

November 20, 2020

MG2
1101 Second Ave, Suite 100
Seattle, WA 98101

ATTN: Jason Breyer

RE: Costco Depot - Aurora, CO
Guardbooth Building
Permit 2019-1739030

Jason,

This letter is to serve as the structural engineer of record's statement of professional opinion for the above referenced project.

Engineers Northwest, Inc. (ENW) has reviewed shop drawings and RFI's submitted by Robinson Construction, and the inspection reports made available to us by Klienfelder, the designated special inspector for the project. It appears that all structural inspections have been completed as of 11-20-2020.

ENW also visited the site on September 4, 2020, and to my knowledge all structural discrepancy items mentioned during the site walk have been addressed and corrected.

To the best of my knowledge, the building is constructed per the structural drawings and specifications. ENW affirms compliance with the structural drawings.

If you have any questions regarding this letter, please call.

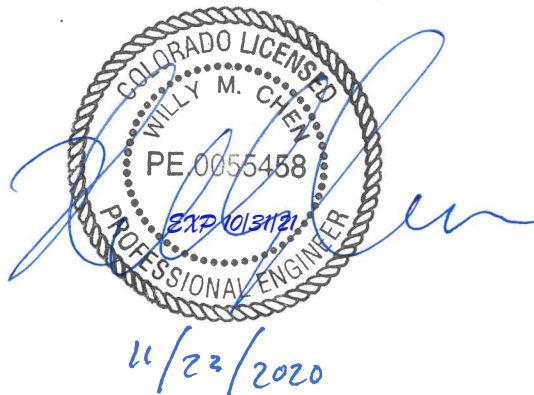
Sincerely,

ENGINEERS NORTHWEST, INC., P.S.



Joanne Bayuga, P.E.
Senior Project Engineer

ENW# 19036000
JB:fe



We get
buildings
built.



November 23, 2020
Kleinfelder Project No.: 20202628.001A

Costco Wholesale
c/o MG2
1101 Second Ave, Suite 100
Seattle, Washington 98101

Attention: Mr. Jason Breyer

**SUBJECT: Final Inspection Report – Guard Booth Building
Costco Wholesale Depot and E-Commerce Building
Intersection of East 64th Street and Powhatan Road
Aurora, Colorado
MG2 Project Number: 18-5376-01
Permit No. 2019-1739030**

Dear Mr. Breyer:

Kleinfelder has been providing special inspection and material testing services for the subject project. Specific items observed and/or tested for the subject project are presented in our technician's Daily Field Reports and our laboratory test reports, copies of which were provided during the course of construction. This report certifies that, as defined in Section 1704 of the International Building Code, we have provided the special inspections listed below:

- Observation of foundation excavations;
- Placement observation of reinforcing steel for structural cast-in-place concrete;
- Placement observation and sampling of structural cast-in-place concrete;
- Laboratory compressive strength testing of concrete;
- Field welding and high-strength bolting special inspections of structural steel;
- Placement observation of non-shrink grout;
- Installation observation of epoxied dowels;
- Light gauge framing observation; and
- In-place density/compaction testing of soils, aggregate base, and asphalt concrete.

The completed inspections and testing noted above were performed by personnel under the supervision of the undersigned Registered Professional Engineer in the State of Colorado. Services were provided during the period of June 2020 through August 2020. This work was observed by Kleinfelder personnel as noted in our Daily Field Reports and laboratory test reports. Based on our tests and inspections performed, and our substantiating reports, it is our professional judgment that, to the best of our knowledge, the work we tested and observed was

performed in substantial accordance with industry standards and practices, the approved plans, specifications and Project Engineer's revisions.

Please recognize that construction monitoring is a technique employed to reduce the risk of problems arising during construction. Provision of construction monitoring by an engineer is not insurance, nor does it constitute a warranty or guarantee of any type. Even with diligent construction monitoring, some construction defects may be missed. In all cases, the contractor shall retain responsibility for the quality of the work and for adhering to plans and specifications and for repairing defects regardless of when they are found. We do not undertake the guarantee of construction or production of a completed project conforming to the project plans and specifications.

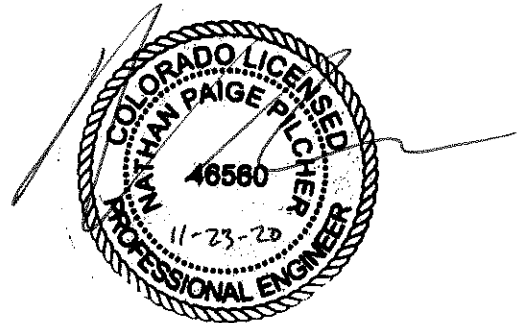
We appreciate the opportunity to provide geotechnical engineering services to you on this project. If you have any questions regarding this report or if we can be of further service, please do not hesitate to contact Brian Crystal 949.585.3113, or Andy Franks, Kleinfelder's Client Account Manager for Costco at 480.650.4905.

Sincerely,

KLEINFELDER



Tim Ryan
Project Manager



Nathan Pilcher, PE
Program Manager



Daily Field Report - Jun 5, 2020

KLF Project #: 20202628.001A

by **Johnny Stone** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale 90°F, Clear
Contractor: Robinson CO Time Start: 02:45 AM Time Stop: 06:15 PM
Equipment: Concrete Trucks, Concrete Pump Trucks, Personnel Transport
Trucks, Screed, Concrete blade finishers, Skidsteer, Excavator, Mini
Excavator, Mini Wacker Traveled 3 hrs, 144 mi.

Types of Tests/Observations Performed:

Concrete, Soil / Density Testing

Report items
Comply

Documents Referenced:

Concrete General Notes, Proctor #

Observations/Remarks:

Representative arrived approximately 2:45 AM. Representative assisted in testing incoming concrete trucks and creating test specimens. Representative helped insure no foreign debris was placed into slab as it was hand finished along the edges. Representative retrieved samples from previous pour, stored and labeled them into KLF Lab Moist Room. Representative returned to job site to assist in testing soil densities for fill placed over conduit leading to Guard Shack. Representative performed a total of 3 Nuclear Gauge Tests, all of which were found to be acceptable for compaction. Representative assisted in testing concrete footing along the South wall of the Depot and created 6 cylinders. Representative spoke with Contractor about top 17" of soil to be lime treated. Contractor elected to apply compactive effort along top lift anyways in order to insure safety along job site. Representative did not spot or note any significant issues. Representative departed approximately 6:15 PM

Kleinfelder Representative *Signature*

Johnny Stone

Kleinfelder Representative *Print Name*



Daily Field Report - Jun 5, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Concrete

Kleinfelder Representative *Signature*

Johnny Stone

Kleinfelder Representative *Print Name*



Daily Field Report - Jun 5, 2020

KLF Project #: 20202628.001A

by **Zane Stinchcomb** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Robinson

92°F, Clear
Time Start: 05:00 AM Time Stop: 06:00 PM
Traveled 1 hrs, mi.

Types of Tests/Observations Performed:

Concrete, Reinforcing Steel, Soil / Density Testing, Other , Soils Observations

Report items
Comply

Documents Referenced:

Approved Plans/ Geotech Report

Observations/Remarks:

I arrived on site at 5:30 am as requested by Robinson. Tasks for the day include rebar reinforcement inspection, concrete testing, soils observations, and rebar epoxy inspection.

Suntech has an RFI that has been approved by ENW to correct the plinths that were slightly off set from where they were supposed to be. Per the RFI suntech drilled down 10 inches and used a wire brush with a air compressor to clean the holes. Hilti 500 epoxy was used and was not expired. Drilling and epoxy took place at approximately E/ 17.9. For further details see Jesse W/ Kleinfelder's DFR.

Bible Electric is conducting back fill off of the west side of the building pad by the cooling pad. Native material is being used and the contractor was advised to moisture condition the native soil until a water content of 22%-26% was attained as described in the geotechnical report. For density testing results see Johnny W/ Kleinfelder's DFR.

Suntech is forming the concrete wall on the East end of the office pad. I have observed that Suntech has placed #4 rebar 16 inches OC E.W and 2 #5 continuous rebar at the top of the wall. I observed that Suntech followed the approved plans for the lap splices, concrete cover, size of rebar, spacing, rebar placement, and that the forms were clean and free of debris. Also for the plinths the RFI was followed for the #6 floating rebar.

Suntech is placing the continuous footing on the South West end of the building pad at A-C/1. I have observed that Suntech followed the approved plans for footing depth, rebar size, spacing, concrete cover, lap splice, and footing were clean and free of debris. All footings 9.0 and above have double matted rebar. For concrete testing results see Johnny W/ Kleinfelder's DFR.

Kleinfelder Representative *Signature*

Zane Stinchcomb

Kleinfelder Representative *Print Name*

Photo Log

Fig. 1: Footing pour



Fig. 2: Footing pour



Fig. 3: Footing pour



Fig. 4: Wall inspection



Zane

Kleinfelder Representative *Signature*

Zane Stinchcomb

Kleinfelder Representative *Print Name*

Photo Log

Fig. 5: Plinith



Zane

Kleinfelder Representative *Signature*

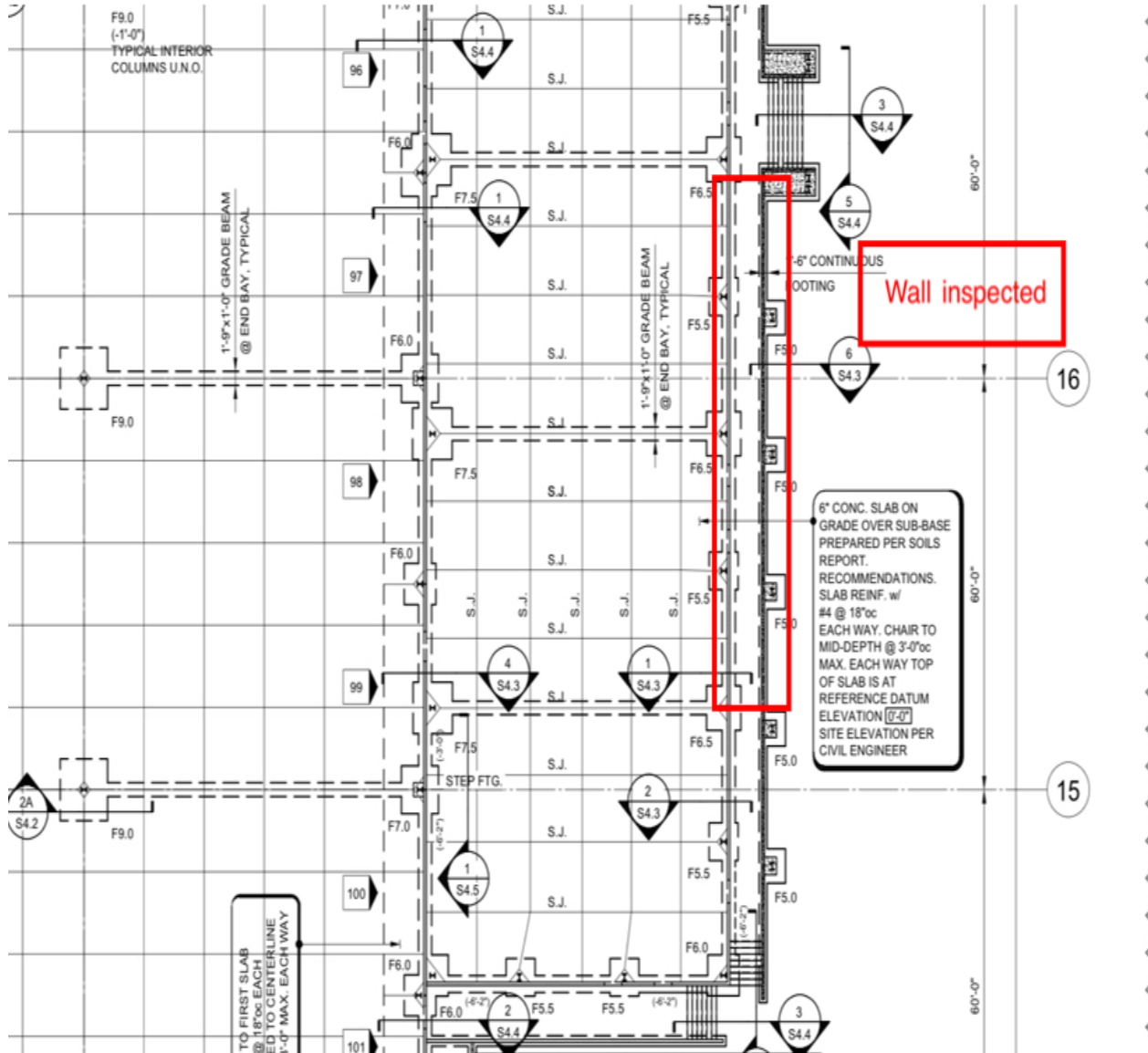
Zane Stinchcomb

Kleinfelder Representative *Print Name*

Area of work



Area of work





Daily Field Report - Jun 6, 2020

KLF Project #: 20202628.001A

by **Zane Stinchcomb** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Robinson

71°F, Light Rain
Time Start: 06:30 AM Time Stop: 12:30 PM
Traveled 1 hrs, mi.

Types of Tests/Observations Performed:

Concrete



Report items
Comply

Documents Referenced:

Approved Plans

Observations/Remarks:

I arrived on site at 7:00 am as requested by Robinson. Tasks for the day include observing concrete pour and concrete testing

Suntech is pouring the wall on the East side of the office pad that was previously inspected. I observed that suntech is using a vibrator to consolidate the concrete within the forms. Only one set of six 4x8 cylinders were made due to suntech only placing 30 yards for the day. All testing has been done according to ACI/ ASTM standards. See attached compression sheet for testing results.

Kleinfelder Representative *Signature*

Zane Stinchcomb

Kleinfelder Representative *Print Name*



Sampling & Testing Log

Jun 6, 2020

KLF Project #: 20202628.001A

by **Zane Stinchcomb** for **CSM Costco Aurora, CO Depot CoMET**
Concrete

Supplier: Burnco 1 set(s) of Concrete Cylinders cast
Mix Design #: 45VN32C6G Specified Strength: **4500** psi @ **28** days required
Building Element: Wall Panel
General Location: Office pad East side

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|----------------------------|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 1283 / 20272147 / 1 | 10 | 10:05am | 11:15am | 11:25am | 70 | 5.75 | 4.5 | | 71 | 62 | None | 6 |
| Specific Location: G/16-14 | | | | | | | | | | | | |



Daily Field Report - Jun 11, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

Client: Costco Wholesale 80°F, Clear
Contractor: Nelson Pipeline/Bible Electric and Suntech Time Start: 04:30 AM Time Stop: 04:15 PM
Equipment: Rex Compactors, Front End Loaders, Personnel Transport Vehicles,
Skidsteers, Metal Tracked Excavators, Mini Sheepsfoot Roller, Water Trucks Traveled 2 hrs, 84 mi.

Types of Tests/Observations Performed:

Concrete, Soil / Density Testing



Documents Referenced:

Concrete General Notes

Observations/Remarks:

Representative arrived on site approximately 4:30 AM. Tilt Panels were poured/placed by SunTech, representative assisted in testing incoming trucks and creating strength specimens. Nelson Pipeline worked with two crews, one on storm drains, the other on sanitary sewer service. Bible Electric Placed concrete over conduit in trenches and back filled conduit grounding pad.

The first Nelson crew was observed placing(finishing the run) of 60" RCP from Manhole E.3-1 to Manhole E.3-2. Crew used Type B Bedding to place up to the pipe spring line. Crew began placing 18" Corrugated Steel Pipe in for drainage systems (E.4-1 to cleanouts) in order to begin drainage system from roof top. Crew was observed hand building (with assistance of a form ring) concrete base for manhole E3-1. Crew partially back filled pipe run from E.3-1 to E.3-2 using Rex Compactor and Front loader. Crew conditioned soil with water as it was being compacted. Representative performed two soil density tests in this area. Refer to attached Soil Densities report for results.

Second Nelson crew finished 8" PVC Pipe run from manhole B.3-1 to B.3-2 and placed backfill within trench. Crew conditioned soil with water as it was being compacted using a Rex compactor and Front End Loader. Representative performed 2 density tests with passing results on this trench. Crew began excavation and placement of Sanitary Sewer Service #11 with 8" PVC pipe. Crew partially back filled this run as pipe was placed, conditioning the soil with water as it was compacted. Representative performed one density test on soil placed with passing results. For Density results, refer to attached Soil Density Test report for this date.

Bible Electric performed concrete placement around Conduit grounding pad and within part of trench leading to the Guard Shack. Bible Electric placed backfill on Grounding Pad later in the evening using mini sheepsfoot roller. Soil was conditioned with water as soil was compacted. Representative performed two density tests within this area with passing results. Refer to attached Soil Density Test report on this date.

Representative collected cylinder specimens from previous date and took them to KLF lab. Cylinders were received, labeled and stored properly by the end of the work day.

Kleinfelder Representative *Signature*

Johnny Stone

Kleinfelder Representative *Print Name*

Photo Log

Fig. 1:



Fig. 2:



Johnny Stone

Kleinfelder Representative *Signature*

Johnny Stone

Kleinfelder Representative *Print Name*



Soil Density Report - Jun 11, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

General Location: Trenches for Utilities

Test Type: Nuclear Gauge

Test Method: ASTM D6938

Gauge Serial No.: 36046

Gauge Make/Model: Troxler / 3430

Date of Std./Adj.: 6/11/20

Date of Calibration:

Density Std. Count: 1978

Moisture Std. Count: 631

| Test # | Test Info | | Proctor Data | | | Specs | | Results | | |
|--------------------------------------|--|-------------------------|-------------------------|------------------------|------------------------|------------------------------------|---------------------------------------|-------------------|-----------------------|-------------------------|
| | Probe Depth (in) | Elev. / Depth Below FSG | Proctor # | Lab Max. Density (pcf) | Opt. Water Content (%) | Specified Compaction - Min/Max (%) | Specified Water Content - Min/Max (%) | Water Content (%) | Dry Unit Weight (pcf) | Relative Compaction (%) |
| 20200611-1604-JS-1 | 8 | / | 20-DEN-00032 | 101.7 | 19.6 | 95 | 19.6 - 23.6 | 19.6 | 103.4 | 101.7 |
| | Location: Trench from Manhole B.3-1 to B.3-2 | | | | | | | | | |
| | Station: 13+00 | | Offset: | | | | | | | |
| 20200611-1607-JS-2 | 8 | / | 20-DEN-00032 | 101.7 | 19.6 | 95 | 19.6 - 23.6 | 19.8 | 98.8 | 97.1 |
| | Location: Trench from Manhole B.3-1 to B.3-2 | | | | | | | | | |
| | Station: 11+50 | | Offset: | | | | | | | |
| 20200611-1609-JS-3 | 8 | / | 20-DEN-00033 | 92.4 | 23.4 | 95 | 23.4 - 27.4 | 27.1 | 92.7 | 100.3 |
| | Location: Backfill on Service # 11 | | | | | | | | | |
| 20200611-1611-JS-4 | 8 | / | 20-DEN-00032 | 101.7 | 19.6 | 95 | 19.6 - 23.6 | 22.4 | 100.7 | 99 |
| | Location: Manhole E.3-1 to E.3-2 | | | | | | | | | |
| 20200611-1613-JS-5 | 8 | / | 20-DEN-00032 | 101.7 | 19.6 | 95 | 19.6 - 23.6 | 22.7 | 96.6 | 95 |
| | Location: Manhole E.3-1 to E.3-2 | | | | | | | | | |
| 20200611-1614-JS-6 | 8 | / | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 22.5 | 103 | 106 |
| | Location: Conduit Grounding Pad | | | | | | | | | |
| 20200611-1616-JS-7 | 8 | / | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 25.9 | 97.5 | 100.3 |
| | Location: Conduit Grounding Pad (near start of conduit trench) | | | | | | | | | |

Test is invalid due to compaction exceeding 104%



Daily Field Report - Jun 12, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

| | | |
|-------------|--|--|
| Client: | Costco Wholesale | 85°F, Clear |
| Contractor: | Nelson Pipeline, Bible Electric | Time Start: 04:30 AM Time Stop: 04:45 PM |
| Equipment: | Front Loaders, Personnel Transport Vehicles, Excavators, Mini Rollers, Sheepsfoot Roller, Rex Compactor, Water Truck | Traveled 2 hrs, 72 mi. |

Types of Tests/Observations Performed:

Concrete, Soil / Density Testing

Report items
Comply

Documents Referenced:

Concrete Notes, Sheet 41

Observations/Remarks:

Representative arrived on site approximately 4:30 AM for Concrete Pour. Representative remained on site for Soil Density testing for PipeLines going in. Nelson Pipeline had two crews- Sanitary Sewer Installation and Storm Drain Installation. Bible Electric performed backfill on conduit trenches on West Side.

Sanitary Sewer Service (Nelson) was installed on Service #11 on West side of building. Crew began placing more 8" PVC from Manhole # B.3-2 to B5.1 with Type B bedding up to the spring line of the pipe. Nelson used front end loader and Rex compactor to perform backfill operation on Service #11 as well as part of the completed run for B.3-2 to B.5-1. Material was conditioned with Water as it was compacted. Representative performed soil density testing, refer to attached Soil Density report for this day.

Storm Drain was installed along the North East side of the building by Nelson. Nelson continued work on roof drains for manholes E.6-1 to E.6-4. Nelson used Type B bedding to surround pipe up to spring line. No backfill was performed this day in this area.

Bible Electric performed backfill operation using Mini Wacker Sheepsfoot, a skidsteer, water truck, and a sheepsfoot roller. Bible compacted conduit trench for guard shack on the west side of the building. Material was conditioned with water as it was compacted in place. Representative performed soil density testing with passing results. Refer to attached soil density report this day.

Kleinfelder Representative *Signature*

Johnny Stone

Kleinfelder Representative *Print Name*



Soil Density Report - Jun 12, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

General Location: Service #11, Manholes B.3-2 to B.5-1, Manhole E.3-1 to E.3-2, Conduit Trench for Guardshack
 Test Type: Nuclear Gauge Test Method: ASTM D6938
 Gauge Serial No.: 24312 Gauge Make/Model: Troxler / 3440
 Date of Std./Adj.: 6/12/20 Date of Calibration:
 Density Std. Count: 1824 Moisture Std. Count: 574

| Test # | Test Info | | Proctor Data | | | Specs | | Results | | |
|---------------------------|------------------|-------------------------|-------------------------------|------------------------|------------------------|------------------------------------|---------------------------------------|-------------------|-----------------------|-------------------------|
| | Probe Depth (in) | Elev. / Depth Below FSG | Proctor # | Lab Max. Density (pcf) | Opt. Water Content (%) | Specified Compaction - Min/Max (%) | Specified Water Content - Min/Max (%) | Water Content (%) | Dry Unit Weight (pcf) | Relative Compaction (%) |
| 20200615-0833-JS-1 | 8 | / | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 23.3 | 96.4 | 99.2 |
| | Location: | | Grounding Pad West Side | | | | | | | |
| 20200615-0837-JS-2 | 8 | / | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 23 | 94.2 | 96.9 |
| | Location: | | Grounding Pad West Side | | | | | | | |
| 20200615-0838-JS-3 | 8 | / | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 23.5 | 97.6 | 100.4 |
| | Location: | | Conduit Trench to Guard Shack | | | | | | | |
| 20200615-0841-JS-4 | 8 | / | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 24 | 97.6 | 100.4 |
| | Location: | | Conduit Trench to Guard Shack | | | | | | | |
| 20200612-0846-JS-5 | 8 | / | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 23.7 | 97.1 | 99.9 |
| | Location: | | Manhole B.3-2 to B.5-1 | | | | | | | |
| | Station: | | 10+50 | | Offset: | | | | | |
| 20200612-0847-JS-6 | 8 | / | 20-DEN-00032 | 101.7 | 19.6 | 95 | 19.6 - 23.6 | 21 | 102.1 | 100.4 |
| | Location: | | Manhole B.3-2 to B.5-1 | | | | | | | |
| | Station: | | 12+00 | | Offset: | | | | | |



Daily Field Report - Jun 13, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

Client: Costco Wholesale 85°F, Clear
Contractor: Nelson Pipeline, Bible Electric Time Start: 07:15 AM Time Stop: 02:45 PM
Equipment: Water Trucks, Skidsteers, Front Loaders, Excavators, Plate Tamp, Traveled 1.5 hrs, 72 mi.
Mini Roller, Sheepsfoot Roller, Rex Compactor

Types of Tests/Observations Performed:

Soil / Density Testing

Report items
 **Comply**

Documents Referenced:

Observations/Remarks:

Representative arrived on site approximately 7:15 AM. Bible Electric, 2 Nelson Pipeline Crews, and LV Construction were on site. Nelson crews continued work on Storm and Sanitary Sewer, LV worked on compaction Class 1 Material on the South end of the building along the wall, and Bible Electric worked on backfilling Guard Shack Trenches.

