

November 1, 2022

Eduardo Olivarez, Chief Administrative Officer
Attn: Josefina Garces
County of Hidalgo Texas Health Department
1304 S 25th Avenue
Edinburg, Texas 78539

**RE: Professional Engineering Services for Construction Materials Testing
(C-20-184-01-12) Work Authorization No. 2 ~ Construction Materials Testing
Hidalgo County Health Dept. Testing/Bio-Safety Laboratory
PO #847843**

Dear Mr. Olivarez:

Attached for your review and approval is our invoice for services rendered under Work Authorization #2 during the month of October 2022 on the subject referenced project.

The following is attached:

- Invoice No. 20351

The following is a narrative of the progress for this period.

	% Complete
Construction Materials Testing	50%
<u>UPDATED:</u> B2Z performed field testing with the use of the nuclear density gauge to measure compaction of Select Backfill Materials for spreader footing. B2Z continues to perform Concrete and Laboratory testing. Casting of concrete cylinders included Preparation / Hold / Cure and Compressive Strength testing. B2Z continues to perform various rebar and welding inspections.	

Should you have any questions regarding this submittal, please do not hesitate to call me at (956) 585-3773.

Sincerely,



Oliver Salgado, P.E.
Project Manager
B2Z Engineering, LLC



P.O. Box 2724
 McAllen, Tx. 78502
 (956) 585-3773

Invoice

Date	Invoice #
11/1/2022	20351

Please send remittance with copy of invoice to:

Attn: Mrs. Aisha Gonzalez
 P.O. Box 2724
 McAllen, Tx. 78502

Bill To:

County of Hidalgo Texas Executive Office
 2818 S. Bus. Hwy. 281
 Edinburg, TX 78539

Project Info:

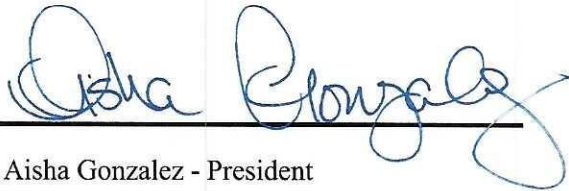
Hidalgo County Bio-Safety Lab Geo & CMT
 Contract # C-20-184-01-12
 Work Authorization #2
 PO# 847843
 B2Z JOB: 4124

Billing Period **October 2022**

Description	Contract	Previous Applications	Current Completed	Total Completed	% Complete
Construction Materials Testing	\$ 64,763.07	\$ 25,905.23	\$ 6,476.31	\$ 32,381.54	50.0%
Total For This Billing Period					\$6,476.31

Work Authorization ~ Summary

<u>WA No.</u>	<u>WA Amount</u>	<u>Previously Inv.</u>	<u>Percent Complete</u>	<u>Remaining Balance</u>
2	\$64,763.07	\$25,905.23	50.0%	\$32,381.53



 Aisha Gonzalez - President

Mission Office

900 S Stewart Rd, Ste. 2
Mission, TX 78572
Phone: 956-585-3773

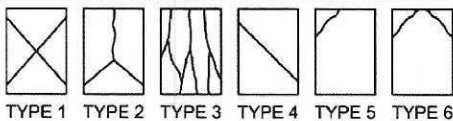
Client:

Hidalgo County
100 North Closner
Edinburg, TX 78539

Project:

4124
Hidalgo County Health Dept Testing/Bio-Safety
Laboratory
Various
Edinburg, TX

Sample Details										
Set #:	8	Technician:	Manuel De Santiago	Batched:	11:19 CDT					
Specimen Size:	4 x 8 Cast Cylinder	Cast By:	Manuel De Santiago	Sampled:	12:15 CDT					
Specimens In Set:	6	Date Cast:	09/28/22	Cast:	12:23 CDT					
Truck / Ticket #:	300 / 571827	Sampled From:	Chute	Truck Empty:						
Contractor:	ECON Enriquez construction	Placement Method:	Chute	Placement Time:						
Location										
Placement Location:	Other									
Location Details:	South parking lot									
Sample Location / Notes:	south parking lot									
Batch Log						Specifications				
Supplier:	CRM Concrete Company	Mix Design:	3000CG	Strength:	3000 (psi)					
On-Site Admixtures:	None									
Field Measurements										
Weather:	Sunny/Hot	Slump (in):	6	Plastic Unit Weight:						
Air Temperature (F):	83	Concrete Temp (F):	86	Air Content:						
				Load Volume:	10.00 (yd ³)					
Standard Cure					Field Cure					
Initial Cure Method:	Plastic Cover/Lid/Blanket									
Final Cure Method:	Water Storage Tank									
Lab Test Results										
Testing Lab: B2Z Mission Lab, 900 S. Stewart Rd., Suite 2, Mission, TX, 78572										
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
8-1	7	10/05/22	1 / 6	4.00	12.57	35,563	2,830	2	F3	1
8-2	7	10/05/22	1 / 6	4.00	12.57	38,670	3,080	3	R3	1
8-3	7	10/05/22	1 / 6	4.00	12.57	40,063	3,190	2	R3	1
8-4	28	10/26/22	1 / 27							
8-5	28	10/26/22	1 / 27							
8-6	28	10/26/22	1 / 27							
Test Age Average Strengths (psi): 7 Day - 3030										
									Capping Methods	
F3: The 7 day test results did not meet the specifications. R3: The 7 day test results meets or exceeds the 28 day specified strength. Tested By: Manuel De Santiago (1,2,3) Checked In : 09/29/2022 (1,2,3,4,5,6)									1: Neoprene Pad	



MS

Respectfully Submitted by B2Z Engineering

Hector Cantu
Hector Cantu, Corporate Laboratory Manager

Mission Office

900 S Stewart Rd, Ste. 2
Mission, TX 78572
Phone: 956-585-3773

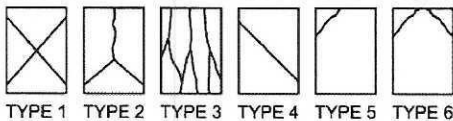
Client:

Hidalgo County
100 North Closner
Edinburg, TX 78539

Project:

4124
Hidalgo County Health Dept Testing/Bio-Safety
Laboratory
Various
Edinburg, TX

Sample Details										
Set #:	9	Technician:	Sergio Navarro	Batched:	11:44 CDT					
Specimen Size:	4 x 8 Cast Cylinder	Cast By:	Sergio Navarro	Sampled:	12:42 CDT					
Specimens In Set:	6	Date Cast:	10/07/22	Cast:	12:49 CDT					
Truck / Ticket #:	7233 / 2143273	Sampled From:	Chute	Truck Empty:	13:12 CDT					
Contractor:	ECON Enriquez Construction	Placement Method:	Chute	Placement Time:	88 (min)					
Location										
Placement Location:	Interior Spreader Footing									
Location Details:	South side of Building									
Sample Location / Notes:	South Wall									
Batch Log						Specifications				
Supplier:	Alamo Concrete	Mix Design:	3000PSI IRRRET	Strength:	3000 (psi)					
On-Site Admixtures:	None									
Field Measurements										
Weather:	Cloudy	Slump (in):	6	Plastic Unit Weight:						
Air Temperature (F):	81	Concrete Temp (F):	81	Air Content:	1.2					
				Load Volume:	10.00 (yd ³)					
Standard Cure					Field Cure					
Min / Max Temp (F):	68/88									
Initial Cure Method:	Plastic Cover/Lid/Blanket									
Final Cure Method:	Water Storage Tank									
Lab Test Results										
Testing Lab: B2Z Mission Lab, 900 S. Stewart Rd., Suite 2, Mission, TX, 78572										
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
9-1	7	10/14/22	1 / 6	4.00	12.57	28,866	2,300	5	F3	1
9-2	7	10/14/22	1 / 6	4.00	12.57	33,949	2,700	4	F3	1
9-3	7	10/14/22	1 / 6	4.00	12.57	34,718	2,760	5	F3	1
9-4	28	11/04/22	1 / 27							
9-5	28	11/04/22	1 / 27							
9-6	28	11/04/22	1 / 27							
Test Age Average Strengths (psi): 7 Day - 2590										
									Capping Methods	
F3: The 7 day test results did not meet the specifications.									1: Neoprene Pad	
Tested By: Manuel De Santiago (1,2,3)										
Checked In : 10/08/2022 (1,2,3,4,5,6)										



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Respectfully Submitted by B2Z Engineering

Hector Cantu, Corporate Laboratory Manager

Mission Office

900 S Stewart Rd, Ste. 2
Mission, TX 78572
Phone: 956-585-3773

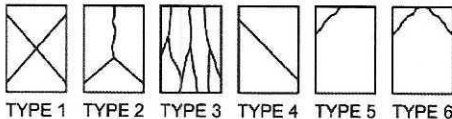
Client:

Hidalgo County
100 North Closner
Edinburg, TX 78539

Project:

4124
Hidalgo County Health Dept Testing/Bio-Safety
Laboratory
Various
Edinburg, TX

Sample Details										
Set #:	10	Technician:	Frank Velez Jr	Batched:	11:20 CDT					
Specimen Size:	4 x 8 Cast Cylinder	Cast By:	Frank Velez Jr	Sampled:	12:10 CDT					
Specimens In Set:	6	Date Cast:	10/11/22	Cast:	12:25 CDT					
Truck / Ticket #:	308 / 572226	Sampled From:	Chute	Truck Empty:						
Contractor:		Placement Method:	Chute	Placement Time:						
Location										
Placement Location:	Other									
Location Details:	Canopy piers									
Sample Location / Notes:	Canopy piers									
Batch Log						Specifications				
Supplier:	CRM Concrete Company	Mix Design:	3500 PSI	Strength:	3500 (psi)					
On-Site Admixtures:	None									
Field Measurements										
Weather:	Sunny and cloudy		Slump (in):	4-1/2		Plastic Unit Weight:				
Air Temperature (F):	86		Concrete Temp (F):	84		Air Content:	1.4			
						Load Volume:	10.00 (yd ³)			
Standard Cure						Field Cure				
Min / Max Temp (F):	75/95									
Initial Cure Method:	Plastic Cover/Lid/Blanket									
Final Cure Method:	Water Storage Tank									
Lab Test Results										
Testing Lab: B2Z Mission Lab, 900 S. Stewart Rd., Suite 2, Mission, TX, 78572										
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
10-1	7	10/18/22	1 / 6	4.00	12.57	36,247	2,880	2	F3	1
10-2	7	10/18/22	1 / 6	4.00	12.57	37,709	3,000	2	F3	1
10-3	7	10/18/22	1 / 6	4.00	12.57	38,655	3,080	2	F3	1
10-4	28	11/08/22	1 / 27							
10-5	28	11/08/22	1 / 27							
10-6	28	11/08/22	1 / 27							
Test Age Average Strengths (psi): 7 Day - 2990										
								Capping Methods		
F3: The 7 day test results did not meet the specifications.								1: Neoprene Pad		
Tested By: Manuel De Santiago (1,2,3)										
Checked In: 10/12/2022 (1,2,3,4,5,6)										



Respectfully Submitted by B2Z Engineering

Hector Cantu, Corporate Laboratory Manager

B2Z ENGINEERING

Mission Office
900 S Stewart Rd, Ste. 2
Mission, TX 78572
Phone: 956-585-3773

Soil Nuclear Gauge
B2Z Report No. BSL-45S
Report Date: 09/29/2022
Test Method: ASTM D 6938

Client:
Hidalgo County
100 North Closner
Edinburg, TX 78539

Project:
4124
Hidalgo County Health Dept Testing/Bio-Safety
Laboratory
Various
Edinburg, TX

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (In)	Percent Compaction	Min Comp. (%)	Remark
95		09/28/22	Select Backfill #2		CL/CH	14.3	111.9	14.8	114.5	131.4	12	102.3	95	DP/MP
96		09/28/22	Select Backfill #2		CL/CH	14.3	111.9	13.1	116.2	131.4	12	103.8	95	DP/MP
Test Information														
Test #	Test Location	Elevation	Reference	Make / Model / SN / Calibrated	Gauge	Field Technician								
95	Other: Spreader Footing North Side of Bldg 15'E from N.W. Corner of Bldg 1st Lift			Instrotek / 3500 Xplorer / 4015 / 01/25/2022		Manuel De Santiago								
96	Other: Spreader Footing North Side of Bldg Approx. 60'E from N.W. Corner of Bldg 1st Lift			Instrotek / 3500 Xplorer / 4015 / 01/25/2022		Manuel De Santiago								
Remarks		Comments												
DP/MP: Density Pass / Moisture Pass		Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.												

