

R-255

MOISTURE-DENSITY RELATIONSHIP

LAB NO.: 232566

PROJECT TEST NO.:

PRICING:

PROJECT NAME: Dunn Construction

PROJECT NO.: UT-8335-23

STATION OR LOCATION:

DATE SAMPLED: 30-Oct-23

DATE TESTED: 31-Oct-23

MATERIAL TYPE:

CORRELATION:

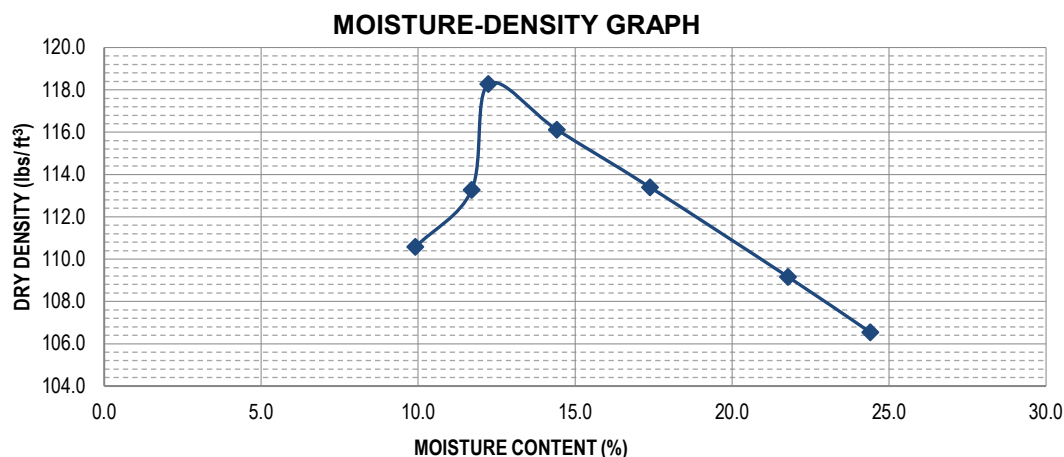
TYPE OF PROCTOR: T-180D

MAXIMUM DENSITY (lbs/ft³):***121.8**OPTIMUM H₂O:***11.3 %**

TEST NO.	1	2	3	4	5	6
WATER ADDED (mL)	400	200	200	200	200	200
CYL. & WET SOIL WT. (g)	10602.3	10772.1	10984.3	10988.0	10996.5	10990.6
CYLINDER WT. (g)	6465.8	6465.8	6465.8	6465.8	6465.8	6465.8
WET SOIL WT. (g)	4136.5	4306.3	4518.5	4522.2	4530.7	4524.8
WET DENSITY (lbs/ft³)	121.5	126.5	132.8	132.9	133.1	132.9
CONTAINER NO.	PG-1	PG-2	PG-3	PG-4	PG-5	PG-6
CONTAINER & WET SOIL WT. (g)	896.9	873.7	865.9	1095.5	1142.8	1018.6
CONTAINER & DRY SOIL WT. (g)	852.8	825.0	815.3	1008.6	1034.0	908.6
H ₂ O WT. (g)	44.1	48.7	50.6	86.9	108.8	110.0
CONTAINER & DRY SOIL WT. (g)	852.8	825.0	815.3	1008.6	1034.0	908.6
CONTAINER WT. (g)	407.9	408.9	402.0	406.0	408.4	403.7
DRY SOIL WT. (g)	444.9	416.1	413.3	602.6	625.6	504.9
MOISTURE CONTENT (%)	9.9	11.7	12.2	14.4	17.4	21.8
DRY DENSITY (lbs/ft³)	110.6	113.3	118.3	116.1	113.4	109.2
GRAPH NO.						
MAX DRY DENSITY (lbs/ft³)						
OPTIMUM H ₂ O (%)						
D _f = PROCTOR MAX DRY DENSITY, FINE (lbs/ft³)		117.5	D _d = CORRECTED MAX DRY DENSITY (lbs/ft³)			121.8
MC _f = PROCTOR OPTIMUM H ₂ O, FINE (%)		12.7	MC _T = CORRECTED OPTIMUM H ₂ O (%)			11.3
P _C = PERCENT COARSE MATERIAL (%)		12.7				
MC _C = COARSE OPTIMUM H ₂ O (%)		2.0	P _f = PERCENT FINE MATERIAL (%)			87.3
BULK SP. GR.		2.60	k = MASS PER VOLUME (lbs/ft³)			162.2

TESTED BY:

LAB MANAGER: Travis Bair



REMARKS: