

<b>QUALITY ASSURANCE REPORT (QAR)</b> <b>DAILY LOG OF CONSTRUCTION</b>					REPORT NUMBER 499		Page 1 of 1	
					DATE 30 Apr 2020 - Thursday			
PROJECT Durham Meadows Waterline Remedial Design					CONTRACT NUMBER W912WJ19C0002			
CONTRACTOR Ludlow Construction Co., Inc.					WEATHER Weather Caused Critical Delay Temperature Min 47 °F Max 56 °F 0.35 IN Precipitation 20 MPH Wind			
PORTION OF SCHEDULED DAY SUITABLE FOR OPERATIONS					TEMPERATURE		WIND	
STRUCTURAL EXCA- VATION  0 %	BORROW EXCA- VATION  0 %	EMBANKMENT  0 %	CONCRETE  0 %	STRUCTURE  0 %	MINIMUM  47 °F	MAXIMUM  56 °F	20 MPH	
HAS ANYTHING DEVELOPED ON THE WORK WHICH MIGHT LEAD TO A CHANGE ORDER OR FINDING FO FACT? <div style="float: right;"> <input checked="" type="checkbox"/> NO  <input type="checkbox"/> YES (Explain)         </div>					24 HOUR PRECIPITATION			
					INCHES  0.35		ENDING  M	
NUMBER OF GOVERNMENT EMPLOYEES					RIVER STAGE			
SUPERVISORY  1	OFFICE  0	LAYOUT  0	INSPECTION  2	TOTAL  3	LABOR  0	FEET  0.0		TIME  M
NUMBER OF CONTRACTOR'S EMPLOYEES			NUMBER OF SHIFTS					
			<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3					
SUPERVISORY  0	SKILLED  0	LABORERS  0	TOTAL  0	FROM  0700	TO  1530 M	FROM  M	TO  M	FROM  M
				TO  M				
Attach a list of the following. (a) Major items of equipment either idle or working, and (b) Number and classification of contractor personnel onsite. NOTE: if the contractor's Quality Control Report (QCR) contains the information it need not be repeated.								
<b>QA NARRATIVES</b>								
<b>Contractor/Subcontractor &amp; Area of Responsibility for Work:</b> Robert Christie Project involves installing water main from a new Middletown Water Tank into Durham and tying into homes & businesses:  Prime Contractor: Ludlow - Installing watermain & associated components. Subcontractor: ACE Consulting - SSHO Rob Peddicord & CQC Jerry Brandon Subcontractor: Connecticut Traffic Control - 0 Subcontractor: John Turner Consulting - YES (Steve) Subcontractor Vellieux - 0 Middletown Police - 0 State Police -2					Unresolved Issue: No      Shift: 1			
<b>Work Performed Today:</b> Robert Christie Water Tank Site and Access Road: Billy's crew continued to install the 12" RCP (Reinforced Concrete Pipe) up the hill to where the new water is going to be installed. Today they were able to install 206 feet. The ran out of pipe, for the remainder of the day they cleaned and moved material closer to where it will be installed. Hoping to get a pipe delivery tomorrow.  State/Town Roads: 2 State Police directing traffic *** ( Due to the rain this crew was onsite at 0700 but began working at 0830)*** Steve Wright for CT DOT made the call to shut the crew down due to the rain at 1000, by 1150 the crew was off of the road. For the remainder of the day this crew worked in the yard organizing and putting fittings together. Continued installing the 16" Restrained water from station 174+23 to 174+43. Contractor encountered ledge from station 174+23 to 174+43 equaling 14.81 CY. To remove the ledge they used a chipping hammer on the excavator. No compaction testing was required due to only installing 20 feet of pipe.  1 - Ludlow employee continued pressurizing the new water main.  Pickett lane: No other work was performed today. No deliveries  Pay Items: 1. 8" Restrained Pipe - 0 2. Fire Hydrant Assembly - 0 3. Police - 2 State Police 4. Illuminated Signs - yes 5. Sawcut Town Roads - 0 Feet 6. Sawcut State Roads - 40 Feet 7. 16" Restrained Pipe - 20 Feet 8. 16" Non-Restrained Pipe - 0 Feet 9. 20 inch pipe at access road - 0 10. 20 inch pipe Restrained - NA 11. Ledge Removal - Yes, 14.81 Cubic Yards 12. Trailer cleaned - Not today 13. 8 inch Gate Valve - 0					Unresolved Issue: No      Shift: 1			

