ADDENDUM TO
SPECIFICATIONS ENTITLED
"SPECIFICATIONS FOR
"SPECIFICATIONS FOR
WARDLAW COLLEGE ROOF REPLACEMENT
STATE PROJECT NO. 50003317-2
WARDLAW COLLEGE
COLLEGE OF EDUCATION
820 SOUTH MAIN STREET
COLUMBIA, SOUTH CAROLINA"

<u>ADDENDUM NO. 2</u> <u>JULY 24, 2019</u>

The Specifications and Drawings contained in the project manual entitled "Specifications for Wardlaw College Roof Replacement, State Project No. 50003317-2, Wardlaw College, College of Education, 820 South Main Street, Columbia, South Carolina" are amended as follows:

## **GENERAL**

1. Results were returned as Negative for Asbestos at the exterior stucco wall along Roof Area F. Asbestos test results are attached.

## **DRAWINGS**

1. Delete Drawings G-101, A-101 and A-103 in their entirety and replace with attached Drawings G-101, A-101, A-103 (Addendum No. 2)

Nothing herein is to be interpreted or construed as changing any provisions of the specifications except as specifically stated herein.

Enclosure: Asbestos Test Results

G-101, A-101 and A-103 (Addendum No. 2)

**END OF ADDENDUM** 

## **FM00568662** \*FM00568662\*

## **USC Work Order**

**Description** HAZMAT SURVEY - 080

 Site
 COLUMBIA
 Assigned To
 SSINCLAIR

 Building
 080
 WARDLAW COLLEGE
 Crew
 HAZMAT

Floor ROOF Room: Start Date 16-APR-18 Priority 20

Equipment Due date

Request Date 22-FEB-18 by CAMOORE

Request # FM00568662 Description HAZMAT SURVEY - 080

Parent WO #

CP Number 50003317-2 WARDLAW COLLEGE ROOF REPLACEMENT

State/Internal Project Number H27-Z377

Requestor Project Manager BRANHAM, DALE

Telephone Telephone 777-1288

Alternate Estimated Cost \$ 2,958.50

Telephone Billing FIXED PRICE

Non-Available Time CL013-57140 (FACILITIES PLANNING - CONSTR)

Task List

DATE WORK STARTED CAUSE

DATE WORK COMPLETED CONDITION

**EQUIPMENT** 

**CLOSING REMARKS** 

**BENCHSTOCK MATERIALS** 

Qty Description Price Per Unit

Supervisor's Approval

Note Date Title

23-JUL-19 HAZMAT SURVEY RESULTS

SURVEY DATE: 7/23/2019

INSPECTOR #: ANTONIO THOMPSON (GR00052)

SCOPE: THE FOLLOWING SURVEY WAS PERFORMED IN PREPARATIONS TO REPAIR DAMAGE STUCCO ON THE EXTERIOR PORTION OF THE BUILDING.

ASBESTOS SECTION:

STUCCO: NEGATIVE FOR ASBESTOS

INSPECTOR NOTES:

- 1. IF A BUILDING MATERIAL IS NOT LISTED, DO NOT ASSUME THAT IT DOES NOT CONTAIN ASBESTOS. IT MAY NOT HAVE BEEN TESTED. FOR FURTHER INFORMATION, PLEASE CONTACT THE USC HAZMAT PROGRAM.
- 2. IF YOU ENCOUNTER ANY OTHER MATERIALS IN PLACE AND DEEM THEM SUSPECT FOR ASBESTOS AND/OR LEAD, PLEASE STOP WORK AND CONTACT THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING OR ABATEMENT.
- 3. PLEASE NOTE THAT THE MATERIAL QUANTITY PROVIDED ON THE FIELD SHEET IS ONLY AN ESTIMATE FOR SAMPLING PURPOSES. THE QUANTITY

SHOULD BE FIELD VERIFIED FOR ALL OTHER PURPOSES INCLUDING ABATEMENT. THIS SURVEY IS ONLY VALID FOR THE DESIGNATED AREA(S)/LOCATION(S) TESTED IE: (WARDLAW COLLEGE EXTERIOR WALLS).

## 02-MAY-18 HAZMAT SURVEY RESULTS

SURVEY DATE:05/07/2018

INSPECTOR #: SIMONE WARREN (GR00052)

SCOPE: THE FOLLOWING SURVEY WAS PERFOMRED IN PREPARATION TO REMOVE/REPLACE EXISTING ROOF AT WARDLAW COLLEGE. THE FOLLOWING SECTIONS TO BE IMPACTED INCLUDE: SECTIONS A, B, C, D, E, AND F.PLEASE SEE ATTACHMENT FOR IMAGES, BIRDS EYE VIEW OF ROOF, AND SECTION DESIGNATIONS. PLEASE NOTE: IN-HOUSE ROOFERS CORE DRILLED ROOFING MATERIAL TO THE DECK. LAB RESULTS WILL REFLECT RESULTS FOR ALL LAYERS. CLIENT INDICATED THAT HVAC DUCT WORK AND HVAC DUCT MASTICS & ITS CORRESPONDING CAULK WILL NOT BE IMPACTED BY PLANNED WORK ACTIVITIES. CLIENT HAS ALSO INDICATED THAT ROOF LAYERS SHALL BE TREATED AS ONE UNIT AND OTHERWISE CANNOT BE ABATED SEPERATELY BY LAYER.