Representative retrieved cylinder samples this day and returned them to KLF Lab in Golden. Cylinders were received, marked, and stored properly.

1st Nelson Crew continued work on Pipe run B.3.2-B.5-1 and completed backfill of Sewer Service # 11. Crew conditioned soil with water as it was compacted using water truck, front loader, and Rex compactor. Representative performed density tests with passing results, Refer to this days attached Density report.

2nd Nelson Crew continued work on Pipe Run from Manhole E6.1-E6.4 and performed partial backfill on previously placed storm drain. Crew conditioned soil with water as it was placed to assist with compactive effort. Representative performed density tests with passing results, refer to this days attached density report.

LV Construction performed backfill operation along South Wall of the Depot with Class 1 material using front loader and plate tamp. Representative took density tests along this area in intervals. Plate tamp ran out of fuel on final surface lift, lift to be tested on following work day. Tests that were taken had passing results. Refer to density report attached.

Bible Electric continued backfill operation on Guard Shack conduit trenches. Crew conditioned soil with water as it was compacted. Representative performed density testing on trench with passing results, refer to attached density reports this day.



Kleinfelder Representative *Signature*

Johnny Stone
Kleinfelder Representative *Print Name*



Soil Density Report - Jun 13, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

General Location: Service #11, Manhole Run E.6-1 to E.6-4, Guard Shack Conduit Trench

Test Type: Nuclear Gauge Test Method: ASTM D6938

Gauge Serial No.: 24312 Gauge Make/Model: Troxler / 3440

Date of Std./Adj.: 6/13/20 Date of Calibration:

Density Std. Count: 1824 Moisture Std. Count: 574

| Test # | Test Info | | Proctor Data | | | Specs | | Results | | |
|--------------------|------------------|-------------------------|----------------------------------|------------------------|------------------------|------------------------------------|---------------------------------------|-------------------|-----------------------|-------------------------|
| | Probe Depth (in) | Elev. / Depth Below FSG | Proctor # | Lab Max. Density (pcf) | Opt. Water Content (%) | Specified Compaction - Min/Max (%) | Specified Water Content - Min/Max (%) | Water Content (%) | Dry Unit Weight (pcf) | Relative Compaction (%) |
| 20200613-1002-JS-1 | 8 | / | 20-DEN-00032 | 101.7 | 19.6 | 95 | 19.6 - 23.6 | 20.8 | 100.6 | 98.9 |
| | Location: | | Service #11 | | | | | | | |
| | Station: | | 10+20 | | Offset: | | | | | |
| 20200613-1006-JS-2 | 8 | / | 20-DEN-00032 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 24.6 | 94.4 | 97.1 |
| | Location: | | Service #11 | | | | | | | |
| | Station: | | 11+75 | | Offset: | | | | | |
| 20200613-1008-JS-3 | 8 | / | 20-DEN-00025 | 135.6 | 8.3 | 95 | 6.3 - 10.3 | 6.9 | 129.8 | 95.7 |
| | Location: | | South Side of Depot (South Wall) | | | | | | | |
| 20200613-1011-JS-4 | 8 | / | 20-DEN-00025 | 135.6 | 8.3 | 95 | 6.3 - 10.3 | 8.3 | 129.2 | 95.3 |
| | Location: | | South Side of Depot (South Wall) | | | | | | | |
| 20200613-1012-JS-5 | 8 | / | 20-DEN-00032 | 101.7 | 19.6 | 95 | 19.6 - 23.6 | 22.5 | 99 | 97.3 |
| | Location: | | Pipe Run E.6-1 to E.6-4 | | | | | | | |
| 20200613-1014-JS-6 | 8 | / | 20-DEN-00032 | 101.7 | 19.6 | 95 | 19.6 - 23.6 | 22.3 | 98.8 | 97.1 |
| | Location: | | Pipe Run E.6-1 to E.6-4 | | | | | | | |
| 20200613-1015-JS-7 | 8 | / | 20-DEN-00035 | 101.7 | 19.6 | 95 | 19.6 - 23.6 | 23 | 102.1 | 100.4 |
| | Location: | | Guard Shack Trench | | | | | | | |
| 20200613-1021-JS-8 | 8 | / | 20-DEN-00035 | 101.7 | 19.6 | 95 | 19.6 - 23.6 | 21 | 101.9 | 100.2 |
| | Location: | | Guard Shack Trench | | | | | | | |
| 20200613-1022-JS-9 | 8 | / | 20-DEN-00035 | 101.7 | 19.6 | 95 | 19.6 - 23.6 | 21 | 99.6 | 97.9 |
| | Location: | | Guard Shack Trench | | | | | | | |



Daily Field Report - Jun 16, 2020

KLF Project #: 20202628.001A

by **Zane Stinchcomb** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Robinson

86°F, Clear
Time Start: 05:30 AM Time Stop: 05:30 PM
Traveled 1 hrs, mi.

Types of Tests/Observations Performed:

Reinforcing Steel, Other , Soils Observations

Report items
Comply

Documents Referenced:

Approved Plans

Observations/Remarks:

I arrived on site at 5:30 am as requested by Robinson. Tasks for the day include rebar reinforcement and soils observations.

Suntech is placing rebar for the south end of the office pad. I observed that suntech followed the approved plans for the following lap splice, rebar size, concrete cover, tail extension for the bend, wall dimensions, and forms were clean and free of debris. Suntech missed the detail for the office curb for the 2 #5 rebar and did not pour concrete today (Suntech made the decision not to pour). Instead suntech will be placing concrete on the following day.

Bible is excavating around the guard shack for the electrical conduit. Bible placed approximately 200 feet of conduit today and is keeping the native soil moist with a water truck. No backfill has been done today.

Kleinfelder Representative *Signature*

Zane Stinchcomb

Kleinfelder Representative *Print Name*

Photo Log

Fig. 1: Rebar placed



Fig. 2: Rebar being placed



Fig. 3: Rebar being placed



Zane

.....
Kleinfelder Representative *Signature*

Zane Stinchcomb

.....
Kleinfelder Representative *Print Name*



Daily Field Report - Jun 16, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

| | | |
|-------------|--|--|
| Client: | Costco Wholesale | 92°F, Clear |
| Contractor: | Bible, Nelson | Time Start: 07:00 AM Time Stop: 03:30 PM |
| Equipment: | Water Trucks, Skidsteers, Front Loaders, Excavators, Personnel Transport Vehicles | Traveled 1.5 hrs, 72 mi. |

Types of Tests/Observations Performed:

Soil / Density Testing

Report items
Comply

Documents Referenced:

Civil Plans

Observations/Remarks:

Representative arrived on site approximately 7 AM. Nelson and Bible Electric were on site. Nelson worked on storm drain and Sanitary Sewer lines.

Nelsons first crew continued placing Corrugated Plastic Storm Drain at Manholes E.6-1 to E.6-4. Nelson used Type B Bedding to cover Pipe.

Nelsons 2nd Crew placed Sanitary Sewer Service 8" PVC Pipe along B.5-2 to B.5-3. Type B Bedding was used in order to cover PVC pipe.

Bible Electric placed concrete around Conduit/worked on Tilt Panels and Guard Shack.

Kleinfelder Representative *Signature*

Johnny Stone

Kleinfelder Representative *Print Name*



Daily Field Report - Jun 19, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

| | | |
|-------------|--|--|
| Client: | Costco Wholesale | 75°F, Clear |
| Contractor: | Bible, Nelson, LV | Time Start: 06:45 AM Time Stop: 06:00 PM |
| Equipment: | Rex Compactor, Excavators, Front Loaders, Concrete Trucks, Mini Sheepsfoot, Sheepsfoot, Personnel Transport Trucks | Traveled 1.5 hrs, 72 mi. |

Types of Tests/Observations Performed:

Soil / Density Testing

Report items
Comply

Documents Referenced:

20-024S Permit (Water Department) P20-001S (Sanitary Sewer Permit) Civil Plans

Observations/Remarks:

Representative arrived approximately 6:45 AM. LV, Bible, and Nelson (3 Crews) on site working with soils.

LV Construction attempted to compact Class 1 soils in Office pad area behind concrete walls. Several tests came back borderline or just below passing. LV elected to removed 1st and 2nd lifts to avoid further issues and began to re compact material. Work in this area is incomplete.

Nelsons 1st crew installed line A.3-6 to A.3-7, and performed backfill operation from A.3-5 to A.3-6. Nelson used Rex Compactor, Front Loader, and a water truck to condition the soil with water as it was compacted. Representative performed density tests in this area with passing results. See attached density report for this day.

Nelson 2nd crew installed Storm drain from MH E.6-2 to E.6-3 and used Type B bedding to cover Corrugated Plastic Pipe. Crew used Rex Compactor, Front Loader, and a water truck in order to backfill E4.-1 to Cleanout to the south. Representative performed density test on this run with passing results, See attached density report for this day. Crew placed SS 8"PVC from A2.2 to A.3-4 covered with Type B Bedding. Crew began SS line running East from MH A2-2 covered with Type B Bedding. Crew began excavation for West/East Running storm drain laterals connecting to building on East side.

Nelson 3rd crew performed work near gas line to the Northwest Corner of the job site excavating for MH A.1-0. Crew placed Concrete manhole bases for MHs B.5-4 and B.5-5. Representative insured ground below was tamped prior to placement for compaction and reminded crews of need for firm grade. Representative assisted in testing concrete and creating strength test specimens.

Bible performed backfill operation on Phone Line Trench to guardshack using a skid-steer, mini sheepsfoot, sheepsfoot and a water truck to condition material as it was compacted. Representative performed density tests in this area with passing results. See attached density report for this day.

Kleinfelder Representative *Signature*

Johnny Stone

Kleinfelder Representative *Print Name*

Photo Log

Fig. 1:



A handwritten signature in black ink, appearing to read 'Johnny Stone'.

Kleinfelder Representative *Signature*

Johnny Stone

Kleinfelder Representative *Print Name*



Soil Density Report - Jun 19, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

General Location: Trenches for SS, Storm Drain, and Phone Line

Test Type: Nuclear Gauge

Test Method: ASTM D6938

Gauge Serial No.: 24312

Gauge Make/Model: Troxler / 3440

Date of Std./Adj.: 6/19/20

Date of Calibration:

Density Std. Count: 1812

Moisture Std. Count: 573

| Test # | Test Info | | Proctor Data | | | Specs | | Results | | |
|---------------------------|------------------|-------------------------|----------------------------|------------------------|------------------------|------------------------------------|---------------------------------------|-------------------|-----------------------|-------------------------|
| | Probe Depth (in) | Elev. / Depth Below FSG | Proctor # | Lab Max. Density (pcf) | Opt. Water Content (%) | Specified Compaction - Min/Max (%) | Specified Water Content - Min/Max (%) | Water Content (%) | Dry Unit Weight (pcf) | Relative Compaction (%) |
| 20200619-1559-JS-1 | 8 | / -3 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 22.7 | 94.9 | 97.6 |
| | Location: | | Phone Line Trench | | | | | | | |
| 20200619-1600-JS-2 | 8 | / -2 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 23.1 | 100.6 | 103.5 |
| | Location: | | Phone Line Trench | | | | | | | |
| 20200619-1601-JS-3 | 8 | / -1 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 24.5 | 97.9 | 100.7 |
| | Location: | | Phone Line Trench | | | | | | | |
| 20200619-1602-JS-4 | 8 | / -4 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 22.9 | 92.5 | 95.2 |
| | Location: | | A.3-5 to A.3-6 | | | | | | | |
| 20200619-1604-JS-5 | 8 | / -3 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 24.3 | 95.2 | 97.9 |
| | Location: | | A.3-5 to A.3-6 | | | | | | | |
| 20200619-1604-JS-6 | 8 | / -2 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 24.9 | 98.4 | 101.2 |
| | Location: | | E.4-1 to Cleanout to South | | | | | | | |



Daily Field Report - Jun 20, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

Client: Costco Wholesale 80°F, Clear
Contractor: Bible, Nelson, LV Time Start: 06:45 AM Time Stop: 06:00 PM
Equipment: Rex Compactor, Front Loaders, Skidsteers, Sheepsfoot Rollers, Mini Sheepsfoot Roller, Excavators. Traveled 2 hrs, 72 mi.

Types of Tests/Observations Performed:

Soil / Density Testing



Documents Referenced:

Civil Plans

Observations/Remarks:

Representative arrived on site approximately 6:45 AM. Bible and 3 Nelson Crews on site.

Bible Electric performed backfill operation on Phone line Trench going past Guard Shack. Bible used mini sheepsfoot, sheepsfoot, skidsteer, and a water truck to moisture condition soil as it was compacted. Representative performed density tests on trench with passing results. See attached density reports for this day. Bible excavated approximately 300ft headed north of the Guard Shack. Bible placed and backfilled Conduit on the East side of the building. Bible placed floating light fixture this day.

1st Nelson Crew performed backfill operation using Rex Compactor, Front Loader, and Water truck to moisture condition soil as it was compacted. Nelson crew backfilled around B.3-1 and B.5-1 plus clean outs. Representative performed density tests with passing results, See attached density report for this day.

2nd Nelson Crew placed Manhole Risers on E.3-1, E.3-2, E.3-3, and E.4-1. Crew performed backfill operation from E.4-1 to cleanout to the South using Rex Compactor, Front Loader, and Water Truck to moisture condition the soil as it was compacted. Representative performed density tests in this area with passing results. See attached density report for this day.

3rd Nelson crew placed 8" PVC Sanitary Sewer service from A.1-0 to A.1-1, and A.1-1 to A.1-2.

Kleinfelder Representative *Signature*

Johnny Stone

Kleinfelder Representative *Print Name*



Soil Density Report - Jun 20, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

General Location: Phone Trench, Manhole/ SS and Storm Drain Trenches

Test Type: Nuclear Gauge

Test Method: ASTM D6938

Gauge Serial No.: 36046

Gauge Make/Model: Troxler / 3430

Date of Std./Adj.: 6/20/20

Date of Calibration:

Density Std. Count: 2008

Moisture Std. Count: 630

| Test # | Test Info | | Proctor Data | | | Specs | | Results | | |
|--------------------------------------|----------------------|-------------------------|------------------------------------|------------------------|------------------------|------------------------------------|---------------------------------------|-------------------|-----------------------|-------------------------|
| | Probe Depth (in) | Elev. / Depth Below FSG | Proctor # | Lab Max. Density (pcf) | Opt. Water Content (%) | Specified Compaction - Min/Max (%) | Specified Water Content - Min/Max (%) | Water Content (%) | Dry Unit Weight (pcf) | Relative Compaction (%) |
| 20200620-1600-JS-1 | 8 | / -2 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 23.4 | 100.3 | 103.2 |
| | Location: | | E.4-1 to Cleanout to South | | | | | | | |
| 20200620-1601-JS-2 | 8 | / -3 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 22.6 | 94.5 | 97.2 |
| | Location: | | E.4-1 to Cleanout to South | | | | | | | |
| 20200620-1602-JS-3 | 8 | / -3 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 26.5 | 93.8 | 96.5 |
| | Location: | | E.4-1 to Cleanout to South | | | | | | | |
| 20200620-1603-JS-4 | 8 | / -3 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 23.7 | 103.7 | 106.7 |
| | Location: | | E.4-1 (West) | | | | | | | |
| 20200620-1604-JS-5 | 8 | / -2 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 25.6 | 97.7 | 100.5 |
| | Location: | | E.4-1 (North) | | | | | | | |
| 20200620-1607-JS-6 | 8 | / -2 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 23.1 | 98.2 | 101 |
| | Location: | | B.3-1 to Cleanout | | | | | | | |
| 20200620-1608-JS-7 | 8 | / -1 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 23 | 100.2 | 103.1 |
| | Location: | | B.3-1 to B.5-1 | | | | | | | |
| 20200620-1609-JS-8 | 8 | / -2 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 24.5 | 97.3 | 100.1 |
| | Location: | | Phone Line Trench Near Guard Shack | | | | | | | |
| 20200620-1610-JS-9 | 8 | / -1 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 23.6 | 101 | 103.9 |
| | Location: | | Phone Line Trench Near Guard Shack | | | | | | | |

Test is omitted due to the high compaction. TR 6/23/20



Daily Field Report - Jun 22, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

| | | |
|-------------|---|--|
| Client: | Costco Wholesale | 80°F, Clear |
| Contractor: | Bible, Nelson, LV | Time Start: 06:45 AM Time Stop: 05:15 PM |
| Equipment: | Rex Compactor, Front Loader, Skidsteer, Sheepsfoot Roller, Mini Excavator, Excavators, Plate Tamp, Personnel Transport Trucks | Traveled 1.5 hrs, 72 mi. |

Types of Tests/Observations Performed:

Soil / Density Testing

Report items
Comply

Documents Referenced:

Civil Plans Concrete Notes

Observations/Remarks:

Representative arrived on site approximately 6:45 AM. LV, Bible, and 3 Nelson Crews are on site.

Bible Crew performed backfill operation using skidsteer, sheepsfoot, and mini excavator on phone line trench near Guard shack. Bible only backfilled approximately 30FT of trench. Representative probed area to make sure ground was hardened sufficiently due to the trench being only 4 inches in width.

LV continued compaction efforts of Class 1 material around office pad. Mini Excavator, skidsteer, and water truck were used. Material was moisture treated as it was compacted. Representative performed density tests with passing results. Refer to attached density report this day.

Nelson 1st Crew continued work on lateral drainage on the East side of the building. Material was moisture conditioned as it was compacted with a Rex Compactor. Drains were shallow, therefore representative performed visual inspections which proved to be satisfactory (Rex Compactor was used) Crew performed backfill operation using Rex Compactor, front loader, and water truck on E.6-1 to E.6-2. Material was moisture conditioned as it was compacted. Representative performed density test in area backfilled with passing results, see attached density report this day.

Nelson 2nd Crew placed 12" A.5 plastic water line connected to fire hydrant to the east side of the job site.

Nelson 3rd crew placed concrete manhole bases at E.6-1, A.3-5, and A.3-4 around site. Representative was informed cylinders were at sufficient testing rate, and was instructed by Robinson to only run an air content test for confirmation. Air results came back at 6% (5-8 required). This crew completed Storm drain run from E.6-2 to E.6-3 and nearly completed run from E.6-3 to E.6-4.

Kleinfelder Representative *Signature*

Johnny Stone

Kleinfelder Representative *Print Name*



Soil Density Report - Jun 22, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

General Location: Trenches and office Pad

Test Type: Nuclear Gauge

Test Method: ASTM D6938

Gauge Serial No.: 24312

Gauge Make/Model: Troxler / 3440

Date of Std./Adj.: 6/22/20

Date of Calibration:

Density Std. Count: 2010

Moisture Std. Count: 637

| Test # | Test Info | | Proctor Data | | | Specs | | Results | | |
|---------------------------|------------------|-------------------------|------------------------------------|------------------------|------------------------|------------------------------------|---------------------------------------|-------------------|-----------------------|-------------------------|
| | Probe Depth (in) | Elev. / Depth Below FSG | Proctor # | Lab Max. Density (pcf) | Opt. Water Content (%) | Specified Compaction - Min/Max (%) | Specified Water Content - Min/Max (%) | Water Content (%) | Dry Unit Weight (pcf) | Relative Compaction (%) |
| 20200622-1758-JS-1 | 8 | / -4 | Class 1 | 135.6 | 8.3 | 95 | 6.3 - 10.3 | 7.6 | 132.6 | 97.8 |
| | Location: | | Class 1 Material around Office pad | | | | | | | |
| 20200622-1801-JS-2 | 8 | / -3 | Class 1 | 135.6 | 8.3 | 95 | 6.3 - 10.3 | 7.3 | 129.6 | 95.6 |
| | Location: | | Class 1 Material around Office pad | | | | | | | |
| 20200622-1802-JS-3 | 8 | / | Class 1 | 135.6 | 8.3 | 95 | 6.3 - 10.3 | 7.1 | 129.2 | 95.3 |
| | Location: | | Class 1 Material around Office pad | | | | | | | |
| 20200622-1803-JS-4 | 8 | / -2 | 20-DEN-00035 | 97.2 | 22.5 | 95 | 22.5 - 26.5 | 24.8 | 97.7 | 100.5 |
| | Location: | | E.6-1 to E.6-2 trench | | | | | | | |



Daily Field Report - Jun 29, 2020

KLF Project #: 20202628.001A

by **Zane Stinchcomb** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Robinson

90°F, Clear
Time Start: 06:00 AM Time Stop: 04:30 PM
Traveled 1 hrs, mi.

Types of Tests/Observations Performed:

Concrete, Foundations, Reinforcing Steel, Other , Soils Observations



Report items
Comply

Documents Referenced:

Approved Plans

Observations/Remarks:

I arrived on site at 6:30 am as requested by Robinson. Tasks for the day include rebar inspection, concrete pour, concrete testing, grout pour, and grout sampling.

Suntech is placing rebar in the exterior footings for the guard shack and the wall footings. I observed that suntech followed the approved plans for lap splice, footing dimensions, concrete cover, rebar spacing, size of rebar, and forms were clean and free of debris.

Suntech ordered 25 yards of concrete for the footings around the exterior of the guard shack. Prior to the placement of concrete rebar was inspected. One set of six 4x8 cylinders were fabricated. All tests done on concrete were done per ACI/ASTM standards. For testing results see attached concrete compression sheet

Suntech ordered 5 yards of concrete for the tilt panels on the North East side of the building pad. One set of six 2x2 grout samples were fabricated per ASTM C109. I observed that suntech is using a vibrator to consolidate the non shrink grout. I observed that the grout had enough flow to transfer to the inside of the tilt panel.

