Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: April 13, 2022

Job No.: Z057000415

	AM (^{o}f)	PM (^{o}f)
Temperature:	50	65

Weather (AM): Sunny

Weather (PM): Sunny

Key Persons On-Site:
Bob Miller Jr-(Superintendent)

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 6:00 AM
Arrived On-Site: 8:00 AM
Departed Site: 3:30 PM
Arrived Base: 5:30 PM

> Atlas representative arrived on-site as scheduled, to observe Soil work.

> Atlas observed Ankiewicz excavating for undercut for proposed building pad.

> Contractor informed Atlas they are undercutting 1'ft unsuitable soft soil for proposed building pad .

> Atlas observe contractor remove 1'ft unsuitable soft soil using a Cat dozer.

> Atlas representative used a Geoprobe to check the ground stability. The stable grades were observed at between 2.5ft to 3.5ft below the existing subgrade.

> Atlas observed high moisture fatty clay at above mentioned area.

> For more information please see drawing and photos

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Zahid Javed*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Station
Date: 4/13/2022

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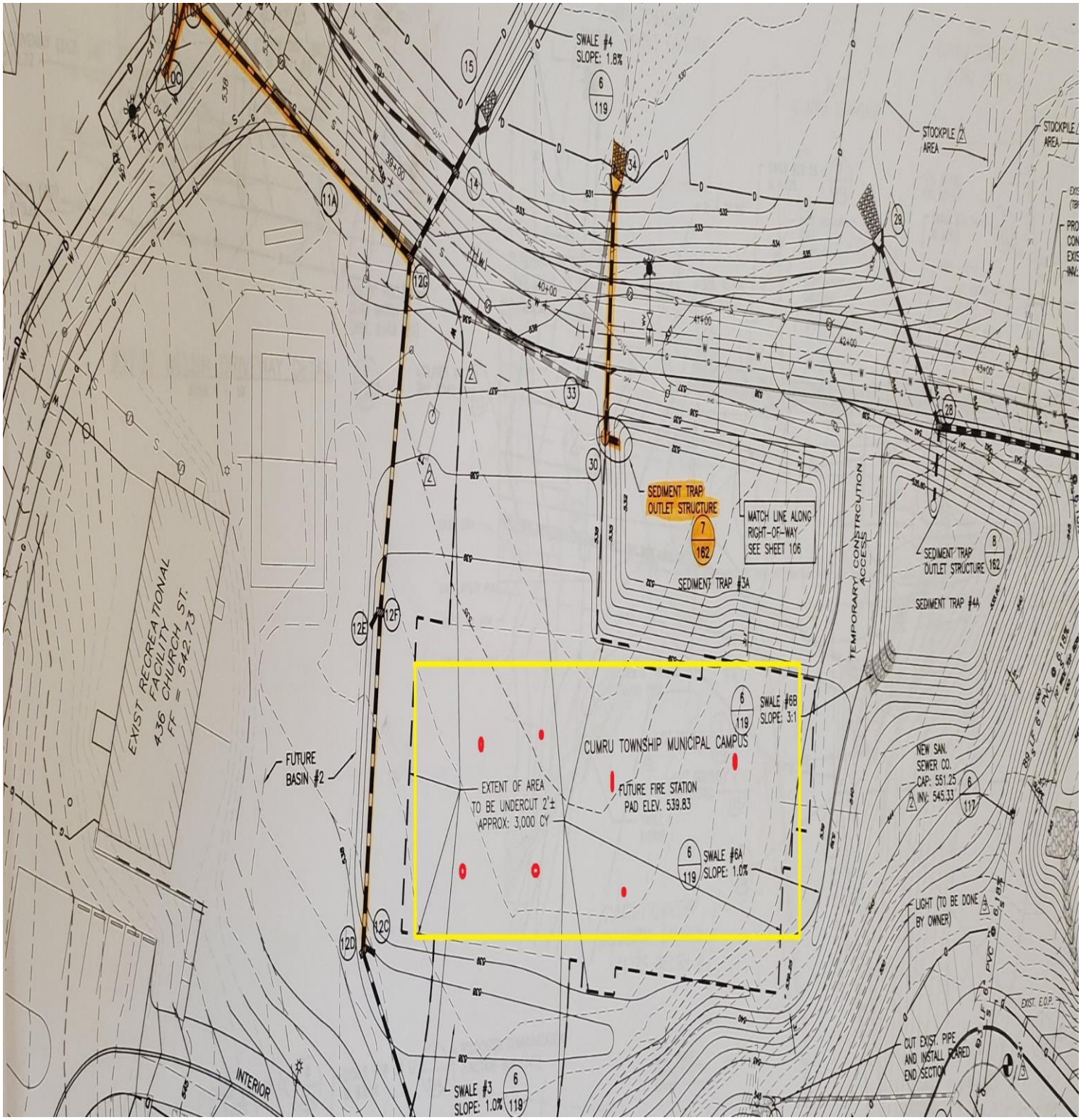
tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Station
Date: 4/13/2022



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DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: April 14, 2022

Job No.: Z057000415

	AM (^{o}f)	PM (^{o}f)
Temperature:	60	80

Weather (AM): Sunny

Weather (PM): Sunny

Key Persons On-Site:
Bob Miller Jr-(Superintendent)
Alan Wong - BCM Engineers
Eric - Ankiewicz

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 6:00 AM
Arrived On-Site: 8:00 AM
Departed Site: 3:00 PM
Arrived Base: 4:45 PM

> Atlas representative arrived on-site as scheduled, to observe Soil work.

> Atlas observed Ankiewicz excavating for subgrade undercut for proposed building pad.

> Contractor informed Atlas they are undercutting 1'ft unsuitable soft soil for proposed building pad .

> Atlas observe contractor remove 1'ft unsuitable soft soil using Cat (Dozer).

> Atlas representative used a Geoprobe to check the ground stability. Atlas observe the stable grade between 6" and 1' ft below .

> Contractor informed Atlas they will be removing 6" -12" more of the unsuitable soil.

> Atlas observe work is in progress.

> For more information please see attached drawing and photos

Reviewed By:

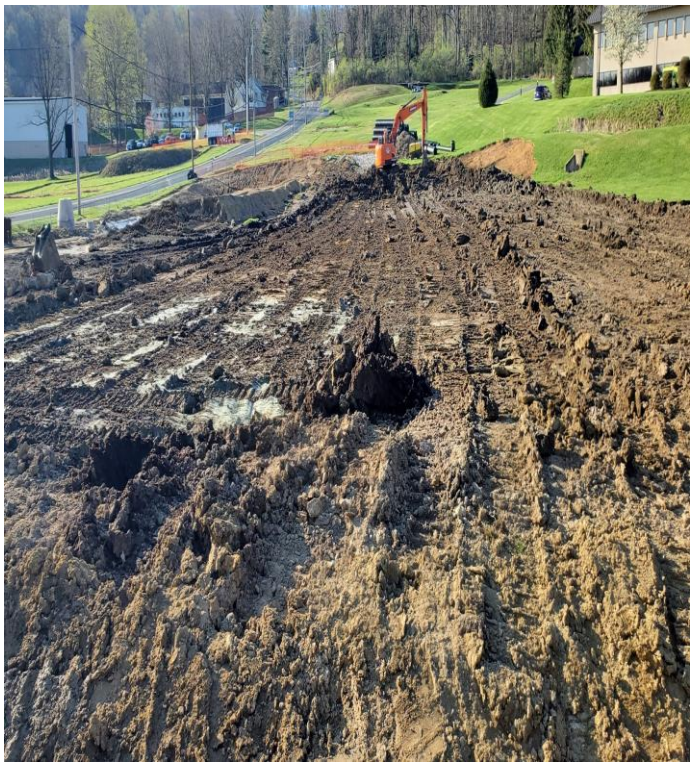
GEORGE WIESNER

FIELD REPORT

SIGNED: *Zahid Javed*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Station
Date: 4/14/2022



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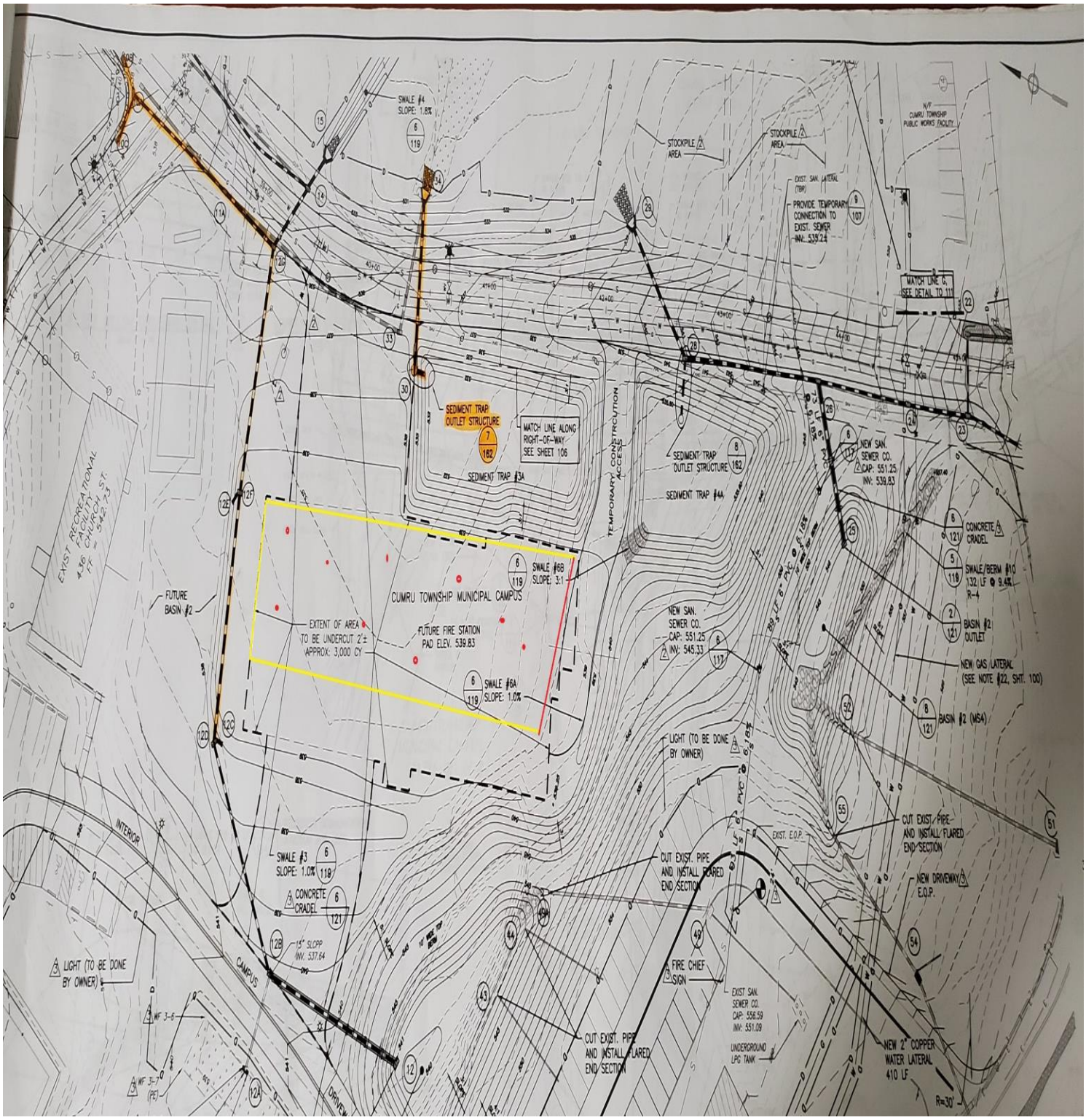
tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Station
Date: 4/14/2022

Yellow undercut area



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DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: April 15, 2022

Job No.: Z057000415

	AM (^{o}f)	PM (^{o}f)
Temperature:	52	65

Weather (AM): Sunny

Weather (PM): Sunny

	YES	NO
Spec's & Drawings Available On-Site:	x	

Key Persons On-Site:

Bob Miller Jr-(Superintendent)
Eric - Ankiewicz
Alan Wong - BCM Engineers

THE FOLLOWING WAS NOTED:

Depart Base: 6:00 AM
Arrived On-Site: 8:00 AM
Departed Site: 3:30 PM
Arrived Base: 4:30 PM

> Atlas representative arrived on-site as scheduled, to observe Soil work.

> Atlas observed Ankiewicz excavating for subgrade undercut for proposed building pad.

> Contractor informed Atlas they are undercutting 1'ft unsuitable soft soil for proposed building pad .

> Atlas observe contractor remove 1'ft unsuitable soft soil using Cat (Dozer).

> Atlas representative used a Geoprobe to check the ground stability. Atlas observe the stable grade between 6" and 1' ft below .

> Contractor informed Atlas they will remove 6" -12" more of the unsuitable soil.

