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| QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION | | | | | REPORT NUMBER 554 | | Page 1 of 1 | |
| | | | | | DATE 24 Jun 2020 - Wednesday | | | |
| PROJECT Durham Meadows Waterline Remedial Design | | | | | CONTRACT NUMBER W912WJ19C0002 | | | |
| CONTRACTOR Ludlow Construction Co., Inc. | | | | | WEATHER Weather Caused No Delay Temperature Min 68 °F Max 88 °F No Precipitation No Wind | | | |
| PORTION OF SCHEDULED DAY SUITABLE FOR OPERATIONS | | | | | TEMPERATURE | | WIND | |
| STRUCTURAL EXCA- VATION 100 % | BORROW EXCA- VATION 100 % | EMBANKMENT 100 % | CONCRETE 100 % | STRUCTURE 100 % | MINIMUM 68 °F | MAXIMUM 88 °F | 0 MPH | |
| HAS ANYTHING DEVELOPED ON THE WORK WHICH MIGHT LEAD TO A CHANGE ORDER OR FINDING FO FACT? | | | | | <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (Explain) | | | |
| | | | | | 24 HOUR PRECIPITATION INCHES 0.00 | | | |
| NUMBER OF GOVERNMENT EMPLOYEES | | | | | RIVER STAGE | | | |
| SUPERVISORY 0 | OFFICE 0 | LAYOUT 0 | INSPECTION 2 | TOTAL 2 | 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 | FROM M | TO M | FROM 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. | | | | | | | | |
| QA NARRATIVES | | | | | | | | |
| Contractor/Subcontractor & Area of Responsibility for Work: | | | | | | | | |
| Kurt Mintell 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 - NO Subcontractor Vellieux - 0 Middletown Police - 1 State Police -3 A&J Paving - NA Vallieux Saw Cut - NO Northern Land Clearing onsite, clearing by the Valero and will head to Pickett to | | | | | Unresolved Issue: No | | Shift: 1 | |
| Work Performed Today: | | | | | | | | |
| Kurt Mintell Water Tank Site and Access Road: Building a lay down area to allow tank materials and crane access to build the tank State/Town Roads: ----- JONS CREW: 2 State Police directing traffic. on 68. Install Curb stops and 1" copper pipe at 22 & address across the site. QUINCYS CREW: ----- Install 12" pipe at the end of Maiden (by 17) and work toward the stream crossing location. Encountered ledge- met owner at 19 Maiden Lane - no issues BILLYS CREW: ----- CLIN 87 - install temp access pad and laydown area at the tank site. JONS CREW ITEM: 31: 1 1 INCH CURB STOP: STA 603+46.5 SERVICE FOR HOUSE #17 WALLINGFORD RD 32: 1 1.5 INCH CURB STOP: STA 604+60 SERVICE FOR HOUSE #22 WALLINGFORD RD 34: 22 FEET OF 1 INCH COPPER PIPE: STA 603+46.5 SERVICE FOR HOUSE #17 WALLINGFORD RD 35: 54 FEET OF 1.5 INCH COPPER PIPE: STA 604+60 SERVICE FOR HOUSE #22 WALLINGFORD RD 54: 5.55 CUBIC YARDS OF ROCK EXCAVATION: STA 603+46.5 55: 6.38 CUBIC YARDS OF BANK RUN GRAVEL (23X2.5X3) 61: 56 FEET OF STATE SAW CUT QUINCYS CREW ITEMS: | | | | | Unresolved Issue: No | | Shift: 1 | |

2: 181 FEET OF 12 INCH PIPE: STA 401+54 TO 403+35
6: 40 FEET OF 12 INCH TR FLEX: STA 401+14 TO 401+54
28: 2 1 INCH CORPS: STA 402+40 AND 403+02
54: 10 CUBIC YARDS OF ROCK EXCAVATION: STA 403+35 TO 403+75
62: 442 FEET OF TOWN SAW CUT

Results of QA Inspections and Tests, Deficiencies Observed, Actions Taken:

Unresolved Issue: No

Shift: 1

Kurt Mintell Observed proper lifts being placed in State Roads.
Observe compaction tests on Maiden Lane and on 17

Comments Pertaining to Contractors' CQC Activities:

Unresolved Issue: No

Shift: 1

Kurt Mintell Work at the Tank Site Footprint:

Haley Aldrich - Environmental and Engineering Consulting onsite to oversee the work for DN Tank (Katrina Perez)
Excavate down to elevation 435 per Katrina request (sheet 3 of the tank drawing showed excavation to 437.5 so the KTR went deeper then required) - subgrade inspected by Katrina Perez (H&A) Subgrade found to be acceptable per her inspection. KTR compacted subgrade with a 15 ton roller making 5 passes (per HA)
Katrina indicated the existing native material is suitable for reuse at the tank site.
Ludlow proceeded to backfill over compacted subgrade with 12" lifts, removing rocks as directed by Katrina.
JTC onsite to conduct compaction testing per lift.

KEEP CURRENT ON DAILY due to some concerns by AECOM using unapproved material. - CLOSED - the material is accepted

Meeting with
AECOM Rich Berlandy/Joel & Cynthia
USACE - LB BC KM SD
EPA - Ed
Ludlow - MP
Haley Aldrich
DN Tank

Discussed the tank site foot print and the Means and Methods used to meet the lift and compaction requirements.
There was some confusion on AECOMs end but this was resolved and Rich Berlandy is accepting the work done at the tank site. He rescinded his email indicating the unapproved material needs to be dug out. Moving forward there is to be 2 compaction teste per lift in the tank site back fill.

See email below

Sent: Tuesday, June 23, 2020 3:16 PM
To: hathaway.ed@epa.gov; Belisle, Lisa M CPT USARMY CENAE (USA)
<Lisa.M.Belisle.CPT@usace.army.mil>
Cc: McLane, Cindy <Cindy.McLane@aecom.com>; Meunier, Joel
<Joel.Meunier@aecom.com>
Subject: [Non-DoD Source] Durham Meadows Waterline - Water Tank Foundation

Ed, Lisa,

It has come to our attention that areas within the water tank footprint have been excavated and unapproved material placed without compaction testing as required by the water tank specifications, water tank shop drawing and the Basis of Design Report Appendices. This material must be removed to native material, the subgrade compacted and tested, and then material can be placed in lifts and compacted properly. If you have any questions, or need any other information, please let us know.

Best Regards,

Richard Berlandy, P.E.
Technical Leader I, Water, New England
D +1-860-263-5793
M +1-860-692-8158

Verbal Instructions Given to Contractor:

Unresolved Issue: No

Shift: 1

Kurt Mintell
Ensure no out of spec. rocks are put back in the trench after installing the pipe DAILY
Ensure silt fence is all in place and functioning
Trench Box Requirements Reviewed DAILY.
Ensure all Road CLOSED signs are removed at the end of each shift.
Ensure Pickett Land is swept clean of dirt and debris left from construction activities prior to opening the road. COVERED DAILY
Ensure the traffic limit is clearly marked on Pickett Lane to prevent vehicles from entering the construction zone. COVERED DAILY
Spoke with Jon Pio & Quincy: ensure all signs are removed, all material sept form the roadway and all construction related materials and equipment off the road at the end of the shift & prior to opening PICKETT Lane. COVERED DAILY

Enforce the speed limit on the dirt road going to the trailers to prevent unnecessary dust, CLIN74 for Calcium Chloride for dust control

can be used to keep dust down. Discussed with Jon Pio the QTY in the CLIN and not to go over over without discussing with USACE first. He agreed that he will no be going over with notifying USACE Rep.

ENSURE storm drains are protected if excavating near or around.

Miscellaneous Remarks and Visitors to Project:

Unresolved Issue: No

Shift: 1

Kurt Mintell

Water encountered while excavating: NO

YES on 17 for curb stops -

PR Comments, encounters or issues: NONE TODAY - met owner at 19 Maiden Lane (Judy) and owner at 97 Maple - no issues

CT DOT onsite or communication or CTDOT related items: NONE

Reviewed Permit Required Requirements of equipment parked 15' feet off the road. Clean all debris and components form the SROW prior to shift end.

Remind contractor to ensure no gravel or material is being dropped on the haul route. COVER 2x weekly

Miscellaneous Remarks and Visitors to Project:

Unresolved Issue: No

Shift: 1

Kurt Mintell Discussion with Mike Pio concerning the pay width of the trench for each diameter of water main being installed. We have an understanding that any bank run material or rock and ledge removal quantities being done during the water main installation are only paid inside the pay limits identified on the drawings on page C-502. Ludlow is over excavating beyond the pay limits by 14" in width.

Mike Pio understands the Government will not pay for the additional quantities to fill the trench.

All daily quantities will accurately portray this pay limit.

The QTYS will be verified daily - KEEP THIS OPEN and check daily on QTY TRACKER, WILL CLOSE on 6/19/2020

Safety:

Unresolved Issue: No

Shift: 2

Kurt Mintell

Safety Inspections at three separate locations today:

1. Curb Stop Installation on 17 in Durham:

- a. Traffic Control - 2 flaggers and lane closed with cones and signs
- b. Trench Box Properly being used. - yes
- c. PPE - yes
- d. Heavy Equipment - no guards or safeties identified as missing
- e. Miscellaneous tools and equipment - check electrical cords for grounds - good

2. Pipe Installation on 68 in Durham:

- a. Traffic Control - 2 flaggers and lane closed with cones and signs
- b. Trench Box Properly being used. - yes
- c. PPE - yes
- d. Heavy Equipment - no guards or safeties identified as missing
- e. Miscellaneous tools and equipment - check electrical cords for grounds - good

3. Pipe Installation on Pickett Lane in Durham:

- a. Traffic Control
- b. Trench Box Properly being used.
- c. PPE
- d. Heavy Equipment
- e. Miscellaneous tools and equipment

QA REPRESENTATIVE'S SIGNATURE

DATE

RE/PROJECT ENGR'S INITIALS

DATE