## ASBESTOS SECTION:

SECTIONS A,B,C,D, E AND F

- ROOFING MATERIAL: POSITIVE FOR ASBESTOS
- ALL EXISTING ROOF FELT:TREATED POSITIVE FOR ASBESTOS
- ROOF FLASHING (TO INCLUDE ALL PATCHWORK): POSITIVE FOR ASBESTOS.
- WHITE SEALANT AND ANY OTHER MATERIAL USED TO PATCH AND SEAL AREAS ON ROOF :TREATED POSITIVE FOR ASBESTOS
- ALL EXISTING CAULK ENCOUNTERED: POSITIVE FOR ASBESTOS (PLEASE SEE LINE 1 INSPECTORS NOTES FOR EXCLUSIONS TO THIS LINE ITEM)
   SILVER PAINTED DECORATIVE ORNAMENTS/ROOF FELT/CAULK: POSITIVE FOR ASBESTOS. PLEASE NOTE: ROOF FELT MATERIAL WAS PRESENT
- UNDER SILVER PAINT. RESULTS FOR ROOF FELT: 60% CHRYSOTILE. CORRESPONDING SILVER CAULK IS ALSO POSITIVE FOR ASBESTOS.
- TEXTURED PLASTER (SECTION F: INTERIOR STAIRWELL): NEGATIVE FOR ASBESTOS
- •HVAC DUCT WORK (BLACK INTERIOR/WHITE EXTERIOR): NEGATIVE FOR ASBESTOS

## LEAD SECTION:

SILVER PAINT OBSERVED ON DECORATIVE ORNAMENTS: POSITIVE FOR LEAD

YELLOW PAINTED WALL AT METAL COPING: POSITIVE FOR LEAD

WHITE & RED PAINT ON BIRD HOUSE (METAL AND CONCRETE SUBSTRATE): POSITIVE FOR LEAD

VENT PIPES: POSITIVE FOR LEAD

GREEN/BLACK PAINTED CAULK (SECTION C-ACCESS PANEL BOX): NEGATIVE FOR LEAD

ELEVATOR MACHINE RM EXTERIOR WALLS: NEGATIVE FOR LEAD

BEIGE PAINTED STAIR WELL (SECTION F):NEGATIVE FOR LEAD

BEIGE PAINTED CEILINGS - (SECTION F- STAIRWELL): NEGATIVE FOR LEAD

WHITE PAINTED HVAC BRACKET (SECTION A): NEGATIVE FOR LEAD

## 30-JUN-18 HAZMAT SURVEY RESULTS

INSPECTORS NOTES: (PLEASE SEE ATTACHED IMAGES)

DURING OBSERVATION, THERE WERE LOCATIONS WHERE EXISTING CAULK APPEARED TO BE CROSS CONTAMINATED WITH EXCESS ROOF FLASHING MATERIAL (WHICH TESTED POSITIVE FOR ASBESTOS). FOR THESE REASONS- ANY GRAY, WHITE, BEIGE, CLEAR, AND BROWN CAULK FOUND ON THE ROOF, ON PERIMETER OF DOORS, PERIMETER OF ELEVATOR MACHINE ROOMSTAIR WELL (EXTERIOR), AND/OR ON THE PERIMETER OF METAL FLASHING SHALL BE TREATED AS POSITIVE FOR ASBESTOS. SEE LIST BELOW FOR EXCLUSIONS:

