



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

## Construction Progress and Inspection Report

### NAPMRC

Inspection Date

11/14/2018

Project Name

TO#15 Ref. Crack.  
Outdoor-Phase 1

Contractor & # of Personnel  
AE Stone 1Labor+1Operator

Contractor & # of Personnel  
Rodriguez 1 surveyor

Contractor & # of Personnel  
GDIT 4 tech.+1Tech. Lead  
Craig Testing 1 person

Contractor & # of Personnel  
Gemini 1 person

#### Equipment On-Site

- 1) Mini Excavator
- 2) LWD testing apparatus
- 3) D-PSPA testing apparatus
- 4) Work Station Survey Device
- 5) Construction Hand Tools

Start Time – 7:30 AM  
Stop Time – 4:30 PM

Temperature  
44 deg. F. high  
32deg. F. Low

Humidity  
48%

Conditions  
Partly Cloudy 12 mph NW  
wind

#### Site Activities

- 1) Digging instrumentation trench to DAQ
- 2) Installing conduit under the concrete slab section
- 3) Running LWD and D-PSPA tests
- 4) Nuclear Field Density Test Machine
- 5) Covering with plastic tarp and hold it in place with sand/like mat. Bags to protect the site from rain and weather conditions.

#### Materials Delivered

N/A

#### Materials Removed

N/A

#### Laboratory and Field Testing Performed

LWD  
D-PSPA  
Nuclear FD

#### Meetings/Discussions

The GDIT Instrumentation team was discussing how they are going to install the conduits under the concrete Slab

1. Discussed how to maintain the conduits spacing in the trench? – Tie them with a wire to a steel rode installed 1' to 1.5' in ground or use conduit spacers. They elected to use spacers.

#### Safety Concerns

N/A

Problem Areas/Additional Comments

Due to the compaction and vibration in lanes 1+2 for TO#26, the surveyor was not able to carry on the survey using the work station (vibration throws the machine accuracy off). Due to that he will come tomorrow if not raining or Friday to survey the form work and location and provide offsets to the concrete subcontractor.

**INSPECTOR OR REPRESENTATIVE**

Date 11/14/2018	Typed or Printed Name and Title  Khaled Hamad	Signature  <i>Khaled Hamad</i>
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**Federal Aviation  
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## Construction Progress and Inspection Report

**NAPMRC**

Inspection Date  
11/15/2018

Project Name

TO#15 Ref. Crack.-  
Outdoor/Phase 1

Contractor & # of Personnel

Equipment On-Site

Start Time -  
Stop Time -

Temperature  
High 47 deg. F  
Low 41 deg. F

Humidity  
85%

Conditions

Rain Precip Acc: 1.639"

Site Activities

**No Activities**

Materials Delivered

Materials Removed

Laboratory and Field Testing Performed

Meetings/Discussions

Safety Concerns

Problem Areas/Additional Comments

### INSPECTOR OR REPRESENTATIVE

Date

Typed or Printed Name and Title

Signature

Khaled Hamad

*Khaled Hamad*



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

## Construction Progress and Inspection Report

**NAPMRC**

Inspection Date  
11/16/2018

Project Name  
TO#15 Ref. Crack.-  
outdoor-phase 1

Contractor & # of Personnel  
Rodriguez-Survey-1  
Surveyor

Contractor & # of Personnel  
GDIT- 3Labor+1 Safety

Contractor & # of Personnel

Contractor & # of Personnel

Equipment On-Site  
-Total Station  
-Hand tools

Start Time – 7:30am,  
Stop Time – 4:30 pm

Temperature  
High 56 deg. F  
Low 36 deg F

Humidity  
87%

Conditions  
Cloudy

Site Activities n/A

Materials Delivered  
Na

Materials Removed  
na

Laboratory and Field Testing Performed  
na

Meetings/Discussions  
na

Safety Concerns  
na

Problem Areas/Additional Comments

Trench was dug 1 ft off center, it was filled back in 2 layers tamped and compacted as per spec. to be dug in the right location next week

