SCI SOIL CONSULTANTS, INC.

Site Development Report

General Grading

PINEWOOD PLACE
O'FALLON, MISSOURI

SCI No. 94-192-13

CITY OF O'FALLON

Construction Inspection Report

Date: 7-15-98

Project: Pinewood Place Apt.

Address/Location: _____

Type of Inspection: reinspection correction list

Weather: _____

Approved: X Contingent: _____

Not Approved: _____ Information: _____

Remarks: Glen Singleton and I went over the improvements, they were all complete. I recommended him to place siltation control around AI. The lift ring from the sanitary structure that need lowerd is still on site I told him to remove it. I spoke with Joe Hietkamp on this inspection he said he would take care of the release paper work.

Signed: James Castello F.C.
City Inspector

Received By: _____

SCI SOIL CONSULTANTS, INC.

September 29, 1994

Mr. Steve Owsley
Little River Development
520 North 30th
P.O. Box 611
Quincy, IL 62306

RE: General Grading
Pinewood Place
O'Fallon, Missouri
SCI No. 94-192-13

Dear Mr. Owsley:

Please find enclosed three copies of our report "Site Development Report - General Grading - **PINEWOOD PLACE - O'FALLON, MISSOURI,**" September 1994.

If you have any questions regarding this report, please call.

Very truly yours,

SOIL CONSULTANTS, INC.

Karl Koenigsfeld

Karl T. Koenigsfeld, P.E.
Project Engineer

William J. Guerdan

William J. Guerdan, P.E.
Director of Construction Services

KTK/kaf

Enclosures

cc: Sammons, Buller, Wallace & Esser Architects, w/1 report
Jerry Campbell, w/1 report
Mid-Am Construction, w/1 report
City of O'Fallon w/1 report

SOIL CONSULTANTS, INC

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General Grading

PINEWOOD PLACE
O'FALLON, MISSOURI

LITTLE RIVER DEVELOPMENT
Developer

SAMMONS, BULLER, WALLACE & ESSER ARCHITECTS
Architects

BAX ENGINEERING & SURVEYING
Civil Engineer/Surveyor

DAVE KOLB GRADING, INC.
Grading Contractor

September 1994

SCI No. 94-192-13

Soil Consultants, Inc.
333 Mid Rivers Mall Drive
St. Peters, Missouri 63376-1516

SOIL CONSULTANTS, INC

Site Development Report

General Grading

PINEWOOD PLACE
O'FALLON, MISSOURI

INTRODUCTION

At the request of Mr. Steve Owsley, with Little River Development, we provided compaction testing services during the general grading at Pinewood Place from June 11, 1994 through July 14, 1994. Due to rain and wet soil conditions, the job was shut down intermittently during this period.

PROJECT AND SITE DESCRIPTION

The Pinewood Place development is located on the north side of Tom Ginnever Avenue and east of the existing termination of Knob Hill Drive in O'Fallon, Missouri. The location of the site with respect to the surrounding roads in the area is shown on the Site Plan, Figure 1. The development consists of constructing three 24-unit two-story apartment buildings.

The original topography sloped gently to the east. Maximum relief across the site was approximately 20 feet. The high point was along the west central portion of the site and the low point was along the easternmost property line.

Subsurface conditions were explored by Soil Consultants, Inc. with the results presented in our report entitled, "Exploration of Subsurface Conditions and Foundation Recommendations - **PINEWOOD PLACE - O'FALLON, MISSOURI**," dated

June 17, 1994.

SITE GRADING

General grading was performed by Dave Kolb Grading, Inc. The grading quantities on the site grading plan indicated approximately 6700 cubic yards of cut and 17,400 cubic yards of fill. The on site cut was located along the western property line. The additional fill material was obtained from a detention basin for the residential development at the north end of this site known as Pinewood Place Estates.

LABORATORY AND FIELD TESTING

A moisture-density relationship of the fill material was determined by the modified Proctor test, in general accordance with ASTM D 1557. Atterberg limits, in accordance with ASTM D 4318, were also performed. Results of these tests and sample information are shown on the enclosed Compaction Control Curve, Figure 2.

Density tests were performed using standard drive-tube testing procedures and nuclear densometer methods, in general accordance with ASTM D 2937 and ASTM D 2922, respectively and regionally accepted practice. Results of the field density tests are listed chronologically for each location on the enclosed Compaction Test Summary. The test results listed in the summary are representative of soils placed in the general area of the stated location.