.....
Kleinfelder Representative *Signature*

.....
Zane Stinchcomb

.....
Kleinfelder Representative *Print Name*

Photo Log

Fig. 1: Inside of wall grout



Fig. 2: Inside of wall grout



Fig. 3: Outside of wall grout



Fig. 4: Outside of wall grout



Zane

Kleinfelder Representative *Signature*

Zane Stinchcomb

Kleinfelder Representative *Print Name*

Photo Log

Fig. 5: Footing for guard shack



Fig. 6: Footing for guard shack



Fig. 7: Footing for guard shack



Fig. 8: Footing for guard shack



Zane

Kleinfelder Representative *Signature*

Zane Stinchcomb

Kleinfelder Representative *Print Name*



Sampling & Testing Log

Jun 29, 2020

KLF Project #: 20202628.001A

by **Zane Stinchcomb** for **CSM Costco Aurora, CO Depot CoMET**
Concrete

Supplier: Burnco 1 set(s) of Non-masonry Grout cast
Mix Design #: 50ZV30D99 Specified Strength: **5000** psi @ **28** days required
Building Element: Grout at tilt base
General Location: Tilt panels on the North East side

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|-------------------------|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| N/A / N/A / N/A | | 1:18pm | 2:18pm | | 60 | | | | 78 | 90 | | 6 |
| Specific Location: F/25 | | | | | | | | | | | | |



Sampling & Testing Log

Jun 29, 2020

KLF Project #: 20202628.001A

by **Zane Stinchcomb** for **CSM Costco Aurora, CO Depot CoMET**
Concrete

Supplier: Burnco 1 set(s) of Concrete Cylinders cast
Mix Design #: 45VN32C6B Specified Strength: **4500** psi @ **28** days required
Building Element: Footing
General Location: Guard shack footings

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|------------------------------------|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 1151 / 20278280 / 1 | 10 | 9:48am | 10:48am | 11:00am | 60 | 6.75 | 4.3 | | 80 | 88 | None | 6 |
| Specific Location: Guard Shack A/1 | | | | | | | | | | | | |



Daily Field Report - Jun 1, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Robinson, Suntec & Fabco
Equipment: Skid with GPS, water truck and mini ex.

90°F, Clear
Time Start: 07:00 AM Time Stop: 05:00 PM

Types of Tests/Observations Performed:

Foundations, Reinforcing Steel

Report items
Comply

Documents Referenced:

Approved plans using Procore, Geotechnical

Observations/Remarks:

This morning Suntec's crew is prepping grade and placing forms, dowel baskets and rebar for foundation pour #6 from approximate grid line 10 to 13. The foundation is checked for proposed 7 1/4 inch slab thickness at block outs and construction joints. Debris is removed and rebar is checked for proper bar size, splice, on center correctly over plastic chairs with two continued horizontal bars at imbeds. The reinforcement for wall panels are preliminary inspected today for the upcoming pour this Wednesday, a final inspection is to be performed the following day. Bible electric continues installing conduit at the condenser pad and working to place conduit for the Guard shack, no backfill today.

.....
Kleinfelder Representative *Signature*

.....
Jessy Zarzan

.....
Kleinfelder Representative *Print Name*

Photo Log

Fig. 1: Canopy inbed plates



Fig. 2: Wall Panels



Kleinfelder Representative *Signature*

Jessy Zarzan

Kleinfelder Representative *Print Name*



Daily Field Report - Jul 14, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale 90°F, Clear
Contractor: Suntec, Fabco, Bible electric, Nelson, Slaton Bros. Time Start: 07:00 AM Time Stop: 11:00 AM
Equipment: Gradind equipment, Plate tamp, Excavation and compaction equipment

Types of Tests/Observations Performed:

Reinforcing Steel, Soil / Density Testing



Report items

Comply

Documents Referenced:

Geotechnical, Civil, Structural, Civil Sheet 9.0 rev4 & 11.2

Observations/Remarks:

This morning Slaton Bros. crew continues to work placing the block wall at the private pond #1. The Recon block wall is placed accordingly with filter fabric between joints prior to #57 stone and over a 4" perforated HDPE pipe with fabric. The existing slope shows a non woven Geotextile fabric.

Suntec is onsite working at the guard shack installing rebar for the propose exterior walls, preliminary inspection throughout the day.

Mid-day Dustin White with Kleinfelder will take my place for the remainder of the day.

Kleinfelder Representative *Signature*

Jessy Zarzan

Kleinfelder Representative *Print Name*

Photo Log

Fig. 1:

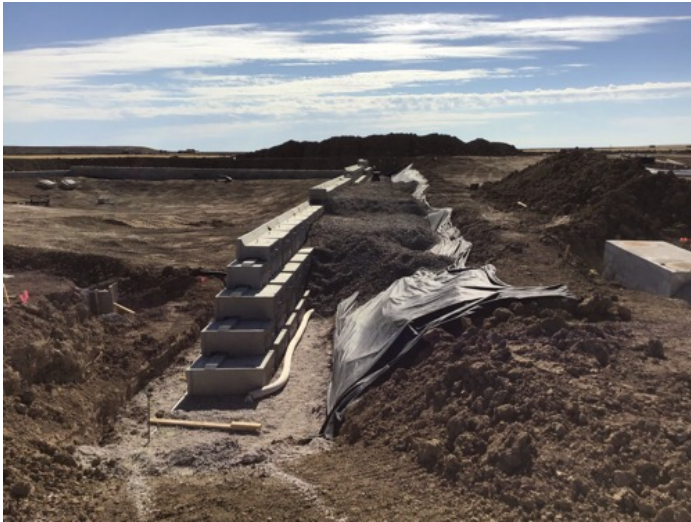
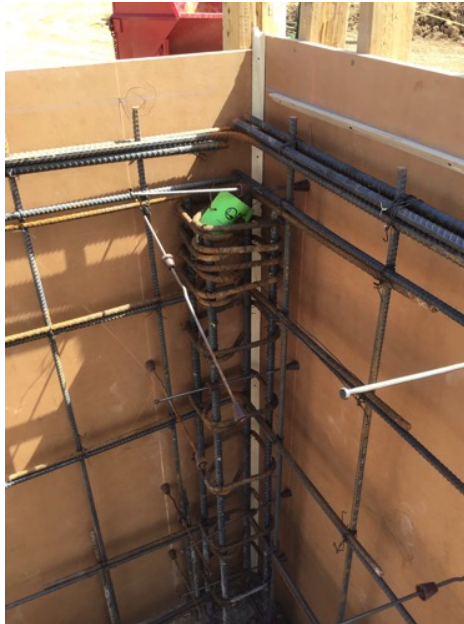


Fig. 2: NW Guard shack



.....
Kleinfelder Representative *Signature*

Jessy Zarzan

.....
Kleinfelder Representative *Print Name*



Daily Field Report - Jul 15, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Suntec, Fabco, Bible electric, Nelson, Slaton Bros.

88°F, Clear
Time Start: 07:00 AM Time Stop: 06:00 PM

Types of Tests/Observations Performed:

Reinforcing Steel



Report items
Comply

Documents Referenced:

Observations/Remarks:

Area #1, Bible's crew is placing rebar for the light poles per RFI-0148 with a fiber glass stub. Rebar shows to be correct and propose concrete is survey to be 5' above parking lot elevation. Rebar shows to be off the subgrade and clearance from the sonotube and the insert is installed 4' - 4" or more above the top of the concrete.

Suntec continues working on exterior walls for the guard shack and a second crew placing rebar for exterior wall, Condenser pad area. The wall at the condenser pad will be poured monolithic with the 2" foam board mid section of wall, preliminary inspection throughout the day.

L.V continues with class-1 structural fill between the back dock wall and tilts panels West end.

Flow fill is observed under the grade beams at the office area due to unable to achieve compaction by installing the under drain behind the exterior wall. prior to flow fill, loose class-1 is removed by vac truck to a firm subgrade for Grid line F-20, 21, 22, 23, tie beams and at office area for grade beams.

Kleinfelder Representative *Signature*

Jessy Zarzan

Kleinfelder Representative *Print Name*

Photo Log

Fig. 1: Light pole

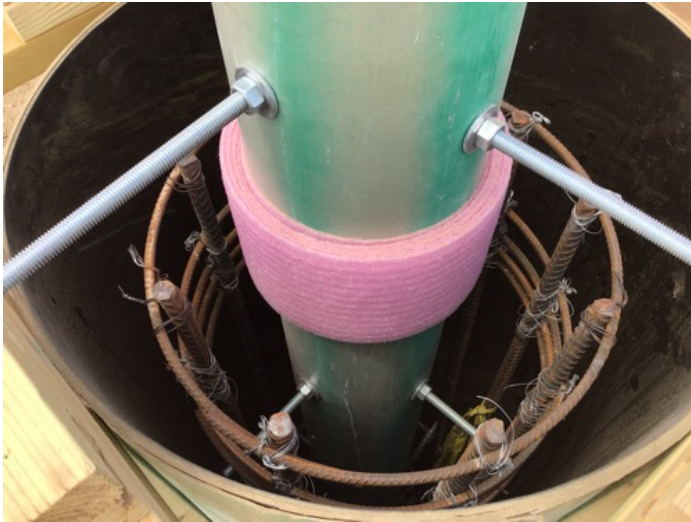


Fig. 2: Condenser area



Fig. 3: Grade beam at office



Fig. 4:



Jessy Zarzan

Kleinfelder Representative *Signature*

Jessy Zarzan

Kleinfelder Representative *Print Name*



Daily Field Report - Jul 20, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Suntec, Bible, L.V and ARS
Equipment: 815 comp, grader, water truck and lime truck

92°F, Clear
Time Start: 07:00 AM Time Stop: 05:30 PM

Types of Tests/Observations Performed:

Concrete, Reinforcing Steel, Soil / Chemical Stabilization

Report items
Comply

Documents Referenced:

Geotechnical, civil, structural, RFI-148

Observations/Remarks:

This morning ARS continues lime treating subgrade throughout area 1 and 2, East of depot for random locations after utilities installed. The first treat today is place at the required depth for heavy duty PCC area at 8" and 12" for heavy duty HMA.

The treat will sit for 72 hours per submitted requirements before the second treat.

Mid-day Bible's crew is installing the light poles at area 2, office parking area per RFI-148 and Architectural drawing.

L.V's crew is backfilling the condenser foundation using class-6 material. The class-6 is moisture conditioned and placed at 8" loose lifts and compacted with a heavy plate tamp. Dustin White is testing compaction throughout the day.

Suntec continues working to install rebar for the proper ramp and wall section at the Gourd Shack, random preliminary inspection is conducted throughout the day.

Kleinfelder Representative *Signature*

Jessy Zarzan

Kleinfelder Representative *Print Name*



Daily Field Report - Jul 22, 2020

KLF Project #: 20202628.001A

by **Dustin White** for **CSM Costco Aurora, CO Depot CoMET**
Soils/Pavements (AC)

| | | |
|-------------|---|--|
| Client: | Costco Wholesale | 95°F, Clear |
| Contractor: | LV, Nelson Pipeline, Bible Electric | Time Start: 07:00 AM Time Stop: 05:00 PM |
| Equipment: | Rex Three Wheeled roller, 1,000lbs plate compactor, vibrating plate head for MiniEx | Traveled 1.5 hrs, 85 mi. |

Types of Tests/Observations Performed:

Soil / Density Testing

Report items
Comply

Documents Referenced:

Observations/Remarks:

Nelson Pipeline (A.7 12" PVC Fire water line): Material observation and moisture/density testing on Backfill of waterline A.7 up to grade (5425') between stations 10+00-14+00). Material processed, and compacted via a Rex three wheeled roller within material specifications. No issues noted, Nelson informed of results.

Nelson Pipeline (A.6 12" PVC fire waterline): Pipe placement, no backfill. STA 10+00 to 13+00.

Lightning Ventures (East Side Tilt Panel interior structural backfill, panels 115-125): Class one structural fill material observation/placement and moisture density testing above 4"pipe. Large lift (>16") placements of loose material observed, yielding failing compaction results after numerous discussions about correct lift sizes (See photo A.1 below). LV mitigated the problem by reducing lifts to correct lift sizes (8" loose), and recompacting within material specifications via 1,000lbs plate compactor. No additional issues noted. LV informed of results.

Bible Electric (pumphouse conduit line): Electric trench backfill and compaction observed for pumphouse conduit line. Two lifts of material placed and compacted successfully via a jumping jack compactor, and verified compactive effort via T-probe under fully body weight. Penetration of t-probe was little to none, showing correct compactive efforts where the nuclear probe could not gauge.

Kleinfelder Representative *Signature*

Dustin White

Kleinfelder Representative *Print Name*



Soil Density Report - Jul 22, 2020

KLF Project #: 20202628.001A

by Dustin White for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

General Location: Water A.7, East tilt panel backfill

Test Type: Nuclear Gauge

Test Method: ASTM D6938

Gauge Serial No.: 24312

Gauge Make/Model: Troxler / 3440

Date of Std./Adj.: 7/22/20

Date of Calibration:

Density Std. Count: 1814

Moisture Std. Count: 575

* - Denotes a test outside of specification

| Test # | Test Info | | Proctor Data | | | Specs | | Results | | | |
|--------------------|---------------------|-------------------------|--|------------------------|------------------------|------------------------------------|---------------------------------------|-------------------|-----------------------|-------------------------|--|
| | Probe Depth (in) | Elev. / Depth Below FSG | Proctor # | Lab Max. Density (pcf) | Opt. Water Content (%) | Specified Compaction - Min/Max (%) | Specified Water Content - Min/Max (%) | Water Content (%) | Dry Unit Weight (pcf) | Relative Compaction (%) | |
| 20200722-0810-DW-1 | 8 | 5422.5 / | 20-DEN-00034 | 87.8 | 22.9 | 95 | 22.9 - 26.9 | 25 | 89.3 | 101.7 | |
| | Location: | | Waterline A.7, STA: 13+50 | | | | | | | | |
| | Station: | | 13+50 | | Offset: | | | | | | |
| | Visual Description: | | Reddish Brown Silt Clay | | | | | | | | |
| 20200722-0900-DW-2 | 8 | 5422.5 / | 20-DEN-00034 | 87.8 | 22.9 | 95 | 22.9 - 26.9 | 23.3 | 88.7 | 101 | |
| | Location: | | Waterline A.7, STA: 12+00 | | | | | | | | |
| | Station: | | 12+00 | | Offset: | | | | | | |
| | Visual Description: | | Reddish Brown Silt Clay | | | | | | | | |
| 20200722-0857-DW-3 | 8 | 5425 / | 20-DEN-00034 | 87.8 | 22.9 | 95 | 22.9 - 26.9 | 25.1 | 85.6 | 97.5 | |
| | Location: | | Waterline A.7, STA: 12+20 | | | | | | | | |
| | Station: | | 12+20 | | Offset: | | | | | | |
| | Visual Description: | | Reddish Brown Silt Clay | | | | | | | | |
| 20200722-0859-DW-4 | 8 | 5425 / | 20-DEN-00034 | 87.8 | 22.9 | 95 | 22.9 - 26.9 | 24.2 | 88.1 | 100.3 | |
| | Location: | | Waterline A.7, STA: 13+65 | | | | | | | | |
| | Station: | | 13+65 | | Offset: | | | | | | |
| | Visual Description: | | Reddish Brown Silt Clay | | | | | | | | |
| 20200722-0909-DW-5 | 8 | 2' above pipe / | 20-DEN-00025 | 135.6 | 8.3 | 95 | 6.3 - 10.3 | 9.2 | 123.6 | 91.2* | |
| | Location: | | East Tilt Panels, 110-125 | | | | | | | | |
| | Visual Description: | | Class One Structural Fill | | | | | | | | |
| | Remarks: | | Potholed to this lift, loose uncompacted material discovered | | | | | | | | |
| 20200722-0914-DW-6 | 8 | 2' above pipe / | 20-DEN-00025 | 135.6 | 8.3 | 95 | 6.3 - 10.3 | 8.5 | 129.5 | 95.5 | |
| | Location: | | East Tilt Panels, 110-125 | | | | | | | | |
| | Visual Description: | | Class One Structural Fill | | | | | | | | |
| | Remarks: | | Mitigated failing previous lift | | | | (Retest: 20200722-0909-DW-5) | | | | |
| 20200722-0916-DW-7 | 8 | 2.5' above pipe / | 20-DEN-00025 | 135.6 | 8.3 | 95 | 6.3 - 10.3 | 7.9 | 133.2 | 98.2 | |
| | Location: | | East Tilt Panels, 110-125 | | | | | | | | |
| | Visual Description: | | Class One Structural Fill | | | | | | | | |
| | Remarks: | | | | | | | | | | |
| 20200722-0917-DW-8 | 8 | 3.5' above pipe / | 20-DEN-00025 | 135.6 | 8.3 | 95 | 6.3 - 10.3 | 7.9 | 135.2 | 99.7 | |
| | Location: | | East Tilt Panels, 110-125 | | | | | | | | |
| | Visual Description: | | Class One Structural Fill | | | | | | | | |
| | Remarks: | | | | | | | | | | |



Soil Density Report - Jul 22, 2020

KLF Project #: 20202628.001A

by **Dustin White** for **CSM Costco Aurora, CO Depot CoMET**
Soils/Pavements (AC)

| Test # | Test Info | | Proctor Data | | | Specs | | Results | | |
|---------------------------|---------------------|-------------------------|---------------------------|------------------------|------------------------|------------------------------------|---------------------------------------|-------------------|-----------------------|-------------------------|
| | Probe Depth (in) | Elev. / Depth Below FSG | Proctor # | Lab Max. Density (pcf) | Opt. Water Content (%) | Specified Compaction - Min/Max (%) | Specified Water Content - Min/Max (%) | Water Content (%) | Dry Unit Weight (pcf) | Relative Compaction (%) |
| 20200722-0918-DW-9 | 8 | 4' above pipe / | 20-DEN-00025 | 135.6 | 8.3 | 95 | 6.3 - 10.3 | 8.6 | 134.6 | 99.3 |
| | Location: | | East Tilt Panels, 110-125 | | | | | | | |
| | Visual Description: | | Class One Structural Fill | | | | | | | |



Daily Field Report - Jul 23, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Suntec, L.V., Fabco, Bible
Equipment: Georgia buckets, Grading, trenching, water truck

94°F, Clear
Time Start: 03:00 AM Time Stop: 05:30 PM

Types of Tests/Observations Performed:

Foundations, Reinforcing Steel



Report items

Comply

Documents Referenced:

Civil, Structural, Geotechnical

Observations/Remarks:

Early morning to place concrete through the dock slab at line "F" 18-24. Inspection is performed the previous day insuring the correct reinforcement is in place. This morning debris and wood is requested for removal prior to placement.

Approved mix (50VN00C6G) slab, 80 yard is placed and tested with compressive cylinders retrieved and placed in a weather cooler.

Mid-day the gourd shacks reinforcement for the ADA ram and stairs is preliminary inspected pointing out minor deficiency. All items observed is corrected prior to placing the final form.

ARS today is placing hydrated lime to tie up the small section SE, area #1. The second placement is mixed to the proper depth and one sample collected for lab unconfined compressive strength.

Nelson Pipe line continues installing SS, RCP and water line throughout the perimeter with Dustin Wight from Kleinfelder observing operations and testing.

Bible Electric continues placing and compacting the utilities for area 1 & 2 for light poles. One section is requested to remove the large lift, approx 3' in depth by L.V.

Bible removed the large lift at area #2, office parking area and re-compacted accordingly with water prior to lime treat. Random probing proves firm unyielding subgrade and trench.

.....
Kleinfelder Representative *Signature*

.....
Jessy Zarzan

.....
Kleinfelder Representative *Print Name*

Photo Log

Fig. 1: Utilities, Bible Electric, Area #1 &2



Fig. 2: Lime treat



Fig. 3:



Kleinfelder Representative *Signature*

Jessy Zarzan

Kleinfelder Representative *Print Name*



Sampling & Testing Log

Jul 23, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Supplier: Burnco 1 set(s) of Concrete Cylinders cast
Mix Design #: 50VN00C6G Specified Strength: **5000** psi @ **28** days required
Building Element: Slab-on-Grade
General Location: Between Depot and office

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|------------------------------|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 1276 / 20285181 / 1 | 10 | 3:12am | 4:00am | 4:15am | 48 | 6.5 | 1.8 | N/A | 80 | 63 | 0 | 6 |
| Specific Location: Line E-17 | | | | | | | | | | | | |



Daily Field Report - Jul 24, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Suntec, Bible, L.V and ARS
Equipment: Water truck, grading equipment, compaction

89°F, Clear
Time Start: 05:00 AM Time Stop: 02:00 PM

Types of Tests/Observations Performed:

Reinforcing Steel



Report items

Comply

Documents Referenced:

Civil, Structural, Geotechnical

Observations/Remarks:

Suntec's crew continues to place reinforcement for the proposed ADA ramp and stairs at the guard shack. During inspection rebar is adjusted to better position requirements. Chamfer is install correctly and rebar splice shows to be correct according to RFI-095, bar size and spacing is correct. The ramp wall will be place later in the upcoming week.
Epoxy with #4 L bars are placed by the crew drilling 4 1/2 inches into the refrigeration slab, cleaned with L bars placed at 18" OC with HILLTI HIT 500 for the proposed Electrical junction boxes four inch slab running the compressors.
Moving forward for next week, James Brock with Klienfelder will take on inspections.

Klienfelder Representative *Signature*

Jessy Zarzan

Klienfelder Representative *Print Name*

Photo Log

Fig. 1: Electrical slab



Fig. 2: ADA ramp at Guard shack





Kleinfelder Representative *Signature*

Jessy Zarzan

Kleinfelder Representative *Print Name*



Daily Field Report - Jul 24, 2020

KLF Project #: 20202628.001A

by James Brock for CSM Costco Aurora, CO Depot CoMET
Concrete

Client: Costco Wholesale 85°F, Heavy Rain
Contractor: Robinson Time Start: 06:30 AM Time Stop: 03:30 PM
Equipment: Front End Loader, Excavator, Sheeps Foot Compactor, Smooth Drum
Roller, Grader Traveled 1.5 hrs, mi.

Types of Tests/Observations Performed:

Reinforcing Steel

Report items
Comply

Documents Referenced:

Observations/Remarks:

A Kleinfelder representative was present at Costco Aurora on 7/24/2020 to perform continuous reinforcing steel inspection for the Guard Booth, Slab for the Condenser area, and the Light Pole fixtures. The Kleinfelder representative met was on site with Jesse Zarzan and Dustin White with Kleinfelder.

Guard Booth:

It was observed that chamfers on the exterior face were not present during the initial inspection. After informing the Suntech representative, corrective action took place. It was also observed that where corner bars spliced to straight horizontal #4 bars, a 1.5" clearance was not achieved. The Suntech representative was informed and corrective action took place. Splice lengths were measured and met/exceeded the 23" minimum requirement. Reinforcing Steel for the Guard Booth met the desired project specifications.

Condenser Slab:

The reinforced edge had not been installed prior to inspection. Holes were inspected prior to the epoxy and dowel process. 7" depth was measured in each hole. This exceeded the 6" minimum required. Holes were free of debris that would obstruct this process. The condenser slab is still in process.

Light Pole Fixtures:

4 #3 ties were observed to be installed at the top of the cage. All other #3 ties were measured 18" on center. 3" clearance was measured on all sides. The fiberglass tube was observed to be installed correctly. All reinforcing steel for the Light Pole Fixtures met the desired project specifications.