> For more information please see drawing and photos

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Zahid Javed*

Atlas Technical Consultants LLC
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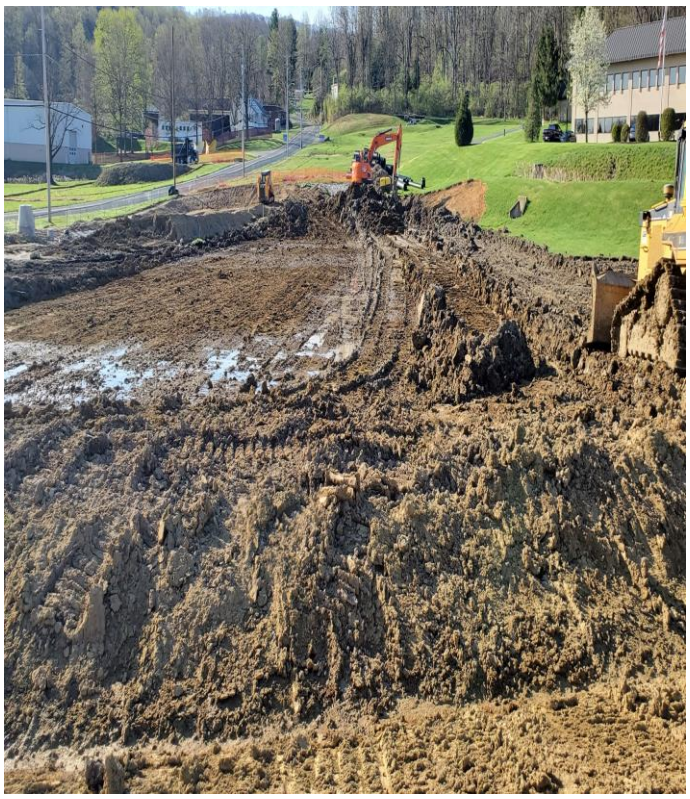
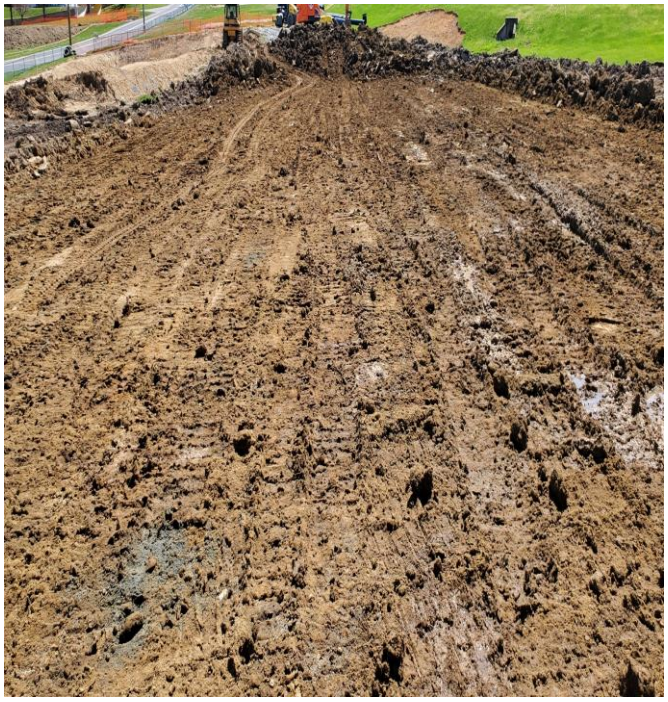
tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Station
Date: 4/15/2022





Atlas Technical Consultants LLC
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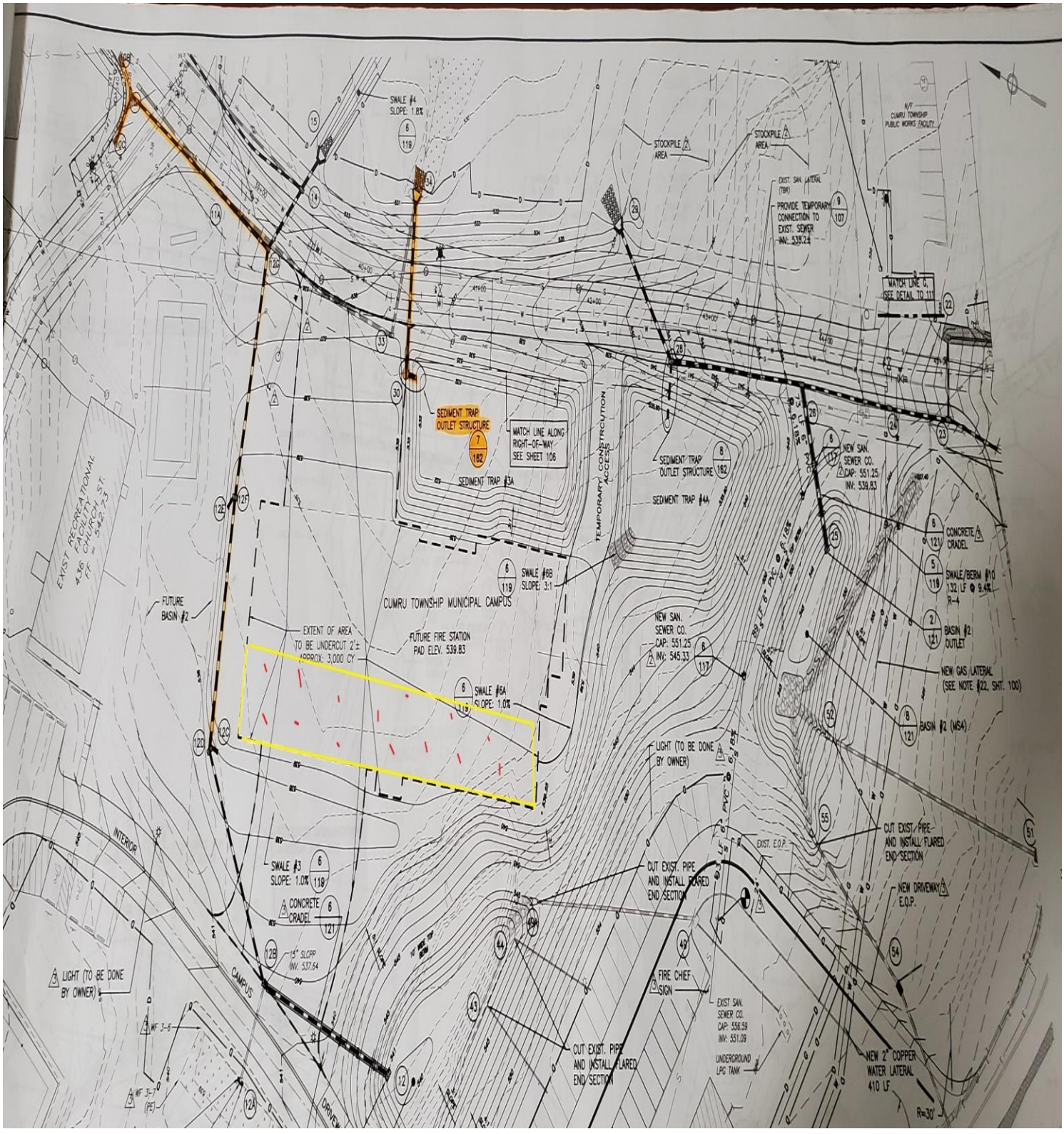
Project: Cumru Township Fire Station
Date: 4/15/2022

Yellow undercut area



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DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: April 21, 2022

Job No.: Z057000415

	AM (^{o}f)	PM (^{o}f)
Temperature:	49	64

Weather (AM): Mostly Sunny

Weather (PM): Mostly Sunny

Key Persons On-Site:

Bob Miller Jr-(Superintendent)
Eric - Ankiewicz
Alan Wong - BCM Engineers

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 5:30 AM
Arrived On-Site: 7:00 AM
Departed Site: 1:30 PM
Arrive Base: 3:00 PM

SOILS- ANKIEWICZ

>Atlas Technician was at Cumru Township, Fire Department for soils monitoring & testing.
>Met with Bob & Ackiewicz respectively superintendent & contractor to discuss inspection for today.
>Contractor upon arrival this morning, was observed to work on stripping, grading, Stockpiling of soil & dirt evacuation as per Subgrade Preparation 6.1.1 of the Geotechnical Report.
>Contractor used a Wacker Newson RC50 Single Drum 5 ton Roller for Subgrade Compaction.

>Once that was completed, Atlas Technician used a Troxler Gauge to test the compaction.
>The Results found were not in compliance with 6.1.3 Subgrade Stabilization / 2nd Paragraph (Subgrade Compaction)
>Proofrolling required as per 6.1.2 of the Geotechnical Report for a better localization of Subsidence Caused by Weak and unstable ground can not be achieve due to inaccessible of the Dump truck Towards the Construction Pad.
>At the Perimeter of the Pad, the following has been observed and noticed :
1- South Side it was Driving & Stockpiling excavated materials for evacuation
2- East Side / Soaked Areas facing existing Settling Pond.
3- North Side / Discharge Channel in addition to Sump Pump Installation.
4-West Side / Wet and muddy Areas.
>Contractor should dry out the material and keep water out of the building pad.

see attached field density sheet and photos for more information

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Emmanuel Louis*

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Emmanuel Louis

Project: Cumru Township Fire Station **DATE:** April 21, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY		PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
							SPEC.	ACTUAL						
1	132.4		140.8	**117.3**	23.5	**20.0**	95.0	88.6		x				Fire Stat. PAD / Center undercutting Portion facing Pond
2	132.4		127.7	**96.3**	31.4	**32.6**	95.0	72.7		x				Fire Stat. PAD / Center undercutting Portion facing Pond

Compaction Equipment Used: Vibratory: _____ Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: High Moisture / Compaction failed.

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-1	132.4	8.7		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 29762

Standard Counts

Moisture	Density
667	1668

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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Project: Cumru Township Fire Station
Date: 4/21/2022

PARTIAL VIEW / PERIMETER OF THE PAD
TOP: LEFT TO RIGHT:

1- SOUTH SIDE / DRIVING & STOCKPILING EXCAVATED MATERIALS FOR EVACUATION

2-EAST SIDE / SOAKED AREAS FACING TAILINGS OR SETTLING POND

3- NORTH SIDE / PARTIAL DRY OUT USING SUMP PUMP IN ADDITION TO DISCHARGE CHANNEL.

4- WEST SIDE / WET AND MUDDY AREAS.

5- SETTLING POND.

Atlas Technical Consultants LLC
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tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Station
Date: 4/21/2022

FIRE STATION PAD / GRADING & COMPACTION

Atlas Technical Consultants LLC
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tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: April 22, 2022

Job No.: Z057000415

	AM (^{o}f)	PM (^{o}f)
Temperature:	54	68

Weather (AM): Partly Cloudy

Weather (PM): Mostly Sunny

Key Persons On-Site:

Bob Miller Jr-(Superintendent)
Eric - Ankiewicz
Alan Wong - BCM Engineers

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 6:00 AM
Arrived On-Site: 7:30 AM
Departed Site: 2:30 PM
Arrive Base: 4:00 PM

SOILS- ANKIEWICZ

>Atlas Technician was at Cumru Township, PA to observe activities in progress.
>Upon arrival this morning, it was found that the construction site was partially flooded.

>Atlas Technician had identified the origin of that standing water on construction site at 2 different places:
~West Side, a Round concrete Culvert 8 " was identified as a Cross drain or stream crossings to pass water under the existing Road leading to Local Police Department.
~Temporarily, water of the above mentioned has been diverted via a recessed channel towards Existing Pond.
~At South Side rain water trapping behind stockpiling of the excavated materials, runs out and moves Faster as long as Contractor continued to work on soil removal.
>In late afternoon some Areas after grading was observed to be firm which was probed with the Same Deep previously recorded 2" to 5".

>See Photos attached for more information.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Emmanuel Louis*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Station
Date: 4/22/2022






TOP FROM LEFT TO RIGHT:
1, 2, 3 & 4 SOGGY CONSTRUCTION SITE
5 & 6 CONSTRUCTION SITE AFTER GRADING OF THE MUDDY AREAS (Was Partial)

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Station
Date: 4/22/2022






TOP FROM LEFT TO RIGHT: 1 & 2 IDENTIFIED AS A STREAM CROSSINGS TO BRING WATER ON PAD 3, 4, 5 & 6 IDENTIFIED AS WATER TRAPPING BEHIND STOCKPILING EXCAVATED MATERIALS

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: May 23, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	52	65

Weather (AM): sunny

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr.- Superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 8:15 AM
Departed Site: 3:30 PM
Arrive Base: 4:45 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed the contractor backfilling with DGA within the foundation footprint. Dozer with static compaction rolled and compacted the DGA.

Atlas representative probed the areas without DGA. Recommended select areas of over excavation. And observed site operations.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Jim Romano*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Sation
Date: 5/23/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: May 25, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (^{o}f)	PM (^{o}f)
Temperature:	55	73

Weather (AM): sunny

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr.- Superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 8:15 AM
Departed Site: 2:30 PM
Arrive Base: 3:45 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed the contractor placing geotextile fabric over the compacted DGA within the foundation footprint. Select site fill was then placed in 8"-12" lifts above fabric.

Atlas representative reviewed plans and recommended a 12" overlap between geofabric. And observed site operations.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Jim Romano*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Sation
Date: 5/25/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 24, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	70	80

Weather (AM): sunny

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr.- Superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 10:15 AM
Arrived On-Site: 11:25 AM
Departed Site: 2:30 PM
Arrive Base: 3:45 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began fill and consolidation of Building pad lift. Contractor was removing material from proposed building pad driveway

Atlas representative probed the areas of concern identified by Bob. Recommended over excavate below the proposed garage bay areas a minimum 6” prior to backfilling.

Bob mentioned their plan is to see if it unsuitable soils will dry out by Monday. We will want someone out here Monday 6/27 to confirm my recommendation to remove the upper 6” before backfilling with onsite fill soils.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Jim Romano*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Sation
Date: 6/24/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 27, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (^{o}f)	PM (^{o}f)
Temperature:	69	79

Weather (AM): Rain/Clouds

Weather (PM): Clouds

Key Persons On-Site:
Bob Miller Jr.- Superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 8:15 AM
Departed Site: 2:00 PM
Arrive Base: 3:15 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas Rep observed the Contractor removing material from proposed garage bay areas. And pushing material in an attempt to level a portion of the site.

Atlas representative probed some areas of concern at the site. Conditions have not improved from 6/24. Recommended to over excavate below the proposed garage bay areas a minimum 6” prior to backfilling.

Rain slowed on-site activities. Left site at 2:00pm.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Jim Romano*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Sation
Date: 6/27/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 1, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	77	84

Weather (AM): p. cloudy

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr.- Superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 12:00 PM
Arrive Base: 2:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began to consolidate soils. Previous day soils determined inadequate.

Contractor consolidated lift via Volvo CP-434 vibratory drum roller. Upon Consolidation Atlas technician retested soils to determine whether soils would be adequate after drying.

Atlas technician programmed the Modified Proctor number of 134.2 @ 8.7% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted at 9 tests which was sufficient for the size of the area noted above. (previous day lift thinned to cover entire pad) After careful observation, Atlas recorded the compaction readings and verified that the results DID NOT meet Specification requirements.