The percent compaction of the test results on the Compaction

Test Summary is computed as the ratio, expressed as a percentage, of the dry density of the fill sample to the maximum dry density of the soil, as established by the moisture-density relationship. Subsequent references to compaction percentages are made with respect to the modified Proctor maximum dry density.

CONCLUSIONS

Fill placed in building, street and parking areas at the time of our observation has been compacted to a density of at least 90 percent. Areas where tests indicated densities of less than this criteria were rerolled and retested, or rerolled and visually accepted.

All fill placed under our observation has been compacted properly for support of the planned construction. The design and construction considerations presented in our subsurface report should be followed during the balance of the project construction. We should be contacted to provide recommendations for remedial measures if high plastic clays, bedrock, "pumping" soils, groundwater, or other problems are encountered during construction. Subgrade testing in street areas should be performed immediately prior to paving due to surficial construction and/or weather disturbance.

SOIL CONSULTANTS, INC

COMPACTION TEST SUMMARY

General Grading

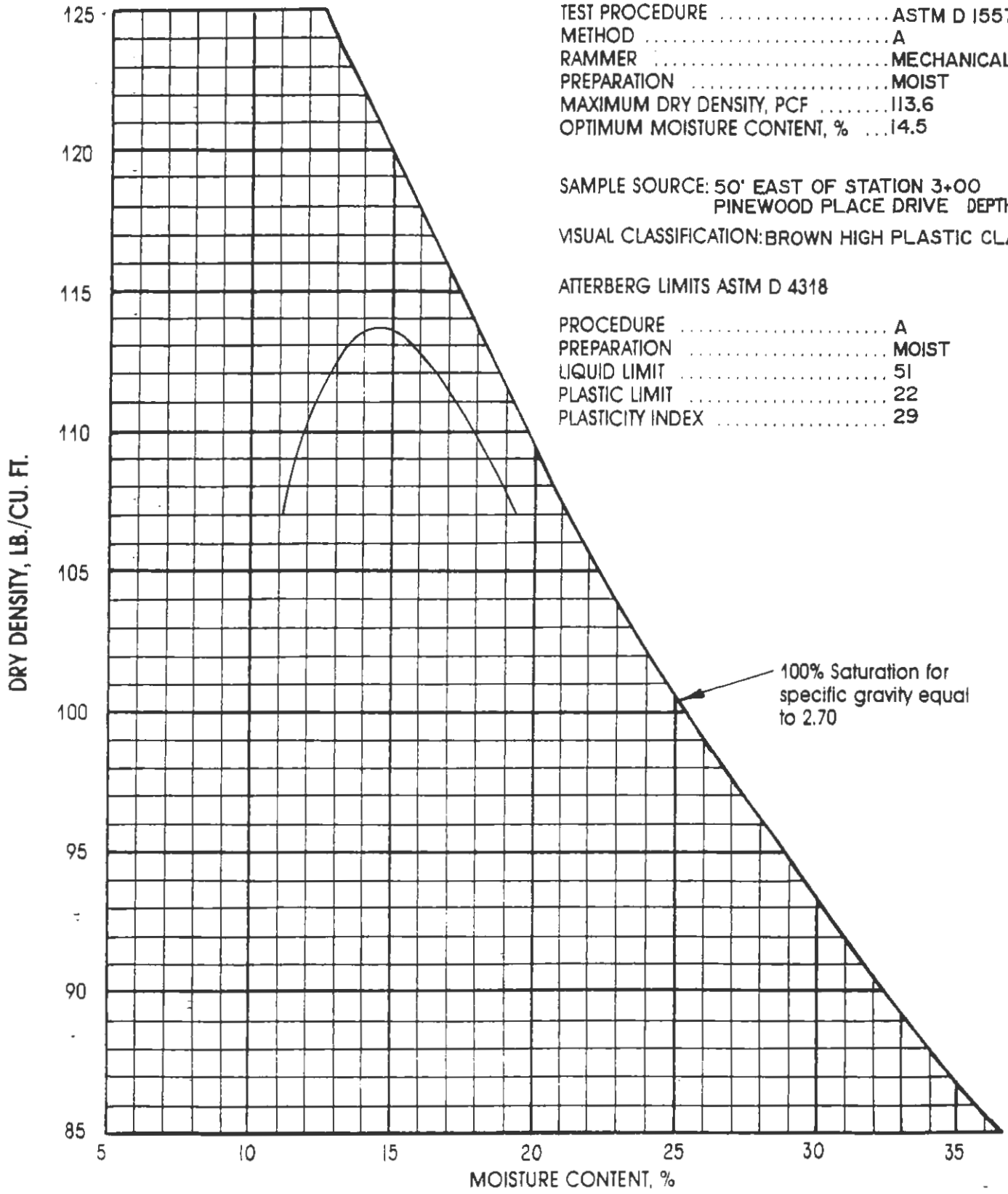
PINEWOOD PLACE
O'FALLON, MISSOURI

SCI No. 94-192-13

DATE	LOCATION	DRY DENSITY (PCF)	W%	CON-TROL (PCF)	% COM-PAC-TION	REMARKS
	Building 1					
06-11-94		101.9	14.8	113.6	89.7	Rerolled
06-11-94		101.4	15.9	113.6	89.3	Rerolled
	Building 2					
06-21-94		103.1	21.0	113.6	90.8	
06-21-94		103.1	21.0	113.6	90.8	
06-21-94		100.5	21.5	113.6	88.5	Rerolled & Retested
07-07-94		106.9	18.0	113.6	94.1	
07-07-94		107.4	25.6	113.6	94.5	Rerolled & Retested
07-13-94		102.2	21.7	113.6	90.0	
07-13-94		103.2	18.0	113.6	90.8	