### INSPECTOR OR REPRESENTATIVE

Date

Typed or Printed Name and Title  
Khaled Hamad-GDIT Construction Engineer

Signature

*Khaled Hamad*



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

## Construction Progress and Inspection Report

### NAPMRC

Inspection Date

11/19/2018

Project Name

TO#15 Ref. Crack.  
Outdoor-Phase 1

Contractor & # of Personnel  
AE Stone 1Labor+1Operator

Contractor & # of Personnel  
Rodriguez 1 surveyor

Contractor & # of Personnel  
GDIT 4 tech.+1Tech. Lead  
Craig Testing 1 person

Contractor & # of Personnel  
Gemini 1 person

#### Equipment On-Site

- 1) Mini Excavator
- 2) Backhoe
- 3) Plate Vibrator
- 4) Work Station Survey Device
- 5) Construction Hand Tools

Start Time – 7:30 AM  
Stop Time – 4:30 PM

Temperature  
59 deg. F. high  
35deg. F. Low

Humidity  
80%

Conditions  
Partly Cloudy

#### Site Activities

- 1) Digging instrumentation trench to DAQ
- 2) Installing conduit under the concrete slab section,
- 3) Covering with plastic tarp and hold it in place with sand/like mat. Bags to protect the site from rain and weather conditions.

#### Materials Delivered

N/A

#### Materials Removed

N/A

#### Laboratory and Field Testing Performed

N/A

#### Meetings/Discussions

Discussed with FAA how we installed the conduits. They requested FD test on the trench; they requested the field density to be between 90%-95%.

#### Safety Concerns

N/A

#### Problem Areas/Additional Comments

We have not used brackets to install the conduits but our procedure was based on L-108-3.3 b and L-110-3.5. This is not an underground power cable or an underground electric duct bank therefore conduit bracket were not used.

**INSPECTOR OR REPRESENTATIVE**

Date  
11/19/2018

Typed or Printed Name and Title  
  
Khaled Hamad

Signature

*Khaled Hamad*













U.S. Department  
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**Federal Aviation  
Administration**

## Construction Progress and Inspection Report

**NAPMRC**

Inspection Date  
11/20/2018

Project Name  
TO#15-Ref.  
Crack\_Outdoor\_Phase1

Contractor & # of Personnel AE Stone 1Lbor+1Operator	Contractor & # of Personnel	Contractor & # of Personnel GDIT 4 tech.+1Tech. Lead Craig Testing 1 person	Contractor & # of Personnel
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Equipment On-Site  
1) Mini Excavator  
2) Nuclear Field Density  
3) Plate Viabrator  
4) Construction Hand Tools

Start Time – 7:30 AM Stop Time – 4:30 PM	Temperature High 51 deg. F Low 28 deg. F	Humidity 56%	Conditions Cloudy wind gusts 14mph
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Site Activities  
1 )Nuclear Field Density on to the trench. STA 0+77.5 offsets 3ft, 7.5ft, 12ft  
2) Digging instrumentation trench out  
3) Remove conduit from trench  
4) Widen trench, total width is 40in since the chairs are 33in wide for the 6 conduits.  
5)Compacted the bottom of the trench with a plate viabrator, and hand tamper

Materials Delivered  
N/A

Materials Removed  
P-154 from trench

Laboratory and Field Testing Performed  
Old trench (Demolished) field density

Meetings/Discussions  
Met with FAA team to discuss the trench the decision was made to consider the instrumentation conduit as an electric conduit, bury it 17in from top of the concrete slab and fill it with concrete.

Safety Concerns  
N/A

Problem Areas/Additional Comments  
N/A

**INSPECTOR OR REPRESENTATIVE**

Date 11/21/2018	Typed or Printed Name and Title Khaled Hamad, Sr. Civil Engineer/Construction	Signature <i>K. Khaled Hamad</i>
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2-0-10-11  
500



