STATE OF NEVADA DEPARTMENT OF TRANSPORTATION

MOISTURE-DENSITY DETERMINATION, COMPACTION REPORT - PART 1

Contract No. _____ Date _____

Test Hole No. (code)			
Station			
Distance to Centerline			
Embankment Depth			
Type of Material			
Compaction Equipment			

Sand Volume Data Nev. T102

1. Initial Wt. of Sand	kg (lbs)			
2. Wt. of Residue	kg (lbs)			
3. Wt. of Sand Used, 1 - 2	kg (lbs)			
4. Sand Density	Mg/m^3 (lb/ft^3)			
5. Vol. Hole + Cone + Plate, 3 / 4	m^3 x 1000 (ft^3)			
6. Vol. of Cone + Plate	m^3 x 1000 (ft^3)			
7. Vol. of Hole, 5 - 6	m^3 x 1000 (ft^3)			

Excavated Sample Nev. T102

8. Total Excavated Wet Wt.	kg (lbs)			
9. Wet Wt.	grams			
10. Dry Wt.	grams			
11. Wt. of Water, 9 - 10	grams			
12. % Moisture, (11 / 10)100				
13. Dry Weight of + 3/4				
14. Dry Weight of - 3/4, 10 - 13				
15. Field Wet Density, 8 / 7	Mg/m^3 (lb/ft^3)			
16. Field Dry Density, [15 / (100 + % Moisture)]100	Mg/m^3 (lb/ft^3)			

Data for Calculated Maximum Density Determination Nev. T108

Total Sample Wt. _____

Wt. of + 3/4" _____

% retained on 3/4" _____

Proctor Test No.: _____

		Point 1	*Point 2*	*Point 3*	*Point 4*	*Point 5*
17. Wt. of Mold + Compacted Soil	grams					
18. Wt. of Mold	grams					
19. Wt. of Compacted Soil, 17 - 18	grams					
20. Wet Density, (Line 19 / 453.59) x Factor	lb/ft^3					
21. Dry Density, (Line 20 / (100 + % Moist.))100	lb/ft^3 *					

Note: Mold Volume Factor, F = (1 / Volume)
6" Mold use 13.33

Wet Density = (Wt. of Compacted Soil / 453.59) x Factor
Dry Density = (Wet Density / (100 + % Moisture)) x 100

Moisture Content, Nev. T112 or T108 (Microwave Oven Procedure)

		Point 1	*Point 2*	*Point 3*	*Point 4*	*Point 5*
22. Wet Wt.	grams					
23. Dry Wt.	grams					
24. Wt. of Water, 22 - 23	grams					
25. % Moisture, (24 / 23)100	*					

* Oven-dry density points shall be plotted as ordinates (y-axis) and corresponding moisture contents as absicca (x-axis)

STATE OF NEVADA DEPARTMENT OF TRANSPORTATION

MOISTURE-DENSITY DETERMINATION, COMPACTION REPORT - PART 2

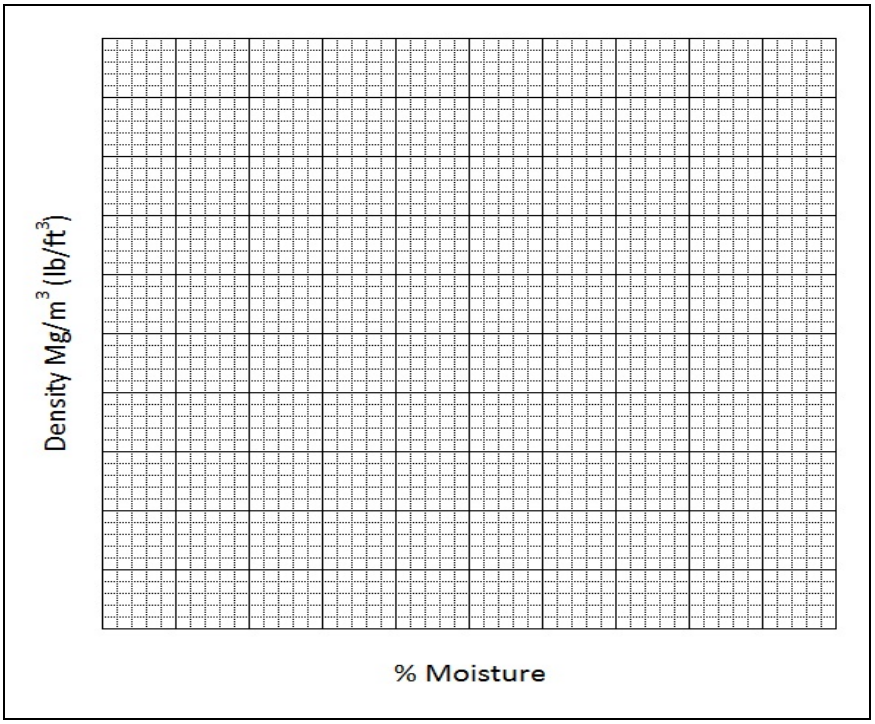
Coarse Aggregate Correction, Nev. T104

Apply if aggregate particles exceed 5% by mass retained on the 19.0 mm (3/4 in.) sieve

26. Wt. of Aggregate = A						
27. Wt. of Pycnometer = p						
28. (Wt. of Pyc. + Water) - p = M		M =		M =		M =
29. (Wt. of Pyc. + Water + Aggregate) - (p + A) = M_1		M_1 =		M_1 =		M_1 =
30. Wt. of Water Recovered from Pyc. = M_2		M_2 =		M_2 =		M_2 =
31. If $M_1 - M_2 \leq 14$ g, G = [A / (M - M_1)] x 62.4						
32. If $M_1 - M_2 > 14$ g, G = [A / [(M - M_1) + 0.5 (M_1 - M_2 - 14 g)]] x 62.4						

33. Decimal Equiv. of % + 3/4", (1 - P), 13 / 10			
34. Decimal Equiv. of % - 3/4", P , 14 / 10			
35. Maximum Dry Density = d (lb/ft³)			
36. Corrected Max. Dry Density D = dG / [(d)(1- P) + (G)(P)] (lb/ft³)			
37. Corrected Optimum Moisture [(1-P) x 2] + [P x "As Plotted" Opt. Moisture]			
38. % Compaction = (16 / 35 or 36)100			

PLOTTED PROCTOR CURVE



Proctor Test No. Reference:

As Plotted

Max. Dry Density (d)	Mg/m³ (lb/ft³)
Optimum Moisture	%

Note: For Metric, lb/ft³ / 62.4 = Mg/m³

Enter When Referencing Curve

Max. Dry Density (d)		Mg/m³ (lb/ft³)
Optimum Moisture		%

REMARKS:

TESTED BY: RESIDENT ENGINEER:

NDOT
040-069
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Distribution: Headquarters Construction, District, Resident Engineer, Contractor