Respectfully Submitted by B2Z Engineering



Hector Cantu, Corporate Laboratory Manager



Soil Nuclear Gauge

B2Z Report No. BSL-46S
 Report Date: 09/30/2022
 Test Method: ASTM D 6938

Mission Office
 900 S Stewart Rd, Ste. 2
 Mission, TX 78572
 Phone: 956-585-3773

Client:
 Hidalgo County
 100 North Closer
 Edinburg, TX 78539

Project:
 4124
 Hidalgo County Health Dept Testing/Bio-Safety
 Laboratory
 Various
 Edinburg, TX

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
97		09/29/22	Select Backfill #2		CL/CH	14.3	111.9	13.7	114.2	129.9	12	102.1	95	DP/MP
98		09/29/22	Select Backfill #2		CL/CH	14.3	111.9	14.9	116.0	133.3	12	103.7	95	DP/MP
99		09/29/22	Select Backfill #2		CL/CH	14.3	111.9	14.5	113.2	129.6	12	101.2	95	DP/MP
100		09/29/22	Select Backfill #2		CL/CH	14.3	111.9	15.5	111.9	129.2	12	100.0	95	DP/MP
Test Information														
Test #	Test Location	Elevation	Reference	Make / Model / SN / Calibrated	Field Technician									
97	Other: Spreader Footing North Side of Bldg 15'W from NE Corner of Bldg 2nd & Final Lift			Instrotek / 3500 Xplorer / 4015 / 01/25/2022	Manuel De Santiago									
98	Other: Spreader Footing North Side of Bldg 60'W from NE Corner of Bldg 2nd & Final Lift			Instrotek / 3500 Xplorer / 4015 / 01/25/2022	Manuel De Santiago									
99	Other: Spreader Footing North Side of Bldg 20'E from SW Corner of Bldg 1st Lift			Instrotek / 3500 Xplorer / 4015 / 01/25/2022	Manuel De Santiago									
100	Other: Spreader Footing North Side of Bldg 50'E from SW Corner of Bldg 1st Lift			Instrotek / 3500 Xplorer / 4015 / 01/25/2022	Manuel De Santiago									
Remarks		Comments												
DP/MP: Density Pass / Moisture Pass		<small>Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.</small>												

Respectfully Submitted by B2Z Engineering

Hector Cantu, Corporate Laboratory Manager



Mission Office
900 S Stewart Rd, Ste. 2
Mission, TX 76702
Phone: 956-585-3773

Soil Nuclear Gauge
B2Z Report No. BSL-47S
Report Date: 10/03/2022
Test Method: ASTM D 6938

Client:
Hidalgo County
100 North Clossner
Edinburg, TX 78539

Project:
4124
Hidalgo County Health Dept Testing/Bio-Safety
Laboratory
Various
Edinburg, TX

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
101		09/30/22	Select Backfill #2		CL/CH	14.3	111.9	12.5	115.9	130.4	12	103.6	95	DP/MP
102		09/30/22	Select Backfill #2		CL/CH	14.3	111.9	13.3	115.0	130.3	12	102.8	95	DP/MP
Test Information														
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician									
101	Other: Spreader Footing 10'Wx2'S SE Corner of Bldg 2nd & Final Lift			Instrotek / 3500 Xplorer / 4693 / 05/18/2022	Sergio Navarro									
102	Other: Spreader Footing 25'Nx2'E East Side of Bldg 2nd & Final Lift			Instrotek / 3500 Xplorer / 4693 / 05/18/2022	Sergio Navarro									
Remarks		Comments												
DP/MP: Density Pass / Moisture Pass		Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.												

Respectfully Submitted by B2Z Engineering

Hector Cantu, Corporate Laboratory Manager

Client:

Hidalgo County
 100 North Closner
 Edinburg, TX 78539

Project:

4124
 Hidalgo County Health Dept Testing/Bio-Safety
 Laboratory
 Various
 Edinburg, TX

Project Contractor: ECON-Enriquez Construction

On 09/28/2022, a representative of B2Z Engineering was dispatched to the subject project to performed rebar inspection for canopy piers. Please see Inspection report.