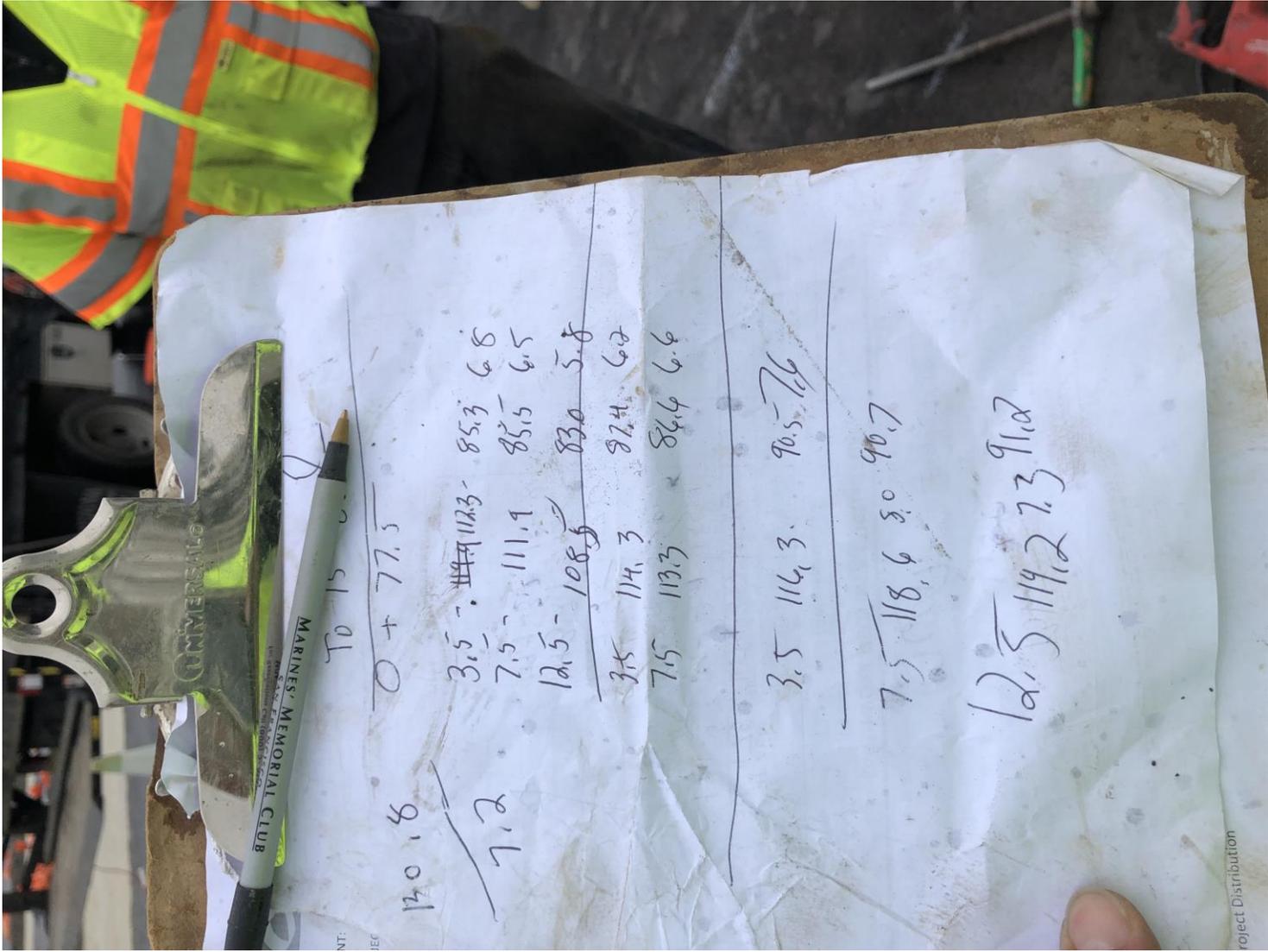












MARINES' MEMORIAL CLUB

To 15 0.

