REFLECTIVE CRACKING PHASE VI
AS-BUILT DRAWINGS
NATIONAL AIRPORT PAVEMENT TESTING FACILITY
WILLIAM J. HUGHES TECHNICAL CENTER
ATLANTIC CITY AIRPORT, NEW JERSEY
06/10/2019

NEW JERSEY STATE MAP N.T.S.

VICINITY MAP N.T.S.

PROJECT LOCATION MAP N.T.S.

AERIAL VIEW OF THE NAPTF BUILDING N.T.S.

NAPTF BUILDING KEY PLAN

INDEX OF DRAWINGS

SHEET # SHEET TITLE LAST REVISED
1 OF 1 COVER SHEET 06/10/2019
2 OF 1 SITE ACCESS, HAULING AND STAGING AREA PLAN 06/10/2019
3 OF 1 NAPTF BUILDING ACCESS AND CONTROL NETWORK PLAN 06/10/2019
4 OF 1 EXISTING CONDITIONS PLAN 06/10/2019
5 OF 1 DEMOLITION PLAN 06/10/2019
6 OF 1 CONSTRUCTION PLAN 06/10/2019
7 OF 1 INSTRUMENTATION PLAN 06/10/2019
8 OF 1 INSTRUMENTATION PLAN SIDE VIEWS 06/10/2019

PREPARED BY:
GENERAL DYNAMICS
Information Technology
200 DECADON DRIVE
Egg Harbor Township
New Jersey 08234
PHONE: (609) 677-6543
NOTES:
1. CONTRACTORS ACCESS THROUGH GATE AVAILABLE BY ADVANCED REQUEST.
2. LOCATION OF THE STAGING AREA SHOWN IS APPROXIMATE. THE EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.
3. SEE SHEET NUMBER 3 FOR INSIDE THE BUILDING STAGING AREA LOCATION AND RESTRICTIONS.

GENERAL DYNAMICS
Information Technology
200 DECADON DRIVE
Egg Harbor Township, NJ 08234
Phone: (609) 677-8543

NATIONAL AIRPORT PAVEMENT TEST FACILITY
200 DECADON DRIVE
Egg Harbor Township, NJ 08234

PROJECT NO.
PROJECT NAME: REFLECTIVE CRACKING PHASE VI
SHEET: AASHTO D-33
SCALE: AS NOTED
SHEET 2 OF 8
REFLECTIVE CRACKING RIG PLAN VIEW

SECTION A-A
SECTION C-C

EXISTING TEST AREA UNDERLAY DETAIL

LEGEND:
- P-501 CONCRETE PAVEMENT (PORTLAND CEMENT CONCRETE)
- DENSE GRADED AGGREGATE
- SUBGRADE

REFLECTIVE CRACKING TEST AREA
LOOKING EAST VIEW

REFLECTIVE CRACKING TEST AREA
LOOKING WEST VIEW

N.T.S.
EXISTING NORTH STRIP (SEE NOTE 1)

EXISTING SOUTH STRIP (SEE NOTE 1)

EXISTING 22.5' LONG X 12.6' WIDE SAMPLING AREA (SEE SHEET 4 FOR DETAILS)

SECTION A-A (NORTH STRIP)
HORIZONTAL SCALE: 1"=3'
VERTICAL SCALE: 1"=0.3'

SECTION B-B (SOUTH STRIP)
HORIZONTAL SCALE: 1"=3'
VERTICAL SCALE: 1"=0.3'

SECTION C-C
HORIZONTAL SCALE: 1"=4'
VERTICAL SCALE: 1"=0.3'

NOTES:
1. P-401 TO BE MILLED DOWN TO THE CONCRETE SURFACE.

LEGEND:
- PROPOSED P-401 PLANT MIX BITUMINOUS PAVEMENT

NOTE: SEE SHEET 4 FOR EXISTING TEST RIG DETAILS
EXISTING 22.5' LONG X 12.6' WIDE SAMPLING AREA (SEE SHEET 4 FOR DETAILS)

PROPOSED PAVEMENT SAMPLING THICKNESS TO MATCH TEST AREA DESIGN THICKNESS

PROPOSED TEMPORARY BRIDGING TO PREVENT AGGREGATES FROM ENTERING THE GAP.
TO BE REMOVED POST-PAVING

P-401 (SEE NOTE 1 AND NOTE 2)
PEEL OFF OPENING GASKET TO BE INSTALLED BY THE ENGINEER

EXISTING TEST AREA UNDERLAY (SEE DETAIL ON SHEET 4)

EXISTING PROTECTIVE BRIDGING TO REMAIN

FORM SEEN TO PROVIDE CLEAR VERTICAL FACIA, NOT TO BE SAW CUT (TYPICAL FOR ALL)

STRAIGHT ASPHALT BINDER (I.E., PG 64-22) SHALL BE APPLIED BETWEEN LIFTS AND ON TOP OF THE CONCRETE AS A TACK COAT, AT AN APPLICATION RATE OF 0.04 – 0.06 GAL/YD².

