

R-255

MOISTURE-DENSITY RELATIONSHIP

LAB NO.: 252264

PROJECT TEST NO.:

PRICING:

PROJECT NAME: Dunn Construction

PROJECT NO.: UT-8335-23

STATION OR LOCATION:

DATE SAMPLED: 8-Apr-25

DATE TESTED: 11-Apr-25

MATERIAL TYPE: A-1-a

CORRELATION:

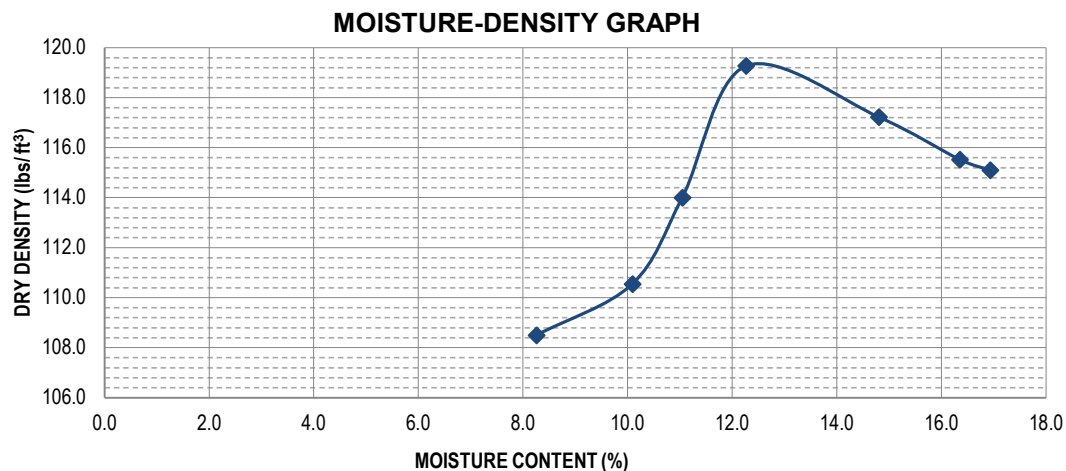
TYPE OF PROCTOR: T180D

MAXIMUM DENSITY (lbs/ft³):***125.7**OPTIMUM H₂O:***10.7 %**

TEST NO.	1	2	3	4	5	6
WATER ADDED (mL)	300	175	175	175	175	175
CYL. & WET SOIL WT. (g)	10441.5	10586.0	10752.4	11000.8	11024.0	11018.4
CYLINDER WT. (g)	6443.5	6443.5	6443.5	6443.5	6443.5	6443.5
WET SOIL WT. (g)	3998.0	4142.5	4308.9	4557.3	4580.5	4574.9
WET DENSITY (lbs/ft³)	117.5	121.7	126.6	133.9	134.6	134.4
CONTAINER NO.	PG1	PG2	PG3	AH	AA	AI
CONTAINER & WET SOIL WT. (g)	977.0	904.3	954.1	928.8	1024.4	1011.0
CONTAINER & DRY SOIL WT. (g)	933.6	858.9	899.2	871.2	944.9	926.4
H₂O WT. (g)	43.4	45.4	54.9	57.6	79.5	84.6
CONTAINER & DRY SOIL WT. (g)	933.6	858.9	899.2	871.2	944.9	926.4
CONTAINER WT. (g)	408.0	408.9	402.1	401.4	407.8	409.0
DRY SOIL WT. (g)	525.6	450.0	497.1	469.8	537.1	517.4
MOISTURE CONTENT (%)	8.3	10.1	11.0	12.3	14.8	16.4
DRY DENSITY (lbs/ft³)	108.5	110.6	114.0	119.3	117.2	115.5
GRAPH NO.						
MAX DRY DENSITY (lbs/ft³)						
OPTIMUM H₂O (%)						
D _i = PROCTOR MAX DRY DENSITY, FINE (lbs/ft³)		118.8	D _d = CORRECTED MAX DRY DENSITY (lbs/ft³)			125.7
MC _i = PROCTOR OPTIMUM H₂O, FINE (%)		12.9	MC _T = CORRECTED OPTIMUM H₂O (%)			10.7
P _C = PERCENT COARSE MATERIAL (%)		20.4				
MC _C = COARSE OPTIMUM H₂O (%)		2.0	P _f = PERCENT FINE MATERIAL (%)			79.6
BULK SP. GR.		2.60	k = MASS PER VOLUME (lbs/ft³)			162.2

TESTED BY: Les Secklstewa & Adam Arriola

LAB MANAGER: Travis Bair



REMARKS: