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

Project: FTW484 Access Control Lighting & Generators
Fort Wainwright , AK
Client: Eklutna Construction & Maintenance

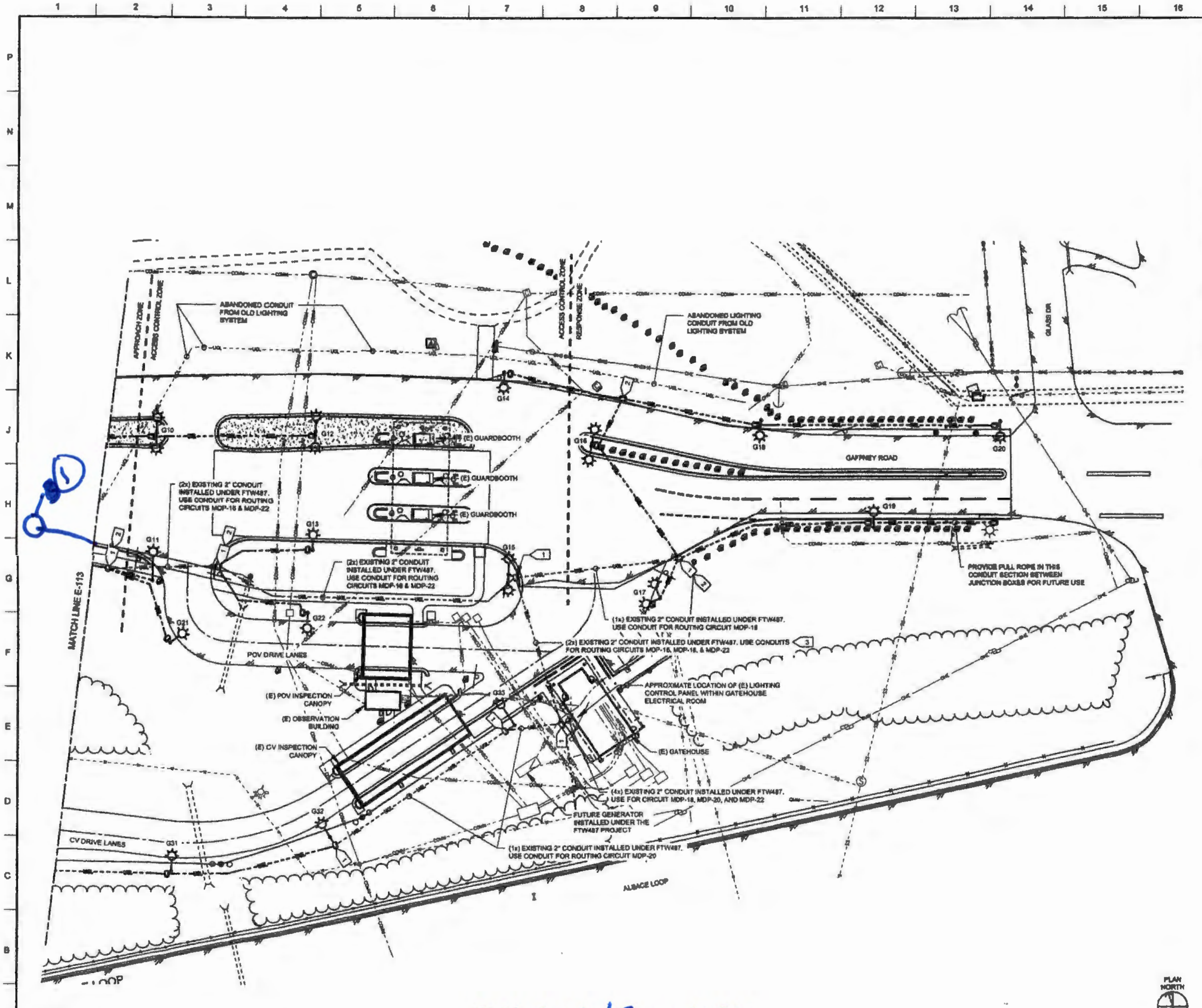
Project #: 2026-001
Date: June 16, 2026
Area Tested: Demo Light Pole Base Backfill

Material / Source:
Screened pitrun/ GNI Metro 141.2

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	SC pitrun	8"	3	Demo Light pole base backfill (see map)	144.0	4.2	138.2	141.2	97.9%	95%