Contractor Present:	ECON-Enriquez Construction
Inspector/Technician Time:	3.0
Trip Charge:	30 Miles
Inspector/Technician:	Giovanni Mares

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Respectfully Submitted by B2Z Engineering



Hector Cantu, Corporate Laboratory Manager

Date Wed 09/28/2022

Job # 4124

Prepared By Gio Mares



Weather

6:00 AM

66°

Clear

Wind: 5 MPH | Precipitation: .0" | Humidity: 84%

12:00 PM

84°

Clear

Wind: 12 MPH | Precipitation: .0" | Humidity: 56%

4:00 PM

88°

Clear

Wind: 15 MPH | Precipitation: .0" | Humidity: 47%

Work Logs

No entry

Name	Description	Quantity	Total Hours	Total Hours To Date
Total		0	0	0

Time Cards

No entry

Materials

No entry

Equipment

No entry

General Notes

1. My rebar inspection was conducted at 8:30 am this morning. 20 rebar cages were inspected. Cages were laid next to dug piers. All rebar cages have been properly tied and secured. Correct spacing was used on rib cages #4 rebar as specified. Spacing of links at lap not greater than 6 of longitudinal bar. Links at knuckle of crank properly secure. Rebar for links #3 as specified.

Gio Mares | 09/28/22 | 09:56AM

Site Safety Observations

No entry

Survey

Questions	N/A	No	Yes	Description
1. Rebar epoxy coated.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Clearance around rebar as specified.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Bars are properly supported on chairs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Size & number of bars as specified	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Lap lengths as specified.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Spacing of bars as specified.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Dowels in places and tied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Epoxy coating specified.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Bars are properly laid and positioned.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Attachments



Gio Mares

I, Gio Mares, have reviewed and completed this report.

Gio Mares | 09/28/22 | 09:56AM

Client:

Hidalgo County
 100 North Closner
 Edinburg, TX 78539

Project:

4124
 Hidalgo County Health Dept Testing/Bio-Safety
 Laboratory
 Various
 Edinburg, TX

Project Contractor: ECON-Enriquez Construction

On 09/29/2022, a representative of B2Z Engineering was dispatched to the subject project to performed Inspection for Structural Welding. Please see Inspection report.

Contractor Present:	ECON-Enriquez Construction
Inspector/Technician Time:	3.0
Trip Charge:	30 miles
Inspector/Technician:	Subconsultant

Respectfully Submitted by B2Z Engineering

Hector Cantu, Corporate Laboratory Manager

Robles Consulting, LLC an AWS Affiliate Company Member
P.O. Box 1231
Rio Hondo, TX 78583
(956) 748-0176 Fax, (956) 245-6774 Cell
roblesconsulting@yahoo.com

Job: B2Z - 002
County: Hidalgo
File: 01.222302

STRUCTURAL/WELDING INSPECTION REPORT

Consulting Engineer: B2Z Engineering, LLC
Address: 900 S. Stewart Rd. Suite 4
City: Mission, TX 78572

Project Name: Bio Safety Health Facility

Date Inspected: 09/29/2022

Prime Contractor: Econ

Project Ref. No. 4124

Contractor: Acero Fab

Location: Edinburg, Texas

Documents Reviewed:

Electrode to Specification: Yes No N/A
Welders Qualified: Yes No N/A
Reviewed Drawings: Yes No N/A

CWI Present: Continuous Periodic
Weld Procedures Followed: Yes No N/A
Verified Joint Fit-up: Yes No N/A
Reviewed WPS: Yes No N/A

Weld Types Observed:

Fillet Welds 1/8" 3/16" 1/4" 5/16" 3/8" Seam Welds 5/8" Arc Spot Welds Other
Groove Welds CJP PJP Moment Connections
Electrode Type Used: E7018H4R Welding Process: SMAW

Structural Weld/Bolt Location Observed/Inspected and Gridlines:

Perimeter Angle to Joists Angle Braces to Joists Beam to Beam Connections
 Joists to CMU Embeds Horizontal/X-bridging to Joists Beam to Column Connections
 Tilt Panels to Footings Bridging Anchored/Welded at Ends Splice Plates at Chord Angle
 Girder to Girder Seats Mech. Frames Welded to Joists
 Columns to Baseplate Embeds Bolts A325 Snug Tight
 Angle Clip to Beams **Notes:** Inspection of welds at Mech. frames welded to joists at grid 2to4.5@B.5-E.5
 Joist to Girder was performed. Inspection of welds at angles 5x3x1/4 welded to mech. frame
 Joist to Tilt Panel Embed configurations was performed. Inspection of ongoing welds at deck angle
 Panel to Panel Connections welded to panel embeds was performed. Observation of ongoing roof deck
 Continuous Angle to Embeds installation is noted. Thorough inspection of ongoing items shall be
 Girders to Column Cap Plates performed upon completion. Welds inspected were acceptable to Specs and
 Joists to Beams AWS D1.1 Code criteria.
 K-Bracing to Flag Plates
 Outriggers to Joists/ Beams