After consideration site Superintendent decided best course of action is to remediate inadequate soil and backfill using more suitable material moving forward.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

Permit No: | **Project No.:** Z057000415

Client: Township of Cumru | **Technician:** Eddie Havens

Project: Cumru Township Fire Station | **DATE:** June 1, 2022

General Contractor: Ankiewicz | **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY		PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
							SPEC.	ACTUAL						
1	134.2	1	128.9	**111.1**	17.8	**16.0**	95.0	82.8		x				Building pad
2	134.2	1	131.7	**113.2**	18.5	**16.3**	95.0	84.4		x				Building pad
3	134.2	1	129.6	**110.7**	18.9	**17.1**	95.0	82.5		x				Building pad
4	134.2	1	129.5	**111.8**	17.7	**15.8**	95.0	83.3		x				Building pad
5	134.2	1	128.6	**112.0**	16.6	**14.8**	95.0	83.5		x				Building pad
6	134.2	1	131.2	**114.1**	17.1	**15.0**	95.0	85.0		x				Building pad
7	134.2	1	129.3	**111.4**	17.9	**16.1**	95.0	83.0		x				Building pad
8	134.2	1	131.9	**114.4**	17.5	**15.3**	95.0	85.2		x				Building pad
9	134.2	1	130.6	**112.6**	18.0	**16.0**	95.0	83.9		x				Building pad

Compaction Equipment Used: Vibratory: x Non-Vibratory ____ Smooth Steel Drum x Sheepsfoot ____ Brickfoot ____

Rubber-tired ____ Vibratory Plate ____ Walk Behind Steel Drum ____ Other: ____

Remarks: ____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-1	134.2	8.7		x

Gauge Make: Troxler
Gauge Model #: 3440
Gauge Serial # 36191

Method: A Backscatter ( ) B Direct Transmission (x)

Moisture	Density
656	1958

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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Project: Cumru township Fire Sation
Date: 6/1/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 3, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (^{o}f)	PM (^{o}f)
Temperature:	72	

Weather (AM): p. cloudy

Weather (PM):

Key Persons On-Site:
Bob Miller Jr.- Superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 8:00 AM
Arrived On-Site: 9:30 AM
Departed Site: 12:30 PM
Arrive Base: 2:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began to remediate soils. Atlas technician observed some of remediation. Superintendent stated Atlas was not needed on site at current date for work performed. Atlas technician departed site.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 6, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	63	83

Weather (AM): Sun

Weather (PM): Sun

Key Persons On-Site:
Bob Miller (GC Super)

THE FOLLOWING WAS NOTED:

Depart Base: 6:00 AM **Departed Site:** 10:00 AM
Arrived On-Site: 8:00 AM **Arrive Base:** 12:00 PM

ATLAS arrived as scheduled to observe and note the following:

ATLAS spoke to Bob Miller (GC Super) upon arrival who informed ATLAS of a Soils Compaction test for the proposed building foundation

ATLAS'S role was ensure the No 4 stone was compacted by dozer and installation of Geotextile Fabric and backfill. However, the job was cancelled because backfill wasn't scheduled to arrive on this day

Please see Attached Pictures for additional information

Reviewed By:
Robert Hawthorne

FIELD REPORT

SIGNED: *Timothy Hogan*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

Project:Cumru Twp. Fire Station Mohnton, PA.
Date:06-06-2022

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DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 7, 2022

Job No.: Z057000415

	AM (°f)	PM (°f)
Temperature:	74	85

Weather (AM): sunny

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr.- Superintendent

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 3:30 PM
Arrive Base: 5:30 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas observed as the contractor began to unload truck loads of crushed material to place and consolidate for Building pad.

Contractor placed approximately 6" of soil over one half of building pad and began consolidation via Volvo CP-434 vibratory drum roller.

Atlas technician programmed the Modified Proctor number of 139.7 @ 5.8% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted 5 tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the results meet Specification requirements of a minimum of 95% compaction.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** June 7, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY		PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
							SPEC.	ACTUAL						
1	139.7	1	146.1	**136.7**	9.4	**6.9**	95.0	97.9	x					Building pad
2	139.7	1	150.3	**139.2**	11.1	**8.0**	95.0	99.6	x					Building pad
3	139.7	1	146.3	**135.5**	10.8	**8.0**	95.0	97.0	x					Building pad
4	139.7	1	145.5	**132.8**	12.7	**9.6**	95.0	95.1	x					Building pad
5	139.7	1	143.4	**133.9**	9.5	**7.1**	95.0	95.8	x					Building pad

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS- 3	139.7	5.8		x

Gauge Make: Troxler
Gauge Model #: 3440
Gauge Serial # 36191

Method: A Backscatter ( ) B Direct Transmission (x)

Moisture	Density
659	1958

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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Project: Cumru Township Fire Station
Date: 6/7/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 8, 2022

Job No.: Z057000415

	AM (^{o}f)	PM (^{o}f)
Temperature:	72	90

Weather (AM): p. cloudy

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr.- Superintendent

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 6:00 AM
Arrived On-Site: 8:00 AM
Departed Site: 4:30 PM
Arrive Base: 6:30 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas observed as the contractor began to unload truck loads of crushed material to place and consolidate for Building pad in continuation of previous days work.

Contractor placed approximately 6" of soil over second half of building pad and began consolidation via Volvo CP-434 vibratory drum roller.

Atlas technician programmed the Modified Proctor number of 139.7 @ 5.8% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted 6 tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the results meet Specification requirements of a minimum of 95% compaction.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
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FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** June 8, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	139.7	1	146.5	**135.8**	10.7	**7.9**	95.0	97.2	x					Building pad
2	139.7	1	143.4	**134.1**	9.3	**6.9**	95.0	96.0	x					Building pad
3	139.7	1	144.4	**133.1**	11.3	**8.5**	95.0	95.3	x					Building pad
4	139.7	1	144.1	**133.8**	10.3	**7.7**	95.0	95.8	x					Building pad
5	139.7	1	144.5	**133.7**	10.8	**8.1**	95.0	95.7	x					Building pad
6	139.7	1	144.9	**134.3**	10.6	**7.9**	95.0	96.1	x					Building pad

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-3	139.7	5.8		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 36191

Method: A Backscatter ( ) B Direct Transmission (x)

Moisture	Density
658	1962

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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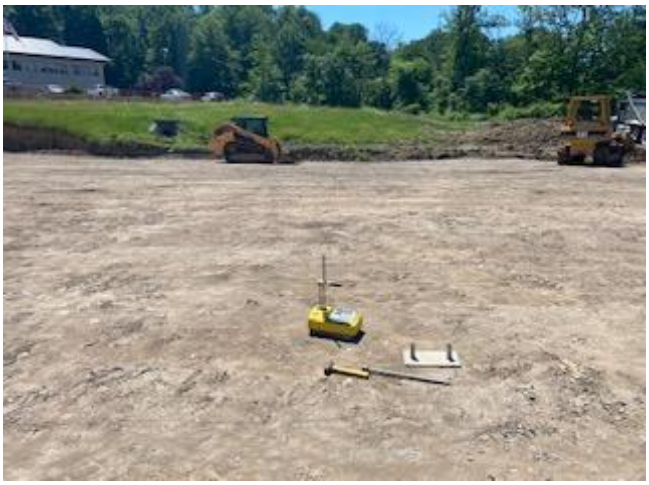
Project: Cumru Township Fire Station
Date: 6/8/2022



Atlas Technical Consultants LLC
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DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 10, 2022

Job No.: Z057000415

	AM (°f)	PM (°f)
Temperature:	77	86

Weather (AM): sunny

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr.- Superintendent

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 4:00 PM
Arrive Base: 6:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas observed as the contractor began to unload truck loads of crushed material to place and consolidate for Building pad in continuation of previous days work.

Contractor placed approximately 6" of soil over two thirds of building pad and began consolidation via Volvo CP-434 vibratory drum roller. First third graded, placed, and consolidated previous day.

Atlas technician programmed the Modified Proctor number of 139.7 @ 5.8% into the density gauge and began conducting tests on the backfill material from today and previous day.

Atlas technician conducted 10 tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the results meet Specification requirements of a minimum of 95% compaction.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: | **Project No.:** Z057000415

Client: Township of Cumru | **Technician:** Eddie Havens

Project: Cumru Township Fire Station | **DATE:** June 10, 2022

General Contractor: Ankiewicz | **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	139.7	2	148.6	**139.1**	9.5	**6.8**	95.0	99.6	x					Building pad
2	139.7	2	144.0	**134.5**	9.5	**7.1**	95.0	96.3	x					Building pad
3	139.7	2	147.9	**136.4**	11.5	**8.4**	95.0	97.6	x					Building pad
4	139.7	2	145.1	**133.6**	11.5	**8.6**	95.0	95.6	x					Building pad
5	139.7	2	148.4	**137.0**	11.4	**8.3**	95.0	98.1	x					Building pad
6	139.7	2	150.0	**137.9**	12.1	**8.8**	95.0	98.7	x					Building pad
7	139.7	2	145.8	**135.9**	9.9	**7.3**	95.0	97.3	x					Building pad
8	139.7	2	144.8	**133.2**	11.6	**8.7**	95.0	95.3	x					Building pad
9	139.7	2	144.6	**133.8**	10.8	**8.1**	95.0	95.8	x					Building pad
10	139.7	2	145.0	**133.4**	11.6	**8.7**	95.0	95.5	x					Building pad

Compaction Equipment Used: Vibratory: x Non-Vibratory ____ Smooth Steel Drum x Sheepsfoot ____ Brickfoot ____

Rubber-tired ____ Vibratory Plate ____ Walk Behind Steel Drum ____ Other: ____

Remarks:

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-3	139.7	5.8		x

Gauge Make: Troxler
Gauge Model #: 3440
Gauge Serial # 36191

Method: A Backscatter ( ) B Direct Transmission (x)

Moisture	Density
654	1958

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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Project: Cumru Township Fire Sation
Date: 6/10/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 13, 2022

Job No.: Z057000415

	AM (^{o}f)	PM (^{o}f)
Temperature:	N/A	N/A

Weather (AM): N/A

Weather (PM): N/A

Key Persons On-Site:

N/A

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site:

Departed Site:
Arrive Base: 9:00 AM

Atlas technician was en route to site as scheduled, when we were notified that work today was cancelled.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 15, 2022

Job No.: Z057000415

	AM (°f)	PM (°f)
Temperature:	77	86

Weather (AM): sunny

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr.- Superintendent

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 4:00 PM
Arrive Base: 6:30 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas observed as the contractor began to unload truck loads of crushed material to place and consolidate for Building pad in continuation of previous days work.

Contractor placed approximately 6" of soil over one third of building pad and began consolidation via Volvo CP-434 vibratory drum roller. First third graded, placed, and consolidated previous day.

Atlas technician programmed the Modified Proctor number of 139.7 @ 5.8% into the density gauge and began conducting tests on the backfill material from today and previous day.

Atlas technician conducted 6 tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the results meet Specification requirements of a minimum of 95% compaction. Last third of building pad placed, consolidation to occur next day.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** June 15, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	139.7	2	147.3	**136.6**	10.7	**7.8**	95.0	97.8	x					Building pad
2	139.7	2	144.2	**133.4**	10.8	**8.1**	95.0	95.5	x					Building pad
3	139.7	2	144.2	**133.3**	10.9	**8.2**	95.0	95.4	x					Building pad
4	139.7	2	146.0	**135.1**	10.9	**8.1**	95.0	96.7	x					Building pad
5	139.7	2	144.8	**133.8**	11.0	**8.2**	95.0	95.8	x					Building pad
6	139.7	2	145.3	**134.0**	11.3	**8.4**	95.0	95.9	x					Building pad

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-3	139.7	5.8		x

Gauge Make: Troxler
Gauge Model #: 3440
Gauge Serial # 36191

Method: A Backscatter ( ) B Direct Transmission (x)

Moisture	Density
654	1958

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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Project: Cumru Township Fire Sation
Date: 6/15/2022

Atlas Technical Consultants LLC
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DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 16, 2022

Job No.: Z057000415

	AM (°f)	PM (°f)
Temperature:	77	86

Weather (AM): sunny

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr.- Superintendent

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:30 AM
Departed Site: 4:00 PM
Arrive Base: 6:30 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began consolidation of final third of current Building pad lift.

Contractor placed approximately 6" of soil over one third of building pad previous day and began consolidation via Volvo CP-434 vibratory drum roller.

Atlas technician programmed the Modified Proctor number of 139.7 @ 5.8% into the density gauge and began conducting tests on the backfill material from today and previous day.

Atlas technician conducted 3 tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the results meet Specification requirements of a minimum of 95% compaction.

Contractor began remediation for building pad driveway in preparation for backfill and consolidation at later date.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** June 16, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY		PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
							SPEC.	ACTUAL						
1	139.7	2	144.3	**133.2**	11.1	**8.3**	95.0	95.3	x					Building pad
2	139.7	2	145.6	**134.6**	11.0	**8.2**	95.0	96.3	x					Building pad
3	139.7	2	143.8	**132.9**	10.9	**8.2**	95.0	95.1	x					Building pad

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-3	139.7	5.8		x

Gauge Make: Troxler
Gauge Model #: 3440
Gauge Serial # 36191

Method: A Backscatter ( ) B Direct Transmission (x)

Moisture	Density
657	1956

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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Project: Cumru Township Fire Sation
Date: 6/16/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 17, 2022

Job No.: Z057000415

	AM (°f)	PM (°f)
Temperature:	75	89

Weather (AM): sunny

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr.- Superintendent

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 6:00 AM
Arrived On-Site: 8:00 AM
Departed Site: 4:00 PM
Arrive Base: 6:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began fill and consolidation of Building pad lift. Contractor also began removing material from proposed building pad driveway

Contractor placed approximately 10"-12" of soil over one third of building pad and began consolidation via Volvo CP-434 vibratory drum roller.

Atlas technician programmed the Modified Proctor number of 139.7 @ 5.8% into the density gauge and began conducting tests on the backfill material from today and previous day.

