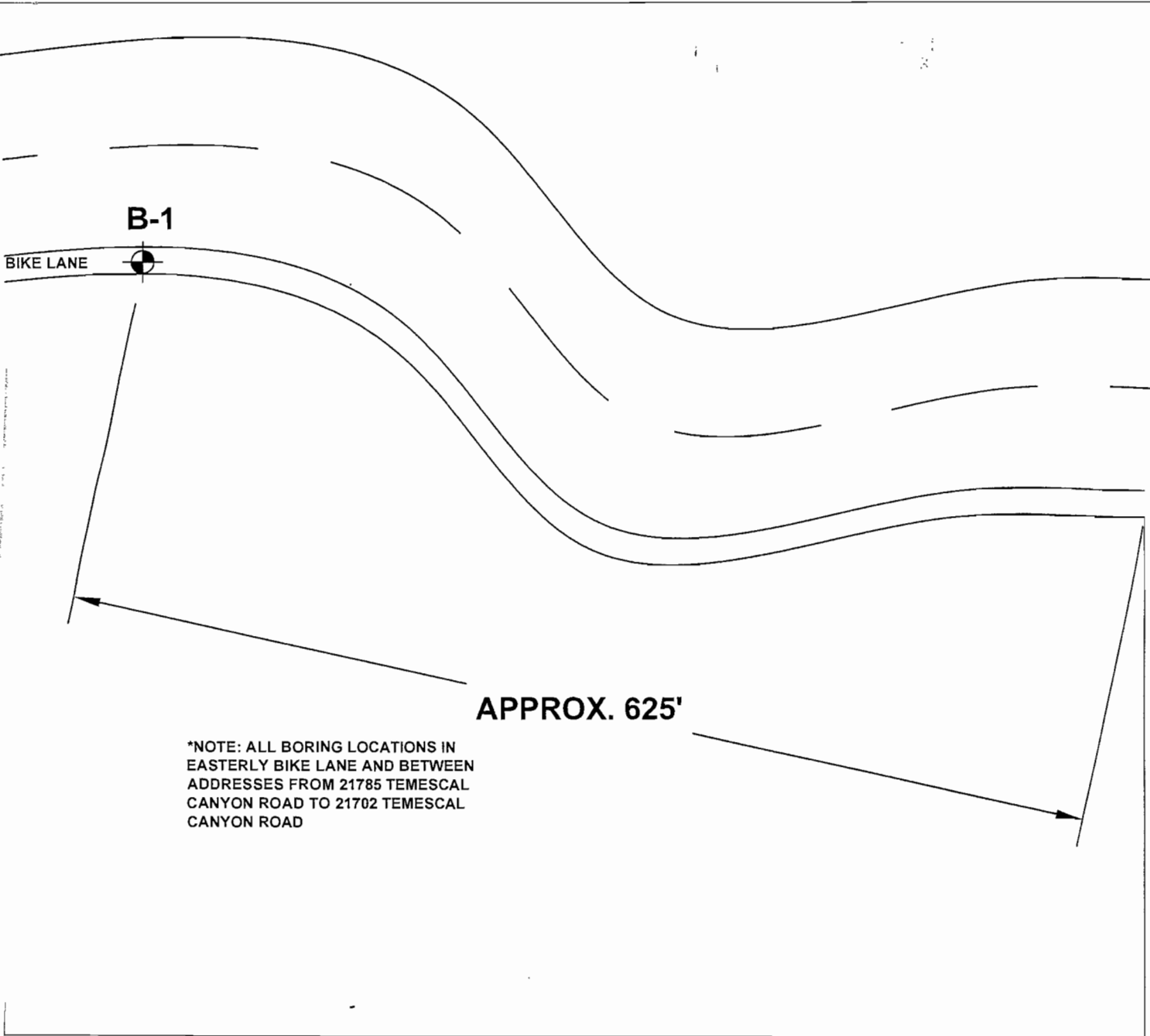
John R. Byerly, Geotechnical Engineer
President



JRB:CL:jet

Enclosures: (1) Plot Plan
(2) "R" Value Test Results
(3) Maximum Density

Copies: (3) Client

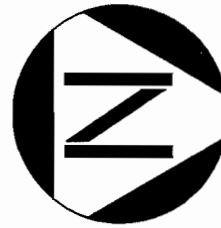


B-1

BIKE LANE

APPROX. 625'

***NOTE: ALL BORING LOCATIONS IN
EASTERLY BIKE LANE AND BETWEEN
ADDRESSES FROM 21785 TEMESCAL
CANYON ROAD TO 21702 TEMESCAL
CANYON ROAD**