Kleinfelder Representative *Signature*

James Brock

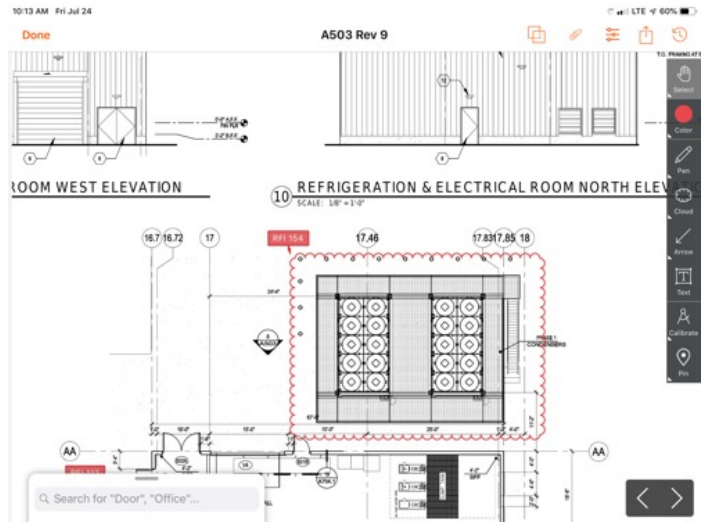
Kleinfelder Representative *Print Name*

Photo Log

Fig. 1:



Fig. 2:



James Brock

Kleinfelder Representative *Signature*

James Brock

Kleinfelder Representative *Print Name*



Daily Field Report - Jul 1, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

| | | |
|-------------|---|--|
| Client: | Costco Wholesale | 85°F, Clear |
| Contractor: | Nelson, LV, Bible | Time Start: 06:30 AM Time Stop: 06:30 PM |
| Equipment: | Rex Compactor, Front Loader, Skidsteer, Water Truck, Excavator, Personnel Transport Vehicle, 1000LB plate tamp, Stone Slinger. | Traveled 1.5 hrs, 72 mi. |

Types of Tests/Observations Performed:

Soil / Density Testing

Report items
Comply

Documents Referenced:

Water Profile A.2 + Laterals, Sewer Profile A.5, Concrete Notes

Observations/Remarks:

Representative arrived on site approximately 6:30 AM. On site is LV, 2 Nelson Crews, and Bible Electric.

Bible Electric placed Conduit on the east side of the project. Contractor moisture conditioned material for the North/South Power Conduit on the west side prior to placement/compaction in the power trench. Water Truck was used to moisten soil, front loader was used to mix/till material. Skid-steer was used to place material in Trench. Sheepsfoot Roller was used to provide compactive effort in order attain the 95% compaction required. Representative performed density tests in this area with passing results. See attached density report for results.

LV began excavating using a mini excavator around guard-shack for placement of Handicap ramp and Stairwell to be installed. Crew moved to North East side of Structure in order to begin placement of Class 1 material between tilt panels and existing building pad. Material was moisture conditioned via water truck prior to being transported into work area via Stone Slinger. Material was compacted via 1,000LB plate tamp. Representative performed density tests in this area with passing results. See attached density report this day. (Sub-drain was placed and compacted in on the 2nd lift.)

Nelsons 1st crew placed Thrust blocks and Tees along Water profile A.2. Crew began excavating and placing laterals for water profile A.2. Crew performed backfill operation using Rex Compactor, Front Loader, and Water truck to moisture condition material as it was placed/compacted along Water profile A.2. Representative performed density tests in this area with passing results. See density report attached this day.

Nelson 2nd crew placed MH base A.1-4. Manhole Type B bedding was tamped prior to placement of concrete. Representative tested concrete with passing results. Air Content was determined to be 5%. (5-8% required). Storm Drain Inlets A.2-1 and A.2-2 were placed and leveled. Crew moved on to perform excavation and placement of Sewer PVC. Crew continued placement of 8" Sewer PVC between MH A.5-1 to MH A.5-2. Type B Bedding was placed around pipe as per Civil Plans.

Kleinfelder Representative *Signature*

Johnny Stone

Kleinfelder Representative *Print Name*



Daily Field Report - Jul 2, 2020

KLF Project #: 20202628.001A

by **Dustin White** for **CSM Costco Aurora, CO Depot CoMET**
Soils/Pavements (AC)

Client: Costco Wholesale
Contractor: Lighting Ventures, Robinson, Burnco

90°F, Clear
Time Start: 07:00 AM Time Stop: 02:45 PM
Traveled 1.5 hrs, 80 mi.

Types of Tests/Observations Performed:

Concrete, Soil / Density Testing

Report items
Comply

Documents Referenced:

RFI-080

Observations/Remarks:

Lightning Ventures (4" Depot Interior Foundation Drain Structural Backfill) Class One backfill observation over 4" perforated foundation drain, behind tilt panels 72-93. Class one placed via Stone Slinger and moisture conditioned. Material was then compacted via 1,000lbs plate compactor.

Suntec/Burnco: Guard Booth Stair Wall Footing concrete observation and testing. Tests for Slump, Air Content, Unit Weight, and Temperature performed per ACI standards, with Kleinfelder Representative Johnny Stone. For Test results, they will be located in Johnny Stone's 7/2/20 concrete truck log report. Six compressive strength specimens cast. All testing yielded within mix specifications. No issues noted.

Kleinfelder Representative *Signature*

Dustin White

Kleinfelder Representative *Print Name*



Sampling & Testing Log

Jul 2, 2020

KLF Project #: 20202628.001A

by **Dustin White** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Supplier: Burnco 1 set(s) of Concrete Cylinders cast
Mix Design #: 45VN32C6G Specified Strength: **4500** psi @ **28** days required
Building Element: Footing
General Location: Guard Booth Footing for Stair Wall

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|--|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 1107 / 20279419 / | 10 | 10:31am | 11:30am | | 59 | 6 | 1.8 | 145.8 | 73 | 85 | 0 | 6 |
| Specific Location: Guard Booth Stair Wall Footing and South Footings, West of Building Pad | | | | | | | | | | | | |



Daily Field Report - Jul 2, 2020

KLF Project #: 20202628.001A

by Johnny Stone for CSM Costco Aurora, CO Depot CoMET
Soils/Pavements (AC)

Client: Costco Wholesale 89°F, Clear
Contractor: Nelson, Bible Time Start: 07:00 AM Time Stop: 02:00 PM
Equipment: Excavators, Water Trucks, Sheepsfoot Roller, Skidsteer, Front Loader Traveled 1.5 hrs, 72 mi.

Types of Tests/Observations Performed:

Soil / Density Testing

Report items
Comply

Documents Referenced:

Sewer Profile A.1

Observations/Remarks:

Representative observed work being performed on Sewer Line A.1. Sewer line had previously been determined to intersect with installed storm drain. Nelson was working on removing and regrading Sewer line in a manner that it would flow under the storm drain profile.

Bible Electric continued work on Power Trench North of the Guard shack with backfill and compaction. Bible also cleaned up work area to prepare for upcoming Holiday Weekend.

LV continued work on structural fill around the Building Pad (in between pad and Tilt Panels).

Representative was informed that crews would be departing at 2pm this day.

Dustin White with Kleinfelder performed the compaction testing. Please refer to his daily field report and soil density report for further information.

Kleinfelder Representative *Signature*

Johnny Stone

Kleinfelder Representative *Print Name*



Daily Field Report - Jul 2, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Suntec, Fabco, Nelson, Bible & Slaton Bros.
Equipment: Loader, Water, Scraper, Grader, Ex., Compactor

95°F, Clear
Time Start: 07:00 AM Time Stop: 04:30 PM

Types of Tests/Observations Performed:

Concrete, Reinforcing Steel, Soil / Density Testing



Report items

Comply

Documents Referenced:

Geotechnical, Civil, Structural & RFI-140

Observations/Remarks:

This morning Suntec's. Crew is constructing at the guard shack placing rebar at the South and North end for the proposed concrete stair case and footing. The Engineer is reach out for a question regarding the independent stair ramp, North end, sitting on subgrade the 8" bottom section of ramp, and not showing bars tying into the side walls. According to the Engineer from ENW, additional bars will need to be drilled and epoxied, an RFI by Robinson will be issued for approval.

Inspection is performed on reinforcement using approved plans, sheet S2.7 and S2.8, showing the footing bars to be in conformance and having the correct bar size, splice, spacing and vertical bars.

Offsets is provided by Robertson and Suntec.

Concrete is placed today by mid-day placing approved mix with required testing and samples. Samples will be retrieved the following day by Johnny with Kleinfelder.

L.V. Continues to install class-1 structural fill between the panel and back dock wall. Prior to placement, the approved perforated sub drain is placed per RFI-080, level and with filter fabric. The drain pipe will have moisture conditioned class-1 backfilled over the pipe and compacted with a plate tamp. Dustin with kleinfelder will perform density testing per the Geotechnical recommendations throughout the day with observation.

Kleinfelder Representative *Signature*

Jessy Zarzan

Kleinfelder Representative *Print Name*

Photo Log

Fig. 1: South end guard shack



Fig. 2: With drain, Northeast end



Fig. 3: Class-1



Fig. 4: 4X8 plate weld to plinth corner North office area



Jessy Zarzan

.....
Kleinfelder Representative *Signature*

Jessy Zarzan
.....
Kleinfelder Representative *Print Name*



Daily Field Report - Jul 7, 2020

KLF Project #: 20202628.001A

by **Zane Stinchcomb** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Robinson

94°F, Clear
Time Start: 05:00 AM Time Stop: 06:00 PM
Traveled 3.5 hrs, mi.

Types of Tests/Observations Performed:

Concrete, Other , Soils Observations

Report items
 Comply

Documents Referenced:

Approved Plans

Observations/Remarks:

I arrived on site at 8:30 am as requested by Robinson. Tasks for the day include Concrete testing, observation of concrete pour, and soils observations.

Nelson pipeline is placing concrete for MH bases. I observed that Nelson used a plate compactor on the bedding prior to the placement of concrete. I assisted Jesse W/ Kleinfelder with the concrete pour. For test results see Jesse's DFR.

Suntech is placing 30 yards for the interior footings of the guard shack. Prior to the placement of concrete Jesse inspected the rebar on a previous day. I assisted Jesse with the concrete pour. Only one set of six 4x8 cylinders were made. All concrete tests have been done in compliance with ACI/ASTM standards.

Bible Electric is setting the light poles for the parking lot along the East side of the site. Note Bible is not ready for rebar inspection or concrete placement.

LV inc is using a Rock slinger to place Class 1 base in between the back of dock wall and the SOG. LV moisture conditioned the material prior to placement. LV is using a 1,000 lb plate compactor to achieve the required 95% as found in the approved plans. Dustin W/ Kleinfelder is conducting density tests in this area see his DFR for locations and compaction results.

.....
Kleinfelder Representative *Signature*

.....
Zane Stinchcomb

.....
Kleinfelder Representative *Print Name*

Photo Log

Fig. 1: Concrete pour for guard shack



Zane

Kleinfelder Representative *Signature*

Zane Stinchcomb

Kleinfelder Representative *Print Name*



Daily Field Report - Jul 7, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Suntec
Equipment: Grading equipment, Rex compactor, water truck

87°F, Clear
Time Start: 07:00 AM Time Stop: 05:30 PM

Types of Tests/Observations Performed:

Reinforcing Steel, Soil / Density Testing

Report items
In Progress

Documents Referenced:

Geotechnical, Civil, Structural, RFI 151

Observations/Remarks:

Suntec today is working to install rebar for the interior column footing, Guard Shack. According to inspection, the subgrade is cleaned prior to concrete and rebar shows to be the correct size with spacing, depth, width and clearance from grade and forms. On the main depot from line F from 20 to 23 section tie beam between back dock wall and tilt panels, rebar is observed with #7 non contact bars. Tie beam #19 line F shows a bad sprawl at the corner of the plinth and exposing #6 rebar. This tie beam will not get poured, Suntec and Robinson is informed.

L.V continues to backfill with structural class-1 between the panels at the North end of the depot. Dustin with Kleinfelder will observe and test throughout the day.

By days-end concrete is placed for the tie beams and guard shack columns. One set of sample retrieved on mix 45VN32C6G, Burnco.

Kleinfelder Representative *Signature*

Jessy Zarzan

Kleinfelder Representative *Print Name*

Photo Log

Fig. 1: Plinth at line F-19



Fig. 2: Plinth



Fig. 3: Guard shack column



Jessy Zarzan

.....
Kleinfelder Representative *Signature*

Jessy Zarzan

.....
Kleinfelder Representative *Print Name*



Sampling & Testing Log

Jul 7, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET**
Concrete

Supplier: Burnco 1 set(s) of Concrete Cylinders cast
Mix Design #: 45VN32C6G Specified Strength: **4000** psi @ **28** days required
Building Element: Column footing
General Location: Guard shack Interior column footing

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|---|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 1207 / 20280107 / 1 | 10 | 10:18am | 10:55pm | 11:10am | 757 | 5.5 | 1.8 | | 84 | 87 | 0 | 6 |
| Specific Location: Guard shack, interior column footing | | | | | | | | | | | | |



Sampling & Testing Log

Jul 7, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET**
Concrete

Supplier: Martin Marietta

1 set(s) of Concrete Cylinders cast

Mix Design #: CD4525

Specified Strength: **4500** psi @ **28** days required

Building Element: Man Hole Base

General Location: E.1-4 MHB

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|--|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 8685 / 21092442 / 1 | 10 | 9:01am | 9:35am | 9:45am | 34 | 1.25 | 5.2 | | 80 | 77 | 0 | 6 |
| Specific Location: MHB E.1-4 HDPE pipe | | | | | | | | | | | | |
| Comments: No batch weight | | | | | | | | | | | | |



Daily Field Report - Jul 13, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Suntec, Fabco, Bible electric, Nelson

89°F,
Time Start: 07:00 AM Time Stop: 05:00 PM

Types of Tests/Observations Performed:

Concrete, Reinforcing Steel



Report items
Comply

Documents Referenced:

Civil, Structural, Geotech

Observations/Remarks:

This morning Suntec's crew continue installing rebar for the proposed Guard Shack exterior wall and perimeter columns for the canopy. The final inspection this morning shows minor deformities such as bar clearance and top anchor bolts, the top anchor bolts over the wall, crew indicated they will wet stab in place. Bar clearance, O.C, size and splice shows correct and all minor issues are fixed during inspection. Using the Structural plans for Guard booth, RFI-140 and 142, bars will be installed for the adjacent slab and ramp by incorporating the bars in with the wall pour.

Mid-day concrete is onsite by Burnco, mix 45VN32C6G and testing today proved mix to be in specification. One set of samples retrieved and placed in a weather box.

L.V. Continues working to backfill the office area and behind the tilt panels. By random probing behind panels at the office area loose fill is observed approximately 3' in depth. Informed the foreman Kirk and he said they will rework this area. By days end random probing and compaction testing by Dustin shows the structural class-1 to be firm and passing. Due to the small section, 3X3 feet behind the panel at the office area, moving forward crew will place an approved flow fill, then migrating past the office area South, class-1 will be used and compacted.

.....
Kleinfelder Representative *Signature*

.....
Jessy Zarzan

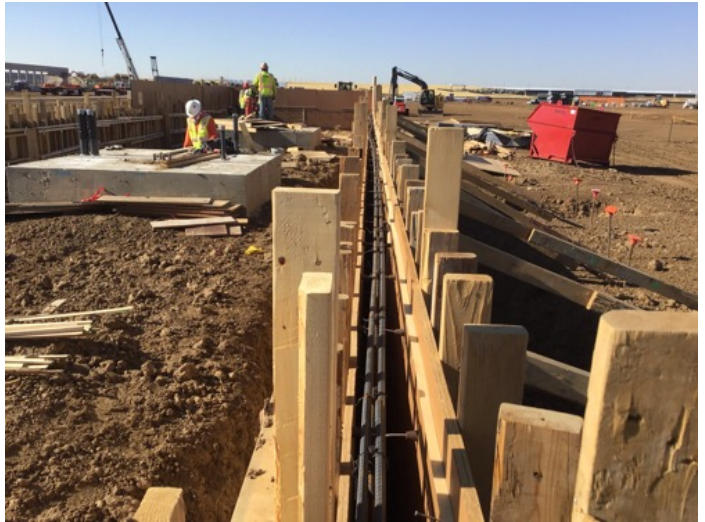
.....
Kleinfelder Representative *Print Name*

Photo Log

Fig. 1: Office behind panels (reworked)



Fig. 2: Guard Booth



.....
Kleinfelder Representative *Signature*

Jessy Zarzan

.....
Kleinfelder Representative *Print Name*



Sampling & Testing Log

Jul 13, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Supplier: Burnco 1 set(s) of Concrete Cylinders cast
Mix Design #: 45VN32C6G Specified Strength: **4500** psi @ **28** days required
Building Element: Exterior wall
General Location: Guard Shack exterior walls

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|---|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 1262 / 20281923 / 1 | 10 | 12:16pm | 1:15pm | 1:30am | 59 | 5.5 | 5.5 | | 83 | 87 | 5 | 6 |
| Specific Location: North end guard shack wall | | | | | | | | | | | | |

18" measured on center for all the bays being poured. This area is still in progress and a final inspection will be needed prior to pouring.

Photo Log

Fig. 1:



Fig. 2:

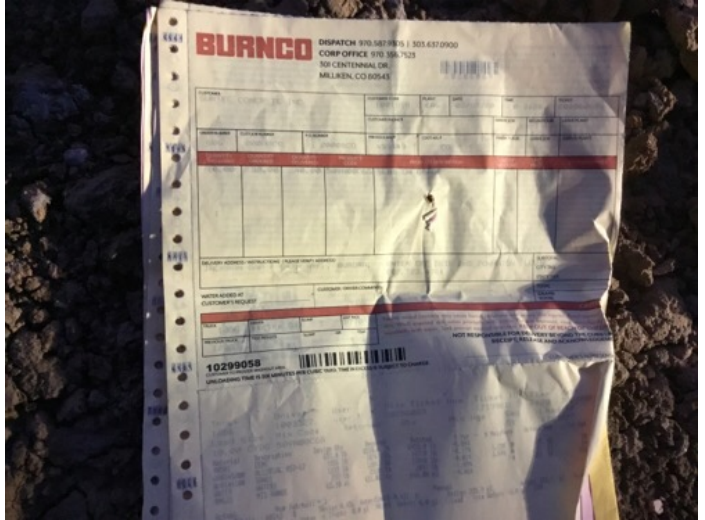


Fig. 3:

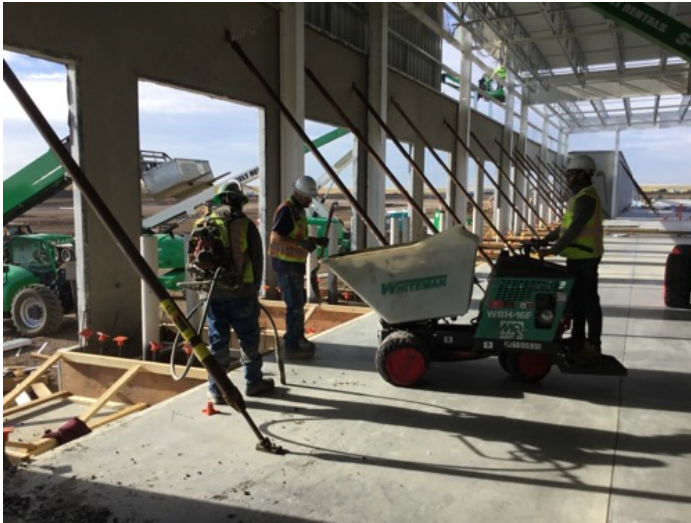


Fig. 4:



James Brock

Kleinfelder Representative *Signature*

James Brock

Kleinfelder Representative *Print Name*

Photo Log

Fig. 5:

Ticket # 21090555 **Order #** 416 **Date** 7/27/20 **Time** 13:02
Plant 376 PRIORITY 18376 **Dispatch #** 905-657-4545
Customer CSM COSTCO
PO # 2009 **Job #** 2009
MAP # 01700-A
Delivery Instructions
 E ON SOUTH AVE. (MILL) JOB SITE WILL BE ON THE LEFT
 NEXT TO THE PARKING WILL BE TESTED (W)
Test Results
 Temp: _____ Time: _____
 Slump: _____ SLP: _____
 Unit: _____ LAB: _____
 Cylinders: Y N
Sub Total 2.00 CYE
Total 2.00 CY
Comments

Fig. 6:

Ticket # 21090555 **Order #** 416 **Date** 7/27/20 **Time** 13:02
Plant 376 PRIORITY 18376 **Dispatch #** 905-657-4545
Customer CSM COSTCO
PO # 2009 **Job #** 2009
MAP # 01700-A
Delivery Instructions
 E ON SOUTH AVE. (MILL) JOB SITE WILL BE ON THE LEFT
 NEXT TO THE PARKING WILL BE TESTED (W)
Test Results
 Temp: _____ Time: _____
 Slump: _____ SLP: _____
 Unit: _____ LAB: _____
 Cylinders: Y N
Sub Total 2.00 CYE
Total 2.00 CY
Comments

Fig. 7:

Ticket # 21090555 **Order #** 416 **Date** 7/27/20 **Time** 13:02
Plant 376 PRIORITY 18376 **Dispatch #** 905-657-4545
Customer CSM COSTCO
PO # 2009 **Job #** 2009
MAP # 01700-A
Delivery Instructions
 E ON SOUTH AVE. (MILL) JOB SITE WILL BE ON THE LEFT
 NEXT TO THE PARKING WILL BE TESTED (W)
Test Results
 Temp: _____ Time: _____
 Slump: _____ SLP: _____
 Unit: _____ LAB: _____
 Cylinders: Y N
Sub Total 2.00 CYE
Total 2.00 CY
Comments

Fig. 8:

Ticket # 21090555 **Order #** 416 **Date** 7/27/20 **Time** 13:02
Plant 376 PRIORITY 18376 **Dispatch #** 905-657-4545
Customer CSM COSTCO
PO # 2009 **Job #** 2009
MAP # 01700-A
Delivery Instructions
 E ON SOUTH AVE. (MILL) JOB SITE WILL BE ON THE LEFT
 NEXT TO THE PARKING WILL BE TESTED (W)
Test Results
 Temp: _____ Time: _____
 Slump: _____ SLP: _____
 Unit: _____ LAB: _____
 Cylinders: Y N
Sub Total 2.00 CYE
Total 2.00 CY
Comments

James Brock

Kleinfelder Representative Signature

James Brock

Kleinfelder Representative Print Name



Sampling & Testing Log

Jul 27, 2020

KLF Project #: 20202628.001A

by **James Brock** for **CSM Costco Aurora, CO Depot CoMET**
Concrete

Supplier: Burnco 1 set(s) of Concrete Cylinders cast
Mix Design #: 50VN00C6G Specified Strength: **4500** psi @ **28** days required
Building Element: Slab-on-Grade
General Location: Condensor Slab

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|-----------------------------------|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 1286 / 202000606 9 / 4 | 10 | 3:45am | 4:20am | 4:45am | 35 | 6.75 | 1.9 | 147.4 | 75 | 65 | 0 | 6 |
| Specific Location: Condensor Slab | | | | | | | | | | | | |



Sampling & Testing Log

Jul 27, 2020

KLF Project #: 20202628.001A

by **James Brock** for **CSM Costco Aurora, CO Depot CoMET**
Concrete

Supplier: Burnco

1 set(s) of Concrete Cylinders cast

Mix Design #: 45VN32C6G

Specified Strength: **4500** psi @ **28** days required

Building Element: Wall Panel

General Location: Gaurd Booth

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|-------------------------------------|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 1282 / 202028617 4 / 1 | 8 | 9:48am | 10:42am | 11:15am | 54 | 7 | 4.5 | 140.72 | 81 | 85 | 0 | 6 |
| Specific Location: Gaurd Booth Wall | | | | | | | | | | | | |



Sampling & Testing Log

Jul 27, 2020

KLF Project #: 20202628.001A

by **James Brock** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Supplier: Burnco
Mix Design #: 45VN32C6G
Building Element: Wall Panel
General Location: NE Bay Walls

1 set(s) of Concrete Cylinders cast
Specified Strength: **4500** psi @ **28** days required

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|--|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 1112 / 20286085 / 1 | 7 | 6:17am | 7:31am | 7:45am | 74 | 6.5 | 5 | 142.16 | 74 | 70 | | 6 |
| Specific Location: Bay 76 Wall NE Side | | | | | | | | | | | | |



Sampling & Testing Log

Jul 27, 2020

KLF Project #: 20202628.001A

by **James Brock** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Supplier: Martin Marrietta
Mix Design #: ZA4315
Building Element: Lightpole
General Location: Light Pole East Side

1 set(s) of Concrete Cylinders cast

Specified Strength: **4500** psi @ **28** days required

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|---|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 8501 / 21093532 / 1 | 4 | 10:19am | 11:45am | 12:15pm | 86 | 6.5 | 6 | 142.5 | 87 | 91 | 8 | 6 |
| Specific Location: Light Pole East Side | | | | | | | | | | | | |
| Comments: 1/4 Air Pack Added | | | | | | | | | | | | |



Daily Field Report - Jul 27, 2020

KLF Project #: 20202628.001A

by James Brock for CSM Costco Aurora, CO Depot CoMET
Concrete

Client: Costco Wholesale 90°F, Clear
Contractor: Robinson Time Start: 03:30 AM Time Stop: 05:30 PM
Equipment: Cement Truck, Pump Truck, Excavator, Sheeps foot Compactor, Forklift Traveled 1.25 hrs, mi.