Deck Weld Pattern Inspected:

Deck Type: _____ Weld Pattern: _____ Fasteners per Span: _____
Deck to Joists Deck to Chord Angle Weld Washers: Yes No N/A
Deck to Outriggers Deck Fastening Deck Fastening Pattern: N/A

Inspection performed to visual inspection acceptance criteria as set forth by AWS D 1.1 / AWS D1.3 Structural Welding Code.

Comments: This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations, unless specified or RFI approved.

Applicable Code, Standards: AWS D1.1 AWS D1.3 AISC ASME Section IX Specs RFI

Inspected By: Raul L. Robles, CWI, CWE AWS Certified Welding Inspector / AWS Certified Welding Educator
Credential Verification: www.AWS CWI Quick Check  Acceptable Unacceptable

Authorized By: David Rivera, Project Manager

B2Z Engineering, LLC

Client:Hidalgo County
100 North Closner
Edinburg, TX 78539**Project:**4124
Hidalgo County Health Dept Testing/Bio-Safety
Laboratory
Various
Edinburg, TX**Project Contractor:** ECON-Enriquez Construction

On 10/04/2022, a representative of B2Z Engineering was dispatched to the subject project to performed rebar inspection for interior spreader footings. Please see Inspection report.

Contractor Present:	ECON-Enriquez Construction
Inspector/Technician Time:	3.0
Trip Charge:	30 Miles
Inspector/Technician:	Giovanni Mares



Respectfully Submitted by B2Z Engineering

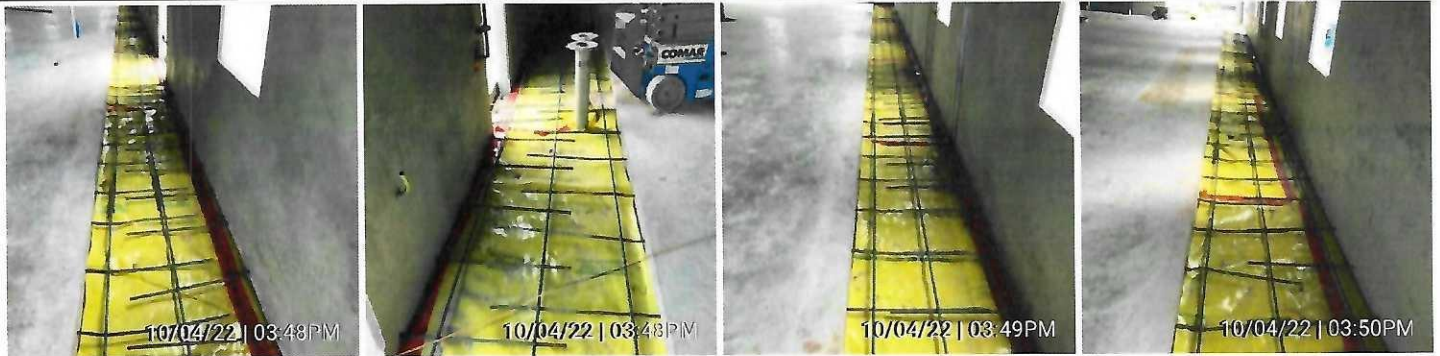


Hector Cantu, Corporate Laboratory Manager

Date Tue 10/04/2022

Job # 4124

Prepared By Gio Mares



Weather

6:00 AM

70°

Overcast

Wind: 3 MPH | Precipitation: .0" | Humidity: 86%

12:00 PM

83°

Partly Cloudy

Wind: 3 MPH | Precipitation: .0" | Humidity: 60%

4:00 PM

87°

Mostly Cloudy

Wind: 5 MPH | Precipitation: .0" | Humidity: 50%

Work Logs

No entry

Name	Description	Quantity	Total Hours	Total Hours To Date
Total		0	0	0

Time Cards

No entry

Materials

No entry

Equipment

No entry

General Notes

1. My rebar inspection was conducted at 330pm today. Upon arrival meet with project superintendent. All installed rebar by my observations were of proper size #4. Correct spacing and placement of rebar was adhered too. All dowels were properly installed and secured. Laps were all within tolerance