07-13-94		104.5	17.9	113.6	92.0	
07-13-94		103.0	19.0	113.6	90.7	
07-13-94		104.0	18.7	113.6	91.5	
07-13-94		102.0	20.9	113.6	89.8	
07-13-94		107.2	13.4	113.6	94.4	

DATE	LOCATION	DRY DENSITY (PCF)	W%	CON-TROL (PCF)	% COM-PAC-TION	REMARKS
	Building 2					
07-13-94		105.9	14.5	113.6	93.2	
07-13-94		98.9	23.7	113.6	87.1	Rerolled & Retested
07-13-94		98.2	24.8	113.6	86.4	Rerolled & Retested
07-13-94		92.2	28.8	113.6	81.2	Rerolled & Retested
07-14-94		106.6	17.9	113.6	93.8	Retest
07-14-94		102.5	22.0	113.6	90.2	Retest
	Building 3					
06-16-94		101.2	21.1	113.6	89.1	Rerolled
06-16-94		97.7	20.9	113.6	86.0	Rerolled & Retested
06-16-94		106.8	16.8	113.6	94.0	Retest
06-18-94		95.7	24.0	113.6	84.2	Rerolled & Retested
06-18-94		99.6	21.9	113.6	87.7	Retest Rerolled & Retested
06-20-94		100.9	21.0	113.6	88.8	Retest Rerolled & Retested
06-20-94		98.2	22.2	113.6	86.4	Retest Rerolled & Retested
06-21-94		101.1	21.4	113.6	89.0	Retest, Rerolled
06-21-94		101.5	20.4	113.6	89.3	Rerolled
06-21-94		102.6	22.1	113.6	90.3	

DATE	LOCATION	DRY DENSITY (PCF)	W%	CON-TROL (PCF)	% COM-PAC-TION	REMARKS
	Building 3					
06-21-94		100.5	19.9	113.6	88.5	Rerolled & Retested
07-07-94		89.3	26.3	113.6	78.6	Rerolled & Retested
07-07-94		99.0	24.1	113.6	87.1	Rerolled & Retested
07-12-94		113.5	15.9	113.6	99.9	Retest
07-12-94		108.1	16.2	113.6	95.2	Retest
07-12-94		103.6	20.4	113.6	91.2	
07-12-94		104.6	13.3	113.6	92.1	
07-12-94		103.5	16.5	113.6	91.1	
07-12-94		103.5	20.4	113.6	91.1	
07-13-94		104.2	16.2	113.6	91.7	
07-13-94		103.9	16.5	113.6	91.5	
07-13-94		102.9	15.0	113.6	90.6	
07-13-94		102.4	15.2	113.6	90.1	



TEST PROCEDURE	ASTM D 1557
METHOD	A
RAMMER	MECHANICAL
PREPARATION	MOIST
MAXIMUM DRY DENSITY, PCF	113.6
OPTIMUM MOISTURE CONTENT, %	14.5

SAMPLE SOURCE: 50' EAST OF STATION 3+00 PINEWOOD PLACE DRIVE DEPTH 0.5'-5'

VISUAL CLASSIFICATION: BROWN HIGH PLASTIC CLAY (CH)