0 + 77.5

120.18

3.5 - ~~112.3~~ 85.3 6.8

7.5 - 111.9 85.5 6.5

12.5 - 108.5 83.0 5.8

3.5 114.3 87.4 6.2

7.5 113.3 84.4 6.6

3.5 114.3 90.5 7.6

7.5 118.6 80 90.7

12.5 119.2 73 91.2

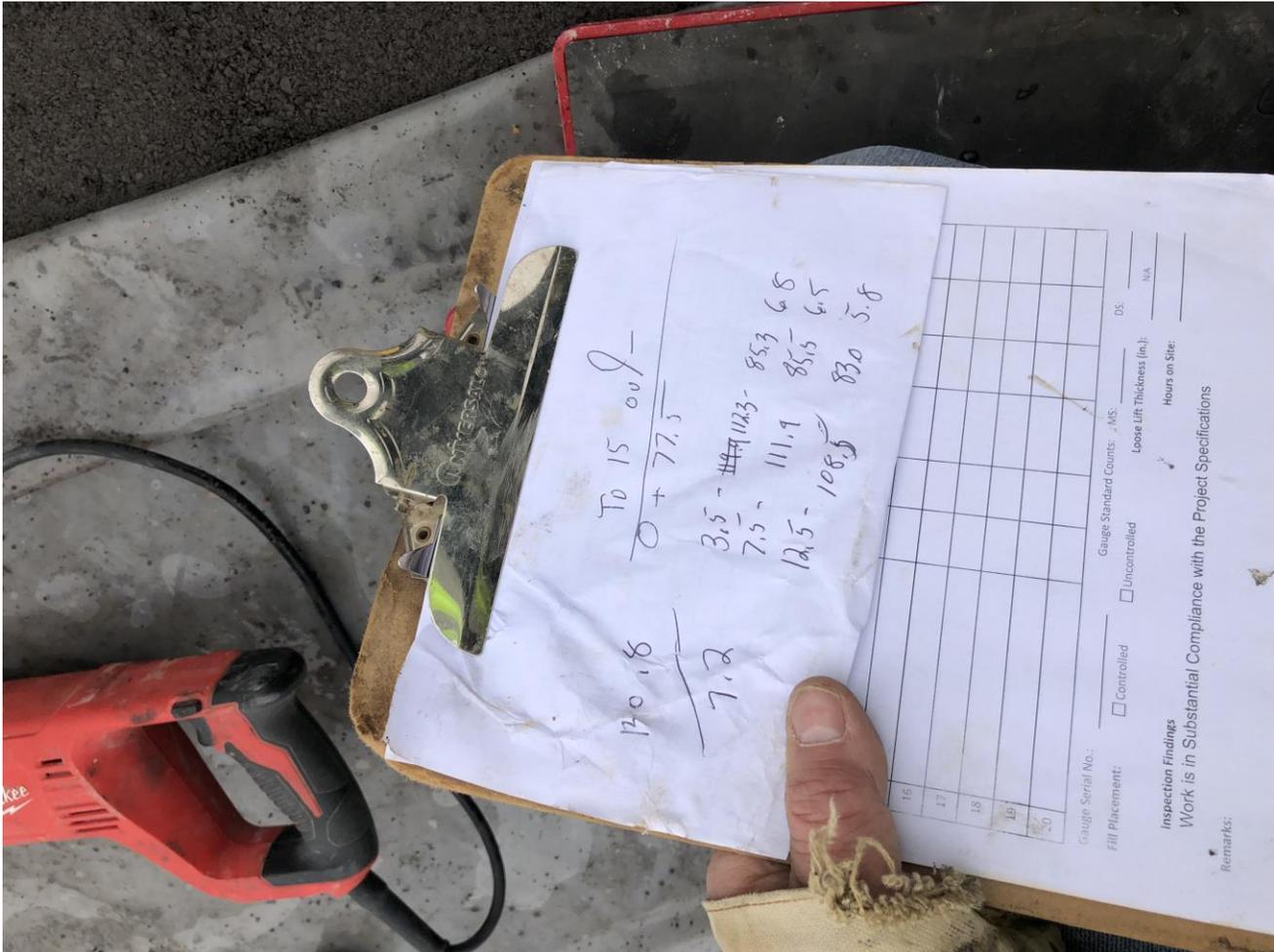












T0 15 009 -  
0 + 77.5

120.18  
7.2

3.5 - 1123 - 853 68  
7.5 - 111.9 855 65  
12.5 - 108.5 830 5.8

16									
17									
18									
19									
20									

Gauge Serial No. \_\_\_\_\_ Gauge Standard Counts: MS \_\_\_\_\_ DS \_\_\_\_\_  
 Fill Placement:  Controlled  Uncontrolled  
 Loose Lift Thickness (in.): \_\_\_\_\_  
 Hours on Site: \_\_\_\_\_

**Inspection Findings**  
 Work is in Substantial Compliance with the Project Specifications

Remarks:



























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Administration**

## Construction Progress and Inspection Report

**NAPMRC**

Inspection Date  
11/21/2018

Project Name  
TO#15-Ref.  
Crack\_Outdoor\_Phase1

Contractor & # of Personnel			
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Equipment On-Site

Start Time - Stop Time -	Temperature High 49 deg. F Low 20 deg. F	Humidity 55%	Conditions Clear. Wind Gusts 9mph
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Site Activities  
**NO ACTIVITIES**

Materials Delivered

Materials Removed

Laboratory and Field Testing Performed

Meetings/Discussions

Safety Concerns

Problem Areas/Additional Comments

### INSPECTOR OR REPRESENTATIVE

Date 11/21/2018	Typed or Printed Name and Title Khaled Hamad, Sr. Civil Engineer/Construction	Signature <i>Khaled Hamad</i>
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U.S. Department  
of Transportation  
**Federal Aviation  
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## Construction Progress and Inspection Report