Gio Mares | 10/04/22 | 04:04PM

Site Safety Observations

No entry

Survey

Questions	N/A	No	Yes	Description
1. Rebar epoxy coated.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Clearance around rebar as specified.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	All clearances properly adhered to <small>Gio Mares 10/04/22 04:01PM</small>
3. Bars are properly supported on chairs.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Chairs will be set in place tomorrow morning <small>Gio Mares 10/04/22 04:01PM</small>
4. Size & number of bars as specified	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	All rebar #4 as specified in plans and specs <small>Gio Mares 10/04/22 04:01PM</small>
5. Lap lengths as specified.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	All laps within tolerable measures <small>Gio Mares 10/04/22 04:01PM</small>
6. Spacing of bars as specified.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	All rebar properly spaced 12 inches on center <small>Gio Mares 10/04/22 04:01PM</small>
7. Dowels in places and tied.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	All dowels into tilt panel wall's correctly installed <small>Gio Mares 10/04/22 04:01PM</small>
8. Epoxy coating specified.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Bars are properly laid and positioned.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	All rebar properly Laid and positioned <small>Gio Mares 10/04/22 04:01PM</small>

Gio Mares

I, Gio Mares, have reviewed and completed this report.

Gio Mares | 10/04/22 | 04:04PM

Client:

Hidalgo County
 100 North Closner
 Edinburg, TX 78539

Project:

4124
 Hidalgo County Health Dept Testing/Bio-Safety
 Laboratory
 Various
 Edinburg, TX

Project Contractor: ECON-Enriquez Construction

On 10/05/2022, a representative of B2Z Engineering was dispatched to the subject project to performed rebar inspection for interior columns. Please see Inspection report.

Contractor Present:	ECON-Enriquez Construction
Inspector/Technician Time:	3.0
Trip Charge:	30 Miles
Inspector/Technician:	Giovanni Mares

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Respectfully Submitted by B2Z Engineering

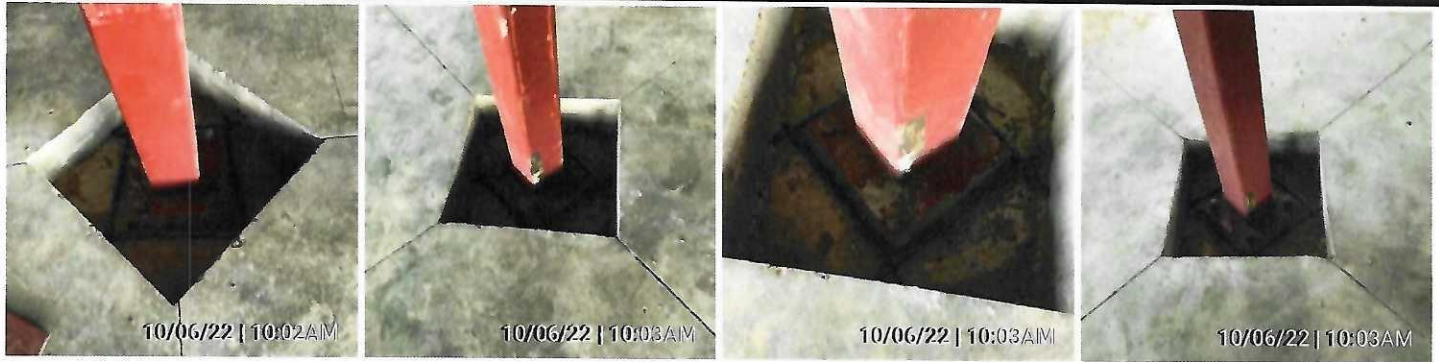


Hector Cantu, Corporate Laboratory Manager

Date Wed 10/05/2022

Job # 4124

Prepared By Gio Mares



Weather

6:00 AM

71°

Partly Cloudy

Wind: 3 MPH | Precipitation: .0" | Humidity: 86%

12:00 PM

84°

Partly Cloudy

Wind: 5 MPH | Precipitation: .0" | Humidity: 56%

4:00 PM

88°

Partly Cloudy

Wind: 7 MPH | Precipitation: .0" | Humidity: 46%

Work Logs

No entry

Name	Description	Quantity	Total Hours	Total Hours To Date
Total		0	0	0

Time Cards

No entry

Materials

No entry

Equipment

No entry

General Notes

1. Meet with job superintendent at 10am. Conducted my rebar observation. All rebar for interior columns was properly installed and supported. All rebar was #4 as specified in plans. Diamonds were properly tied and in place as to plans.