Types of Tests/Observations Performed:

Concrete, Reinforcing Steel

Report items
Comply

Documents Referenced:

3/S4.1, 2/S4.1, 1/S4.1, Concrete Submittals

Observations/Remarks:

A Kleinfelder representative was present at Costco Aurora on 07/27/2020 to perform reinforcing steel inspection, concrete testing, and backfill and excavation observation (Tested by Dustin White).

Refrigeration Slab: Upon arrival (4:00am), the Kleinfelder representative met with Owen with Robinson Construction to confirm the mix design and specifications. Concrete was being discharged by a pump truck. The test occurred on truck #4 (40 yards). Air Content, Slump, Unit Weight, and Mix Temperature were all tested. A set of 6 cylinders was casted for this pour. Cylinders were stored in a cooler on site. All results met the desired project specifications.

NE Bay Walls: Reinforcing steel inspection occurred at approximately 6:30am. The detail associate with this inspection is located on 3/S4.1. #4 'L' bars were observed to be previously installed at 18" measured on center. Two #4bars ran continuous on the top portion of the L bar. All reinforcing steel met the desired project specifications. Concrete testing for this area occurred at 7:30am. Air Content, Slump, Unit Weight, and Mix Temperature were all tested. A set of 6 cylinders was casted for this pour. Cylinders were stored in a cooler on site. All results met the desired project specifications.

Gaurd Booth: Reinforcing steel had been inspected prior to the arrival of the Kleinfelder representative. Concrete arrived at 10:42am. Air Content, Slump, Unit Weight, and Mix Temperature were all tested. A set of 6 cylinders was casted for this pour. Cylinders were stored in a cooler on site. All results met the desired project specifications.

Light Pole: Concrete was tested for this pour at 11:45am. The initial test of the Light Pole located on the east side resulted in a low air content (4.5%). 4 gallons and 1/8 of an air pack was added. A second test occurred which resulted in another low air content (5.5%). Another 4 gallons another 1/8 of an air pack was added. The final test resulted in 6% air. Air Content, Slump, Unit Weight, and Mix Temperature were all tested. A set of 6 cylinders was casted for this pour. Cylinders were stored in a cooler on site. All final results met the desired project specifications.

Another test occurred later at approximately 2:15pm. Only air and mix temperature were tested. Both of which met the desired project specifications.

West Bay Slab:

Inspection took place at approximately 3:15pm for the slab. It was observed the 'L' bars had yet to be installed

Kleinfelder Representative *Signature*

James Brock

Kleinfelder Representative *Print Name*



Daily Field Report - Aug 6, 2020

KLF Project #: 20202628.001A

by **Dustin White** for **CSM Costco Aurora, CO Depot CoMET**
Soils/Pavements (AC)

Client: Costco Wholesale
Contractor: Lightning Ventures, Robinson, Nelson Pipeline, Brannan

85°F, Cloudy
Time Start: 07:00 AM Time Stop: 05:00 PM
Traveled 1.5 hrs, 90 mi.

Types of Tests/Observations Performed:

Ac Pavement, Soil / Density Testing

Report items
Comply

Documents Referenced:

Observations/Remarks:

Lightning Ventures (Tilt Panel Backfill) Panel 24 interior: Large lift placement of roadbase fill at the final lift of base prior to slab, yielded low compaction due to lift size. LV will mitigate this on a later date, pending passing compaction values for this elevation.

Tilt Panels 1-9: Roadbase placement and moisture/density testing up to slab elevation. Roadbase processed and placed, then compacted via 800lbs plate tamper. Sufficient means of compaction observed. Jumping jacks used for Compactive efforts in between the tie beam reinforcements. No issues noted. LV informed of results.

Robinson (Guard house foundation): Roadbase material placement/observation and moisture/density testing. Material placed in 6" compacted lifts to the slab elevation of the south and center sections. Areas of low compaction were mitigated by Robinson by further compacting the material with the 800lbs plate compactor. Base material is at slab elevation, minus fine grading.

Brannan (Area One HMA) 1300 tons of 3/4" Mix 40185-S-100 23% BR 64-22, bottom mat (3" thickness) placed in heavy duty parking lot Area One. HMA arrived on site and the paver at 300 degrees F. Ambient temperature upon 7:00am start time was 80 degrees and rising. Average ambient temperature through the paving was 90 degrees F. Compaction equipment and roller pattern observed were as follows:

Paver: Volvo P711013

Breakdown Roller: DynaPac CC224HF 6 Passes

Rubber Tire (pneumatic): 4 passes

Finish Roller: CAT CB7: 6 Passes

High wind and rain near the last 5 loads, stopped paving shortly after. All testing in all pavement laid showed pavement within compaction specifications (92-96%). No issues noted, Brannan informed of results. Sampled every 750 tons.

Kleinfelder Representative *Signature*

Dustin White

Kleinfelder Representative *Print Name*



Asphalt Density Report - Aug 6, 2020

KLF Project #: 20202628.001A

by **Dustin White** for **CSM Costco Aurora, CO Depot CoMET**
Soils/Pavements (AC)

| | | | |
|----------------|------------------------|-----------------------------------|------------|
| Supplier: | Brannan | Test Method: | ASTM D2950 |
| Mix Design No: | 4018520 | Lab Max Density (pcf): | 154.1 |
| Mix Type: | 3/4" S100 23% BR 64-22 | Specified Compaction (Min - Max): | 92 - 96 |

| | | | |
|----------------------|----------|------------------------|----------------|
| Gauge Serial No.: | 24312 | Gauge Make/Model: | Troxler / 3440 |
| Date of Std./Adj.: | 8/6/2020 | Source of Calibration: | |
| Density Std. Count: | 1814 | Date of Calibration: | |
| Moisture Std. Count: | 570 | | |

General Area of Testing: Area One Heavy Duty Parking Lot, Lanes moving west from Dolly Pad

| Test # | Probe Depth (in) | Layer/Lift | Thickness (in) | Density Count, Trial 1 | Density (pcf), Trial 1 | Density Count, Trial 2 | Density (pcf), Trial 2 | Average Density (pcf) | Relative Compaction (%) |
|--|------------------|------------|----------------|------------------------|------------------------|------------------------|------------------------|-----------------------|-------------------------|
| 20200806-0845-DW-1 | BS | 1 | 3 | 144.5 | 144.3 | 146.1 | 146.2 | 145.3 | 94.3 |
| Location: 200'N of Start of Lane one from sidewalk east of dolly pad. Area One Parking lot | | | | | | | | | |
| 20200806-1005-DW-2 | BS | 1 | 3 | 145.2 | 145 | 145.7 | 144.8 | 144.9 | 94 |
| Location: Middle Lane 2, 15' West of Dolly Pad, 150'N of Sidewalk | | | | | | | | | |
| 20200806-1304-DW-3 | BS | 1 | 3 | 142.7 | 141.9 | 144.3 | 144 | 142.9 | 92.7 |
| Location: 3rd lane, 300' N of Sidewalk, East of Dolly pad. Area One Parking Lot | | | | | | | | | |
| 20200806-1313-DW-4 | BS | 1 | 3 | 146 | 145.6 | 145.1 | 144.3 | 144.9 | 94 |
| Location: Lane 5, 100'N of Center Sidewalk, Area One Parking Lot | | | | | | | | | |
| 20200806-1554-DW-5 | BS | 1 | 3.25 | 144.2 | 139.9 | 145.3 | 145.2 | 142.6 | 92.5 |
| Location: Lane 6, 40'E of Lightpole 33 | | | | | | | | | |
| 20200806-1600-DW-6 | BS | 1 | 3.25 | 145.2 | 145.3 | 144.5 | 145.1 | 145.2 | 94.2 |
| Location: Lane 7, 30'E of Lightpole 33 | | | | | | | | | |
| 20200806-1608-DW-7 | BS | 1 | 3.25 | 147.5 | 146.9 | 146 | 146.1 | 146.5 | 95.1 |
| Location: Lane 8, 15' E of Lightpole 33 | | | | | | | | | |



Soil Density Report - Aug 6, 2020

KLF Project #: 20202628.001A

by **Dustin White** for **CSM Costco Aurora, CO Depot CoMET**
Soils/Pavements (AC)

| | | | |
|---------------------|---|----------------------|----------------|
| General Location: | Tilt Panel interior, Guard House Foundation, North End Utilities/drainage | | |
| Test Type: | Nuclear Gauge | Test Method: | ASTM D6938 |
| Gauge Serial No.: | 24312 | Gauge Make/Model: | Troxler / 3440 |
| Date of Std./Adj.: | 8/6/20 | Date of Calibration: | |
| Density Std. Count: | 1814 | Moisture Std. Count: | 570 |

* - Denotes a test outside of specification

| Test # | Test Info | | Proctor Data | | | Specs | | Results | | |
|---------------------------|---------------------|----------------------------|---|------------------------|------------------------|------------------------------------|---------------------------------------|-------------------|-----------------------|-------------------------|
| | Probe Depth (in) | Elev. / Depth Below FSG | Proctor # | Lab Max. Density (pcf) | Opt. Water Content (%) | Specified Compaction - Min/Max (%) | Specified Water Content - Min/Max (%) | Water Content (%) | Dry Unit Weight (pcf) | Relative Compaction (%) |
| 20200806-0746-DW-1 | 6 | 2' below bottom of slab / | 20-DEN-00027 | 140.9 | 6.8 | 95 | 4.8 - 8.8 | 7.5 | 134.3 | 95.3 |
| | Location: | | Tilt Panel 4 Interior | | | | | | | |
| | Visual Description: | | Base Coarse Structural fill | | | | | | | |
| 20200806-0818-DW-2 | 6 | Bottom of Slab / | 20-DEN-00027 | 140.9 | 6.8 | 95 | 4.8 - 8.8 | 6.4 | 128.5 | 91.2* |
| | Location: | | Tilt Panel 24 | | | | | | | |
| | Visual Description: | | Base Coarse Structural fill | | | | | | | |
| 20200806-0929-DW-3 | 6 | 20" below bottom of slab / | 20-DEN-00027 | 140.9 | 6.8 | 95 | 4.8 - 8.8 | 8.6 | 133.8 | 95 |
| | Location: | | Tilt Panel 2 | | | | | | | |
| | Visual Description: | | Base Coarse Structural fill | | | | | | | |
| 20200806-0936-DW-4 | 6 | 16" Below bottom of slab / | 20-DEN-00027 | 140.9 | 6.5 | 95 | 4.5 - 8.5 | 8.5 | 133.8 | 95 |
| | Location: | | Tilt Panel 1 | | | | | | | |
| | Visual Description: | | Base Coarse Structural fill | | | | | | | |
| 20200806-1044-DW-5 | 6 | 8" below slab / | 20-DEN-00027 | 140.9 | 6.5 | 95 | 4.5 - 8.5 | 6 | 129.4 | 91.8* |
| | Location: | | Center Foundation Pad, South End of Guard Booth | | | | | | | |
| | Visual Description: | | Base Coarse Structural fill | | | | | | | |
| 20200806-1507-DW-6 | 6 | 12" below bottom of slab / | 20-DEN-00027 | 140.9 | 6.5 | 95 | 4.5 - 8.5 | 6.5 | 137.3 | 97.4 |
| | Location: | | Tilt panel 4 | | | | | | | |
| | Visual Description: | | Base Coarse Structural fill | | | | | | | |
| 20200806-1540-DW-7 | 6 | 8" BELOW BOTTOM OF SLAB / | 20-DEN-00027 | 140.9 | 6.5 | 95 | 4.5 - 8.5 | 8.5 | 135.3 | 96 |
| | Location: | | Center Foundation Pad, South End of Guard Booth | | | | | | | |
| | Visual Description: | | Base Coarse Structural fill | | | | | | | |
| | | Remarks: | (Retest: 20200806-1044-DW-5) | | | | | | | |



Soil Density Report - Aug 6, 2020

KLF Project #: 20202628.001A

by **Dustin White** for **CSM Costco Aurora, CO Depot CoMET**
Soils/Pavements (AC)

| Test # | Test Info | | Proctor Data | | | Specs | | Results | | |
|---------------------------|---------------------|---------------------------|-------------------------------|------------------------|------------------------|------------------------------------|---------------------------------------|-------------------|-----------------------|-------------------------|
| | Probe Depth (in) | Elev. / Depth Below FSG | Proctor # | Lab Max. Density (pcf) | Opt. Water Content (%) | Specified Compaction - Min/Max (%) | Specified Water Content - Min/Max (%) | Water Content (%) | Dry Unit Weight (pcf) | Relative Compaction (%) |
| 20200806-1542-DW-8 | 6 | 8" below bottom of slab / | 20-DEN-00027 | 140.9 | 6.5 | 95 | 4.5 - 8.5 | 6.9 | 135.2 | 96 |
| | Location: | | Tilt Panel 3 | | | | | | | |
| | Visual Description: | | Base Coarse Structural fill | | | | | | | |
| 20200806-1543-DW-9 | 6 | 3" below slab / | 20-DEN-00027 | 140.9 | 6.5 | 95 | 4.5 - 8.5 | 8.5 | 138.2 | 98.1 |
| | Location: | | Guard Booth Center Foundation | | | | | | | |
| | Visual Description: | | Base Coarse Structural fill | | | | | | | |



Daily Field Report - Aug 6, 2020

by Michael Vigil for CSM Costco Aurora, CO Depot CoMET
Concrete

DFR #: 08062020MV
KLF Project #: 20202628.001A

Client: Costco Wholesale 77°F, Partly Cloudy
Contractor: BRANNAN, LIGHTNING VENTURES Time Start: 09:00 AM Time Stop: 03:30 PM
Equipment: ASPHALT PAVING MACHINE, SOIL COMPACTION MACHINE, Traveled 4.25 hrs, 282 mi.

Types of Tests/Observations Performed:

Concrete, Soil / Density Testing

Report items
Comply

Documents Referenced:

Observations/Remarks:

At the request of the client Kleinfelder was on site today to perform concrete testing and welding inspection. While on standby for concrete testing, I was able to assist D. White of Kleinfelder by probing the soil compaction at the Costco Guard shack on the West side of the Depot. LV was prepping the soil for a slab on grade pour that would be taking place in the days to come. I was also able to assist D. White in the back scatter testing of the asphalt being placed in the SE parking lot of the site. By the end of the day, all concrete was postponed until the next day for various reasons. No Welding or Bolting inspections were needed today.

Kleinfelder Representative *Signature*

Michael Vigil

Kleinfelder Representative *Print Name*

Photo Log

Fig. 1: Guard shack soil compaction area



Fig. 2: SE park lot asphalt paving area



.....
Kleinfelder Representative *Signature*

Michael Vigil

.....
Kleinfelder Representative *Print Name*



Daily Field Report - Aug 8, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Suntec& L.V

90°F, Clear
Time Start: 04:00 AM Time Stop: 03:00 PM

Types of Tests/Observations Performed:

Concrete, Reinforcing Steel



Report items

Comply

Documents Referenced:

Civil, Structural, Geotechnical

Observations/Remarks:

Early morning after finalizing expansion around plumbing, slab depth and rebar installation, the guard shack slab on grade is poured. Concrete is sample and tested per requirements with one set of six cylinder samples collected on Burnco's mix (50VN00C6G).
A second sample is collected mid-day for a man hole base, Specific Location: MH A.9-7, 17+62.82 RCP, for Nelson pipeline. Sample is placed in a weather protected box.
A third concrete placement after inspection is for the wall for the truck ramp and stairs, south of the office.
L.V continues placing moisture conditioned class-1 structural just South of the office and compacting 10" loose lifts with a heavy plate tamp. Random probing today proves firm/unyielding.

Kleinfelder Representative *Signature*

Jessy Zarzan

Kleinfelder Representative *Print Name*

Photo Log

Fig. 1: Guard Shack foundation prep



Kleinfelder Representative *Signature*

Jessy Zarzan

Kleinfelder Representative *Print Name*



Sampling & Testing Log

Aug 8, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET**
Concrete

Supplier: Burnco 1 set(s) of Concrete Cylinders cast
Mix Design #: 50VN00C6G Specified Strength: **5000** psi @ **28** days required
Building Element: Slab-on-Grade
General Location: North end of the guard shack, SOG

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|---|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 1171 / 20289864 / 1 | 10 | 4:16am | 4:53am | 5:22pm | 37 | 6.0 | 1.8 | 148.1 | 82 | 66 | 0 | 6 |
| Specific Location: SOG, Guard Shack North end | | | | | | | | | | | | |



Sampling & Testing Log

Aug 8, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET**
Concrete

Supplier: Martin Marietta

1 set(s) of Concrete Cylinders cast

Mix Design #: CD4525

Specified Strength: **4500** psi @ **28** days required

Building Element: MH Base

General Location: MH A.9-7, 17+62.82 RCP

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|---|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 2030 / 21094398 / 1 | 10 | 8:44am | 9:15am | 9:30am | 31 | 2 | 5.0 | | 81 | 72 | 0 | 6 |
| Specific Location: MH A.9-7, 17+62.82 RCP | | | | | | | | | | | | |



Sampling & Testing Log

Aug 8, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET**
Concrete

Supplier: Burnco 1 set(s) of Concrete Cylinders cast
Mix Design #: 20289911 Specified Strength: **4500** psi @ **28** days required
Building Element: Ramp wall
General Location: Truck ramp wall South of the office

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|--|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 1117 / 20289911 / 1 | 10 | 9:23am | 9:57am | 10:18am | 34 | 5.5 | 4.5 | 145.1 | 82 | 75 | 0 | 6 |
| Specific Location: Wall for truck ramp and stairs, south of office | | | | | | | | | | | | |



Daily Field Report - Aug 5, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET Concrete**

Client: Costco Wholesale
Contractor: Suntec, Fabco, L.V, Thoutt Bros.
Equipment: Pump Truck, water truck, grading equipment

93°F, Clear
Time Start: 07:00 AM Time Stop: 05:00 PM

Types of Tests/Observations Performed:

Concrete, Reinforcing Steel

Report items
Comply

Documents Referenced:

Geotechnical, Civil, Structural

Observations/Remarks:

The South truck ramp wall at the office area shows rebar, chamfer, splice, spacing and the correct size bars to be in conformance with structural drawings. The wall is poured late in the afternoon, tested with one set of cylinders collected and the test proved temp, slump and air meeting requirements. Sample is place in a weather protected box.

Suntec continues installing rebar for the proposed ADA ramp and stairs at the office area, preliminary inspection today. Fine grading and moisture conditioning lime treaded subgrade throughout the day at area #1, random compaction testing by Dustin White. Depth checking today proved lime treat to be at 8" depth through the PCCP area and 12" for heavy HMA per Addendum No. 2, Pavement Recommendations by Klienfelder.

After compaction, no visual pumping is observed throughout todays compacted area.

Second Suntec's crew today's continues working on the guard shacks reinforcement for the proposed foundation.

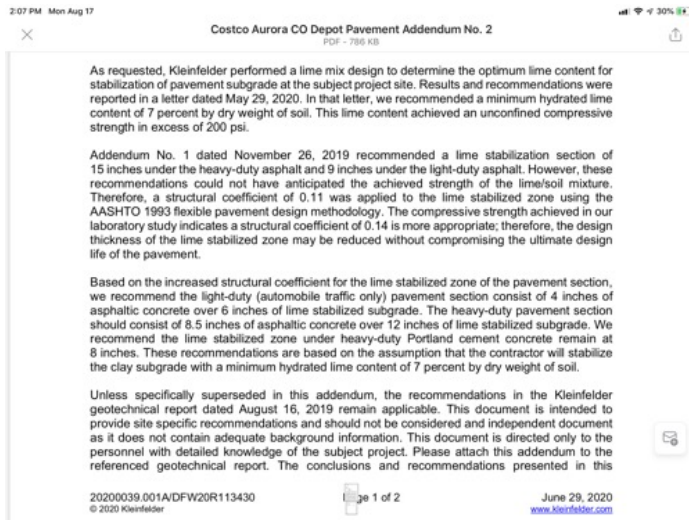
Klienfelder Representative *Signature*

Jessy Zarzan

Klienfelder Representative *Print Name*

Photo Log

Fig. 1: Addendum No. 2 Pavement Recommendations



Kleinfelder Representative *Signature*

Jessy Zarzan

Kleinfelder Representative *Print Name*



Sampling & Testing Log

Aug 5, 2020

KLF Project #: 20202628.001A

by **Jessy Zarzan** for **CSM Costco Aurora, CO Depot CoMET**
Concrete

Supplier: Burnco 1 set(s) of Concrete Cylinders cast
Mix Design #: 45VN32C6G Specified Strength: **4500** psi @ **28** days required
Building Element: Footing
General Location: North ramp footing South of the office

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|--|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 1117 / 20288942 / 1 | 10 | 2:33pm | 3:00am | 3:20pm | -693 | 5.75 | 4.2 | 144.4 | 79 | 81 | 0 | 6 |
| Specific Location: Ramp and wall footing South of the office | | | | | | | | | | | | |



Daily Field Report - Aug 20, 2020

DFR #: 08202020MV
KLF Project #: 20202628.001A

by Michael Vigil for CSM Costco Aurora, CO Depot CoMET
Concrete

Client: Costco Wholesale
Contractor: SPAN CONSTRUCTION, THOUT BROS CONCRETE

90°F, Clear
Time Start: 09:00 AM Time Stop: 02:30 PM
Traveled 4.25 hrs, 275 mi.

Types of Tests/Observations Performed:

Concrete, Steel / Welding

Report items
Comply

Documents Referenced:

COLUMN AND BEAM FRAMES LAYOUT PLAN GUARD SHACK 5/26/2020, AISC 360, COSTCO MIX DESIGN SPECIFICATIONS

Observations/Remarks:

At the request of the client Kleinfelder was on site today to perform concrete testing and sampling as well as welding and bolting inspection and testing. Upon arrival I met with D.White and J.Zarzan of Kleinfelder. They informed me of the concrete testing needed for today. I also met up with Jody Weeks of Span Construction, his crew has completed the column and beam frame welds of the guard shack, he gave me a copy of the erection drawing. The erection drawing is attached to this report. I told him I would inspect the welds, and that I will be conducting high strength bolts testing with the skidmore wilhelm today. Alan of Span and I used a man lift and fall protection to gain access to the guard shack weld connections. The welds were inspected for size, length, location and appearance. No issues were found and the welds meet the requirements of AISC 360 table N5.4-3 and the attached erection drawing. Jody was notified of the completed inspection of the guard shack. Alan collected three bolt assemblies of each size of A-325 bolt currently being used in production. I set up the skidmore bolt tension measuring device as Alan fastened each assembly. I was verified that each assembly met the requirements of AISC 360-16 table J3.1. Below are the results:

3/4" bolt - 37kips, 38kips & 34kips

7/8" bolt - 46kips, 44kips & 45kips

1" Bolt - 59kips, 62kips & 66kips

The F436 washer was placed below the UDH nut.