Atlas technician conducted 3 tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the results meet Specification requirements of a minimum of 95% compaction.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** June 17, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY		PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
							SPEC.	ACTUAL						
1	139.7	2	147.6	**137.2**	10.4	**7.6**	95.0	98.2	x					Building pad
2	139.7	2	144.8	**133.2**	11.6	**8.7**	95.0	95.3	x					Building pad
3	139.7	2	144.7	**134.0**	10.7	**8.0**	95.0	95.9	x					Building pad

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-3	139.7	5.8		x

Gauge Make: Troxler
Gauge Model #: 3440
Gauge Serial # 36191

Method: A Backscatter ( ) B Direct Transmission (x)

Moisture	Density
660	1956

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Sation
Date: 6/17/2022

Atlas Technical Consultants LLC
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Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 21, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	69	

Weather (AM): cloudy

Weather (PM):

Key Persons On-Site:
Bob Miller Jr. -superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 4:00 PM
Arrive Base: 6:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as contractor trucked in crushed material for building pad backfill, grading, and compaction.

Contractor placed approximately 2/3 lift of building pad of approximately 1' thickness of imported crushed material. Contractor compacted material via Volvo cp-434 large drum roller. specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Atlas technician programmed the Modified Proctor number of 139.7 @ 5.8% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted 6 tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** June 21, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	139.7		146.4	**138.1**	8.3	**6.0**	95.0	98.9	x					Building pad 1st 3rd
2	139.7		144.6	**135.0**	9.6	**7.1**	95.0	96.6	x					Building pad 1st 3rd
3	139.7		145.8	**135.5**	10.3	**7.6**	95.0	97.0	x					Building pad 1st 3rd
4	139.7		146.0	**136.3**	9.7	**7.1**	95.0	97.6	x					Building pad 2nd 3rd
5	139.7		144.0	**134.7**	9.3	**6.9**	95.0	96.4	x					Building pad 2nd 3rd
6	139.7		144.2	**133.9**	10.3	**7.7**	95.0	95.8	x					Building pad 2nd 3rd

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS- 3	139.7	5.8		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 36191

	Standard Counts	Density
	655	1931

Method: A Backscatter ( ) B Direct Transmission (x)

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

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Project: Cumru Township Fire Station
Date: 6/21/2022

Atlas Technical Consultants LLC
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tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: June 22, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (^{o}f)	PM (^{o}f)
Temperature:	69	76

Weather (AM): Cloudy

Weather (PM): Cloudy

Key Persons On-Site:

Bob Miller Jr. - Atlas

THE FOLLOWING WAS NOTED:

Depart Base: 7:30 AM
Arrived On-Site: 9:00 AM

Departed Site: 4:00 PM
Arrive Base: 5:30 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor continued to truck in imported material from crusher location, contractor continued placement and compaction of soil in order to bring proposed building pad to grade.

Contractor placed approximately 1 lift of approximately 6" of imported material over 1 third of proposed building pad. Contractor began compaction via Volvo cp-434 large vibratory drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Atlas technician programmed the Modified Proctor number of 139.7 @ 5.8% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (3) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** June 22, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY		PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
							SPEC.	ACTUAL						
1	139.7		143.9	**133.0**	10.9	**8.2**	95.0	95.2	x					building pad
2	139.7		142.0	**133.1**	8.9	**6.7**	95.0	95.3	x					building pad
3	139.7		145.5	**136.9**	8.6	**6.3**	95.0	98.0	x					building pad

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
bs-3	139.7	5.8		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 36191

Standard Counts

Moisture 663 Density 1948

Method: A. Backscatter ( ) B. Direct Transmission (x)

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

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Project: Cumru Township Fire Station
Date: 6/22/2022

Atlas Technical Consultants LLC
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tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 24, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	69	

Weather (AM): cloudy

Weather (PM):

Key Persons On-Site:
Bob Miller Jr. -superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 9:00 AM
Arrive Base: 11:30 AM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas observed building pad area was wet and contained puddles of water. Contractor work could not be completed and work was canceled today.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

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Project: Cumru Township Fire Station
Date: 6/24/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Township of Cumru, PA

Contractor: Ankiewicz

Date: June 27, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	69	

Weather (AM): cloudy

Weather (PM):

Key Persons On-Site:
Bob Miller Jr. -superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 10:00 AM
Arrive Base: 12:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed building pad was wet and muddy. Contractor decided work could not be completed and work today was canceled.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
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Project: Cumru Township Fire Station
Date: 6/27/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: July 5, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	74	82

Weather (AM): sunny

Weather (PM): cloudy

Key Persons On-Site:
Bob Miller Jr. -Atlas

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 4:00 PM
Arrive Base: 6:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began trucking in imported material from crusher site in order to continue bringing building pad to grade.

Contractor placed approximately 1 lift (10"-12") of imported fill material. Contractor began consolidation of the material using a Wacker Neuson RC70 steel drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Previously placed area tested in addition to material placed to date (approximately 2 thirds of pad)

Atlas technician programmed the Modified Proctor number of 139.7 @ 5.8% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (7) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: | **Project No.:** Z057000415

Client: Township of Curu | **Technician:** Eddie Havens

Project: Cumru Township Fire Station | **DATE:** July 5, 2022

General Contractor: Ankiewicz | **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY		PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
							SPEC.	ACTUAL						
1	139.7		141.7	**132.9**	8.8	**6.6**	95.0	95.1	x					previously placed lift (first third)
2	139.7		142.3	**133.1**	9.2	**6.9**	95.0	95.3	x					previously placed lift (first third)
3	139.7		142.4	**135.5**	6.9	**5.1**	95.0	97.0	x					previously placed lift (first third)
4	139.7		142.2	**134.7**	7.5	**5.6**	95.0	96.4	x					previously placed lift (first third)
5	139.7		147.3	**136.1**	11.2	**8.2**	95.0	97.4	x					current lift (second third)
6	139.7		143.9	**133.0**	10.9	**8.2**	95.0	95.2	x					current lift (second third)
7	139.7		145.0	**133.6**	11.4	**8.5**	95.0	95.6	x					current lift (second third)

Compaction Equipment Used: Vibratory: x Non-Vibratory ____ Smooth Steel Drum x Sheepsfoot ____ Brickfoot ____

Rubber-tired ____ Vibratory Plate ____ Walk Behind Steel Drum ____ Other: ____

Remarks:

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-3	139.7	5.8		x

Gauge Make: Troxler
Gauge Model #: 3440
Gauge Serial # 36191

Method: A Backscatter B Direct Transmission B

Standard Counts	
Moisture	Density
654	1931

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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Project: Cumru Township Fire Station
Date: 7/5/2022

Atlas Technical Consultants LLC
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tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: July 11, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (^{o}f)	PM (^{o}f)
Temperature:	74	86

Weather (AM): sunny

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr. -Atlas

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 4:00 PM
Arrive Base: 6:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began trucking in imported material from crusher site in order to continue bringing building pad to grade.

Contractor placed approximately 1 lift (10"-12") of imported fill material. Contractor began consolidation of the material using a Wacker Neuson RC70 steel drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Atlas technician programmed the Modified Proctor number of 139.7 @ 5.8% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (3) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
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FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Curu **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** July 11, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	139.7		144.9	**132.9**	12.0	**9.0**	95.0	95.1	x					building pad soils
2	139.7		146.1	**133.1**	13.0	**9.8**	95.0	95.3	x					building pad soils
3	139.7		146.1	**133.3**	12.8	**9.6**	95.0	95.4	x					building pad soils

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-3	139.7	5.8		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 36191

Standard Counts

Moisture	Density
651	1947

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

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Project: Cumru Township Fire Station
Date: 7/11/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: July 12, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (^{o}f)	PM (^{o}f)
Temperature:	76	90

Weather (AM): sunny

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr. -Atlas

THE FOLLOWING WAS NOTED:

Depart Base: 6:30 AM
Arrived On-Site: 9:00 AM
Departed Site: 4:00 PM
Arrive Base: 6:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began trucking in imported material from crusher site in order to continue bringing building pad to grade.

Contractor placed 1 lift (10"-12") of imported fill material. Contractor began consolidation of the material using a Wacker Neuson RC70 steel drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density. Approximately half of pad brought closer to grade.

Atlas technician programmed the Modified Proctor number of 139.7 @ 5.8% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (5) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

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FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: | **Project No.:** Z057000415

Client: Township of Curu | **Technician:** Eddie Havens

Project: Cumru Township Fire Station | **DATE:** July 12, 2022

General Contractor: Ankiewicz | **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	139.7		145.6	**133.3**	12.3	**9.2**	95.0	95.4	x					building pad soils
2	139.7		145.5	**133.7**	11.8	**8.8**	95.0	95.7	x					building pad soils
3	139.7		145.5	**135.0**	10.5	**7.8**	95.0	96.6	x					building pad soils
4	139.7		145.5	**133.2**	12.3	**9.2**	95.0	95.3	x					building pad soils
5	139.7		144.2	**132.9**	11.3	**8.5**	95.0	95.1	x					building pad soils

Compaction Equipment Used: Vibratory: x Non-Vibratory ____ Smooth Steel Drum x Sheepsfoot ____ Brickfoot ____

Rubber-tired ____ Vibratory Plate ____ Walk Behind Steel Drum ____ Other: ____

Remarks:

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-3	139.7	5.8		x

Gauge Make: Troxler
Gauge Model #: 3440
Gauge Serial # 36191

Standard Counts: Moisture 665, Density 1980

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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Project: Cumru Township Fire Station
Date: 7/12/2022

Atlas Technical Consultants LLC
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DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: July 13, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (^{o}f)	PM (^{o}f)
Temperature:	76	90

Weather (AM): sunny

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr. -Atlas

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 4:00 PM
Arrive Base: 6:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began trucking in imported material from crusher site in order to continue bringing building pad to grade. Contractor then began bringing side area of pad to grade due to sizing discrepancy to extend width.
Contractor placed 1 lift (10"-12") of imported fill material. Contractor began consolidation of the material using a Wacker Neuson RC70 steel drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density. High moisture areas to be retested next day.

Atlas technician programmed the Modified Proctor number of 133.6 @ 7.6% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (6) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Curu **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** July 13, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	133.6		144.3	**126.9**	17.4	**13.7**	95.0	95.0	x					building pad soils
2	133.6		143.0	**127.3**	15.7	**12.3**	95.0	95.3	x					building pad soils
3	133.6		141.8	**127.1**	14.7	**11.6**	95.0	95.1	x					building pad soils
4	133.6		143.8	**129.4**	14.4	**11.1**	95.0	96.9	x					building pad soils side area
5	133.6		141.5	**128.5**	13.0	**10.1**	95.0	96.2	x					building pad soils side area
6	133.6		140.3	**127.1**	13.2	**10.4**	95.0	95.1	x					building pad soils side area

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-4	133.6	7.6		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 36191

Standard Counts

Moisture 658 Density 1958

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Station
Date: 7/13/2022






Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: July 14, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (^{o}f)	PM (^{o}f)
Temperature:	77	87

Weather (AM): Mostly Sunny

Weather (PM): Mostly Sunny

Key Persons On-Site:

Bob Miller Jr. -Atlas

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM

Departed Site: 2:30 PM
Arrive Base: 4:30 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began trucking in imported material from crusher site in order to continue bringing building pad to grade. Contractor placed 1 lift (6") of imported fill material. Contractor began consolidation of the material using a Wacker Neuson RC70 steel drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density. High moisture areas previously tested was retested to ensure soil was not retaining too much moisture. Approximately 2 thirds of pad brought closer to grade.

Atlas technician programmed the Modified Proctor number of 133.6 @ 7.6% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (9) tests (3 being retests) which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Curu **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** July 14, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	133.6		140.9	**129.3**	11.6	**9.0**	95.0	96.8	x					building pad soils
2	133.6		139.3	**127.7**	11.6	**9.1**	95.0	95.6	x					building pad soils
3	133.6		141.7	**128.2**	13.5	**10.5**	95.0	96.0	x					building pad soils
4	133.6		141.2	**126.9**	14.3	**11.3**	95.0	95.0	x					building pad soils
5	133.6		139.6	**126.9**	12.7	**10.0**	95.0	95.0	x					building pad soils
6	133.6		141.1	**129.2**	11.9	**9.2**	95.0	96.7	x					building pad soils
7	133.6		136.8	**127.0**	9.8	**7.7**	95.0	95.1	x					building pad soils retest
8	133.6		141.2	**130.1**	11.1	**8.5**	95.0	97.4	x					building pad soils retest
9	133.6		141.6	**129.2**	12.4	**9.6**	95.0	96.7	x					building pad soils retest

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-4	133.6	7.6		x

Gauge Make: Troxler
Gauge Model #: 3440
Gauge Serial # 36191

Standard Counts: Moisture 656 Density 1941

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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Project: Cumru Township Fire Station
Date: 7/14/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: July 15, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (^{o}f)	PM (^{o}f)
Temperature:	64	86

Weather (AM): Mostly Sunny

Weather (PM): Mostly Sunny

Key Persons On-Site:

Bob Miller Jr. -Atlas

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 3:30 PM
Arrive Base: 5:30 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began trucking in imported material from crusher site in order to continue bringing building pad to grade.
Contractor placed 1 lift (10"-12") of imported fill material. Contractor began consolidation of the material using a Wacker Neuson RC70 steel drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.
Approximately half of pad brought closer to grade.

Atlas technician programmed the Modified Proctor number of 139.7 @ 5.8% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (5) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Curu **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** July 15, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	139.7		145.3	**133.3**	12.0	**9.0**	95.0	95.4	x					building pad soils
2	139.7		145.7	**132.7**	13.0	**9.8**	95.0	95.0	x					building pad soils
3	139.7		146.0	**133.5**	12.5	**9.4**	95.0	95.6	x					building pad soils
4	139.7		146.5	**132.8**	13.7	**10.3**	95.0	95.1	x					building pad soils
5	139.7		147.2	**133.9**	13.3	**9.9**	95.0	95.8	x					building pad soils

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-3	139.7	5.8		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 36191

Standard Counts

Moisture 657 Density 1952

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

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Project: Cumru Township Fire Station
Date: 7/15/2022

Atlas Technical Consultants LLC
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tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: July 18, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	X	

	AM (°f)	PM (°f)
Temperature:	81	N/A

Weather (AM): Sun

Weather (PM): N/A

Key Persons On-Site:
Bob Miller (GC Super)

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 8:00 AM
Departed Site: 8:00 AM
Arrive Base: 9:00 AM

ATLAS was en route to jobsite when informed that job was cancelled for the day by ATLAS supervisor an hour before arrival

ATLAS was scheduled for soils compaction testing.