Gio Mares | 10/06/22 | 10:11AM

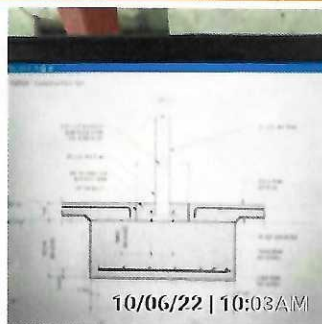
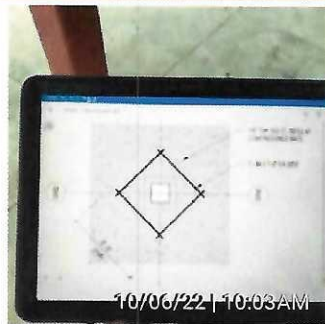
Site Safety Observations

No entry

Survey

Questions	N/A	No	Yes	Description
1. Rebar epoxy coated.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Clearance around rebar as specified.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Bars are properly supported on chairs.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Size & number of bars as specified	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	All rebar installed #4 as specified on plans and specs <small>Gio Mares 10/06/22 10:10AM</small>
5. Lap lengths as specified.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Spacing of bars as specified.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Dowels in places and tied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Epoxy coating specified.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Bars are properly laid and positioned.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Diamond properly installed and tied <small>Gio Mares 10/06/22 10:10AM</small>

Attachments



Gio Mares

I, Gio Mares, have reviewed and completed this report.

Gio Mares | 10/06/22 | 10:12AM

Client:Hidalgo County
100 North Closner
Edinburg, TX 78539**Project:**4124
Hidalgo County Health Dept Testing/Bio-Safety
Laboratory
Various
Edinburg, TX**Project Contractor:** ECON-Enriquez Construction

On 10/06/2022, a representative of B2Z Engineering was dispatched to the subject project to performed rebar inspection for anchor bolts. Please see Inspection report.

Contractor Present:	ECON-Enriquez Construction
Inspector/Technician Time:	3.0
Trip Charge:	30 Miles
Inspector/Technician:	Giovanni Mares

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Respectfully Submitted by B2Z Engineering



Hector Cantu, Corporate Laboratory Manager

Bio-Lab CMT

Edinburg Texas



Date Thu 10/06/2022

Job # 4124

Prepared By Gio Mares



Weather

6:00 AM

68°

Partly Cloudy

Wind: 3 MPH | Precipitation: .0" | Humidity: 90%

12:00 PM

84°

Partly Cloudy

Wind: 4 MPH | Precipitation: .0" | Humidity: 59%

4:00 PM

88°

Overcast

Wind: 8 MPH | Precipitation: .0" | Humidity: 45%

Work Logs

No entry

Name	Description	Quantity	Total Hours	Total Hours To Date
Total		0	0	0

Time Cards

No entry

Materials

No entry

Equipment

No entry

General Notes

1. Conducted my rebar anchor bolt inspection this morning at 9:30 am. Upon observation all form jigs were properly installed and secured holding all anchors securely in place as to specs for columns. Form boards around piers were proper height as to plans and spacing accordingly. Concrete pour scheduled for tomorrow morning at 8am.

Gio Mares | 10/06/22 | 09:51AM

Site Safety Observations

No entry

Survey

Questions	N/A	No	Yes	Description
1. Rebar epoxy coated.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Clearance around rebar as specified.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	All anchors correctly spaced and secured Gio Mares 10/06/22 09:51AM
3. Bars are properly supported on chairs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Size & number of bars as specified	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Lap lengths as specified.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Spacing of bars as specified.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Dowels in places and tied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Epoxy coating specified.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Bars are properly laid and positioned.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Attachments





Gio Mares

I, Gio Mares, have reviewed and completed this report.

Gio Mares | 10/06/22 | 09:55AM