- 1. (CAULK EXCLUSIONS)-\*\*\*CAULK THAT WILL BE VIEWED AS NEGATIVE FOR ASBESTOS\*\*\*:
  •BROWN CAULK ON PERIMETER OF EXTERIOR WINDOWS: NEGATIVE FOR ASEBSTOS
- 2. THERE ARE VARIOUS ITEMS ON THE ROOF, NOT LIMITED TO :SUPPORT ANCHORS FOR HVAC UNIT, EXHAUST FANS, PITCH POCKETS, VENT PIPES, HVAC UNIT BRACKETS, AND ANY OTHERS THAT HAVE CONTAMINATED ROOFING MATERIAL ON ITS SURFACE. IF THERE ANY PLANS MADE TO DISPOSE ANY OF THE PRESENT ITEMS, CONSIDERATIONS SHALL BE MADE TO DISPOSE OF ANY RESIDUAL ROOFING MATERIAL LEFT ON THESE SURFACES AS ACM.
- 3. THERE APPEARED TO BE A RUBBER SHEET BELOW ROOF COPINGS THAT LOOKED TO BE MECHANICALLY FASTENENED IN PLACE. THE RUBBER SHEET IS NON SUSPECT FOR ASBESTOS. IF ANY ADDITIONAL MATERIAL IS ENCOUNTERED DURING REMOVAL OF ROOF COPING, AND ANYWHERE ELSE ON ROOF, PLEASE STOP WORK AND CONTACT USC HAZMAT TO REASSESS.
- 4. IF A BUILDING MATERIAL IS NOT LISTED, DO NOT ASSUME THAT IT DOES NOT CONTAIN ASBESTOS. IT MAY NOT HAVE BEEN TESTED. FOR FURTHER INFORMATION, PLEASE CONTACT THE USC HAZMAT PROGRAM.
- 5. IF YOU ENCOUNTER ANY OTHER MATERIALS IN PLACE AND DEEM THEM SUSPECT FOR ASBESTOS AND/OR LEAD, PLEASE STOP WORK AND CONTACT THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING OR ABATEMENT.
- 6. PLEASE NOTE THAT THE MATERIAL QUANTITY PROVIDED ON THE FIELD SHEET IS ONLY AN ESTIMATE FOR SAMPLING PURPOSES. THE QUANTITY

SHOULD BE FIELD VERIFIED FOR ALL OTHER PURPOSES INCLUDING ABATEMENT. THIS SURVEY IS ONLY VALID FOR THE DESIGNATED AREA(S)/LOCATION(S) TESTED IE: SECTIONS A, B, C, D, E, F; WARDLAW COLLEGE (ROOF).

## 08-SEP-16 ASBESTOS SUMMARY FOR WARDLAW COLLEGE (080) – SEPTEMBER 2016

ASBESTOS HAS BEEN FOUND IN THIS BUILDING. IF DISTURBED, ASBESTOS MAY BE HARMFUL TO YOUR HEALTH.

PLEASE DO NOT DISTURB THE FOLLOWING MATERIALS IN THIS BUILDING AS THEY HAVE BEEN FOUND TO CONTAIN ASBESTOS.

- JOINT COMPOUND / SHEETROCK (3RD FLOOR ONLY)
- 9X9 FLOOR TILE
- BLACK MASTIC UNDER FLOOR TILE
- RESIDUAL BLACK MASTIC ON FLOORING
- BLACK DUCT MASTIC
- PIPE INSULATION
- BLACK MASTIC ON PIPE INSULATION
- RED FIRE CAULKING

IF A BUILDING MATERIAL IS NOT LISTED, DO NOT ASSUME THAT IT DOES NOT CONTAIN ASBESTOS. IT MAY NOT HAVE BEEN TESTED.

FOR FURTHER INFORMATION, PLEASE CONTACT THE USC HAZMAT PROGRAM.

## 08-SEP-16 CRAWL SPACE MAY BE CONTAMINATED WITH ASBESTOS

THE SOIL IN CRAWL SPACES MAY BE CONTAMINATED WITH ASBESTOS FROM OLD PIPE INSULATION AND OTHER MATERIALS. PLEASE CONTACT THE USC HAZMAT PROGRAM BEFORE ENTERING THESE CRAWL SPACES.

OrderID: 021904909



## Asbestos Chain of Custody

EMSL Analytical, Inc. 706 Gralin Street

EMSL Order Number (Lab Use Only):