Thout brothers concrete was on site today placing concrete for a segment of curb and gutter on the w side of the East parking lot near light pole 18. Brannan ready mix delivered 8Cy of mix design 145814 and the mix was tested for slump, air content, unit weight and temperature. The test results can be found on the Sampling and Testing Log for today.

Kleinfelder Representative *Signature*

Michael Vigil

Kleinfelder Representative *Print Name*

Photo Log

Fig. 1: COLUMN AND BEAM FRAM PLAN GUARD SHACK

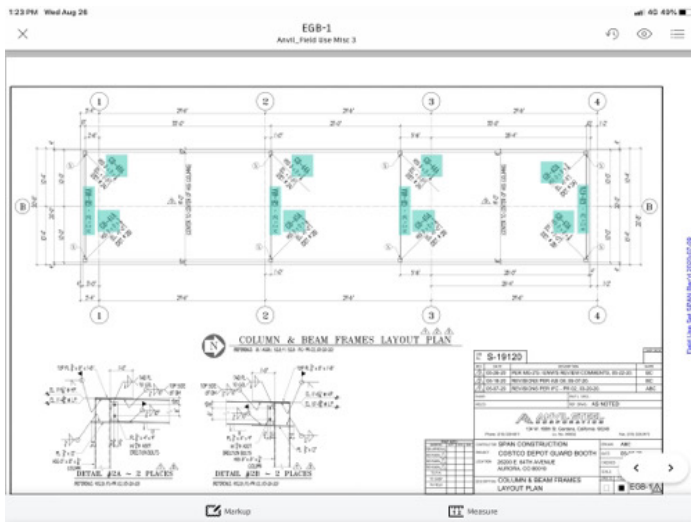


Fig. 2: Guard shack inspection area



Fig. 3: Top of column cap weld



Fig. 4: Column to beam fillet weld



Kleinfelder Representative *Signature*

Michael Vigil

Kleinfelder Representative *Print Name*

Photo Log

Fig. 5: 3/4" A325 bolt test result example

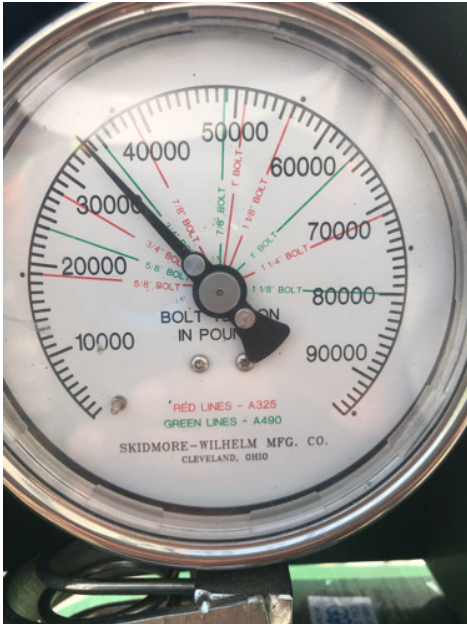


Fig. 6: 7/8" A325 bolt test result example



Fig. 7: 1" A325 bolt test result example

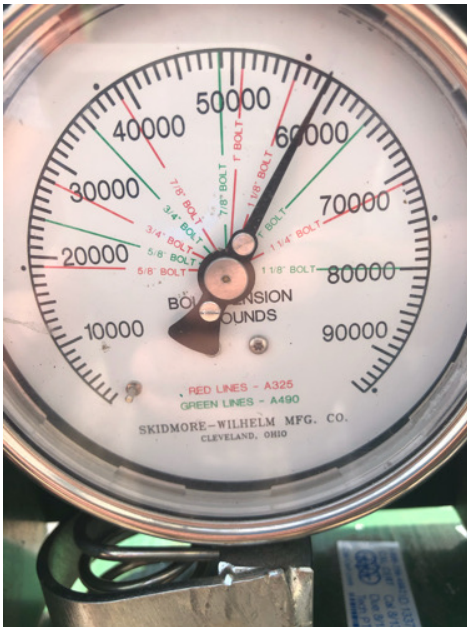


Fig. 8: Column to embed plate fillet weld - guard shack



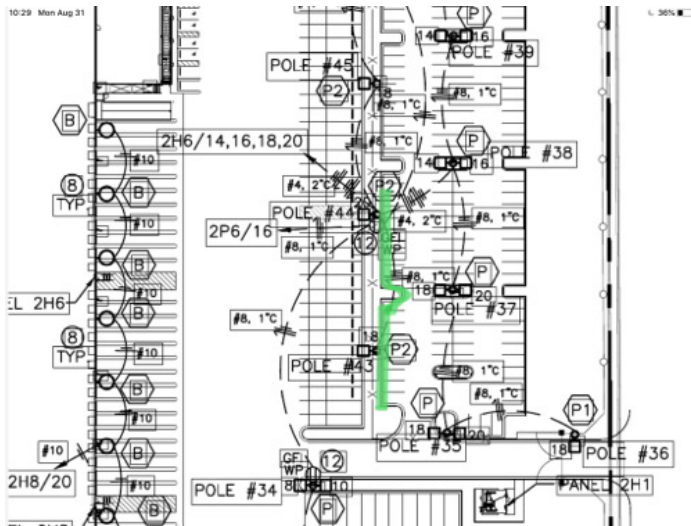
[Handwritten Signature]

.....
Kleinfelder Representative *Signature*

Michael Vigil
.....
Kleinfelder Representative *Print Name*

Photo Log

Fig. 9: Curb and gutter concrete placement area.



Kleinfelder Representative *Signature*

Michael Vigil

Kleinfelder Representative *Print Name*



Sampling & Testing Log

Aug 20, 2020

DFR #: 08202020MV
KLF Project #: 20202628.001A

by **Michael Vigil** for **CSM Costco Aurora, CO Depot CoMET**
Concrete

Supplier: Brannan ready mix 0 set(s) of Concrete Cylinders cast
Mix Design #: 145814 Specified Strength: **4500** psi @ **28** days required
Building Element: Curb/Gutter
General Location: Curb and Gutter near pole 43

*Denotes a test outside of specification

| Truck / Ticket / Load | Batch Size (cy) | Batch Time | Sample Time | Time Truck Completed | Mix Duration at Sampling (mins) | Slump (in) | Air Content (%) | Unit Weight (pcf) | Mix Temp (F) | Air Temp (F) | Water Added (gal) | Samples Taken |
|---|-----------------|------------|-------------|----------------------|---------------------------------|------------|-----------------|-------------------|--------------|--------------|-------------------|---------------|
| 3824 / 1769604 / 1 | 8 | 11:11am | 12:30pm | 12:55pm | 79 | 4 | 6 | 139.4 | 78 | 84 | 0 | |
| Specific Location: Curb and Gutter near pole 43 | | | | | | | | | | | | |



TIM RYAN

PROJECT MANAGER

Mr. Ryan has 20 years of quality assurance experience managing large-scale infrastructure projects throughout the U.S. He holds numerous industry-related certifications and is skilled in understanding and interpreting plans and specifications as they relate to Quality Assurance/Quality Control (QA/QC) functions. Mr. Ryan excels at interfacing with owner representatives; managing and training technicians to perform tests in accordance with AASHTO, ASTM, and state standards, performing, verifying, and reviewing tests and surveys for concrete, asphalt, and lime-treated soils; reviewing requests for Information (RFIs) and submittals; managing subcontractor's Quality Control programs; and establishing and monitoring quality laboratory and testing programs.

Certifications

WAQTC Embankment & Base
ACI Field Testing Technician,
Level
ACI Concrete Laboratory Testing
Technician, Level I
ACI Concrete Strength Testing
Technician, Level I
ACI Aggregate Testing
Technician, Level I
ACI Concrete Special Inspector
NICET Level I for Concrete and
Soils
NICET Level II for Asphalt
Materials
CAPA A, B, C, E, I CDOT Asphalt
Technician/Inspector
USACE Construction Quality for
Contractors (Expired)
Nuclear Gauge/Troxler
ACI Concrete Construction
Special Inspector (CCSI)

Total Years of Experience

20 years

PROFESSIONAL EXPERIENCE

Central 70 Reconstruction Project Denver, Colorado

The \$1.2 billion Central 70 project located between I-25 and Chambers Road, in Denver Colorado is home to 1,200 businesses, providing the regional connection to Denver International Airport (DIA) and carrying upwards of 200,000 vehicles per day. The Public Private Partnership (P3) Project will reconstruct a 10-mile stretch of Interstate 70 between Brighton Boulevard and Chambers Road, add one new Express Lane in each direction, remove the aging 56-year-old viaduct, lower the interstate between Brighton and Colorado boulevards, and place a 4-acre park over a portion of the lowered interstate. Kleinfelder is working for Kiewit as a part of the project's Quality Assurance (QA) team overseeing project construction. Mr. Ryan is Kleinfelder's project manager and manages a staff of 5 QA inspectors and technicians.

Regional Transportation District (RTD) – Eagle P3 Project Denver, Colorado

The \$2.1 billion EAGLE (East and Gold Line Enterprise) Project was the largest Public Private Partnership (P3) project in the United States and accounts for the largest segment of commuter rail transit within the Regional Transportation District's (RTD) FasTracks Program in Colorado. The EAGLE project spanned over 40 miles of commuter rail transit through the Denver metropolitan area, connecting several suburbs to the Denver International Airport. Kleinfelder acted as the quality assurance team for the project design/build/operate contractor, Denver Transit Partners, Inc. (DTP). Mr. Ryan oversaw the quality program for

all grading, concrete, framework, and asphalt elements associated with the project and a staff of inspectors, and technicians. In addition, he managed the scheduling of testing and inspection services, documentation review and approval, conformance of project plans and right-of-way CDOT specifications as well as 11 other jurisdictional specifications.

Denver Water, Gross Dam Expansion -Initial RCC Mix Designs, Boulder County, Colorado

The Gross Reservoir Expansion is a key component of Denver Water's plan for future sustainability and reliability in Front Range water supply. The Gross Reservoir Expansion is a large, complex project requiring the better part of a decade to complete. Upon completion, the expansion will provide an additional 77,000 ac-ft of water storage. With a raise of 131 feet at a total height of 471 feet, Mr. Ryan oversaw the team and participated in the initial roller-compacted concrete (RCC) mix design work performed in our Golden, Colorado materials testing laboratory.



DAVE BRUBAKER

QUALITY ASSURANCE INSPECTOR

Mr. Brubaker has over 20 years of professional experience providing field and laboratory construction observation and materials testing services for large civil infrastructure projects. His field inspection and materials testing experience includes performing grading and embankment construction, subgrade preparation, utility installation, trench backfill observations, in-place density testing, drilled caisson observation, driven pile installation, concrete sampling and testing, structural concrete placement, asphalt sampling and reinforcing steel inspection, masonry construction observation, and post tension cable placement and stressing. His laboratory testing experience includes performing tests for concrete, soils, and asphalt materials, including moisture content, proctor density, atterberg limits, gradation analysis, compressive strength, asphalt mix rice value, AC content, bulk specific gravity, and voids.

Education

BS, Engineering, University of Missouri-Rolla, 1997

Certifications

CDOT Erosion Control
Supervisor

CDOT Traffic Control Supervisor
WAQTC Embankment and
Base/Density Testing Technician
(EBTT/DTT)

OSHA 10-Hour Construction
Safety Training

CDOT Plan Reading, Math, and
Surveying

CDOT Site Manager LIMS

CDOT Asphalt Inspector

CDOT Concrete Inspector

ACI Field Testing Technician,
Level

ACI Concrete Construction

Special Inspector (CCSI)

ACI Concrete Strength Testing
Technician, Level I

Troxler Radiation Safety Officer
Certification

CAPA A, B, C, E, I CDOT Asphalt
Technician/Inspector

First Aid and CPR

Total Years of Experience

23 years

PROFESSIONAL EXPERIENCE

Regional Transportation District (RTD) – Eagle P3 Project Denver, Colorado

The \$2.1 billion EAGLE (East and Gold Line Enterprise) Project was the largest Public Private Partnership (P3) project in the United States and accounts for the largest segment of commuter rail transit within the Regional Transportation District's (RTD) FasTracks Program in Colorado. The EAGLE project spanned over 40 miles of commuter rail transit through the Denver metropolitan area, connecting several suburbs to the Denver International Airport. Kleinfelder acted as the quality assurance team for the project design/build/operate contractor, Denver Transit Partners, Inc. (DTP). Mr. Brubaker was responsible for performing construction observations and materials testing for project elements including grading and embankment construction, utility installation, trench backfill, reinforcing steel, structural concrete, and asphalt paving. He performed weekly erosion control/stormwater inspections within the City and County of Denver and provided detailed reports of noncompliance items.

I-70 Over Havana Bridge Replacement D-B, CDOT, Denver, Colorado

The \$25 million reconstruction of the existing I-70 bridge over Havana Street, and construction of a new bridge over a UPRR spur line project included interchange ramp improvements, lighting upgrades, new asphalt paving of approximately 2 miles, retaining walls, concrete shoulder improvements and construction of a railroad tunnel structure under I-70. Mr. Brubaker managed and maintained the CDOT materials books and the project LIMS database.

I-25 North Academy Blvd. to Baptist Rd., Colorado Springs, Colorado

The project consisted of the widening of a section I-25 mainline from Academy Blvd. to Interquest Parkway north of Colorado Springs, CO. As Quality Assurance Materials Testing Technician, Mr. Brubaker performed field and lab testing of soils, concrete, and asphalt materials; filled out daily reports; reported results and observations on CDOT forms; and delivered the information to the Client.



Jessy Zarzan

QUALITY ASSURANCE INSPECTOR

Mr. Zarzan has over 20 years of professional experience providing field and laboratory construction observation and materials testing services for large civil infrastructure projects. His field inspection and materials testing experience includes performing grading and embankment construction, subgrade preparation, utility installation, trench backfill observations, in-place density testing, drilled caisson observation, driven pile installation, concrete sampling and testing, structural concrete placement, asphalt sampling and reinforcing steel inspection, masonry construction observation, and post tension cable placement and stressing. His laboratory testing experience includes performing tests for concrete, soils, and asphalt materials, including moisture content, proctor density, atterberg limits, gradation analysis, compressive strength, asphalt mix rice value, AC content, bulk specific gravity, and voids.

Certifications

CDOT Traffic Control
Supervisor
OSHA 10-Hour Construction
Safety
WAQTC Embankment & Base
CDOT Plan Reading, Math,
and Survey
ACI Field Testing Technician,
Level
CAPA A, B, C, E, I CDOT
Asphalt Technician/Inspector
Nuclear Gauge/Troxler

Total Years of Experience

20 Years

PROFESSIONAL EXPERIENCE

Central 70 Reconstruction Project Denver, Colorado

The \$1.2 billion Central 70 project located between I-25 and Chambers Road, in Denver Colorado is home to 1,200 businesses, providing the regional connection to Denver International Airport (DIA) and carrying upwards of 200,000 vehicles per day. The Public Private Partnership (P3) Project will reconstruct a 10-mile stretch of Interstate 70 between Brighton Boulevard and Chambers Road, add one new Express Lane in each direction, remove the aging 56-year-old viaduct, lower the interstate between Brighton and Colorado boulevards, and place a 4-acre park over a portion of the lowered interstate. Kleinfelder is working for Kiewit as a part of the project's Quality Assurance (QA) team overseeing project construction. Mr. Zarzan performed materials testing and observation for all project elements including excavation, grading, and backfill testing and observation; concrete testing; reinforced and concrete inspection.

Regional Transportation District (RTD) – Eagle P3 Project Denver, Colorado

The \$2.1 billion EAGLE (East and Gold Line Enterprise) Project was the largest Public Private Partnership (P3) project in the United States and accounts for the largest segment of commuter rail transit within the Regional Transportation District's (RTD) FasTracks Program in Colorado. The EAGLE project spanned over 40 miles of commuter rail transit through the Denver metropolitan area, connecting several suburbs to the Denver International Airport. Kleinfelder acted as the Quality Assurance team for the project design/build/operate contractor, Denver Transit Partners, Inc. (DTP). Mr. Zarzan was responsible for performing construction observations and materials testing for project elements including grading and embankment construction, utility installation, trench backfill, reinforcing steel, structural concrete, and asphalt paving. He performed weekly erosion control/stormwater inspections within the City and County of Denver and provided detailed reports of noncompliance items.

Aurora Staff Augmentation, City of Aurora, Aurora, Colorado

Kleinfelder is contracted with the City of Aurora to augment their materials field and laboratory testing staff. Mr. Zarzan assists with review and approval of outside materials testing for road, sidewalk, and wet and dry utilities. He verified compliance with City testing specifications and inspects Micropile installations and ground and pavement conditions to determine cause of failure and materials testing for embankment, roadway, wet and dry utilities, sidewalks, residential, and laboratory services.



Certifications

CDOT Traffic Control
Supervisor
OSHA 10-Hour Construction
Safety
WAQTC Embankment & Base
Storm water Erosion Control
(TECS)
CDOT Plan Reading, Math,
and Survey
ACI Field Testing Technician,
Level
CAPA A, B, C, E, I CDOT
Asphalt Technician/Inspector
NICET Level II
Nuclear Gauge/Troxler
ICC Masonry Special Inspector

Total Years of Experience

18 Years

Grant Mathers

QUALITY ASSURANCE INSPECTOR

Mr. Mathers has over 18 years of professional experience providing field and laboratory construction observation and materials testing services for large civil infrastructure projects. His field inspection and materials testing experience includes performing grading and embankment construction, subgrade preparation, utility installation, trench backfill observation, in-place density testing, drilled caisson observation, driven pile installation concrete sampling and testing, structural concrete placement, asphalt sampling and in-place density testing, reinforcing steel inspection, masonry construction observation, and post tension cable placement and stressing. His laboratory testing experience includes performing tests for concrete, soils, and asphalt materials, including moisture content, proctor density, Atterberg limits, gradation analysis, compressive strength, asphalt mix rice value, AC Content, bulk specific gravity, and voids.

PROFESSIONAL EXPERIENCE

Central 70 Reconstruction Project Denver, Colorado

The \$1.2 billion Central 70 project located between I-25 and Chambers Road, in Denver Colorado is home to 1,200 businesses, providing the regional connection to Denver International Airport (DIA) and carrying upwards of 200,000 vehicles per day. The Public Private Partnership (P3) Project will reconstruct a 10-mile stretch of Interstate 70 between Brighton Boulevard and Chambers Road, add one new Express Lane in each direction, remove the aging 56-year-old viaduct, lower the interstate between Brighton and Colorado boulevards, and place a 4-acre park over a portion of the lowered interstate. Kleinfelder is working for Kiewit as a part of the project's Quality Assurance (QA) team overseeing project construction. Mr. Mathers performed special inspection services for this project as well as performed field and laboratory testing on concrete and embankment materials.

I-70 Over Havana Bridge Replacement D-B, CDOT, Denver, Colorado

The \$25 million reconstruction of the existing I-70 bridge over Havana Street, and construction of a new bridge over a UPRR spur line project included interchange ramp improvements, lighting upgrades, new asphalt paving of approximately 2 miles, retaining walls, concrete shoulder improvements and construction of a railroad tunnel structure under I-70. Mr. Mathers was responsible for performing materials testing and construction observations of all project work including roadway pavements, earthwork, drainage, signage, striping, structural concrete and bridge elements, environmental and erosion control, and MOT.

Regional Transportation District (RTD) – Eagle P3 Project, Denver, Colorado

The \$2.1 billion EAGLE (East and Gold Line Enterprise) Project was the largest Public Private Partnership (P3) project in the United States and accounts for the largest segment of commuter rail transit within the Regional Transportation District's (RTD) FasTracks Program in Colorado. Kleinfelder acted as the quality assurance team for the project design/build/operate contractor, Denver Transit Partners, Inc. (DTP). Mr. Mathers provided inspections and materials testing to adhere to the project specifications. He also provided the inspections for each railway section and pedestrian tunnels. Additionally, Mr. Mathers performed the safety inspection of each traffic control safety system installed on the project.



DUSTIN WHITE

CONSTRUCTION INSPECTOR

Mr. White has assisted in managing various geotechnical engineering, and construction materials testing projects. Technical areas of emphasis include process control and field team management. In the field, Mr. White has expertise in, concrete flatness testing, concrete testing, density testing of fill, construction materials quality assurance/quality control observations, and soils and foundation inspection.

PROJECT EXPERIENCE

CDOT Central 70 - Process Control Lead and Dispatcher

For a year and a half, Mr. White directed process control and organized and coordinated field operations team for all process control disciplines and crews for this \$1.2 Billion project. His role included coordinating with the contractor, Independent Quality Control (IQC) representatives, Independent Assurance Testing (IAT) representatives, Owner Verification Testing (OVT) representatives, and discipline managers to facilitate process operational needs. Material testing and inspection included but not limited to: Bridges, MSE Walls, Roadway, Grading, Utilities, Drainage, and Secant Walls. Provided construction material testing for concrete, paving, and earthwork/embankment, both in the field and in lab.

76 Commerce Center, Denver, CO

Quality Assurance Lead for Building 5 construction

Mr. White managed scheduling and coordination with client for Quality Assurance/Quality Control testing and inspection of earthwork, concrete, and pavement on Building 5 as part of this 1.8 Million SF Class A Industrial Development. Mr. White also provided settlement plate monitoring and flatwork for future construction of Buildings 1 and 2.

Education

Registration/Certification

ACI Field Testing Technician Grade 1

WAQTC

NTS

RailSafe

Nuclear Gauge operation, Safety, and
HaZMat

Years of Experience

4 years

CDOT I-76 Frontage Road Lane expansion, Lochbuie, Colorado

Mr. White managed scheduling and client coordination as well as provided testing and inspection on earthwork and asphalt.

State Highway 7 Expansion near Estes Park, CO

Mr. White performed Quality Control construction materials testing of Earthwork, Concrete, and Asphalt.

State Highway 67 bridge repair, Sedalia, CO

Mr. White performed Quality Control construction materials testing of Earthwork, Concrete, and Asphalt.

US 36 Emergency Repair

Mr. White was the Quality Control Lead and performed testing of concrete for the retaining wall emergency repair along eastbound US 36.

S Curve Alignment on US 6, CO 14 & CO 138, Sterling, CO

Mr. White was the Quality Control Lead for this \$16.6 million project that will construct an "S-Curve" to connect CO 14 and US 6 over abandoned railroad rights-of-way and streamline truck traffic through Sterling. One of Mr. White's first duties was to set up a mobile lab for the QC testing in coordination with the Colorado Department of Transportation (CDOT). He also provided concrete field properties testing as needed.

Ridgegate Parkway

Mr. White performed Quality Control construction materials testing of Earthwork, Concrete, and Asphalt.



MICHAEL VIGIL

CONSTRUCTION INSPECTOR I/CWI

Mr. Vigil has been with Kleinfelder since August 2017. He is currently a Certified Welding Inspector (CWI) working on projects in the Greater Colorado region. Mr. Vigil has been working as a welding inspector for over 5 years, and in the welding trade for 11 total years. During those years he has performed welding observations, inspections, and became a Certified Welding Inspector. He has also obtained ICC Certification for Structural Steel and Bolting and Structural Welding and obtained his certification for concrete testing.