ATTERBERG LIMITS ASTM D 4318

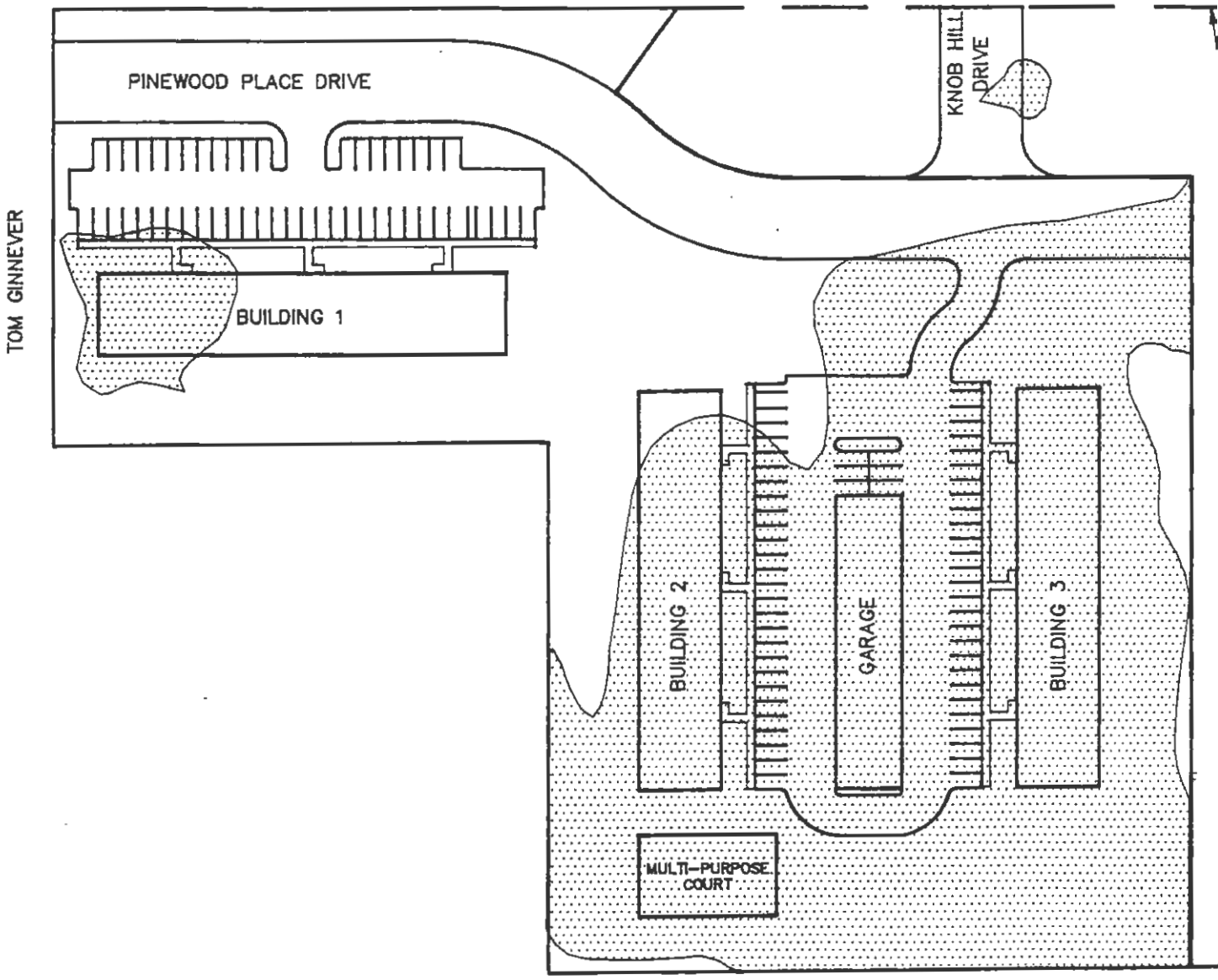
PROCEDURE	A
PREPARATION	MOIST
LIQUID LIMIT	51
PLASTIC LIMIT	22
PLASTICITY INDEX	29

SCI SOIL CONSULTANTS, INC
333 Mid Rivers Mall Drive • St. Peters, Missouri 63376

PINEWOOD PLACE
O'FALLON, MISSOURI

COMPACTION CONTROL CURVE

JUNE 1994 SCI NO. 94-192-13



BASED ON PLAN PREPARED BY
BAX ENGINEERING, INC.
DATED MARCH, 1994