Mappa Inc

1956 Richardson Hwy
North Pole, AK 99705
(907) 488-1266

ASTM D6938 In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)

Project: FTW 405 Range Control
Fort Wainwright, AK
Client: Cornerstone General Contractors

Project #: 2025-091
Date: June 2, 2026
Area Tested: Centerline Rd/ Conduit Trench

Material / Source:
Silty sand/ Range Pit 110.5
Pitrun/ West Pile 143.8

Gauge: Instrotek 3500 **Ser: #** 1748
Operator: John Trush

Test #	Soil Type	Test Depth(in)	Lift Elev	Location	Wet Density	% Moist.	Dry Density	Max Density	Percent Density	Required Density
1	silty sand	8"	sub grade	Center line rd backfill STA: 28+00	126.8	14.7	110.5	110.5	100.0%	92%
2	silty sand	8"	sub grade	Center line rd backfill STA: 30+96	118.5	13.3	104.6	110.5	94.7%	92%
3	pitrun	8"	sub grade	Center line rd backfill STA: 00+30	145.4	4.8	138.7	143.8	96.5%	95%
4	pitrun	8"	sub grade	Center line rd backfill STA: 03+26	149.7	6.5	140.6	143.8	97.7%	95%
5	pitrun	8"	sub grade	Center line rd backfill STA: 06+22	144.0	4.9	137.3	143.8	95.5%	95%
6	pitrun	8"	sub grade	Center line rd backfill STA: 09+18	145.9	4.0	140.3	143.8	97.6%	95%
7	pitrun	6"	1	Conduit trench backfill (see map)	147.1	7.6	136.7	143.8	95.1%	95%
8	pitrun	6"	1	Conduit trench backfill (see map)	148.3	7.8	137.6	143.8	95.7%	95%
9	pitrun	6"	2	Conduit trench backfill (see map)	147.8	6.2	139.2	143.8	96.8%	95%
10	pitrun	6"	2	Conduit trench backfill (see map)	148.1	7.0	138.4	143.8	96.3%	95%
11	pitrun	6"	3	Conduit trench backfill (see map)	146.7	6.5	137.7	143.8	95.8%	95%
12	pitrun	6"	3	Conduit trench backfill (see map)	146.8	6.2	138.2	143.8	96.1%	95%