SCALE: NTS

TEMESCAL CANYON ROAD

CL

B-2

B-3

BIKE LANE

APPROX. 165'

APPROX. 615'

CL

FOSTER ROAD

Enclosure 1
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John R. Byerly

STABILOMETER "R" VALUE

California Department of Transportation Test Method 301

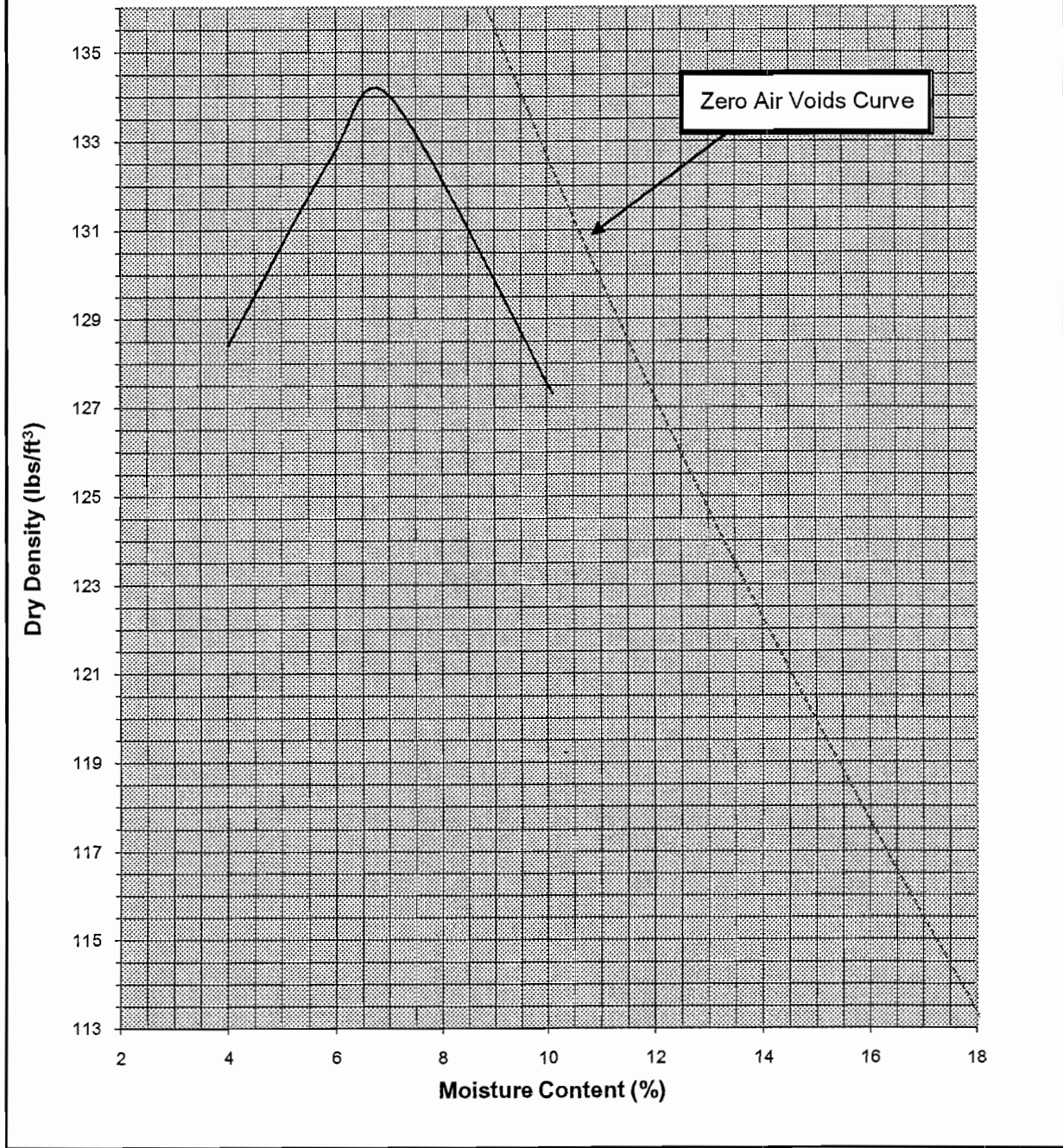
Sample No.	B-1 at 16"-24"		
Moisture Content (%)	8.0	9.3	10.2
Dry Density (lbs./cu. ft.)	132.9	130.2	126.3
Exudation Pressure (psi)	533	350	207
Expansion Pressure (psf)	8.66	4.33	0
"R" Value	67	45	22
"R" Value at 300 PSI Exudation		38	