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


ABANDONED CONDUIT FROM OLD LIGHTING SYSTEM
ABANDONED LIGHTING CONDUIT FROM OLD LIGHTING SYSTEM
APPROACH ZONE
ACCESS CONTROL ZONE
RESPONSE ZONE
GLASS DR
(E) GUARDBOOTH
GAFFNEY ROAD
(2x) EXISTING 2" CONDUIT INSTALLED UNDER FTW487. USE CONDUIT FOR ROUTING CIRCUITS MDP-16 & MDP-22
(2x) EXISTING 2" CONDUIT INSTALLED UNDER FTW487. USE CONDUIT FOR ROUTING CIRCUITS MDP-16 & MDP-22
PROVIDE PULL ROPE IN THIS CONDUIT SECTION BETWEEN JUNCTION BOXES FOR FUTURE USE
(1x) EXISTING 2" CONDUIT INSTALLED UNDER FTW487. USE CONDUIT FOR ROUTING CIRCUIT MDP-16
(2x) EXISTING 2" CONDUIT INSTALLED UNDER FTW487. USE CONDUITS FOR ROUTING CIRCUITS MDP-16, MDP-18, & MDP-22
MATCH LINE E-113
POV DRIVE LANES
APPROXIMATE LOCATION OF (E) LIGHTING CONTROL PANEL WITHIN GATEHOUSE ELECTRICAL ROOM
(E) POV INSPECTION CANOPY
(E) OBSERVATION BUILDING
(E) CV INSPECTION CANOPY
(E) GATEHOUSE
(4x) EXISTING 2" CONDUIT INSTALLED UNDER FTW487. USE FOR CIRCUIT MDP-18, MDP-20, AND MDP-22
FUTURE GENERATOR INSTALLED UNDER THE FTW487 PROJECT
(1x) EXISTING 2" CONDUIT INSTALLED UNDER FTW487. USE CONDUIT FOR ROUTING CIRCUIT MDP-20
CV DRIVE LANES
ALBACE LOOP
PLAN NORTH
GRAPHIC SCALE: 1" = 30'

A1 GAFFNEY SITE - RENOVATION PLAN 2

SCALE: 1" = 30'-0"

GENERAL SHEET NOTES

A. NO BELOW GRADE UTILITY LINES (LIGHTING, POWER, NOR COMMUNICATIONS) HAVE BEEN LOCATED ANYWHERE ALONG THE PROJECT CORRIDOR. ALL EXISTING LINES SHOWN ARE APPROXIMATE ONLY. EXISTING TO REMAIN BELOW GRADE ITEMS SHALL BE PROTECTED IN PLACE DURING WORK.
   [A] WHERE NEW ITEMS ARE INSTALLED AT OR NEAR EXISTING TO REMAIN ITEMS, THE CONTRACTOR SHALL FIELD LOCATE OR CONTACT RESPECTIVE UTILITY ENTITIES TO LOCATE THE EXISTING ITEMS.
   [B] WHERE NEW ITEMS CONFLICT WITH EXISTINGT TO REMAIN INFRASTRUCTURE, ADJUST LOCATIONS OF NEW ITEMS / INFRASTRUCTURE OR OTHERWISE COORDINATE WITH CONTRACTING OFFICER FOR FURTHER DIRECTION.

B. NEW UNDERGROUND LIGHTING CIRCUITS "UGL" SHALL BE A MINIMUM (3c) #8 AWG CABLE WITH #8 GND, ROUTED WITHIN A MINIMUM 2" CONDUIT. ONE CONDUCTOR IN THE CABLE WILL BE "SPARE". LIGHTING CIRCUIT SHALL ROUTE BETWEEN JUNCTION BOXES AND ADJACENT LIGHT POLE BASES TO THE FUSED WYE-TAP QUICK DISCONNECT. PROVIDE (2) #10 AWG, #10 EGC FROM QUICK DISCONNECT TO FIXTURE(S) AT TOP OF THE POLE. SEE SHEET E-502.

C. THE LIGHTING CIRCUIT SHALL REMAIN UNSPLICED WITHIN JUNCTION BOXES, UNLESS SPECIFICALLY ANNOTATED WITH A SPECIFIC SHEET NOTE #2.

D. NEW CONDUITS WITHIN 6-FEET OF THE ROADWAY SHALL BE RMC.

E. FLAGPOLE LIGHTING CIRCUIT SHALL BE A MINIMUM (3c) #8 AWG CABLE WITH #10 GND, ROUTED WITHIN A MINIMUM 2" CONDUIT.

F. THE "ABANDONED LIGHTING CONDUIT" LINES ARE APPROXIMATE ONLY AND LABELED WITHOUT HAVING ACTUAL LOCATES. ADDITIONAL CONDUITS MAY BE ABANDONED IF THEY ARE NOT IN CONFLICT WITH THE NEW SYSTEM AND SOME CONDUITS LABELED AS ABANDONED MAY NEED TO BE PARTIALLY DEMOLISHED. THE CONTRACTOR SHALL REDLINE AND DOCUMENT ABANDONED LIGHTING CONDUITS.

SPECIFIC SHEET NOTES

1. JUNCTION BOX AND UNDERGROUND CONDUITS WERE INSTALLED UNDER FTW487 FOR LIGHTING SYSTEMS. PROTECT AND USE FOR THIS PROJECT.
2. PROVIDE RESIN-BASED, SUBMERSIBLE RATED, SPLICE KIT IN JUNCTION BOX FOR ROUTING CIRCUIT MULTIPLE DIRECTIONS. SEE SHEET E-502.
3. CIRCUITS MDP-16 & MDP-22 MAY SHARE 2" CONDUIT UNDER THIS SECTION OF ACCESS CONTROL DUE TO LIMITED QUANTITY OF CONDUITS.

US Army Corps of Engineers

US ARMY CORPS OF ENGINEERS ALASKA DISTRICT

FORT WAINWRIGHT, ALASKA
ACCESS CONTROL LIGHTING AND GENERATORS
GAFFNEY SITE - RENOVATION PLAN 2

SHEET ID
E-114

EKLUTNA / FTW 484
06/16/26 JT
Demo Light Pole Base Lift 3