Approved By: *Stefan Mack* Stefan Mack PE, Lab Manager

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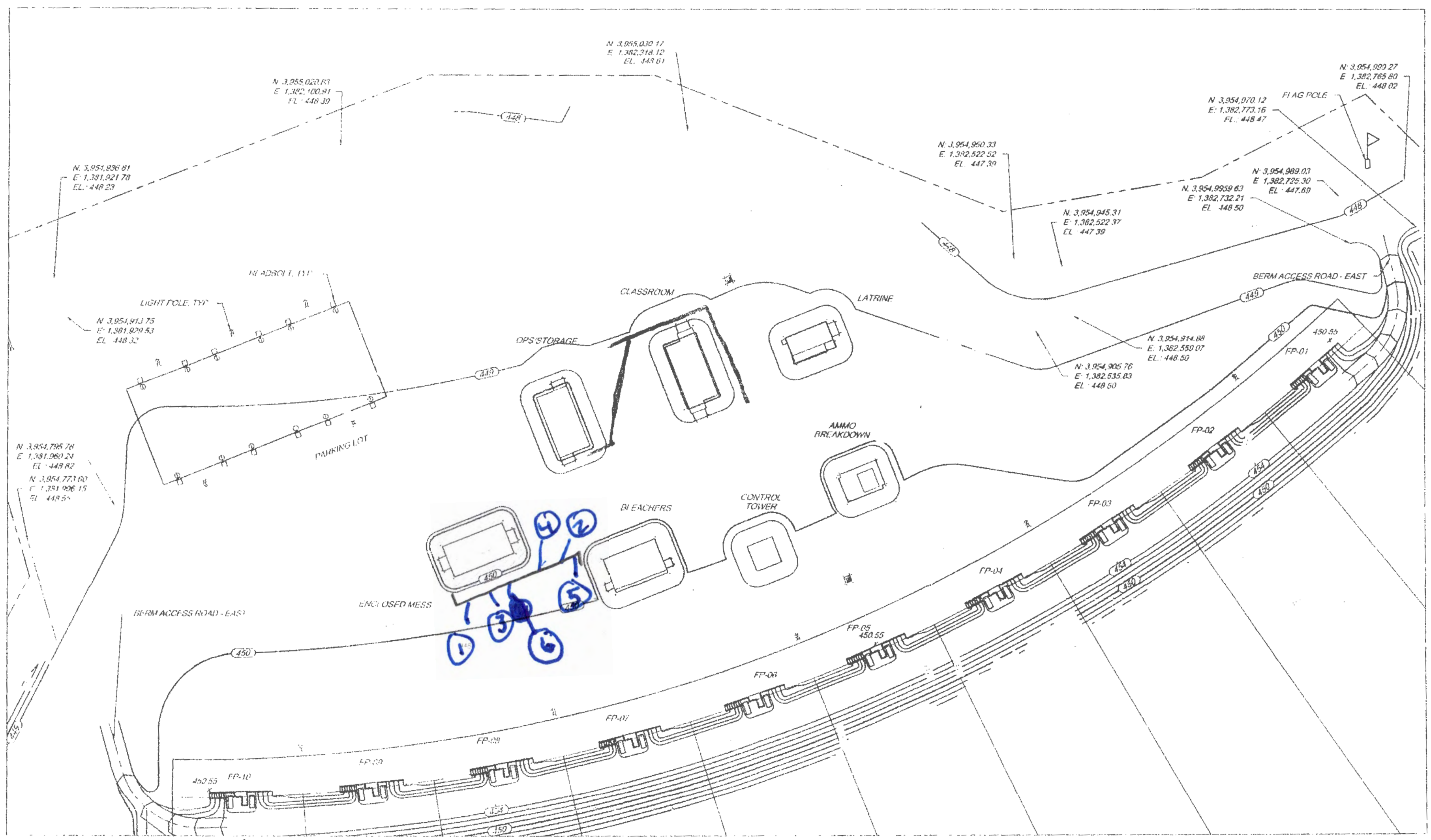
Test #	Soil Type	Test Depth(in)	Lift Elev	Location	Wet Density	% Moist.	Dry Density	Max Density	Percent Density	Required Density
13	silty sand	8"	sub grade	Center line rd backfill STA: 33+92	125.4	13.8	110.2	110.5	99.7%	92%
14	silty sand	8"	sub grade	Center line rd backfill STA: 36+88	120.0	13.7	105.5	110.5	95.5%	92%
15	silty sand	8"	sub grade	Center line rd backfill STA: 39+84	120.7	15.6	104.4	110.5	94.5%	92%
16	pitrun	8"	sub grade	Center line rd backfill STA: 20+04	143.9	3.9	138.5	143.8	96.3%	95%
17	pitrun	8"	sub grade	Center line rd backfill STA: 17+08	146.9	4.9	140.0	143.8	97.4%	95%
18	pitrun	8"	sub grade	Center line rd backfill STA: 14+12	146.3	5.1	139.2	143.8	96.8%	95%
19	pitrun	8"	sub grade	Center line rd backfill STA: 11+78	145.3	4.0	139.7	143.8	97.2%	95%

Approved By: *Stefan Mack* Stefan Mack PE, Lab Manager



Cornerstone / FTW 304
Conduit Trenche
L.F. 1,2,3
A.I. 06/02/26
Tech. JT

PROPOSED LEGEND

OVERLAY PAVING

NEW PAVING

N

GRAPHIC SCALE

30' 15' 0 30' 60'

SCALE: 1" = 30'-0"

NOTES

1. SEE V-001 FOR EXISTING LEGEND.
2. SEE C-001 FOR PROPOSED LEGEND.
3. SEE SHEET ES401 FOR HEADBOLT & LIGHT POLE LOCATIONS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BRUCE A. BRADLEY ON 27 AUGUST 2024

US Army Corps of Engineers® Alaska District

MARK	DESCRIPTION	DATE

U.S. ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

POLY, INC.
1925 HEADLAND AVENUE
DOTHAN, AL 36303
WWW.POLYINC.COM / 334-793-4700

DESIGNED BY: K. SANDERS
DRAWN BY: B. JOHNSON
CHECKED BY: J. HOLMES
SUBMITTED BY: B. BRADLEY
SIZE: ANSI D
FILE:
ISSUE DATE:
SOLICITATION NO.:
CONTRACT NO.:
DRAWING #:

FORT WAINWRIGHT, ALASKA
MULTIPURPOSE MACHINE GUN RANGE (MPMG)

ROCA PAVING PLAN

REFERENCE NUMBER:
CG404

SHEET OF

AWARD