Reviewed By:
Robert Hawthorne

FIELD REPORT
SIGNED: *Timothy Hogan*

Atlas Technical Consultants LLC
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DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: August 2, 2022

Job No.: z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (^{o}f)	PM (^{o}f)
Temperature:	76	

Weather (AM): sunny

Weather (PM):

Key Persons On-Site:
Bob Miller Jr- superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 2:00 PM
Arrive Base: 4:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began to remediate drive way area. Once the unsuitable soil was removed contractor began to backfill loose import fill material and spread material to allow for it to dry.

Contractor placed (1) lift (6" loose thickness) of imported fill material. Contractor elected to begin compaction first thing next morning to allow material to dry further due to recent wet conditions. No compaction tests performed.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Station
Date: 8/2/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: August 3, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	62	87

Weather (AM): Mostly Sunny

Weather (PM): Mostly Sunny

Key Persons On-Site:
Bob Miller Jr- superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 6:00 AM
Arrived On-Site: 8:00 AM
Departed Site: 2:30 PM
Arrive Base: 4:30 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began compaction on soil placed previous day. Upon completion Atlas technician observed as contractor placed next lift of import fill material.

Contractor placed (1) lift (10" - 12" loose thickness) of imported fill material. Contractor consolidated the material using a Wacker Neusson RC70 steel drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.
Atlas technician programmed the Modified Proctor number of 133.6 @ 7.6% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (5) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** August 3, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	133.6		142.7	**128.8**	13.9	**10.8**	95.0	96.4	x					building pad driveway area
2	133.6		141.5	**128.5**	13.0	**10.1**	95.0	96.2	x					building pad driveway area
3	133.6		140.6	**127.9**	12.7	**9.9**	95.0	95.7	x					building pad driveway area
4	133.6		140.9	**127.4**	13.5	**10.6**	95.0	95.4	x					building pad driveway area
5	133.6		142.3	**128.1**	14.2	**11.1**	95.0	95.9	x					building pad driveway area

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-4	133.6	7.6		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 36191

Standard Counts

Moisture 661 Density 1927

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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Project: Cumru Township Fire Station
Date: 8/3/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: August 4, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	75	86

Weather (AM): Sunny

Weather (PM): Sunny

Key Persons On-Site:
Bob Miller Jr. - Superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 4:45 AM
Arrived On-Site: 6:45 AM
Departed Site: 2:45 PM
Arrive Base: 4:45 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Atlas technician observed as the contractor placed approximately 10 cubic yards of 4000 psi air-entrained concrete with High Early for the proposed downstream roadway endwall footing at Reed street and Hunter street intersection.

Atlas technicion inspected coated rebar to specification outlined on Drawing #122a revised proposed retaining wall section for rebar and concrete.

Atlas technician obtained the concrete ticket upon arrival and found that the contractor ordered the required mix design per specifications outlined on Drawing# 122a (4000 psi at 28 days).

Atlas technician observed the concrete pour as well as tested the slump, air content, and the temperature of the concrete per the applicable ASTM standards (C-143, C-1064, C-231). 1 set of (5) cylinders were cast (every 100 cubic yards) for compressive strength testing (4"x8" or 6"x12" cylinders were used).

The concrete cylinders were cast and placed at Cumru Township Recreational building to avoid direct sunlight and hot/ cold weather conditions. Concrete tested and sampled per project specification ASTM C-172 as outlined on the drawing specifications.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: August 4, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	75	86

Weather (AM): Sunny

Weather (PM): Sunny

Key Persons On-Site:
Bob Miller Jr. - Superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 4:45 AM
Arrived On-Site: 6:45 AM
Departed Site: 2:45 PM
Arrive Base: 4:45 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began compaction for previously placed 1' lift for building pad driveway area. After compaction and appropriate testing the next 1' lift of import fill material was placed and compacted by contractor. Millings were placed on building pad to serve as top fill for use as staging area.

Contractor placed (1) lift (10" - 12" loose thickness) of imported fill material. Contractor consolidated the material using a Wacker Neusson RC70 smooth steel drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Atlas technician programmed the Modified Proctor number of 133.6 @ 7.6% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (5) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

DAILY CONCRETE SUMMARY

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

Permit No:

Client: Township of Cumru
Project: Cumru Township Fire Station
Location: Cumru Township, PA

General Contractor: Ankiewicz
Concrete Contractor: Ankiewicz
Concrete Supplier: Rahn's Concrete

Field Technician: Eddie Havens
Project Number: Z057000415
DATE: 8/4/22

	AM	PM
Ambient Temp:	75	86
Weather:	Sunny	Sunny

Load No.	Slump (in.)	Conc. Temp. (^oF)	Air (%)	Unit Weight	Set No.	No. of Cylinders molded	Volume on truck (cy)	LOCATION OF POUR (Specify Column Lines, Footings, Slabs, Walls, Etc.)	Truck No.	Ticket #	Batched Time	Arrival Time	Poured Time End	Water Added On-Site (Gal)
1	5.25	85	5.30		1	5	10.0	Downstream Endwall footing	Pro30027	97961	7:00 AM	7:25 AM	8:00 AM	

CONCRETE STRENGTH REQUIRED (PSI)	DELIVERY TICKET STRENGTH (PSI)	TOTAL CUBIC YARDS OF CONCRETE PLACED TODAY
4,000	4,000	10

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** August 4, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	133.6		140.7	**127.1**	13.6	**10.7**	95.0	95.1	x					previous lift
2	133.6		141.7	**129.3**	12.4	**9.6**	95.0	96.8	x					previous lift
3	133.6		140.3	**128.7**	11.6	**9.0**	95.0	96.3	x					previous lift
4	133.6		141.7	**127.7**	14.0	**11.0**	95.0	95.6	x					previous lift
5	133.6		141.3	**127.5**	13.8	**10.8**	95.0	95.4	x					previous lift
6	133.6		143.3	**129.1**	14.2	**11.0**	95.0	96.6	x					current lift
7	133.6		140.6	**128.5**	12.1	**9.4**	95.0	96.2	x					current lift
8	133.6		140.6	**128.5**	12.1	**9.4**	95.0	96.2	x					current lift
9	133.6		140.0	**127.0**	13.0	**10.2**	95.0	95.1	x					current lift
10	133.6		140.7	**127.9**	12.8	**10.0**	95.0	95.7	x					current lift

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-4	133.6	7.6		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 36191

Standard Counts

Moisture 662 Density 1943

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

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Project: Cumru Township Fire Station
Date: 8/4/2022

Atlas Technical Consultants LLC
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tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Station
Date: 8/4/2022







Atlas Technical Consultants LLC
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DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: August 5, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	76	85

Weather (AM): Sunny

Weather (PM): Sunny

Key Persons On-Site:
Bob Miller Jr. - Superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 6:00 AM
Arrived On-Site: 8:00 AM
Departed Site: 2:00 PM
Arrive Base: 4:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began to place 1 lift of import fill material for building pad driveway area and begin compaction of material.

Contractor placed (1) lift (10" - 12" loose thickness) of imported fill material. Contractor consolidated the material using a Wacker Neusson RC70 smooth steel drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Atlas technician programmed the Modified Proctor number of 133.6 @ 7.6% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (5) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** August 5, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	133.6		140.0	**127.5**	12.5	**9.8**	95.0	95.4	x					Building Pad Driveway Area
2	133.6		141.4	**128.0**	13.4	**10.5**	95.0	95.8	x					Building Pad Driveway Area
3	133.6		140.9	**128.2**	12.7	**9.9**	95.0	96.0	x					Building Pad Driveway Area
4	133.6		140.5	**127.6**	12.9	**10.1**	95.0	95.5	x					Building Pad Driveway Area
5	133.6		141.1	**129.0**	12.1	**9.4**	95.0	96.6	x					Building Pad Driveway Area

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-4	133.6	7.6		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 36191

Standard Counts

Moisture 661 Density 1944

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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Project: Cumru Township Fire Station
Date: 8/5/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: August 8, 2022

Job No.: Z057000415

	AM (°f)	PM (°f)
Temperature:	76	85

Weather (AM): Sunny

Weather (PM): Sunny

Key Persons On-Site:
Bob Miller Jr. - Superintendent

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 6:30 AM
Arrived On-Site: 8:30 AM
Departed Site: 3:30 PM
Arrive Base: 5:30 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began to place 1 lift of import fill material for building pad driveway area and begin compaction of material. Contractor then began extension for driveway area.
Contractor placed (2) lifts (10" - 12" loose thickness) of imported fill material. Contractor consolidated the material using a Wacker Neusson RC70 smooth steel drum roller.
Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Atlas technician programmed the Modified Proctor number of 133.6 @ 7.6% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (5) tests (per lift) which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: | **Project No.:** Z057000415

Client: Township of Cumru | **Technician:** Eddie Havens

Project: Cumru Township Fire Station | **DATE:** August 8, 2022

General Contractor: Ankiewicz | **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY		PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
							SPEC.	ACTUAL						
1	133.6		139.7	**127.0**	12.7	**10.0**	95.0	95.1	x					Building Pad Driveway Area
2	133.6		141.1	**127.5**	13.6	**10.7**	95.0	95.4	x					Building Pad Driveway Area
3	133.6		142.1	**128.4**	13.7	**10.7**	95.0	96.1	x					Building Pad Driveway Area
4	133.6		141.0	**127.1**	13.9	**10.9**	95.0	95.1	x					Building Pad Driveway Area
5	133.6		140.7	**127.1**	13.6	**10.7**	95.0	95.1	x					Building Pad Driveway Area
6	133.6	1	142.2	**127.2**	15.0	**11.8**	95.0	95.2	x					Driveway extension
7	133.6	1	142.0	**127.6**	14.4	**11.3**	95.0	95.5	x					Driveway extension
8	133.6	2	142.3	**129.1**	13.2	**10.2**	95.0	96.6	x					Driveway extension
9	133.6	2	142.2	**128.9**	13.3	**10.3**	95.0	96.5	x					Driveway extension

Compaction Equipment Used: Vibratory: x Non-Vibratory ____ Smooth Steel Drum x Sheepsfoot ____ Brickfoot ____

Rubber-tired ____ Vibratory Plate ____ Walk Behind Steel Drum ____ Other: ____

Remarks:

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-4	133.6	7.6		x

Gauge Make: Troxler
Gauge Model #: 3440
Gauge Serial # 36191

Standard Counts: Moisture 657, Density 1933

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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Project: Cumru Township Fire Station
Date: 8/8/2022






Atlas Technical Consultants LLC
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tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Station
Date: 8/8/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: August 9, 2022

Job No.: Z057000415

	AM (°f)	PM (°f)
Temperature:	82	90

Weather (AM): Sunny

Weather (PM): Sunny

Key Persons On-Site:
Bob Miller Jr. - Superintendent

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 6:30 AM
Arrived On-Site: 8:30 AM
Departed Site: 2:30 PM
Arrive Base: 4:30 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor completed compaction for trench parallel to roadway, placement of import fill material for driveway and extension, and compaction for driveway and extension.

Contractor placed approximately (4) lifts (10" - 12" loose thickness) of imported fill material. Contractor consolidated the material using a Wacker Neusson RC70 smooth steel drum roller.
Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Atlas technician programmed the Modified Proctor number of 133.6 @ 7.6% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (2) tests (per lift) which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Reports for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: | **Project No.:** Z057000415

Client: Township of Cumru | **Technician:** Eddie Havens

Project: Cumru Township Fire Station | **DATE:** August 9, 2022

General Contractor: Ankiewicz | **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY		PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
							SPEC.	ACTUAL						
1	133.6		144.0	**130.9**	13.1	**10.0**	95.0	98.0	x					Building Pad Driveway Area
2	133.6		143.1	**130.8**	12.3	**9.4**	95.0	97.9	x					Building Pad Driveway Area
3	133.6		141.3	**128.3**	13.0	**10.1**	95.0	96.0	x					Building Pad Driveway Area
4	133.6		142.0	**129.4**	12.6	**9.7**	95.0	96.9	x					Building Pad Driveway Area
5	133.6		141.6	**128.6**	13.0	**10.1**	95.0	96.3	x					Building Pad Driveway Area
6	133.6		144.0	**130.2**	13.8	**10.6**	95.0	97.5	x					Driveway Extension
7	133.6		142.3	**129.0**	13.3	**10.3**	95.0	96.6	x					Driveway Extension
8	133.6	1	142.2	**129.6**	12.6	**9.7**	95.0	97.0	x					Driveway Trench
9	133.6	1	142.0	**128.0**	14.0	**10.9**	95.0	95.8	x					Driveway Trench
10	133.6	2	142.6	**127.1**	15.5	**12.2**	95.0	95.1	x					Drriveway Trench

Compaction Equipment Used: Vibratory: x Non-Vibratory ____ Smooth Steel Drum x Sheepsfoot ____ Brickfoot ____

Rubber-tired ____ Vibratory Plate ____ Walk Behind Steel Drum ____ Other: ____

Remarks:

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-4	133.6	7.6		x

Gauge Make: Troxler
Gauge Model #: 3440
Gauge Serial # 36191

Standard Counts: Moisture 660 Density 1937

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** August 9, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY		PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
							SPEC.	ACTUAL						
11	133.6	2	142.6	**127.3**	15.3	**12.0**	95.0	95.3	x					Driveway Trench
12	133.6	3	140.6	**127.0**	13.6	**10.7**	95.0	95.1	x					Driveway Trench
13	133.6	3	142.4	**127.3**	15.1	**11.9**	95.0	95.3	x					Driveway Trench

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-4	133.6	7.6		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 36191

Standard Counts	
Moisture	Density
660	1937

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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Project: Cumru Township Fire Station
Date: 8/9/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: August 10, 2022

Job No.: Z057000415

	AM (°f)	PM (°f)
Temperature:	74	85

Weather (AM): sunny

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr. - Superintendent

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 5:00 AM
Arrived On-Site: 7:00 AM
Departed Site: 2:00 PM
Arrive Base: 4:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Atlas technician observed as the contractor placed approximately 7 cubic yards of 4000 psi air-entrained concrete with Super Plasticizer and High Early for the proposed downstream roadway endwall at Reed street and Hunter street intersection.

