Federal Aviation Administration – William J. Hughes Technical Center

National Airport Pavement Test Facility (NAPTF)

Contract No: 692M15-20-D-00004

ARA TO 005 Structural Airport Pavement NDT and Evaluation

5.1.1.2 CC9 NDT Data Collection (Task 4.1.1.2)

CC9 NDT Survey Notes

Device: GPR – NDT Van

Survey: Trafficking 20220221

Date: 3/4/2022

Operators: Douglas Evans, Sean Cullen

Folder Name: 20220304 GPR Van CC9 Traffic Raw Data

File Formats: DZT, DZX

Time: NA

**General Notes**

* Six (6) longitudinal survey lines collected at -17.25, -15.00, -12.75, +12.75, +15.00, +17.25 ft. offsets while traveling from Station 0+00 to Station 3+00 (West to East).
* Metal plate calibration performed before and after testing. No bounce test performed, as per GSSI recommendations.
* Data collected simultaneously with both 400 MHz ground-coupled and 2.0 GHz air-coupled antennas.
* 400 MHz Range: 25 ns, 2.0 GHz Range: 14 ns (See 08/06/2021 notes)
* Begin with air-coupled antenna centered on transverse blue line at Station 0+00.
* Data for both antennas are contained in the same file.
* Each survey has 2 files, one each in DZT and DZX formats.

Test File File Name

Metal Plate Pre-Test 279, 280

Offset -17.25’ (North) 281

Offset -15.00’ (North) 282

Offset -12.75’ (North) 283

Offset +12.75’ (South) 284

Offset +15.00’ (South) 285

Offset +17.25’ (South) 286

Metal Plate Post-Test 287

**Survey Notes**

* Dataset 20220214 includes 7 days of trafficking over 2 weeks (2/22/2022 – 3/2/2022).
* One blue GPR cable has nick in sheathing and is temporarily repaired with electrical tape (observed and repaired prior to ARA taking over operations on 07/01/21). Should be replaced.
* File 279 metal plate pre-test should be discarded. The CC9 radar config was not loaded when it was run. File 280 is correct.
* Between files 282 and 283, the o-scope signals looked incorrect. Re-loading the radar config fixed this issue.