Sample No.	B-2 at 12"-20"		
Moisture Content (%)	8.7	9.1	9.6
Dry Density (lbs./cu. ft.)	130.6	129.9	129.5
Exudation Pressure (psi)	581	438	287
Expansion Pressure (psf)	8.66	0	0
"R" Value	70	54	36
"R" Value at 300 PSI Exudation		37	

Sample No.	B-3 at 12"-20"		
Moisture Content (%)	7.7	8.3	9.4
Dry Density (lbs./cu. ft.)	131.9	130.8	129.8
Exudation Pressure (psi)	549	414	263
Expansion Pressure (psf)	8.66	4.33	0
"R" Value	79	65	40
"R" Value at 300 PSI Exudation		45	

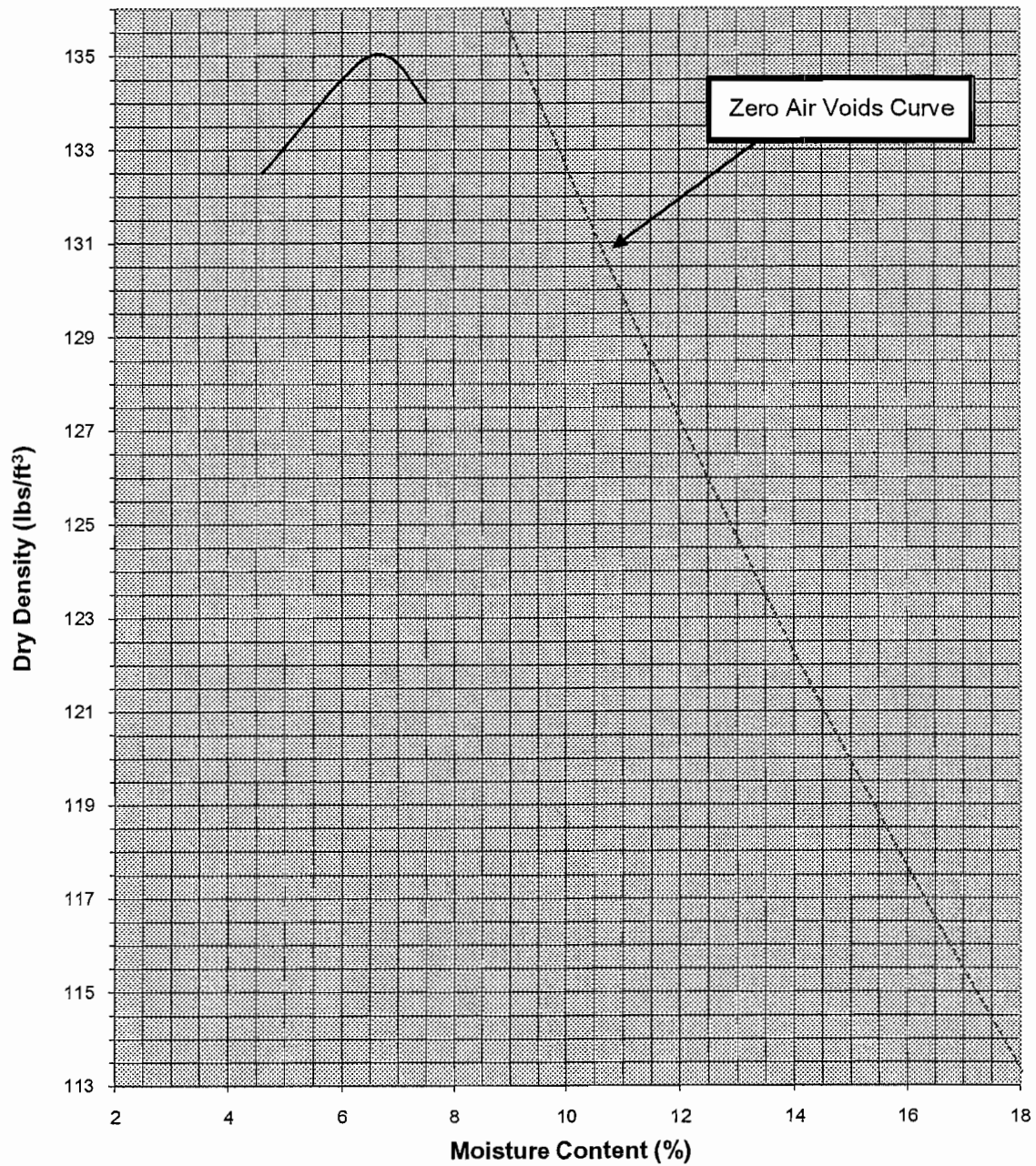
Enclosure 2
Rpt. No.: 5495
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Moisture/Density Relationship ASTM D-1557