Atlas technician inspected coated rebar to specification outlined on Drawing #122a revised proposed retaining wall section for rebar and concrete.

Atlas technician obtained the concrete ticket upon arrival and found that the contractor ordered the required mix design per specifications outlined on Drawing# 122a (4000 psi at 28 days).

Atlas technician observed the concrete pour as well as tested the slump, air content, and the temperature of the concrete per the applicable ASTM standards (C-143, C-1064, C-231). 1 set of (5) cylinders were cast (every 100 cubic yards) for compressive strength testing 4"x8".

The concrete cylinders were cast and placed at Cumru Township Recreational building to avoid direct sunlight and hot/ cold weather conditions. Concrete tested and sampled per project specification ASTM C-172 as outlined on the drawing specifications.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: August 10, 2022

Job No.: Z057000415

	AM (^{o}f)	PM (^{o}f)
Temperature:	74	85

Weather (AM): Sunny

Weather (PM): Sunny

Key Persons On-Site:
Bob Miller Jr. - Superintendent

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 5:00 AM
Arrived On-Site: 7:00 AM
Departed Site: 2:00 PM
Arrive Base: 4:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor trucked in import fill material and began placement for building pad driveway area to bring to grade. Contractor began grading and compaction of final driveway lift.

Contractor placed (1) lift (10" - 12" loose thickness) of imported fill material. Contractor consolidated the material using a Wacker Neusson RC70 smooth steel drum roller.

Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Atlas technician programmed the Modified Proctor number of 133.6 @ 7.6% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (5) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

DAILY CONCRETE SUMMARY

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

Permit No:

Client: Township of Cumru
Project: Cumru Township Fire Station
Location: Cumru Township, PA

General Contractor: Ankiewicz
Concrete Contractor: Ankiewicz
Concrete Supplier: Rahn's Concrete

Field Technician: Eddie Havens
Project Number: Z057000415
DATE: 8/10/22

	AM	PM
Ambient Temp:	74	85
Weather:	Sunny	sunny

Load No.	Slump (in.)	Conc. Temp. (^oF)	Air (%)	Unit Weight	Set No.	No. of Cylinders molded	Volume on truck (cy)	LOCATION OF POUR (Specify Column Lines, Footings, Slabs, Walls, Etc.)	Truck No.	Ticket #	Batched Time	Arrival Time	Poured Time End	Water Added On-Site (Gal)
1	5.50	86	5.10		1	5	7.0	Downstream Endwall	Pro30088	98103	9:55 AM	10:15 AM	10:45 AM	

CONCRETE STRENGTH REQUIRED (PSI)	DELIVERY TICKET STRENGTH (PSI)	TOTAL CUBIC YARDS OF CONCRETE PLACED TODAY
4,000	4,000	7

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Township Fire Station **DATE:** August 10, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	133.6		142.3	**127.6**	14.7	**11.5**	95.0	95.5	x					Building pad driveway area
2	133.6		141.9	**127.7**	14.2	**11.1**	95.0	95.6	x					Building pad driveway area
3	133.6		142.1	**128.8**	13.3	**10.3**	95.0	96.4	x					Building pad driveway area
4	133.6		141.4	**128.3**	13.1	**10.2**	95.0	96.0	x					Building pad driveway area
5	133.6		142.7	**129.1**	13.6	**10.5**	95.0	96.6	x					Building pad driveway area

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS-4	133.6	7.6		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 36191

Standard Counts

Moisture 657 Density 1943

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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Project: Cumru Township Fire Station
Date: 8/10/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: August 17, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	60	

Weather (AM): Mostly Sunny

Weather (PM):

Key Persons On-Site:
Jeff Skinner - sub Superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 6:00 AM
Arrived On-Site: 8:00 AM
Departed Site: 11:00 AM
Arrive Base: 1:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began preparing roadway for further work. Roadway was intended to be complete in order to perform proof roll of roadway after stripping asphalt remediating until roadway is at depth required to backfill stone base.

Upon inquiring with Superintendent and contractor it was decided that work would not be completed by end of day for Atlas technician to observe. Atlas technician then departed site.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township, PA

Contractor: Ankiewicz

Date: August 22, 2022

Job No.: z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	76	78

Weather (AM): p. cloudy

Weather (PM): p. cloudy

Key Persons On-Site:
Bob Miller Jr. Superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 2:00 PM
Arrive Base: 4:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Atlas technician observed as the contractor placed approximately 16 cubic yards of 4000psi air-entrained concrete for the upstream headwall footing located at Reed street and hunter street intersection.

Atlas technician obtained the concrete ticket upon arrival and found that the contractor ordered the required mix design per specifications outlined on Drawing# 122a (4000psi at 28 days). Rebar was inspected to specifications as per Drawing 122a for revised retaining wall section.

Atlas technician observed the concrete pour as well as tested the slump, air content, and the temperature of the concrete per the applicable ASTM standards (C-143, C-1064, C-231). 1 set of (3) cylinders were cast (every 100 cubic yards) for compressive strength testing (4"x8" or 6"x12" cylinders were used).

The concrete cylinders were cast and placed at Cumru Township Recreation building to avoid direct sunlight and hot/ cold weather conditions. Concrete tested and sampled per project specification ASTM C-172 as outlined on the drawing specifications.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

DAILY CONCRETE SUMMARY

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

Permit No:

Client: Township of Cumru
General Contractor: Ankiewicz
Field Technician: Eddie Havens
Project: Cumru Township Fire Station
Concrete Contractor: Ankiewicz
Project Number: Z057000415
Location: Cumru Township, PA
Concrete Supplier: Esterly concrete
DATE: 8/22/22

	AM	PM
Ambient Temp:	76	78
Weather:	p. coudy	p. cloudy

Load No.	Slump (in.)	Conc. Temp. (^oF)	Air (%)	Unit Weight	Set No.	No. of Cylinders molded	Volume on truck (cy)	LOCATION OF POUR (Specify Column Lines, Footings, Slabs, Walls, Etc.)	Truck No.	Ticket #	Batched Time	Arrival Time	Poured Time End	Water Added On-Site (Gal)
1	3.50	77	4.90		1	3	8.0	Upstream headwall footing	5	na	on site mix	12:30 PM	12:45 PM	
2							8.0	Upstream headwall footing	5	na	on site mix	1:45 PM	2:00 PM	

CONCRETE STRENGTH REQUIRED (PSI)	DELIVERY TICKET STRENGTH (PSI)	TOTAL CUBIC YARDS OF CONCRETE PLACED TODAY
4,000	4,000	16

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Township Fire Station
Date: 8/22/2022

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Township

Contractor: Ankiewicz

Date: August 25, 2022

Job No.: Z057000415

	AM (°f)	PM (°f)
Temperature:	78	89

Weather (AM): Sun

Weather (PM): Sun

Key Persons On-Site:
Bob Miller (GC Super)

	YES	NO
Spec's & Drawings Available On-Site:		x

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 1:00 PM
Arrive Base: 3:00 PM

ATLAS arrived as scheduled and observed the following

ATLAS reported to Bob Miller (GC Super) upon arrival and was informed of concrete placement for the Headwall located at the end of Reed Street next to Cumru Twp Fire Station

7 yards of 4,000 PSI AE concrete was delivered and placed by Easterly Concrete on this day's pour

1 set of 5 4x8 concrete cylinders were cast for compressive strength testing.

ATLAS performed required slump and air test as per ASTM standards

Please see Concrete Summary and attached photos for more information

Reviewed By:
Robert Hawthorne

FIELD REPORT

SIGNED: *Timothy Hogan*

DAILY CONCRETE SUMMARY

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

Permit No:

Client: Township of Cumru
General Contractor: Ankiewicz Enterprises
Field Technician: Timothy Hogan
Project: Cumru Township Fire Station
Concrete Contractor: RJS Construction
Project Number: Z057000415
Location: Cumru Township
Concrete Supplier: Easterly Concrete
DATE: 8/25/22

	AM	PM
Ambient Temp:	78	89
Weather:	Sun	Sun

Load No.	Slump (in.)	Conc. Temp. (°F)	Air (%)	Unit Weight	Set No.	No. of Cylinders molded	Volume on truck (cy)	LOCATION OF POUR (Specify Column Lines, Footings, Slabs, Walls, Etc.)	Truck No.	Ticket #	Batched Time	Arrival Time	Poured Time End	Water Added On-Site (Gal)
1	5.00	94	4.00	NA	1	5	7.0	Headwall	1	17508	10:00AM	10:20AM	11:00AM	NA
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														

CONCRETE STRENGTH REQUIRED (PSI)	DELIVERY TICKET STRENGTH (PSI)	TOTAL CUBIC YARDS OF CONCRETE PLACED TODAY
4,000	4,000	7

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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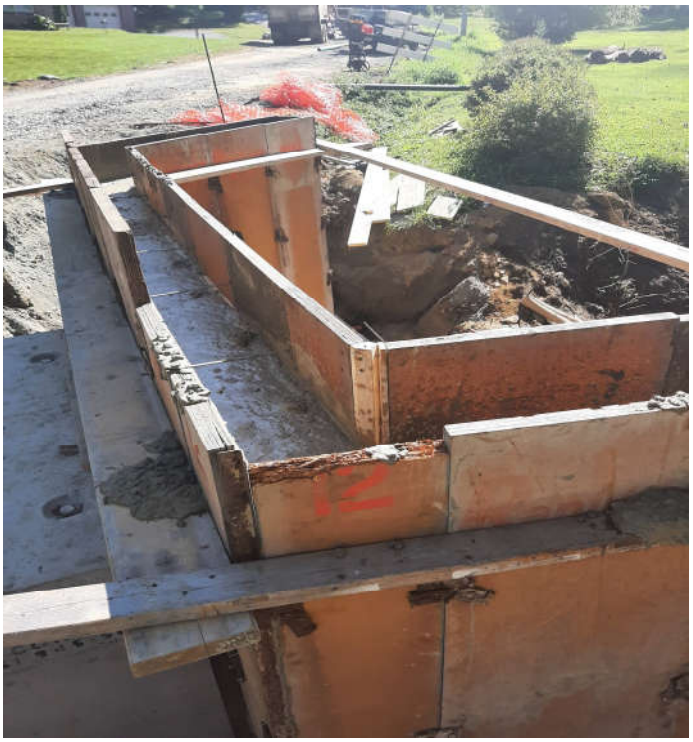
tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Twp Fire Station Mohnton, PA
Date: 08-25-2022



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DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Twp Fire Station

Location: Cumru Twp. PA

Contractor: Ankiewicz

Date: October 25, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	61	

Weather (AM): light rain

Weather (PM):

Key Persons On-Site:
Bob Miller Jr - Superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:30 AM
Departed Site: 12:00 PM
Arrive Base: 2:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began to grade and compact 2A modified stone from quarry for stone subbase for raised Welsh rd. approximately 100ft of subbase was prepared.

Contractor placed 1 lift (10" - 12" loose thickness) of imported 2A modified. Contractor consolidated the material using a Wacker Neuson RC70 steel drum roller.
Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Atlas technician programmed the Modified Proctor number of 152.8 @ 6.4% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (3) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: | **Project No.:** Z057000415

Client: Township of Cumru | **Technician:** Eddie Havens

Project: Cumru Twp. Fire Station | **DATE:** October 25, 2022

General Contractor: Ankiewicz | **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	152.8		150.9	**148.2**	2.7	**1.8**	95.0	97.0	x					welsh rd subbase (100' section located at municipal bldg end
2	152.8		147.3	**145.6**	1.7	**1.2**	95.0	95.3	x					welsh rd subbase (100' section located at municipal bldg end
3	152.8		150.1	**146.7**	3.4	**2.3**	95.0	96.0	x					welsh rd subbase (100' section located at municipal bldg end

Compaction Equipment Used: Vibratory: x Non-Vibratory ____ Smooth Steel Drum x Sheepsfoot ____ Brickfoot ____

Rubber-tired ____ Vibratory Plate ____ Walk Behind Steel Drum ____ Other: ____

Remarks:

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
2A Modified	152.8	6.4		x

Gauge Make: Troxler
Gauge Model #: 3440
Gauge Serial # 29069

Method: A Backscatter B Direct Transmission B

Standard Counts	
Moisture	Density
664	1658

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
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tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Twp. Fire Station
Date: 10/25/2022

Atlas Technical Consultants LLC
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DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Twp. PA

Contractor: Ankiewicz

Date: October 31, 2022

Job No.: Z057000415

	AM (°f)	PM (°f)
Temperature:	51	61

Weather (AM): Cloudy

Weather (PM): Cloudy

Key Persons On-Site:
Bob Miller Jr- Superintendent

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 3:00 PM
Arrive Base: 5:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began to grade and compact Welsh rd. Approximately 200 ft of 2A modified stone placed as subbase for welsh rd.