PROFESSIONAL EXPERIENCE

Education

AS, Welding Technology, Pueblo Community College

Certifications

AWS Certified Welding Inspector, No. 11112071

ACI Field Technician, Grade 1

ICC Structural Steel and Bolting Inspector

ICC Structural Welding Special Inspector

Total Years of Experience

12 years

Ilex Design Build, Pueblo, CO

As structures technician, Mr. Vigil performed weld and bolting inspections on the historic US-50 Bridge over the Arkansas River and on other structures as needed. He also performed concrete testing for physical properties on the project.

Pueblo Convention Center, Pueblo, CO

As field technician, Mr. Vigil performed concrete testing on this addition to the Convention Center. He also observed the installation of the piling and performed weld inspections on this vertical construction project.

HRV Conformance Verification Associates, Inc., Pueblo, CO

As senior inspector, Mr. Vigil sampled ASTM A615/A615M reinforcing steel to be submitted for tensile and bending test and witnessed such test in the EVRAZ Pueblo facility. He also verified calibration of testing equipment while on site.

Vestas America, Pueblo, CO

As production engineer/engineering technician, Mr. Vigil supervised the welding certification of new hire personnel and external contractors, monitored quality control/assurance practices for the facility. He supervised the production of more than 100 machine operators and significantly increased production through time motion studies.

Ingersoll Rand/Trane, Pueblo, CO

Mr. Vigil assembled machinery utilizing welding skills.

Michels Tunneling, Denver, CO

As welding inspector for the project, Mr. Vigil inspected welds for approximately 1,600 linear feet of 72" diameter steel pipe placed for Denver Water.

Custer County School Entry Way, Westcliffe, CO

As field technician, Mr. Vigil performed concrete testing, reinforcing steel inspection, and weld inspection for the new entry way.

2C Improvements, Colorado Springs, CO

Mr. Vigil served as one of the Material Testing Technicians for this \$50 million, multi-year project. He performed concrete field properties testing for sidewalks, curb and gutter, cross pans, and pedestrian ramps around the city.



CYRIL SHICKORA, EIT

FIELD ENGINEER

Mr. Shickora has more than four years of experience as an Assistant Project Manager in various geotechnical engineering, project management, and construction phase services. Technical areas of emphasis include retaining wall design, dam spillway design, soil and rock mechanics, ground modification programs, and sinkhole remediation design. In the field, Mr. Shickora has expertise in Subsurface Explorations including: test borings in soil and rock, test pits, concrete flatness testing, low-mobility grouting operations, micro-pile design, percolation testing, sinkhole remediation, concrete and masonry testing, density testing of fill, construction materials quality assurance/quality control observations, and soils and foundation inspection. Mr. Shickora also has expertise in geotechnical engineering analysis, rock core analysis, soil permeability analysis, sinkhole evaluation and remediation, structural fill recommendations and specifications, bearing capacity determination, detailed settlement and consolidation analysis, pavement design recommendations, slope stability analysis, and retaining wall design.

Education

BS, Environmental Engineering,
Wilkes University, 2016

Certifications

Engineer-in-Training (EIT)

Concrete Field-Testing Technician

Nuclear Moisture Density Gauges

ACI Concrete Inspector, No.
01535503

Building Inspector

Western Alliance for Quality
Transportation Construction
WAQTC

Total Years of Experience

4 years

PROJECT EXPERIENCE

Distribution Facility, Macungie, PA

As Geotechnical Specialist, Mr. Shickora provided test borings in soil and rock for three new distribution centers to be constructed in Macungie, Pennsylvania. At the conclusion of the field investigation, foundation recommendations were provided in a geotechnical report. During the construction phase of this project, Mr. Shickora completed low-mobility grouting oversight and provided recommendations concerning earthwork activities, along with adding more grouting points determined by on-site analysis of previously proposed points.

Northampton Community College, Tannersville, PA

As Geotechnical Specialist, Mr. Shickora provided construction observation and materials testing for a new college campus in Tannersville, Pennsylvania. The scope of work included Quality Assurance/Quality Control testing and inspection of fill placement,

foundation subgrade review, concrete testing, pavement testing, and underground utility observation.

Guardian Insurance Office Building, Allentown, PA

As Geotechnical Specialist, Mr. Shickora provided geotechnical engineering services for multiple sinkholes due to pinnacled carbonate bedrock in Allentown, Pennsylvania. A unique solution had to be provided for each individual subsidence. Other services provided included Quality Assurance/Quality Control testing and inspection of fill placement, foundation subgrade review, concrete testing, pavement testing, and underground utility observation.

Millennium Pipeline, Orange County, NY

As Geotechnical Specialist, Mr. Shickora provided oversight for two retaining walls for a natural gas pipeline and three compressor stations to be constructed in Orange County, New York. Specialty construction and fill had to be used due to the limits of disturbance and a protected species of rattlesnake. Geotechnical

recommendations were made to ensure the stability of subgrade and fill behind the wall.

Distribution Facility, Northampton, PA

As Geotechnical Specialist, Mr. Shickora provided oversight for a retaining wall of a distribution center in Northampton, Pennsylvania. Mr. Shickora coordinated with the design engineer to find a suitable material to use as an engineered fill for the retaining wall, due to a lack of sufficient fill that met project specifications.

Jacquet Manufacturing Facility, Limerick, PA

As Geotechnical Specialist, Mr. Shickora provided oversight for multiple underground infiltration and retention basins. Services were to ensure proper material, detentions and construction were followed. Other services provided included Quality Assurance/Quality Control testing and inspection of fill placement, foundation subgrade review, concrete testing, pavement testing, and underground utility observation.

Distribution Facility, Bath, PA

As Assistant Project Manager, Mr. Shickora provided construction phase services for a distribution center in Bath, Pennsylvania. The scope of work included Quality Assurance/Quality Control testing and inspection of fill placement, foundation subgrade review, concrete testing, pavement testing, sinkhole remediation, underground utility observation, building pad subgrade remediation, and project coordination and management.

Hanover Medical Building, Allentown, PA

As Assistant Project Manager, Mr. Shickora provided construction phase services for a medical office building in Allentown, Pennsylvania. The scope of work included preconstruction coordination with the Lehigh Valley Conservation District for the proposed underground retention basin. Fill recommendations were made as this was a previously filled site. Other services included Quality Assurance/Quality Control testing and inspection of fill placement, foundation subgrade review, concrete testing, pavement testing, underground utility observation, and project coordination and management.

Lehigh Valley Industrial Park, Bethlehem, PA

As Assistant Project Manager, Mr. Shickora provided construction phase services for the construction of two distribution centers in Bethlehem, Pennsylvania. The project also included the design and construction of a soil nail wall. The wall construction had to be top down construction due the limits of the disturbance permit. Additional services included the inspection of fill placement, foundation subgrade review, concrete testing, pavement testing, underground utility observation, building pad subgrade remediation, and project coordination and management.



JOHNNY STONE

SENIOR CONSTRUCTION TECHNICIAN

Mr. Stone is a Certified Quality Control/Assurance professional with nearly 5 years of engineering inspection and laboratory experience and successful achievement in the construction quality assurance industry encompassing soils and materials testing, structural and quality control. His other relevant experience includes:

PROJECT EXPERIENCE

Glensford Drive Widening: Fayetteville, NC

Mr. Stone worked on this widening project as a Construction Engineering Inspector (CEI) in order to oversee pipe placement, sidewalk placement, sewer line replacement, installation of new storm drains, erosion control, and traffic control to ensure compliance with project plans and North Carolina Department of Transportation (NCDOT) specifications.

Outer Loop Project, I-495: Fayetteville, NC

Mr. Stone performed supervision of various construction operations as Construction Engineering Inspector (CEI) on the building of the outer loop interchange/bypass to include fill from borrow pits, grade tolerance checks, erosion control, drop inlet/pipe culvert installations, placement of geotextiles, ABC placement, testing and compaction according to contract plans and North Carolina Department of Transportation (NCDOT) Specifications.

Resurfacing 2016 Division 5: Raleigh, NC

Mr. Stone provided oversight as Construction Engineering Inspector (CEI) of various (approximately 22 maps) overlay/mill and fill resurfacing maps across Division 5. Work included, oversight of traffic control at night, ensuring proper thickness, temperature, widths, and compaction of asphalt placed. Work on several maps included raising/leveling of manholes and other utility access points.

I-40 Rebuild (Fortify) Division 5: Raleigh, NC

Mr. Stone provided oversight of a wide variety of operations to assist in the safe and effective completion of the major highway rebuild. The 11-mile stretch of Highway was named "The Beltline" for Raleigh, NC, with approximately 120,000 vehicles per a 24-hour period. Operations overseen by Mr. Stone include the following: concrete deconstruction via 15,000LB hammer, excavators, and concrete crusher (for reuse as stone base). Cut/removal and haul of material to on-site waste pit and insuring minimal track-out for erosion control purposes. Ensuring proper traffic control compliance. Placement and assistance in testing concrete stone base (classified as class IV base material). Placement/removal of concrete barrier wall. Milling operations to remove existing asphalt for replacement. Placement of latex concrete overlay on existing bridges.

Education

Nuclear Field "A" School with Distinction, 2010

Certifications

ACI Level 1 Concrete Field Testing,

OSHA-10

American Concrete

Level 2 Erosion Control

ABC, Borrow Pit, Conventional Density w/ Field Certification

NCDOT/ACI Concrete Technician

QMS Roadway

Nuclear Safety and Gauge Training

Subgrade Stabilization Certification

Work Zone Safety/Traffic Control

Western Alliance for Quality Transportation Construction (WAQTC)

Total Years of Experience

5 years

Placement of concrete footings and slope protections. Assisted in erosion control checks/repairs. Mr. Stone held a major part in the placement of new asphalt across the entire project and was responsible for supervising placement of over 300,000 tons of asphalt. In addition, Mr. Stone was responsible for the training of four

technicians on asphalt placement from subgrade to surface course. Mr. Stone participated in over seventeen ICT's which included the demolition and complete rebuild of accel/decel ramps throughout the project. These operations were time sensitive and usually included a completion time of under 96 hours. More operations included participation in traffic switches, and proper striping of newly placed asphalt in preparation for morning traffic surges.

Qualification Certificate

This is to certify that



Zane Stinchcomb

163437

WAQTC Certification Number



*Has demonstrated knowledge and performance skills by successfully
Completing the UDOT qualification requirements for*

Concrete CTT

AASHTO T 119, T 121, T 152, T 23, T 309, WAQTC TM 2

This certificate is for information only. For actual UDOT TTQP qualification status please see the appropriate UDOT web page.
www.udot.utah.gov/go/materials

This certification requires two acceptable IA's be completed each year.

Expiration Date: 08-DEC-2023

Glen A. Clark

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The ICC Certification Search contains information on individuals who may be currently certified with the International Code Council, but is not the official record. Certificates should be verified through viewing the original certificate issued by ICC to the individual or by using the search function below. To maintain the currency of ICC certificates, individuals must renew these every two to three years through retesting or professional development activities. Full details on certificate renewal requirements are found in the [Certification Renewal web pages](#).

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First Name:

zane

Last Name:

stinchcomb

City:

State:

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INTERNATIONAL CODE COUNCIL

ZANE STINCHCOMB

The International Code Council attests that the individual named on this certificate has satisfactorily demonstrated knowledge as required by the International Code Council by successfully completing the prescribed written examination based on codes and standards then in effect, and is hereby issued this certification as:

Reinforced Concrete Special Inspector Associate

Given this day August 4, 2020

A handwritten signature in black ink, appearing to read "Greg Wheeler".

Greg Wheeler, CBO
President, Board of Directors

Certificate No. 9236282

A handwritten signature in black ink, appearing to read "Dominic Sims".

Dominic Sims, CBO
Chief Executive Officer



This certificate is the property of ICC and must be returned to ICC in the event of suspension or revocation of the certificate.

29088178

Certificate of Completion

This is to certify that

Zane Stinchcomb

has completed a course of study in

101 - Portable Nuclear Density/Moisture Gauge Use and Safety Training

dated

07/12/2019

offered by



American Technical Institute, LLC

The course subject matter covers radiation basics, gauge safety, NRC regulations, gauge usage and US DOT 49 CFR 172. Course meets the NRC requirements and is accepted by the Radiological Department of NV

Signature of Licensee's RSO
(Verification of closed book test & hands on training)

American Technical Institute
10161 Park Run Drive, Suite 150
Las Vegas, Nevada 89145
www.ati.coursehost.com



Capability Statement

INTRODUCTION

The company was founded in 2006 providing CWI services and quickly grew to provide much needed quality inspection services to the construction industry. Due to a great reputation and work ethic, ISI now provides many more services. We are an Independent Testing Agency that performs Non-Destructive Testing and Welding Inspection Services. Our Management staff has over 80 Years of experience in Welding and Inspection Services.

RELEVANT PROJECT EXPERIENCE

- ❖ Name of Project: Hwy 50 Blue Mesa Reservoir Bridges
 - ✓ Name of Client: Benesch
 - ✓ Project Description: Inspection Specialties perform visual and ultrasonic sheer wave inspections on Hwy 50 Blue Mesa Reservoir Bridges in compliance to DOT Specifications.
 - ✓ Project Reference:
 - ✓ Benesch • Walter Mystkowski • 720-984-6473
- ❖ Name of Project: Wilson Ranch 24" Pipeline
 - ✓ Name of Client: Western Midstream (Anadarko)
 - ✓ Project Description: Inspection Specialties personnel performed radiography on 24" mainline welds, as well as various sizes of fabrication welds. Inspection Specialties also performed magnetic particle examinations on o-let fillet welds. Safety meeting were attended and performed with all other contractors. In addition to the contractor's morning safety meeting Inspection Specialties identified the hazards and control measures.
 - ✓ Project Reference: Western Midstream • Jake Smith • (970) 290- 6414
- ❖ Name of Project: Denver South West Hangar 12" Water Line
 - ✓ Name of client: Kumar & Associates
 - ✓ Job Description: Inspection Specialties personnel arrived at the jobsite on on-call basis, to perform Liquid Magnetic Particle examination. This examination was done on a 12" water line lap joint fillet weld. The examination was in compliance to AWS D 1.1.
 - ✓ Project Reference: Kumar & Associate • Scott Hogard • (303) 742-9700

COMPANY SNAPSHOT

Inspection Specialties Inc.

Owner

- ✓ **Michael Rinow**
- ✓ **mrinow@isidenver.net**
- ✓ **(303) 356-0099**

Office

- ✓ **12445 E. 39th Ave., Suite 303 Denver, Colorado 80239**
- ✓ **(303) 373-5234**

NAICS# 541380

METHODS AND SERVICES

NDE/NDT Inspection Methods and Services

- ❖ Radiographic Testing
- ❖ Liquid Penetrant Inspection
- ❖ Magnetic Particle Testing
- ❖ Visual Testing
- ❖ Ultrasonic Testing
 - ✓ Ultrasonic Thickness Testing
 - ✓ Shear wave Ultrasonic Testing
 - ✓ Phased Array Ultrasonic Inspection

DIFFERENTIATIONS

- ❖ Over 100 years combined experience of welding technology and inspection services
- ❖ Accommodation for all your needs
- ❖ Service- Strives to provide the highest level of client services
- ❖ Quality- assured that the best quality is provided and guaranteed for our customers
- ❖ Value- values our customers in terms and expectations
- ❖ Respect- treat every single member of Inspections Specialties with respect as well as customers.
- ❖ Professionalism- Maintain professionalism in all terms of services

Michael Rinow
Owner

(303) 356-0099
Phone Number

mrinow@isidenver.net
Email



TIM RYAN

PROJECT MANAGER

Mr. Ryan has 20 years of quality assurance experience managing large-scale infrastructure projects throughout the U.S. He holds numerous industry-related certifications and is skilled in understanding and interpreting plans and specifications as they relate to Quality Assurance/Quality Control (QA/QC) functions. Mr. Ryan excels at interfacing with owner representatives; managing and training technicians to perform tests in accordance with AASHTO, ASTM, and state standards, performing, verifying, and reviewing tests and surveys for concrete, asphalt, and lime-treated soils; reviewing requests for Information (RFIs) and submittals; managing subcontractor's Quality Control programs; and establishing and monitoring quality laboratory and testing programs.

Certifications

WAQTC Embankment & Base
ACI Field Testing Technician,
Level
ACI Concrete Laboratory Testing
Technician, Level I
ACI Concrete Strength Testing
Technician, Level I
ACI Aggregate Testing
Technician, Level I
ACI Concrete Special Inspector
NICET Level I for Concrete and
Soils
NICET Level II for Asphalt
Materials
CAPA A, B, C, E, I CDOT Asphalt
Technician/Inspector
USACE Construction Quality for
Contractors (Expired)
Nuclear Gauge/Troxler
ACI Concrete Construction
Special Inspector (CCSI)

Total Years of Experience

20 years

PROFESSIONAL EXPERIENCE

Central 70 Reconstruction Project Denver, Colorado

The \$1.2 billion Central 70 project located between I-25 and Chambers Road, in Denver Colorado is home to 1,200 businesses, providing the regional connection to Denver International Airport (DIA) and carrying upwards of 200,000 vehicles per day. The Public Private Partnership (P3) Project will reconstruct a 10-mile stretch of Interstate 70 between Brighton Boulevard and Chambers Road, add one new Express Lane in each direction, remove the aging 56-year-old viaduct, lower the interstate between Brighton and Colorado boulevards, and place a 4-acre park over a portion of the lowered interstate. Kleinfelder is working for Kiewit as a part of the project's Quality Assurance (QA) team overseeing project construction. Mr. Ryan is Kleinfelder's project manager and manages a staff of 5 QA inspectors and technicians.

Regional Transportation District (RTD) – Eagle P3 Project Denver, Colorado

The \$2.1 billion EAGLE (East and Gold Line Enterprise) Project was the largest Public Private Partnership (P3) project in the United States and accounts for the largest segment of commuter rail transit within the Regional Transportation District's (RTD) FasTracks Program in Colorado. The EAGLE project spanned over 40 miles of commuter rail transit through the Denver metropolitan area, connecting several suburbs to the Denver International Airport. Kleinfelder acted as the quality assurance team for the project design/build/operate contractor, Denver Transit Partners, Inc. (DTP). Mr. Ryan oversaw the quality program for

all grading, concrete, framework, and asphalt elements associated with the project and a staff of inspectors, and technicians. In addition, he managed the scheduling of testing and inspection services, documentation review and approval, conformance of project plans and right-of-way CDOT specifications as well as 11 other jurisdictional specifications.

Denver Water, Gross Dam Expansion -Initial RCC Mix Designs, Boulder County, Colorado

The Gross Reservoir Expansion is a key component of Denver Water's plan for future sustainability and reliability in Front Range water supply. The Gross Reservoir Expansion is a large, complex project requiring the better part of a decade to complete. Upon completion, the expansion will provide an additional 77,000 ac-ft of water storage. With a raise of 131 feet at a total height of 471 feet, Mr. Ryan oversaw the team and participated in the initial roller-compacted concrete (RCC) mix design work performed in our Golden, Colorado materials testing laboratory.



DAVE BRUBAKER

QUALITY ASSURANCE INSPECTOR

Mr. Brubaker has over 20 years of professional experience providing field and laboratory construction observation and materials testing services for large civil infrastructure projects. His field inspection and materials testing experience includes performing grading and embankment construction, subgrade preparation, utility installation, trench backfill observations, in-place density testing, drilled caisson observation, driven pile installation, concrete sampling and testing, structural concrete placement, asphalt sampling and reinforcing steel inspection, masonry construction observation, and post tension cable placement and stressing. His laboratory testing experience includes performing tests for concrete, soils, and asphalt materials, including moisture content, proctor density, atterberg limits, gradation analysis, compressive strength, asphalt mix rice value, AC content, bulk specific gravity, and voids.

Education

BS, Engineering, University of Missouri-Rolla, 1997

Certifications

CDOT Erosion Control
Supervisor

CDOT Traffic Control Supervisor
WAQTC Embankment and
Base/Density Testing Technician
(EBTT/DTT)

OSHA 10-Hour Construction
Safety Training

CDOT Plan Reading, Math, and
Surveying

CDOT Site Manager LIMS

CDOT Asphalt Inspector

CDOT Concrete Inspector

ACI Field Testing Technician,
Level

ACI Concrete Construction

Special Inspector (CCSI)

ACI Concrete Strength Testing
Technician, Level I

Troxler Radiation Safety Officer
Certification

CAPA A, B, C, E, I CDOT Asphalt
Technician/Inspector

First Aid and CPR

Total Years of Experience

23 years

PROFESSIONAL EXPERIENCE

Regional Transportation District (RTD) – Eagle P3 Project Denver, Colorado

The \$2.1 billion EAGLE (East and Gold Line Enterprise) Project was the largest Public Private Partnership (P3) project in the United States and accounts for the largest segment of commuter rail transit within the Regional Transportation District's (RTD) FasTracks Program in Colorado. The EAGLE project spanned over 40 miles of commuter rail transit through the Denver metropolitan area, connecting several suburbs to the Denver International Airport. Kleinfelder acted as the quality assurance team for the project design/build/operate contractor, Denver Transit Partners, Inc. (DTP). Mr. Brubaker was responsible for performing construction observations and materials testing for project elements including grading and embankment construction, utility installation, trench backfill, reinforcing steel, structural concrete, and asphalt paving. He performed weekly erosion control/stormwater inspections within the City and County of Denver and provided detailed reports of noncompliance items.

I-70 Over Havana Bridge Replacement D-B, CDOT, Denver, Colorado

The \$25 million reconstruction of the existing I-70 bridge over Havana Street, and construction of a new bridge over a UPRR spur line project included interchange ramp improvements, lighting upgrades, new asphalt paving of approximately 2 miles, retaining walls, concrete shoulder improvements and construction of a railroad tunnel structure under I-70. Mr. Brubaker managed and maintained the CDOT materials books and the project LIMS database.

I-25 North Academy Blvd. to Baptist Rd., Colorado Springs, Colorado

The project consisted of the widening of a section I-25 mainline from Academy Blvd. to Interquest Parkway north of Colorado Springs, CO. As Quality Assurance Materials Testing Technician, Mr. Brubaker performed field and lab testing of soils, concrete, and asphalt materials; filled out daily reports; reported results and observations on CDOT forms; and delivered the information to the Client.



Jessy Zarzan

QUALITY ASSURANCE INSPECTOR

Mr. Zarzan has over 20 years of professional experience providing field and laboratory construction observation and materials testing services for large civil infrastructure projects. His field inspection and materials testing experience includes performing grading and embankment construction, subgrade preparation, utility installation, trench backfill observations, in-place density testing, drilled caisson observation, driven pile installation, concrete sampling and testing, structural concrete placement, asphalt sampling and reinforcing steel inspection, masonry construction observation, and post tension cable placement and stressing. His laboratory testing experience includes performing tests for concrete, soils, and asphalt materials, including moisture content, proctor density, atterberg limits, gradation analysis, compressive strength, asphalt mix rice value, AC content, bulk specific gravity, and voids.