NOTE: SEE SHEET 4 FOR EXISTING TEST RIG DETAILS
PHASE VI INSTRUMENTATION

<table>
<thead>
<tr>
<th>SENSOR</th>
<th>NO.</th>
<th>CODE</th>
<th>Z</th>
<th>N</th>
<th>X</th>
<th>LOCATION DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>LVDT1-SW</td>
<td>-10</td>
<td>-5</td>
<td>0</td>
<td>X</td>
<td>X</td>
<td>Mahomet crack strip</td>
</tr>
<tr>
<td>LVDT2-SE</td>
<td>30</td>
<td>5</td>
<td>0</td>
<td>X</td>
<td>X</td>
<td>Mahomet crack strip</td>
</tr>
<tr>
<td>LVDT2-NE</td>
<td>30</td>
<td>5</td>
<td>0</td>
<td>X</td>
<td>X</td>
<td>Mahomet crack strip</td>
</tr>
<tr>
<td>LVDT2-NW</td>
<td>-10</td>
<td>-5</td>
<td>0</td>
<td>X</td>
<td>X</td>
<td>Mahomet crack strip</td>
</tr>
<tr>
<td>LVDT1-NW</td>
<td>-10</td>
<td>-5</td>
<td>0</td>
<td>X</td>
<td>X</td>
<td>Mahomet crack strip</td>
</tr>
</tbody>
</table>

NOTES:
1. Z - VERTICAL DISTANCE IN INCHES MEASURED FROM BOTTOM OF ASPHALT LAYER IN UPWARD DIRECTION.

INSTRUMENT KEY
- EG - EMBEDDED DYNATEST STRAIN GAGE
- LVDT - LINEAR VARIABLE DISPLACEMENT TRANSDUCER
- JDG - JOINT DISPLACEMENT GAGE
- SG - SURFACE STRAIN GAGE
- POT - POTENTIOMETER
- T - THERMOCOUPLE
- ECS - EDDY CURRENT SENSOR

NAPTF REFLECTIVE CRACKING
PHASE VI AS-BUILT DRAWINGS
INSTRUMENTATION PLAN

GENERAL DYNAMICS
Information Technology

NATIONAL AEROSPACE PAVEMENT TEST FACILITY
ATLANTIC CITY
NEW JERSEY 08234

200 DECADON DRIVE
EGG HARBOR TOWNSHIP
NEW JERSEY 08234
PHONE: (609) 677-8543

GENERAL DYNAMICS
Information Technology

NATIONAL AEROSPACE PAVEMENT TEST FACILITY
ATLANTIC CITY
NEW JERSEY 08234

200 DECADON DRIVE
EGG HARBOR TOWNSHIP
NEW JERSEY 08234
PHONE: (609) 677-8543

PHASE VI AS-BUILT DRAWINGS
INSTRUMENTATION PLAN

CADD FILE: REF-CRACK-PHASE-VI-AS-BUILT.DWG

DATE: 06/10/2017
NAME: J.S. / M.M.
PROJECT NO: 682-0000
SCALE: AS NOTED
SHEET 7 OF 8

FAA APPROVAL DATE:

DRAWN BY:
CHECKED BY:

REVISIONS DATE
NO. NAME
1. H.YIN 06/10/2019
PLAN VIEW

SCALE: 1"=6'

SIDE VIEW A-A (NORTH STRIP)

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=0.2'

SIDE VIEW B-B (SOUTH STRIP)

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=0.2'

LEGEND:
P-401 PLANT MIX BITUMINOUS PAVEMENT

SIDE VIEW C-C

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=0.2'

INSTRUMENT KEY

EG - EMBEDDED DYNATEST STRAIN GAGE
LVDT - LINEAR VARIABLE DISPLACEMENT TRANSDUCER
JDG - JOINT DISPLACEMENT GAGE
SG - SURFACE STRAIN GAGE
POT - POTENTIOMETER
T - THERMOCOUPLE
ECS - EDDY CURRENT SENSOR

GENERAL DYNAMICS Information Technology

PHASE VI AS-BUILT DRAWINGS
INSTRUMENTATION PLAN SIDE VIEWS

NAPT REFLECTIVE CRACKING
FOR

NATIONAL AIRPORT PAVEMENT TEST FACILITY
ATLANTIC CITY AIRPORT
NEW JERSEY 08234

200 DECADON DRIVE
EGG HARBOR TOWNSHIP
NEW JERSEY 08234
PHONE: (609) 677-8543

CAD FILE: REFL-CRACK-PHASE-INSTRAVBL-DWG

DATE: 06/10/2019

NAME: H. YIN

SIGNATURE: J.S. / M.M.