

# Quarterly Report – Public Page

**Date of Report:** 3rd Quarterly Report – June 30, 2020

**Contract Number:** 693JK31910005POTA

**Prepared for:** DOT PHMSA and OTD

**Project Title:** *Procedures for Selecting Locating and Excavation Technologies*

**Prepared by:** Operations Technology Development NFP (OTD)

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**For quarterly period ending** *June 30, 2020*

## 1: Items Completed During this Quarterly Period

Task 3: Investigated excavation encroachment and notification systems. A Summary Report was submitted last quarter on PHMSA excavation damage incident records from Gas Transmission and Gathering (GT&G) and Gas Distribution (GD) systems.

Task 4: Relevant Federal and State Requirements. Completed a review and analysis of excavation damage procedures and state requirements. A Summary Report is in Attachment A.

<i>Item #</i>	<i>Task #</i>	<i>Title</i>	<i>Activity/Deliverable</i>	<i>Federal Cost (\$)</i>	<i>Cost Share (\$)</i>
6	4	Relevant Federal and State Requirements	Investigated recommendations and excavation practices from federal and state requirements. Summary Report: Notification and Excavation Procedures and Requirements.	63,419	13,945
7	8	3rd Quarterly Status Report	3 <sup>rd</sup> Quarterly Status Report	6,265	0.0

## 2: Items Not-Completed During this Quarterly Period

None during this period

## 3: Project Financial Tracking During this Quarterly Period

The following figure shows the project budget at the 3<sup>rd</sup> Quarter. Task 3 was completed in the 2<sup>nd</sup> Quarter and Task 4 is completed this Quarter.

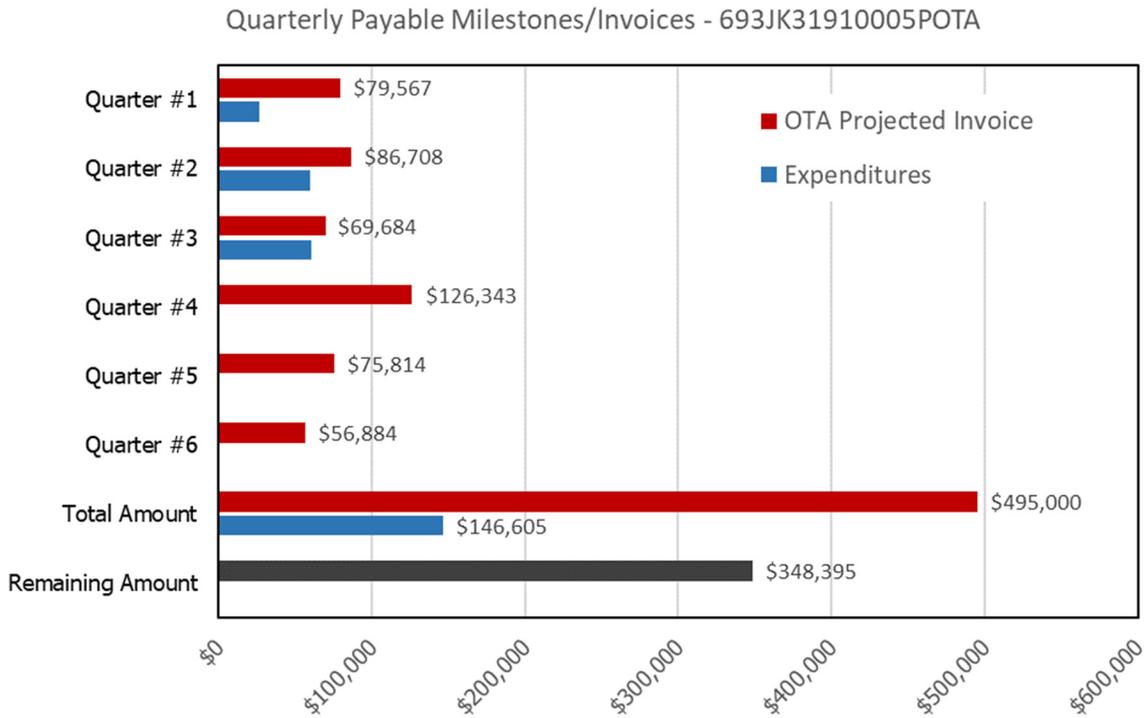
## 4: Project Technical Status

Task 4 Summary Report covered the following sections:

- A review of regulatory damage prevention program. The PIPES federal Act has provided a framework for further federal regulations and a process for the states for comprehensive damage prevention policies. The most effective elements in reducing excavation damage include improving communications between excavators, locators, and one-call system through positive

responding, enforcing pin-pointing the facility for better identification of tolerance zone coordinates, and performing soft excavation within the tolerance zone.

- State damage prevention program characterizations and analysis
- Reliability-based review of damage root-causes. A Fault Tree reliability analysis was performed based on DIRT 2018 data. The fault tree was used to identify areas where reduction of the root-causes is the most significant in reducing excavation damage.



## 5: Project Schedule

The following figure shows the project schedule and progress as of the end of this quarter.

Tasks	Quarterly	Timeline																	
		9/30/2019	12/31/2019	3/31/2020	6/30/2020	9/30/2020	12/31/2020	3/31/2021											
	months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1 Establish Technical Advisory Panel (TAP)		█																	
2 Evaluate Locating and Excavating Technologies		█	█																
3 Investigate Encroachment & Notification System				█	█	█													
4 Review Relevant Federal and State Requirement							█	█	█										
5 Database and Web-Based Program										█	█	█	█						
6 Predictive Data Analysis and Visualization											█	█	█	█	█				
7 Evaluation of Situational Awareness Framework																█	█	█	
8 Project Management and Reporting		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

[END OF REPORT]