Contractor placed 1 lift (10" - 12" loose thickness) of imported 2A modified stone. Contractor consolidated the material using a smooth vibratory drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Atlas technician programmed the Modified Proctor number of 152.8 @ 6.4% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (2) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

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FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Twp. Fire Station **DATE:** October 31, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY		PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
							SPEC.	ACTUAL						
1	152.8		149.3	**146.7**	2.6	**1.8**	95.0	96.0	x					welsh road
2	152.8		151.1	**147.1**	4.0	**2.7**	95.0	96.3	x					welsh road
3	152.8		149.5	**146.3**	3.2	**2.2**	95.0	95.7	x					welsh road
4	152.8		148.2	**145.9**	2.3	**1.6**	95.0	95.5	x					welsh road
5	152.8		149.8	**145.6**	4.2	**2.9**	95.0	95.3	x					Drive way (welsh rd side)
6	152.8		150.6	**147.5**	3.1	**2.1**	95.0	96.5	x					Drive way (welsh rd side)
7	152.8		153.0	**149.1**	3.9	**2.6**	95.0	97.6	x					Drive way (welsh rd side)

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
2A Modified	152.8	6.4		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 29069

Standard Counts

Moisture	Density
667	1652

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

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Project: Cumru Twp. Fire Station
Date: 10/31/2022

Atlas Technical Consultants LLC
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DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Twp. PA

Contractor: Ankiewicz

Date: November 1, 2022

Job No.: Z057000415

	AM (°f)	PM (°f)
Temperature:	58	65

Weather (AM): sunny

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr- Superintendent

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 6:30 AM
Arrived On-Site: 8:30 AM
Departed Site: 1:30 PM
Arrive Base: 3:30 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began to grade and compact Welsh rd. Approximately 200 ft of 2A modified stone placed as subbase for welsh rd.

Contractor placed 1 lift (10" - 12" loose thickness) of imported 2A modified stone. Contractor consolidated the material using a smooth vibratory drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Atlas technician programmed the Modified Proctor number of 152.8 @ 6.4% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (2) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
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Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Twp. Fire Station **DATE:** November 1, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY		PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
							SPEC.	ACTUAL						
1	152.8		154.2	**150.0**	4.2	**2.8**	95.0	98.2	x					welsh road
2	152.8		153.4	**148.6**	4.8	**3.2**	95.0	97.3	x					welsh road
3	152.8		150.8	**147.3**	3.5	**2.4**	95.0	96.4	x					welsh road
4	152.8		152.6	**148.2**	4.4	**3.0**	95.0	97.0	x					welsh road

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
2A Modified	152.8	6.4		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 29069

Standard Counts	
Moisture	Density
675	1660

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

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Project: Cumru Twp. Fire Station
Date: 11/1/2022

Atlas Technical Consultants LLC
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DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Twp. PA

Contractor: Ankiewicz

Date: November 2, 2022

Job No.: Z057000415

	YES	NO
Spec's & Drawings Available On-Site:	x	

	AM (°f)	PM (°f)
Temperature:	54	69

Weather (AM): sunny

Weather (PM): mostly sunny

Key Persons On-Site:
Bob Miller Jr- Superintendent

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 1:30 PM
Arrive Base: 3:30 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began grading and compaction of Welsh rd driveway entrance.

Contractor placed 1 lift (10" - 12" loose thickness) of imported 2A modified. Contractor Contractor consolidated the material using a smooth vibratory drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Atlas technician programmed the Modified Proctor number of 152.8 @ 6.4% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (3) tests which was sufficient for the size of the area noted above. After careful observation, ATC technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
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FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Twp. Fire Station **DATE:** November 2, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	152.8		149.5	**146.7**	2.8	**1.9**	95.0	96.0	x					welsh road driveway entrance
2	152.8		147.5	**145.3**	2.2	**1.5**	95.0	95.1	x					welsh road driveway entrance
3	152.8		148.9	**145.8**	3.1	**2.1**	95.0	95.4	x					welsh road driveway entrance

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
2A Modified	152.8	6.4		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 29069

Standard Counts

Moisture 657 Density 1644

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

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Project: Cumru Twp fire station
Date: 11/2/2022

Atlas Technical Consultants LLC
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DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Twp. PA

Contractor: Ankiewicz

Date: November 3, 2022

Job No.: Z057000415

	AM (°f)	PM (°f)
Temperature:	48	68

Weather (AM): sunny

Weather (PM): mostly sunny

Key Persons On-Site:
Bob Miller Jr- Superintendent

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 1:30 PM
Arrive Base: 3:30 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began grading and compaction of Welsh rd driveway entrance.

Contractor placed 1 lift (10" - 12" loose thickness) of imported 2A modified. Contractor Contractor consolidated the material using a smooth vibratory drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Atlas technician programmed the Modified Proctor number of 152.8 @ 6.4% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (3) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

Atlas Technical Consultants LLC
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FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Twp. Fire Station **DATE:** November 3, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	152.8		149.3	**145.9**	3.4	**2.3**	95.0	95.5	x					welsh road driveway entrance
2	152.8		150.4	**147.3**	3.1	**2.1**	95.0	96.4	x					welsh road driveway entrance
3	152.8		150.8	**146.8**	4.0	**2.7**	95.0	96.1	x					welsh road driveway entrance

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
2A Modified	152.8	6.4		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 29069

Standard Counts

Moisture 668 Density 1654

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
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Project: Cumru Twp fire station
Date: 11/3/2022

Atlas Technical Consultants LLC
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tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Twp. PA

Contractor: Ankiewicz

Date: November 4, 2022

Job No.: Z057000415

	AM (°f)	PM (°f)
Temperature:	51	70

Weather (AM): p. cloudy

Weather (PM): sunny

Key Persons On-Site:
Bob Miller Jr- Superintendent

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 7:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 2:00 PM
Arrive Base: 4:00 PM

Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began grading and compaction of Welsh rd driveway entrance.

Contractor placed 1 lift (10" - 12" loose thickness) of imported 2A modified. Contractor Contractor consolidated the material using a smooth vibratory drum roller. Job specifications states that the backfill material must be compacted to 95% of the maximum density determined by ASTM D1557 Modified Proctor Density.

Atlas technician programmed the Modified Proctor number of 152.8 @ 6.4% into the density gauge and began conducting tests on the backfill material.

Atlas technician conducted (3) tests which was sufficient for the size of the area noted above. After careful observation, Atlas technician recorded the compaction readings and verified that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By: GEORGE WIESNER

FIELD REPORT

SIGNED: *Eddie Havens*

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FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Eddie Havens

Project: Cumru Twp. Fire Station **DATE:** November 4, 2022

General Contractor: Ankiewicz **Grading Contractor:** Ankiewicz

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY SPEC.	% OF MAX DENSITY ACTUAL	PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
1	152.8		150.5	**146.3**	4.2	**2.9**	95.0	95.7	x					welsh road driveway entrance
2	152.8		150.9	**145.9**	5.0	**3.4**	95.0	95.5	x					welsh road driveway entrance
3	152.8		151.2	**146.7**	4.5	**3.1**	95.0	96.0	x					welsh road driveway entrance

Compaction Equipment Used: Vibratory: x Non-Vibratory _____ Smooth Steel Drum x Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
2A Modified	152.8	6.4		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 29069

Standard Counts

Moisture 666 Density 1659

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

Atlas Technical Consultants LLC
3 Terri Lane; Suite 4
Burlington, New Jersey 08016
tel. 609-386-8800 · fax 609-386-7951

Project: Cumru Twp fire station
Date: 11/4/2022

Atlas Technical Consultants LLC
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tel. 609-386-8800 · fax 609-386-7951

DAILY REPORT / PROJECT OBSERVATIONS

Permit No:

Client: Township of Cumru

Project Name: Cumru Township Fire Station

Location: Cumru Twp. PA

Contractor: Ankiewicz

Date: November 10, 2022

Job No.: Z057000415

	AM (°f)	PM (°f)
Temperature:	66	73

Weather (AM): Sunny

Weather (PM): Sunny

Key Persons On-Site:
Bob Miller- Super

	YES	NO
Spec's & Drawings Available On-Site:	x	

THE FOLLOWING WAS NOTED:

Depart Base: 8:00 AM
Arrived On-Site: 9:00 AM
Departed Site: 4:00 PM
Arrive Base: 5:00 PM

Ankiewicz.: Backfill Observation & Density Testing
Atlas Technical Consultants LLC reported to site as scheduled to observe the following:

Upon arrival, Atlas technician observed as the contractor began to backfill the Driveway extension for the proposed Fire House. And tested footings for compaction (see photos)

Contractor placed approximately (2) lifts (2"-4" loose thickness) of onsite soil material (DGA) at the driveway .Contractor consolidated the material using a two drum roller During the compaction process Atlas technician encountered no movement underneath the compaction equipment.

Job specifications states that the backfill material must be compacted to at least 95% of the maximum density determined by ASTM D1557 Modified Proctor Density. Atlas technician programmed the Modified Proctor number of 135.0 @ 6.6 &132.4 @ 8.7% into the density gauge and began conducting tests on each lift of the backfill material.

Atlas technician conducted several tests (per lift) sufficient for the size of the areas noted above. After careful observation, Atlas technician recorded the compaction readings and found that the backfill material met the above specification requirements.

See attached Field Density Report for results.

See attached photos.

Reviewed By:
Robert Hawthorne

FIELD REPORT
SIGNED: *Vincent Taylor*

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FIELD DENSITY - NUCLEAR METHOD

ASTM D-6938

Permit No: _____ **Project No.:** Z057000415

Client: Township of Cumru **Technician:** Vincent Taylor

Project: Cumru Township Fire Station **DATE:** 11/10/2022

General Contractor: Ankiewicz **Grading Contractor:** _____

TEST NO.	PROCTOR NO. *	LIFT NO.	WET DENSITY (PCF)	DRY DENSITY (PCF)	MOISTURE (PCF)	MOISTURE %	% OF MAX DENSITY		PASS	FAIL	** RETEST NO.	ELEVATION BELOW FINISH GRADE (FT.)	DEPTH BELOW PLAN SUBGRADE	LOCATION GRID COORDINATES OR ROADWAY STATION
							SPEC.	ACTUAL						
1	152.8	1	155.6	**148.8**	6.8	**4.6**	95.0	97.4	x				4	Drive Way
2	152.8	1	153.6	**145.9**	7.7	**5.3**	95.0	95.5	x				4	Drive Way
3	152.8	1	159.7	**151.1**	8.6	**5.7**	95.0	98.9	x				4	Drive Way
4	152.8	2	157.0	**148.0**	9.0	**6.1**	95.0	96.9	x				4	Drive Way
5	152.8	2	158.9	**150.0**	8.9	**5.9**	95.0	98.2	x				4	Drive Way
6	152.8	2	155.6	**147.9**	7.7	**5.2**	95.0	96.8	x				4	Drive Way
7	132.4	1	139.4	**129.3**	10.1	**7.8**	95.0	97.7	x				6	footings
8	132.4	1	138.7	**129.0**	9.7	**7.5**	95.0	97.4	x				6	footings
9	132.4	1	137.8	**127.6**	10.2	**8.0**	95.0	96.4	x				6	footings
10														

Compaction Equipment Used: Vibratory: _____ Non-Vibratory _____ Smooth Steel Drum _____ Sheepsfoot _____ Brickfoot _____

Rubber-tired _____ Vibratory Plate _____ Walk Behind Steel Drum _____ Other: _____

Remarks: _____

*Proctor No.	Maximum Density (PCF)	Opt. Moisture (%)	Std. Proctor	Mod. Proctor
BS # 1	132.4	8.7		x
BS # 2	135	6.6		x
2A Modified	152.8	6.4		x

Gauge Make: Troxler

Gauge Model #: 3440

Gauge Serial # 29762

Standard Counts

Moisture	Density
666	1659

Method: A Backscatter B Direct Transmission B

Soil Density Report Disclaimer - "These test results should be regarded as indicators of the degree of compaction attained at these spot locations and depths only. The degree of compaction at greater depths in the fill and at other locations as well as the condition of the underlying soils has not been determined by this office."

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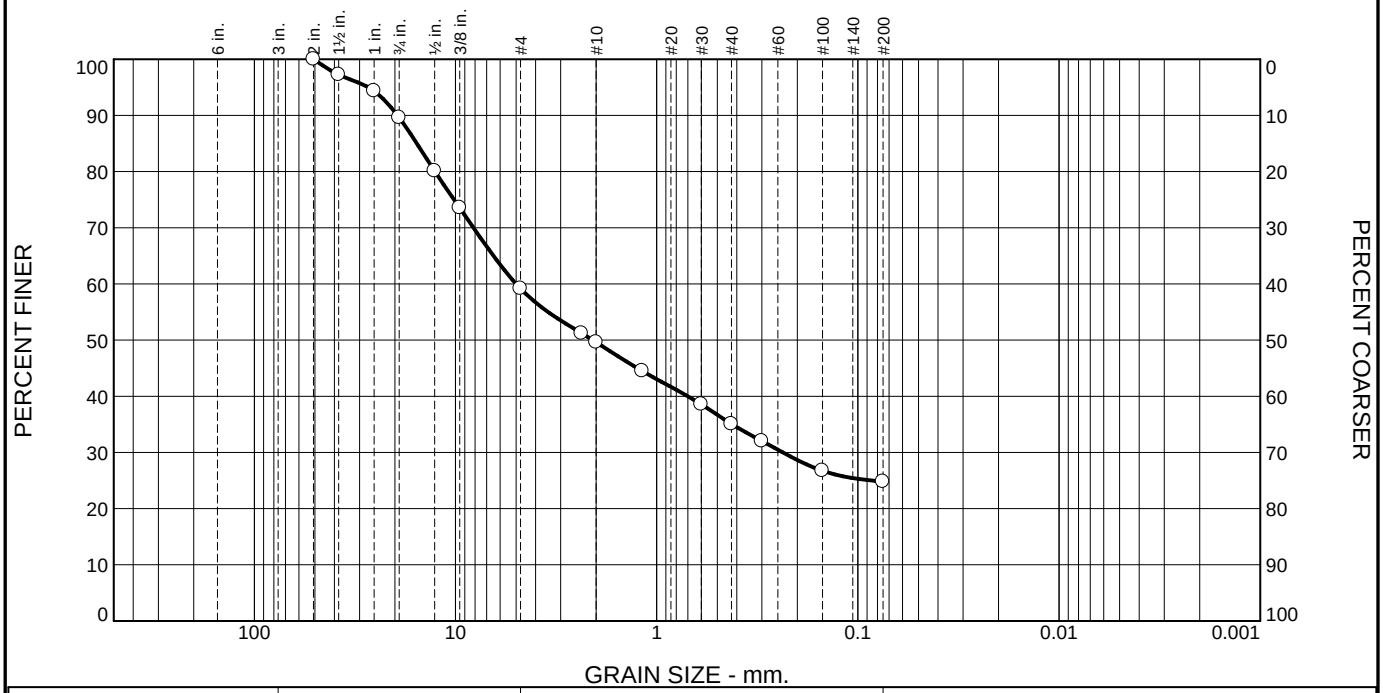
Project: Cumru Township Fire Station
Date: 11/10/2022