- 14. Bank Run Gravel- 0 CY
- 15. Manual Drain Assembly - 0
- 16. 16x16x8 TEE - 0
- 17. 16x16x16 TEE - 0
- 18. 16" Butterfly valve - 0
- 19. 1" Corporation - 0
- 20. 1" Curb stop - 0
- 21. 1" Cooper pipe - 0

**Results of QA Inspections and Tests, Deficiencies Observed, Actions Taken:** Unresolved Issue: No Shift: 1

Robert Christie

Observed the installation of the 16" Restrained pipe. At approximately 0840 they began excavating (encountered ledge). Fabric was placed in the bottom of the excavation followed by 6" of 3/4" stone. Then the stone was covered with fabric. They then placed 3" of sand, installed the pipe and placed 12" of sand over the pipe. The rest of the lifts were bank run gravel. They couldn't use native material due to it being ledge. Finally placed 4" of hot mix asphalt (HMA).

Compaction Tests today - Not required today due to only installing 20 feet of pipe.

No water was encountered today.

Drove by the storage yard twice during my shift. Observation made both times was no material was spilled on the ground and no damage to asphalt. The catch basin did have sediment control fabric in it and did not appear to be clogged.

Observations made at the tank site location were of the installation of the 12" reinforced concrete pipe (RCP). To achieve the proper slope of the pipe the contractor used a laser level.

**Verbal Instructions Given to Contractor:** Unresolved Issue: No Shift: 1

Robert Christie

Spoke to SSHO - Rob to remind the crew working on state road 17 that when an operator gets out of the machine they need to wear a hard hat.

Spoke to QC - Jerry about my concerns with moisture content from the rain last night and this morning to keep a close eye on the compaction tests. Also concerns with working on the state road with the rain.

**Miscellaneous Remarks and Visitors to Project:** Unresolved Issue: No Shift: 1

Robert Christie

Jerry - QC

Rob P - SSHO

John Pio - Superintendent

Mike Pio - onsite

USACE - Kurt Mintell

AECOM - Bill was onsite covering for Joel

Mike Cunningham

Steve - JTC Consulting

**Miscellaneous Remarks and Visitors to Project:** Unresolved Issue: No Shift: 1

Robert Christie

Water encountered while excavating:

No water was encountered today.

PR Comments, encounters or issues:

Contractor has agreed to move the piles of material away from the neighbors property to a different location here at the office/yard.

CT DOT onsite or communication: No

**Safety:** Unresolved Issue: No Shift: 1

Robert Christie

Noted portable hand wash station on back of tool truck, cleaning supplies nitrile gloves, face masks.

Workers fill out daily forms indicating they are not demonstrating any symptoms of COVID 19 and turning into SSHO.

Daily Safety Inspections:

1. Noted proper PPE while cutting Steel pipe with cut off saw.

2. Traffic Control: 2 State Police and cones on 17 - while installing the new water line

3. Discussed situational awareness while working around heavy equipment, and while allowing residents to use the shared driveway while under construction

4. Situational awareness not to work in close proximity to each other (COVID PREVENTION)

5. Trench box being used for all excavations while working in trench.

**QA DEFICIENCY** (Describe QA Deficiency items issued, verify QA Deficiency items reported corrected by contractor)

**The following QA Deficiency items were issued today:**

QA Deficiency Item	Location	Description	Status
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QA-00003	Tank site	Observed a Ludlow employee working at the tank access road enter a catch basin which is a confined space. I told the foreman Billy to get the employee out. A few minutes later I witnessed the employee back in the catch basin. I then directed the employee out of the hole myself. UASCE Kurt then called the SSHO Rob to inform him of what had happened and told Rob to go over confined space with the crew. Both times the employee entered the catch basin it was witnessed by USACE Bob and Kurt that the employee's body was fully in the catch basin.	QA Concurrs Corrected				
QA-00004	Tank Site	The silt fence that was identified during the SWPP inspection with the SSHO/QC on 22 Apr 2020 as needing to be repaired hasn't been corrected.	QA Concurrs Corrected				
<table border="1"> <tr> <td>QA REPRESENTATIVE'S SIGNATURE</td> <td>DATE</td> <td>RE/PROJECT ENGR'S INITIALS</td> <td>DATE</td> </tr> </table>				QA REPRESENTATIVE'S SIGNATURE	DATE	RE/PROJECT ENGR'S INITIALS	DATE
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