**NAPMRC**

Inspection Date

11/26/2018

Project Name

TO#15 Ref. Crack.\_Phase  
1\_Outdoor

Contractor & # of Personnel  
GDIT 3 labor

Contractor & # of Personnel

Contractor & # of Personnel

Contractor & # of Personnel

Equipment On-Site  
Sump Pump x 2  
Hp pump x 1

Start Time – 7:30AM  
Stop Time – 11:00 AM

Temperature  
High temp. 56 deg. F  
Low temp. 35 deg. F

Humidity  
100%

Conditions  
Rainy. Cloud cover 100%.  
Wind Gusts 29mph

Site Activities  
Pumped water from trench and site area.  
**No Activities**

Materials Delivered

Materials Removed

Laboratory and Field Testing Performed

Meetings/Discussions

Safety Concerns

Problem Areas/Additional Comments

### INSPECTOR OR REPRESENTATIVE

Date  
11/26/2018

Typed or Printed Name and Title  
Khaled Hamad

Signature  
*Khaled Hamad*



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

## Construction Progress and Inspection Report

**NAPMRC**

Inspection Date

11/28/2018

Project Name

TO#15 Ref.

Crack\_Outdoor\_Phase 1

Contractor & # of Personnel  
GDIT 3 Labor+1 Operator+1  
Safety Officer

Contractor & # of Personnel  
Kubiak 1 Technician

Contractor & # of Personnel

Contractor & # of Personnel

Equipment On-Site

- 1) Conduit heat bender
- 2) Electric generator
- 3) Mini excavator
- 4) Hand tools,

Start Time – 7:30 AM  
Stop Time – 4:30 PM

Temperature  
High 47 deg. F  
Low 28 deg. F

Humidity  
74%

Conditions  
Partly Cloudy. Wind 16 mph

Site Activities

Install Chairs Conduit under the concrete slab

Install chairs and conduit from the edge of concrete slab to the DAQ

Materials Delivered

Conduit

Chairs

Tie wire

Materials Removed

Laboratory and Field Testing Performed

Meetings/Discussions

Preparatory meeting with Kubiak where they discussed the scope of work. Discussed project spec and National electric code requirements for low voltage.

Also, how the trench from the concrete edge to the DAQ is going to be back filled and tamped with a hand tamper

Safety Concerns

Problem Areas/Additional Comments

**INSPECTOR OR REPRESENTATIVE**

Date 11/28/2019	Typed or Printed Name and Title Khaled Hamad, Ph.D., P.E. Sr. Civil Engineer/Construction Engineer	Signature <i>Khaled Hamad</i>
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U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

## Construction Progress and Inspection Report

**NAPMRC**

Inspection Date  
11/29/2018

Project Name  
TO#15 Ref.  
Crack.\_Outdoor\_Phase 1

Contractor & # of Personnel

Equipment On-Site

Start Time -  
Stop Time -

Temperature  
High 47 deg. F  
Low 28 deg. F

Humidity  
74%

Conditions  
Windy, wind speed 16 mph

Site Activities

NO Activities

Materials Delivered

Materials Removed

Laboratory and Field Testing Performed

Meetings/Discussions

Safety Concerns

Problem Areas/Additional Comments

### INSPECTOR OR REPRESENTATIVE

Date

Typed or Printed Name and Title

Signature

11/29/2018

Khaled Hamad

*Khaled Hamad*



U.S. Department  
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**Federal Aviation  
Administration**

## Construction Progress and Inspection Report

**NAPMRC**

Inspection Date  
11/30/2018

Project Name  
TO#15 Ref.  
Crack.\_Outdoor\_Phase 1

Contractor & # of Personnel

Equipment On-Site

Start Time -  
Stop Time -

Temperature  
High 49 deg. F  
Low 30 deg. F

Humidity  
73%

Conditions  
Cloudy, minimal rain, Wind:  
calm

Site Activities

NO Activities

Materials Delivered

Materials Removed

Laboratory and Field Testing Performed

Meetings/Discussions

Safety Concerns

Problem Areas/Additional Comments

### INSPECTOR OR REPRESENTATIVE

Date

Typed or Printed Name and Title

Signature

11/29/2018

Khaled Hamad

*Khaled Hamad*