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	10.4	30.4	9.6	14.5	10.3	24.8	

Test Results (ASTM C 136 & ASTM C117)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
2"	100.0		
1-1/2"	97.2		
1"	94.3		
3/4"	89.6		
1/2"	80.1		
3/8"	73.5		
#4	59.2		
#8	51.2		
#10	49.6		
#16	44.5		
#30	38.6		
#40	35.1		
#50	32.0		
#100	26.7		
#200	24.8		

* (no specification provided)

Material Description

brown silty gravel with sand

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= GM **AASHTO (M 145)=** A-1-b

Coefficients

D_{90}= 19.4145 D_{85}= 15.5607 D_{60}= 4.9955
D_{50}= 2.0824 D_{30}= 0.2363 D_{15}=
D_{10}= C_u= C_c=

Remarks

Moisture: 11.3%

Date Received: 5/11/2022 **Date Tested:** 5/19/2022

Tested By: Scott M & Chuck R

Checked By: Scott McLaughlin

Title: Laboratory Manager

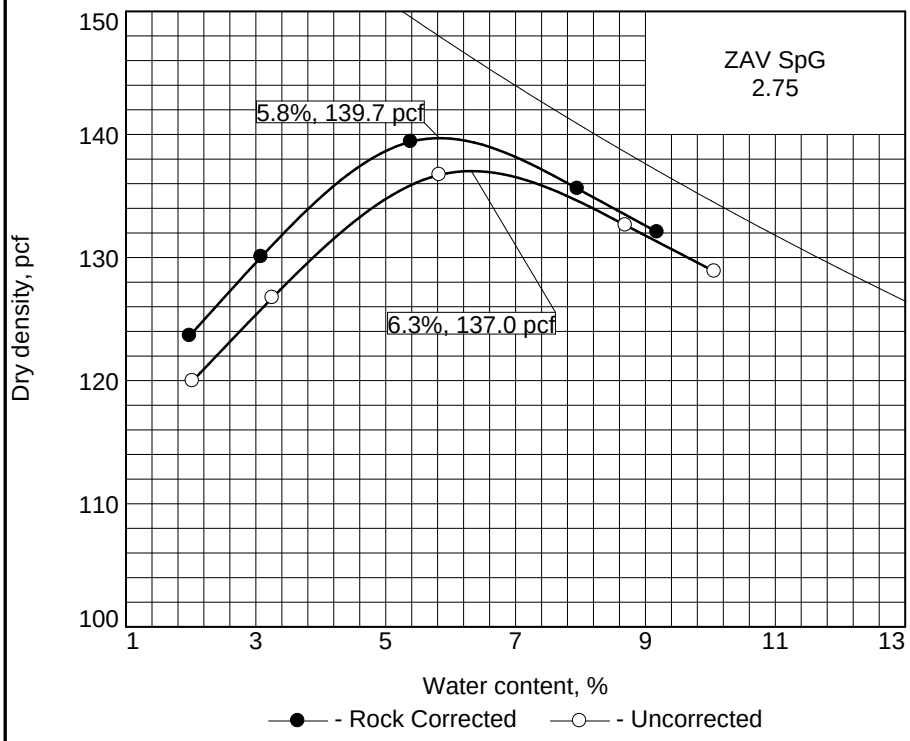
Location: On-site
Sample Number: BS-3

Date Sampled: 5/11/2022

Client: Township of Cumru
Project: Cumru Township Fire Station
Cumru Township, NJ
Project No: Z057000415

Figure

COMPACTION TEST REPORT



Curve No.

Test Specification:
ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Preparation Method	moist
Hammer Wt.	10 lb.
Hammer Drop	18 in.
Number of Layers	five
Blows per Layer	56
Mold Size	0.075 cu. ft.

Test Performed on Material Passing 3/4 in. **Sieve**

NM 11.3 **LL** NV **PI** NP
Sp.G. (ASTM D 854)
%>3/4 in. 10.4 **%<No.200** 24.8
USCS GM **AASHTO** A-1-b
Date Sampled 5/11/2022
Date Tested 5/19/2022
Tested By Chuck R

TESTING DATA

	1	2	3	4	5	6
WM + WS	10928.1	11398.1	11380.2	11301.5	10640.2	
WM	6476.1	6476.1	6476.1	6476.1	6476.1	
WW + T #1	1116.7	1108.3	1139.5	1070.3	1229.9	
WD + T #1	1090.4	1062.5	1071.4	1000.0	1211.0	
TARE #1	282.8	276.5	288.1	301.5	278.4	
WW + T #2						
WD + T #2						
TARE #2						
MOISTURE	3.1	5.4	8.0	9.2	2.0	
DRY DENSITY	130.1	139.4	135.6	132.1	123.6	

ROCK CORRECTED TEST RESULTS	UNCORRECTED
Maximum dry density = 139.7 pcf	137.0 pcf
Optimum moisture = 5.8 %	6.3 %

Material Description
brown silty gravel with sand

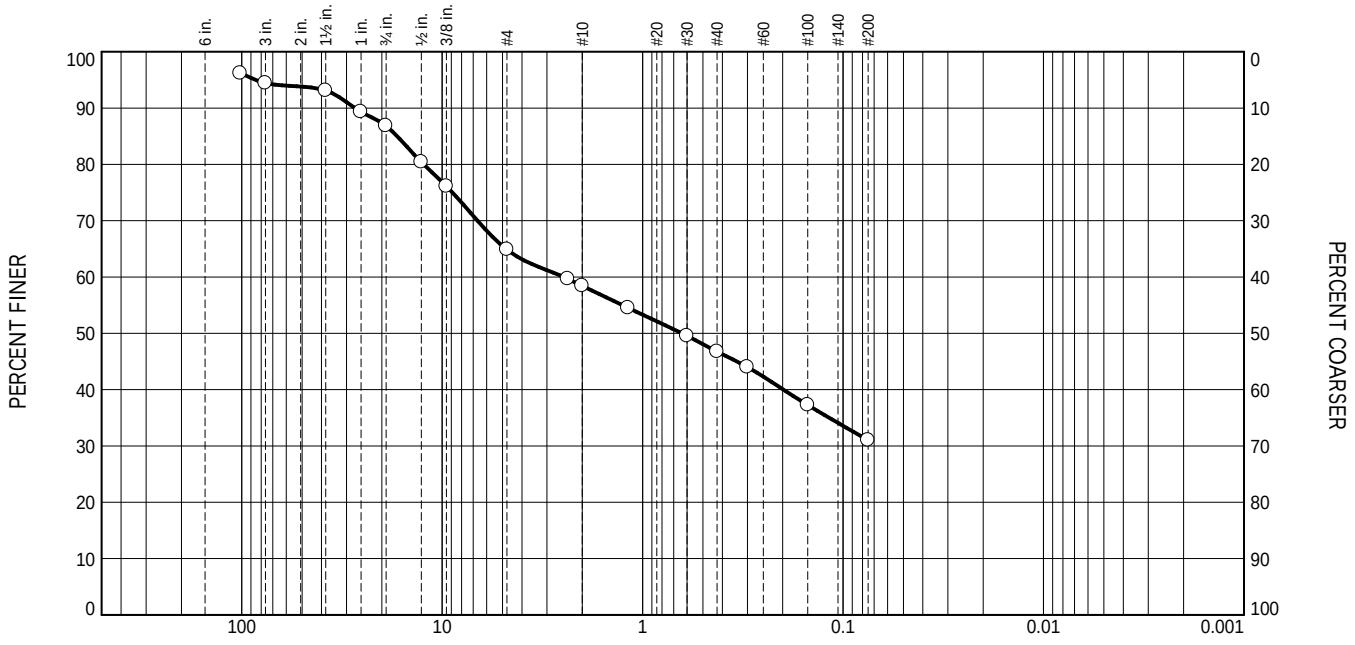
Remarks:
ZAV SpG estimated
mechanical hammer

Project No. Z057000415 **Client:** Township of Cumru
Project: Cumru Township Fire Station
Cumru Township, NJ
○ **Location:** On-site **Sample Number:** BS-3

Checked by: Scott McLaughlin
Title: Laboratory Manager

Figure

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
	7.6	21.9	6.5	11.7	15.7	31.0	

Test Results (ASTM C117 & C136)			
Sieve Size or Diam. (mm.)	Finer (%)	Spec.* (%)	Out of Spec. (%)
4"	96.2		
3"	94.4		
1-1/2"	93.1		
1"	89.3		
3/4"	86.8		
1/2"	80.4		
3/8"	76.1		
#4	64.9		
#8	59.7		
#10	58.4		
#16	54.5		
#30	49.5		
#40	46.7		
#50	44.0		
#100	37.3		
#200	31.0		

· (no specification provided)

Location: on-site
Sample Number: BS-4

Material Description
brown/yellow (silty gravel with sand)

Sieve Test (ASTM C117 & C136)

Test Date: 7/19/2022 Technician: CR & MG

Test Notes
Moisture: 12.9%

Hydrometer Test

Test Date: _____ Technician: _____

Test Notes

Atterberg (ASTM D4318)
PL= NP LL= NV PI= NP

Coefficients
D_{90}= 27.1978 D_{85}= 16.7659
D_{60}= 2.4715 D_{50}= 0.6365
D_{30}= D_{15}=
D_{10}=
C_u= C_c=

USCS (ASTM D2487)
GM

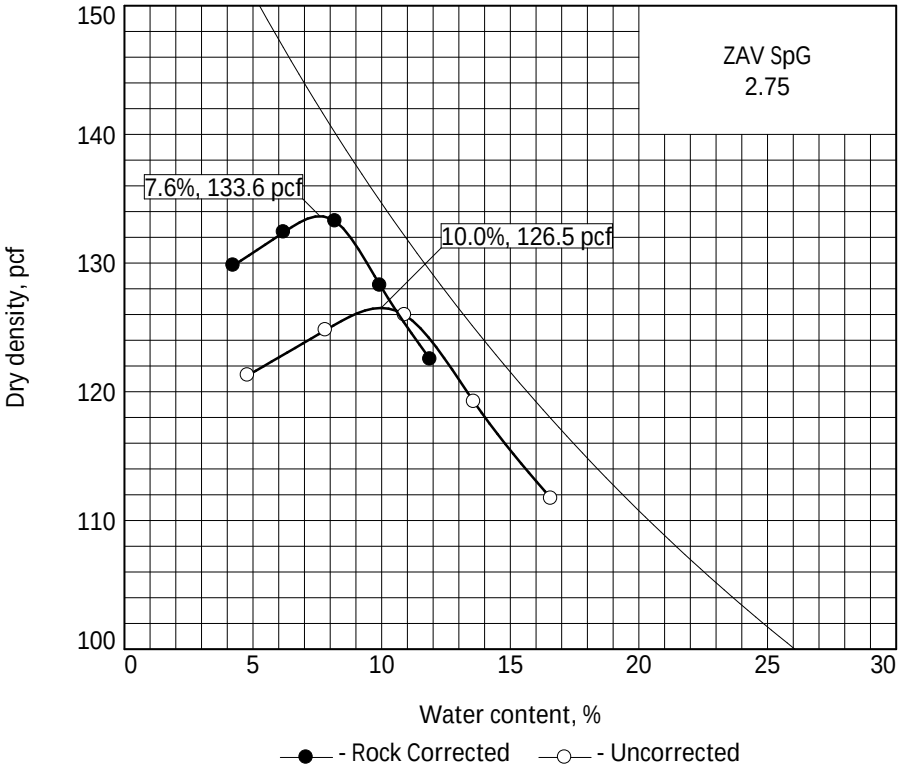
Date Sampled: 7/14/2022
Date Received: 7/*14/2022
Checked By: Scott M
Title: Lab Manager

Client: Township of Cumru
Project: Cumru Township Fire Station
Cumru Township, NJ
Project No: Z057000415

Figure

COMPACTION TEST REPORT

Curve No.



Test Specification:
ASTM D 1557-12 Method A Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Preparation Method: moist
Hammer Wt.: 10 lb.
Hammer Drop: 18 in.
Hammer Type: automatic
Layers: five Blows/Layer: 25
Mold Size: 0.03333 cu. ft.

Test Performed on Material Passing #4 Sieve

NM 12.9 LL NV PI NP
Sp.G. (D854):
%>#4 35.1 %<No.200 31.0
USCS GM AASHTO A-2-4(0)
Date Sampled: 7/14/2022
Date Received: 7/*14/2022
Date Tested: 7/19/2022
Tested By: Chuck R & Matti G

TESTING DATA	1	2	3	4	5	6
WM + WS	6051.7	6164.3	6242.1	6177.4	6099.1	
WM	4130.1	4130.1	4130.1	4130.1	4130.1	
WW + T #1	1135.4	1104.0	1111.6	1108.8	1154.1	
WD + T #1	1096.0	1044.6	1024.7	1009.6	1030.4	
TARE #1	275.3	285.2	227.3	279.5	284.5	
WW + T #2						
WD + T #2						
TARE #2						
MOISTURE	4.2	6.2	8.2	9.9	11.9	
DRY DENSITY	129.8	132.4	133.3	128.3	122.5	

ROCK CORRECTED TEST RESULTS	UNCORRECTED
Maximum dry density = 133.6 pcf	126.5 pcf
Optimum moisture = 7.6 %	10.0 %

Material Description: brown/yellow (silty gravel with sand)

Remarks:
ZAV SpG estimated

Project No. Z057000415 Client: Township of Cumru
Project: Cumru Township Fire Station
Cumru Township, NJ
○ Location: on-site Sample Number: BS-4

Checked by: Scott McLaughlin
Title: Laboratory Manager

Figure