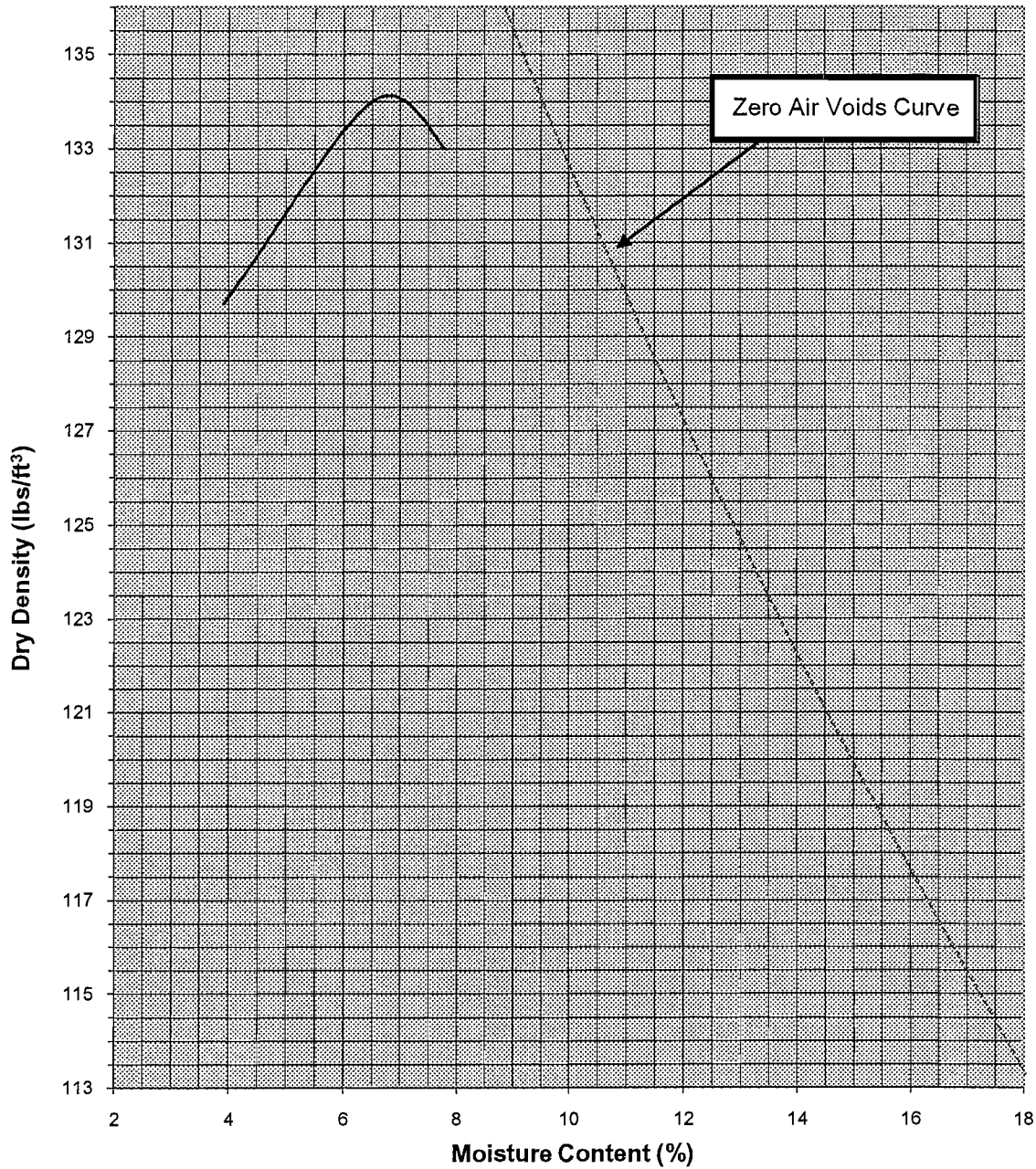
Boring No.	B-1
Depth (ft.)	16"-24"
Optimum Moisture (%)	7.0
Maximum Dry Density (pcf)	134.0
Soil Classification	Brown silty fine to coarse sand with some gravel (SM)

Moisture/Density Relationship ASTM D-1557



Boring No.	B-2
Depth (ft.)	12"-20"
Optimum Moisture (%)	6.5
Maximum Dry Density (pcf)	135.0
Soil Classification	Brown silty fine to coarse sand with some gravel (SM)

**Moisture/Density Relationship
ASTM D-1557**



Boring No.	B-3
Depth (ft.)	12"-20"
Optimum Moisture (%)	6.5
Maximum Dry Density (pcf)	134.0
Soil Classification	Brown silty fine to coarse sand (SM)