Certifications

CDOT Traffic Control
Supervisor
OSHA 10-Hour Construction
Safety
WAQTC Embankment & Base
CDOT Plan Reading, Math,
and Survey
ACI Field Testing Technician,
Level
CAPA A, B, C, E, I CDOT
Asphalt Technician/Inspector
Nuclear Gauge/Troxler

Total Years of Experience

20 Years

PROFESSIONAL EXPERIENCE

Central 70 Reconstruction Project Denver, Colorado

The \$1.2 billion Central 70 project located between I-25 and Chambers Road, in Denver Colorado is home to 1,200 businesses, providing the regional connection to Denver International Airport (DIA) and carrying upwards of 200,000 vehicles per day. The Public Private Partnership (P3) Project will reconstruct a 10-mile stretch of Interstate 70 between Brighton Boulevard and Chambers Road, add one new Express Lane in each direction, remove the aging 56-year-old viaduct, lower the interstate between Brighton and Colorado boulevards, and place a 4-acre park over a portion of the lowered interstate. Kleinfelder is working for Kiewit as a part of the project's Quality Assurance (QA) team overseeing project construction. Mr. Zarzan performed materials testing and observation for all project elements including excavation, grading, and backfill testing and observation; concrete testing; reinforced and concrete inspection.

Regional Transportation District (RTD) – Eagle P3 Project Denver, Colorado

The \$2.1 billion EAGLE (East and Gold Line Enterprise) Project was the largest Public Private Partnership (P3) project in the United States and accounts for the largest segment of commuter rail transit within the Regional Transportation District's (RTD) FasTracks Program in Colorado. The EAGLE project spanned over 40 miles of commuter rail transit through the Denver metropolitan area, connecting several suburbs to the Denver International Airport. Kleinfelder acted as the Quality Assurance team for the project design/build/operate contractor, Denver Transit Partners, Inc. (DTP). Mr. Zarzan was responsible for performing construction observations and materials testing for project elements including grading and embankment construction, utility installation, trench backfill, reinforcing steel, structural concrete, and asphalt paving. He performed weekly erosion control/stormwater inspections within the City and County of Denver and provided detailed reports of noncompliance items.

Aurora Staff Augmentation, City of Aurora, Aurora, Colorado

Kleinfelder is contracted with the City of Aurora to augment their materials field and laboratory testing staff. Mr. Zarzan assists with review and approval of outside materials testing for road, sidewalk, and wet and dry utilities. He verified compliance with City testing specifications and inspects Micropile installations and ground and pavement conditions to determine cause of failure and materials testing for embankment, roadway, wet and dry utilities, sidewalks, residential, and laboratory services.



Certifications

CDOT Traffic Control
Supervisor
OSHA 10-Hour Construction
Safety
WAQTC Embankment & Base
Storm water Erosion Control
(TECS)
CDOT Plan Reading, Math,
and Survey
ACI Field Testing Technician,
Level
CAPA A, B, C, E, I CDOT
Asphalt Technician/Inspector
NICET Level II
Nuclear Gauge/Troxler
ICC Masonry Special Inspector

Total Years of Experience

18 Years

Grant Mathers

QUALITY ASSURANCE INSPECTOR

Mr. Mathers has over 18 years of professional experience providing field and laboratory construction observation and materials testing services for large civil infrastructure projects. His field inspection and materials testing experience includes performing grading and embankment construction, subgrade preparation, utility installation, trench backfill observation, in-place density testing, drilled caisson observation, driven pile installation concrete sampling and testing, structural concrete placement, asphalt sampling and in-place density testing, reinforcing steel inspection, masonry construction observation, and post tension cable placement and stressing. His laboratory testing experience includes performing tests for concrete, soils, and asphalt materials, including moisture content, proctor density, Atterberg limits, gradation analysis, compressive strength, asphalt mix rice value, AC Content, bulk specific gravity, and voids.

PROFESSIONAL EXPERIENCE

Central 70 Reconstruction Project Denver, Colorado

The \$1.2 billion Central 70 project located between I-25 and Chambers Road, in Denver Colorado is home to 1,200 businesses, providing the regional connection to Denver International Airport (DIA) and carrying upwards of 200,000 vehicles per day. The Public Private Partnership (P3) Project will reconstruct a 10-mile stretch of Interstate 70 between Brighton Boulevard and Chambers Road, add one new Express Lane in each direction, remove the aging 56-year-old viaduct, lower the interstate between Brighton and Colorado boulevards, and place a 4-acre park over a portion of the lowered interstate. Kleinfelder is working for Kiewit as a part of the project's Quality Assurance (QA) team overseeing project construction. Mr. Mathers performed special inspection services for this project as well as performed field and laboratory testing on concrete and embankment materials.

I-70 Over Havana Bridge Replacement D-B, CDOT, Denver, Colorado

The \$25 million reconstruction of the existing I-70 bridge over Havana Street, and construction of a new bridge over a UPRR spur line project included interchange ramp improvements, lighting upgrades, new asphalt paving of approximately 2 miles, retaining walls, concrete shoulder improvements and construction of a railroad tunnel structure under I-70. Mr. Mathers was responsible for performing materials testing and construction observations of all project work including roadway pavements, earthwork, drainage, signage, striping, structural concrete and bridge elements, environmental and erosion control, and MOT.

Regional Transportation District (RTD) – Eagle P3 Project, Denver, Colorado

The \$2.1 billion EAGLE (East and Gold Line Enterprise) Project was the largest Public Private Partnership (P3) project in the United States and accounts for the largest segment of commuter rail transit within the Regional Transportation District's (RTD) FasTracks Program in Colorado. Kleinfelder acted as the quality assurance team for the project design/build/operate contractor, Denver Transit Partners, Inc. (DTP). Mr. Mathers provided inspections and materials testing to adhere to the project specifications. He also provided the inspections for each railway section and pedestrian tunnels. Additionally, Mr. Mathers performed the safety inspection of each traffic control safety system installed on the project.



DUSTIN WHITE

CONSTRUCTION INSPECTOR

Mr. White has assisted in managing various geotechnical engineering, and construction materials testing projects. Technical areas of emphasis include process control and field team management. In the field, Mr. White has expertise in, concrete flatness testing, concrete testing, density testing of fill, construction materials quality assurance/quality control observations, and soils and foundation inspection.

PROJECT EXPERIENCE

CDOT Central 70 - Process Control Lead and Dispatcher

For a year and a half, Mr. White directed process control and organized and coordinated field operations team for all process control disciplines and crews for this \$1.2 Billion project. His role included coordinating with the contractor, Independent Quality Control (IQC) representatives, Independent Assurance Testing (IAT) representatives, Owner Verification Testing (OVT) representatives, and discipline managers to facilitate process operational needs. Material testing and inspection included but not limited to: Bridges, MSE Walls, Roadway, Grading, Utilities, Drainage, and Secant Walls. Provided construction material testing for concrete, paving, and earthwork/embankment, both in the field and in lab.

76 Commerce Center, Denver, CO

Quality Assurance Lead for Building 5 construction

Mr. White managed scheduling and coordination with client for Quality Assurance/Quality Control testing and inspection of earthwork, concrete, and pavement on Building 5 as part of this 1.8 Million SF Class A Industrial Development. Mr. White also provided settlement plate monitoring and flatwork for future construction of Buildings 1 and 2.

Education

Registration/Certification

ACI Field Testing Technician Grade 1

WAQTC

NTS

RailSafe

Nuclear Gauge operation, Safety, and
HaZMat

Years of Experience

4 years

CDOT I-76 Frontage Road Lane expansion, Lochbuie, Colorado

Mr. White managed scheduling and client coordination as well as provided testing and inspection on earthwork and asphalt.

State Highway 7 Expansion near Estes Park, CO

Mr. White performed Quality Control construction materials testing of Earthwork, Concrete, and Asphalt.

State Highway 67 bridge repair, Sedalia, CO

Mr. White performed Quality Control construction materials testing of Earthwork, Concrete, and Asphalt.

US 36 Emergency Repair

Mr. White was the Quality Control Lead and performed testing of concrete for the retaining wall emergency repair along eastbound US 36.

S Curve Alignment on US 6, CO 14 & CO 138, Sterling, CO

Mr. White was the Quality Control Lead for this \$16.6 million project that will construct an "S-Curve" to connect CO 14 and US 6 over abandoned railroad rights-of-way and streamline truck traffic through Sterling. One of Mr. White's first duties was to set up a mobile lab for the QC testing in coordination with the Colorado Department of Transportation (CDOT). He also provided concrete field properties testing as needed.

Ridgegate Parkway

Mr. White performed Quality Control construction materials testing of Earthwork, Concrete, and Asphalt.



MICHAEL VIGIL

CONSTRUCTION INSPECTOR I/CWI

Mr. Vigil has been with Kleinfelder since August 2017. He is currently a Certified Welding Inspector (CWI) working on projects in the Greater Colorado region. Mr. Vigil has been working as a welding inspector for over 5 years, and in the welding trade for 11 total years. During those years he has performed welding observations, inspections, and became a Certified Welding Inspector. He has also obtained ICC Certification for Structural Steel and Bolting and Structural Welding and obtained his certification for concrete testing.

PROFESSIONAL EXPERIENCE

Education

AS, Welding Technology, Pueblo Community College

Certifications

AWS Certified Welding Inspector, No. 11112071

ACI Field Technician, Grade 1

ICC Structural Steel and Bolting Inspector

ICC Structural Welding Special Inspector

Total Years of Experience

12 years

Ilex Design Build, Pueblo, CO

As structures technician, Mr. Vigil performed weld and bolting inspections on the historic US-50 Bridge over the Arkansas River and on other structures as needed. He also performed concrete testing for physical properties on the project.

Pueblo Convention Center, Pueblo, CO

As field technician, Mr. Vigil performed concrete testing on this addition to the Convention Center. He also observed the installation of the piling and performed weld inspections on this vertical construction project.

HRV Conformance Verification Associates, Inc., Pueblo, CO

As senior inspector, Mr. Vigil sampled ASTM A615/A615M reinforcing steel to be submitted for tensile and bending test and witnessed such test in the EVRAZ Pueblo facility. He also verified calibration of testing equipment while on site.

Vestas America, Pueblo, CO

As production engineer/engineering technician, Mr. Vigil supervised the welding certification of new hire personnel and external contractors, monitored quality control/assurance practices for the facility. He supervised the production of more than 100 machine operators and significantly increased production through time motion studies.

Ingersoll Rand/Trane, Pueblo, CO

Mr. Vigil assembled machinery utilizing welding skills.

Michels Tunneling, Denver, CO

As welding inspector for the project, Mr. Vigil inspected welds for approximately 1,600 linear feet of 72" diameter steel pipe placed for Denver Water.

Custer County School Entry Way, Westcliffe, CO

As field technician, Mr. Vigil performed concrete testing, reinforcing steel inspection, and weld inspection for the new entry way.

2C Improvements, Colorado Springs, CO

Mr. Vigil served as one of the Material Testing Technicians for this \$50 million, multi-year project. He performed concrete field properties testing for sidewalks, curb and gutter, cross pans, and pedestrian ramps around the city.



CYRIL SHICKORA, EIT

FIELD ENGINEER

Mr. Shickora has more than four years of experience as an Assistant Project Manager in various geotechnical engineering, project management, and construction phase services. Technical areas of emphasis include retaining wall design, dam spillway design, soil and rock mechanics, ground modification programs, and sinkhole remediation design. In the field, Mr. Shickora has expertise in Subsurface Explorations including: test borings in soil and rock, test pits, concrete flatness testing, low-mobility grouting operations, micro-pile design, percolation testing, sinkhole remediation, concrete and masonry testing, density testing of fill, construction materials quality assurance/quality control observations, and soils and foundation inspection. Mr. Shickora also has expertise in geotechnical engineering analysis, rock core analysis, soil permeability analysis, sinkhole evaluation and remediation, structural fill recommendations and specifications, bearing capacity determination, detailed settlement and consolidation analysis, pavement design recommendations, slope stability analysis, and retaining wall design.

Education

BS, Environmental Engineering,
Wilkes University, 2016

Certifications

Engineer-in-Training (EIT)

Concrete Field-Testing Technician

Nuclear Moisture Density Gauges

ACI Concrete Inspector, No.
01535503

Building Inspector

Western Alliance for Quality
Transportation Construction
WAQTC

Total Years of Experience

4 years

PROJECT EXPERIENCE

Distribution Facility, Macungie, PA

As Geotechnical Specialist, Mr. Shickora provided test borings in soil and rock for three new distribution centers to be constructed in Macungie, Pennsylvania. At the conclusion of the field investigation, foundation recommendations were provided in a geotechnical report. During the construction phase of this project, Mr. Shickora completed low-mobility grouting oversight and provided recommendations concerning earthwork activities, along with adding more grouting points determined by on-site analysis of previously proposed points.

Northampton Community College, Tannersville, PA

As Geotechnical Specialist, Mr. Shickora provided construction observation and materials testing for a new college campus in Tannersville, Pennsylvania. The scope of work included Quality Assurance/Quality Control testing and inspection of fill placement,

foundation subgrade review, concrete testing, pavement testing, and underground utility observation.

Guardian Insurance Office Building, Allentown, PA

As Geotechnical Specialist, Mr. Shickora provided geotechnical engineering services for multiple sinkholes due to pinnacled carbonate bedrock in Allentown, Pennsylvania. A unique solution had to be provided for each individual subsidence. Other services provided included Quality Assurance/Quality Control testing and inspection of fill placement, foundation subgrade review, concrete testing, pavement testing, and underground utility observation.

Millennium Pipeline, Orange County, NY

As Geotechnical Specialist, Mr. Shickora provided oversight for two retaining walls for a natural gas pipeline and three compressor stations to be constructed in Orange County, New York. Specialty construction and fill had to be used due to the limits of disturbance and a protected species of rattlesnake. Geotechnical

recommendations were made to ensure the stability of subgrade and fill behind the wall.

Distribution Facility, Northampton, PA

As Geotechnical Specialist, Mr. Shickora provided oversight for a retaining wall of a distribution center in Northampton, Pennsylvania. Mr. Shickora coordinated with the design engineer to find a suitable material to use as an engineered fill for the retaining wall, due to a lack of sufficient fill that met project specifications.

Jacquet Manufacturing Facility, Limerick, PA

As Geotechnical Specialist, Mr. Shickora provided oversight for multiple underground infiltration and retention basins. Services were to ensure proper material, detentions and construction were followed. Other services provided included Quality Assurance/Quality Control testing and inspection of fill placement, foundation subgrade review, concrete testing, pavement testing, and underground utility observation.

Distribution Facility, Bath, PA

As Assistant Project Manager, Mr. Shickora provided construction phase services for a distribution center in Bath, Pennsylvania. The scope of work included Quality Assurance/Quality Control testing and inspection of fill placement, foundation subgrade review, concrete testing, pavement testing, sinkhole remediation, underground utility observation, building pad subgrade remediation, and project coordination and management.

Hanover Medical Building, Allentown, PA

As Assistant Project Manager, Mr. Shickora provided construction phase services for a medical office building in Allentown, Pennsylvania. The scope of work included preconstruction coordination with the Lehigh Valley Conservation District for the proposed underground retention basin. Fill recommendations were made as this was a previously filled site. Other services included Quality Assurance/Quality Control testing and inspection of fill placement, foundation subgrade review, concrete testing, pavement testing, underground utility observation, and project coordination and management.

Lehigh Valley Industrial Park, Bethlehem, PA

As Assistant Project Manager, Mr. Shickora provided construction phase services for the construction of two distribution centers in Bethlehem, Pennsylvania. The project also included the design and construction of a soil nail wall. The wall construction had to be top down construction due the limits of the disturbance permit. Additional services included the inspection of fill placement, foundation subgrade review, concrete testing, pavement testing, underground utility observation, building pad subgrade remediation, and project coordination and management.



JOHNNY STONE

SENIOR CONSTRUCTION TECHNICIAN

Mr. Stone is a Certified Quality Control/Assurance professional with nearly 5 years of engineering inspection and laboratory experience and successful achievement in the construction quality assurance industry encompassing soils and materials testing, structural and quality control. His other relevant experience includes:

PROJECT EXPERIENCE

Glensford Drive Widening: Fayetteville, NC

Mr. Stone worked on this widening project as a Construction Engineering Inspector (CEI) in order to oversee pipe placement, sidewalk placement, sewer line replacement, installation of new storm drains, erosion control, and traffic control to ensure compliance with project plans and North Carolina Department of Transportation (NCDOT) specifications.

Outer Loop Project, I-495: Fayetteville, NC

Mr. Stone performed supervision of various construction operations as Construction Engineering Inspector (CEI) on the building of the outer loop interchange/bypass to include fill from borrow pits, grade tolerance checks, erosion control, drop inlet/pipe culvert installations, placement of geotextiles, ABC placement, testing and compaction according to contract plans and North Carolina Department of Transportation (NCDOT) Specifications.

Resurfacing 2016 Division 5: Raleigh, NC

Mr. Stone provided oversight as Construction Engineering Inspector (CEI) of various (approximately 22 maps) overlay/mill and fill resurfacing maps across Division 5. Work included, oversight of traffic control at night, ensuring proper thickness, temperature, widths, and compaction of asphalt placed. Work on several maps included raising/leveling of manholes and other utility access points.

I-40 Rebuild (Fortify) Division 5: Raleigh, NC

Mr. Stone provided oversight of a wide variety of operations to assist in the safe and effective completion of the major highway rebuild. The 11-mile stretch of Highway was named "The Beltline" for Raleigh, NC, with approximately 120,000 vehicles per a 24-hour period. Operations overseen by Mr. Stone include the following: concrete deconstruction via 15,000LB hammer, excavators, and concrete crusher (for reuse as stone base). Cut/removal and haul of material to on-site waste pit and insuring minimal track-out for erosion control purposes. Ensuring proper traffic control compliance. Placement and assistance in testing concrete stone base (classified as class IV base material). Placement/removal of concrete barrier wall. Milling operations to remove existing asphalt for replacement. Placement of latex concrete overlay on existing bridges.

Education

Nuclear Field "A" School with Distinction, 2010

Certifications

ACI Level 1 Concrete Field Testing,

OSHA-10

American Concrete

Level 2 Erosion Control

ABC, Borrow Pit, Conventional Density w/ Field Certification

NCDOT/ACI Concrete Technician

QMS Roadway

Nuclear Safety and Gauge Training

Subgrade Stabilization Certification

Work Zone Safety/Traffic Control

Western Alliance for Quality Transportation Construction (WAQTC)

Total Years of Experience

5 years

Placement of concrete footings and slope protections. Assisted in erosion control checks/repairs. Mr. Stone held a major part in the placement of new asphalt across the entire project and was responsible for supervising placement of over 300,000 tons of asphalt. In addition, Mr. Stone was responsible for the training of four

technicians on asphalt placement from subgrade to surface course. Mr. Stone participated in over seventeen ICT's which included the demolition and complete rebuild of accel/decel ramps throughout the project. These operations were time sensitive and usually included a completion time of under 96 hours. More operations included participation in traffic switches, and proper striping of newly placed asphalt in preparation for morning traffic surges.

Qualification Certificate

This is to certify that



Zane Stinchcomb

163437

WAQTC Certification Number



*Has demonstrated knowledge and performance skills by successfully
Completing the UDOT qualification requirements for*

Concrete CTT

AASHTO T 119, T 121, T 152, T 23, T 309, WAQTC TM 2

This certificate is for information only. For actual UDOT TTQP qualification status please see the appropriate UDOT web page.
www.udot.utah.gov/go/materials

This certification requires two acceptable IA's be completed each year.

Expiration Date: 08-DEC-2023

Glen A. Clark

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zane

Last Name:

stinchcomb

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INTERNATIONAL CODE COUNCIL

ZANE STINCHCOMB

The International Code Council attests that the individual named on this certificate has satisfactorily demonstrated knowledge as required by the International Code Council by successfully completing the prescribed written examination based on codes and standards then in effect, and is hereby issued this certification as:

Reinforced Concrete Special Inspector Associate

Given this day August 4, 2020

A handwritten signature in black ink, appearing to read "Greg Wheeler".

Greg Wheeler, CBO
President, Board of Directors

Certificate No. 9236282

A handwritten signature in black ink, appearing to read "Dominic Sims".

Dominic Sims, CBO
Chief Executive Officer



This certificate is the property of ICC and must be returned to ICC in the event of suspension or revocation of the certificate.

29088178

Certificate of Completion

This is to certify that

Zane Stinchcomb

has completed a course of study in

101 - Portable Nuclear Density/Moisture Gauge Use and Safety Training
dated

07/12/2019

offered by



American Technical Institute, LLC

The course subject matter covers radiation basics, gauge safety, NRC regulations, gauge usage and US DOT 49 CFR 172. Course meets the NRC requirements and is accepted by the Radiological Department of NV

Signature of Licensee's RSO
(Verification of closed book test & hands on training)

American Technical Institute
10161 Park Run Drive, Suite 150
Las Vegas, Nevada 89145
www.ati.coursehost.com



Capability Statement

INTRODUCTION

The company was founded in 2006 providing CWI services and quickly grew to provide much needed quality inspection services to the construction industry. Due to a great reputation and work ethic, ISI now provides many more services. We are an Independent Testing Agency that performs Non-Destructive Testing and Welding Inspection Services. Our Management staff has over 80 Years of experience in Welding and Inspection Services.

RELEVANT PROJECT EXPERIENCE

- ❖ Name of Project: Hwy 50 Blue Mesa Reservoir Bridges
 - ✓ Name of Client: Benesch
 - ✓ Project Description: Inspection Specialties perform visual and ultrasonic sheer wave inspections on Hwy 50 Blue Mesa Reservoir Bridges in compliance to DOT Specifications.
 - ✓ Project Reference:
 - ✓ Benesch • Walter Mystkowski • 720-984-6473
- ❖ Name of Project: Wilson Ranch 24" Pipeline
 - ✓ Name of Client: Western Midstream (Anadarko)
 - ✓ Project Description: Inspection Specialties personnel performed radiography on 24" mainline welds, as well as various sizes of fabrication welds. Inspection Specialties also performed magnetic particle examinations on o-let fillet welds. Safety meeting were attended and performed with all other contractors. In addition to the contractor's morning safety meeting Inspection Specialties identified the hazards and control measures.
 - ✓ Project Reference: Western Midstream • Jake Smith • (970) 290- 6414
- ❖ Name of Project: Denver South West Hangar 12" Water Line
 - ✓ Name of client: Kumar & Associates
 - ✓ Job Description: Inspection Specialties personnel arrived at the jobsite on on-call basis, to perform Liquid Magnetic Particle examination. This examination was done on a 12" water line lap joint fillet weld. The examination was in compliance to AWS D 1.1.
 - ✓ Project Reference: Kumar & Associate • Scott Hogard • (303) 742-9700

COMPANY SNAPSHOT

Inspection Specialties Inc.

Owner

- ✓ **Michael Rinow**
- ✓ **mrinow@isidenver.net**
- ✓ **(303) 356-0099**

Office

- ✓ **12445 E. 39th Ave., Suite 303 Denver, Colorado 80239**
- ✓ **(303) 373-5234**

NAICS# 541380

METHODS AND SERVICES

NDE/NDT Inspection Methods and Services

- ❖ Radiographic Testing
- ❖ Liquid Penetrant Inspection
- ❖ Magnetic Particle Testing
- ❖ Visual Testing
- ❖ Ultrasonic Testing
 - ✓ Ultrasonic Thickness Testing
 - ✓ Shear wave Ultrasonic Testing
 - ✓ Phased Array Ultrasonic Inspection

DIFFERENTIATIONS

- ❖ Over 100 years combined experience of welding technology and inspection services
- ❖ Accommodation for all your needs
- ❖ Service- Strives to provide the highest level of client services
- ❖ Quality- assured that the best quality is provided and guaranteed for our customers
- ❖ Value- values our customers in terms and expectations
- ❖ Respect- treat every single member of Inspections Specialties with respect as well as customers.
- ❖ Professionalism- Maintain professionalism in all terms of services

Michael Rinow
Owner

(303) 356-0099
Phone Number

mrinow@isidenver.net
Email