Kernersville, NC 27284

PHONE: (336) 992-1025 FAX: (336) 992-4175

	NAME AND ADDRESS OF THE OWNER.		STREET, SECTION SECTIO			(000) 002 4170	
Company Name : University	y of South	n Carolina	EMSL Custo	omer ID:			
Street: 743 Greene Street			City: Colum	bia	State/Prov	ince: SC	
Zip/Postal Code: 29208		Country: US	Telephone #	t: 803-917-0291	Fax #: 803	3-777-3990	
Report To (Name): USC HA	AZMAT D	ept	Please Prov	ide Results:	Fax		
Email Address: asbestos@mailbox.sc.edu			Purchase Order:				
Project Name/Number: 080 Wardlaw College			EMSL Project ID (Internal Use Only):				
U.S. State Samples Taken:			CT Samples	: Commercial	Taxable Re	sidential/Tax Exempt	
	EMSL-B	ill to: ☑ Same ☐ Different of Third Party Billing requires with			mments**		
		Turnaround Time (TAT					
3 Hour 6 Ho		24 Hour 48 Hour	☐ 72 Ho	ur 🔲 96 Ho			
*For TEM Air 3 hr through 6 hr, pl	ease call ah his service	ead to schedule.*There is a premiu Analysis completed in accordance	m charge for 3 Ho	our TEM AHERA or El	PA Level II TAT. You	u will be asked to sign an	
PCM - Air Check if sampl					ated III the Analytica	ai riice Guide.	
from NY		TEM – Air4-4.5hr TAT		TEM- Dust			
NIOSH 7400		AHERA 40 CFR, Part 7	63	Microvac - A			
w/ OSHA 8hr. TWA		NIOSH 7402		Wipe - ASTN			
PLM -Bulk (reporting limit)		EPA Level II			ation (EPA 600/	J-93/167)	
PLM EPA 600/R-93/116 (<	<1%)	ISO 10312		Soil/Rock/Verm	The state of the s		
PLM EPA NOB (<1%)		TEM - Bulk		parameter		milling prep (<1%)	
Point Count	10()	TEM EPA NOB			PLM EPA 600/R-93/116 with milling prep (<0.25%) TEM EPA 600/R-93/116 with milling prep (<0.1%)		
400 (<0.25%) 1000 (<0	).1%)	NYS NOB 198.4 (non-friable-NY) Chatfield SOP		TEM Qualitative via Filtration Prep			
400 (<0.25%) 1000 (<0	1.1%)	TEM Mass Analysis-EPA 600 sec. 2.5		TEM Qualitative via Filtration Prep			
NYS 198.1 (friable in NY)		TEM - Water: EPA 100.2	1000 000. 2.0			R-04/004 - PLM/TEM	
				(BC only)			
NYS 198.6 NOB (non-fria	ble-NY)	Fibers >10µm Waste	Drinking	Other:			
NYS 198.8 SOF-V NIOSH 9002 (<1%)		All Fiber Sizes Waste	Drinking				
Check For Positive Stop	- Clearly	Identify Homogenous Grou	ip Filter	Pore Size (Air Sa	mples 0.8	Bμm 0.45μm	
Samplers Name: An	tonio	1 hompson	Samplers	Signature:	hop -	The same	
	90000	100000000	1		lume/Area (Air)	Date/Time	
Sample #		Sample Descript	tion		HA # (Bulk)	Sampled	
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	SEE	FIELD Sh	EE+ A	-Hase had			
				0 000 000			
1						-	
						<b>†</b>	
						1	
Client Sample # (s):				Tota	# of Samples:	7	
Relinquished (Client):	1.4.	Thompson Date	7/19	2019	Tim	e: 10:05 Am	
	TONE		7/0	2/10		111.15	
Received (Lab):	$\succ$	Date	: 110	0117	Tim	e: 10:15	
Comments/Special Instructi	ions:		6-		100011		
			OFF	× 7957	160042	189	

Page 1 of \_\_\_\_ pages

Print Form

Reset Form

080 WARDLAW COLLEGE

7/19/19 Sample Analysis
Type of Analysis: Lead / Asbestos Date:

Turn Around Time

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
4	-	STUCCO	EXTERIOR STAIR TOWER WALLS	Ä	G00D	<5000 SQ FT	TOW
4	2	STUCCO	EXTERIOR STAIR TOWER WALLS	Ä	G00D	<5000 SQ FT	TOW
∢	က	STUCCO	EXTERIOR STAIR TOWER WALLS	Ā	G00D	<5000 SQ FT	МОП
∢	4	STUCCO	EXTERIOR STAIR TOWER WALLS	Ā	G00D	<5000 SQ FT	ПОМ
∢	5	STUCCO	EXTERIOR STAIR TOWER WALLS	Ā	G00D	<5000 SQ FT	TOW
4	9	STUCCO	EXTERIOR STAIR TOWER WALLS	Ŗ	G00D	<5000 SQ FT	МОП
∢	7	STUCCO	EXTERIOR STAIR TOWER WALLS	Ā	G00D	<5000 SQ FT	MOT
			For				
	GR00052	FM00605773	773 Circum 11/4 r 1		BRANH	BRANHAM, DALE	

GR00052 License #

FM#

Signature furts

BRANHAM, DALE Requestor

Send lab results in PDF and CSV format as soon as possible to: asbestos@mailbox.sc.edu



743 Greene Street

Columbia, SC 29208

University of South Carolina

**EMSL Order:** 021904909 **Customer ID:** UNSC62 **Customer PO:** 2000041931

Project ID:

**Phone:** (803) 777-7000

**Fax:** (803) 777-3990

Received Date: 07/22/2019 10:15 AM

**Analysis Date**: 07/22/2019 **Collected Date**: 07/19/2019

Project: 080 Wardlaw College

Attention: USC Hazmat

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

	Description	Non-Asbestos			<u>Asbestos</u>
Sample		Appearance	% Fibrous	% Non-Fibrous	% Type
1	Stucco	Gray/White Non-Fibrous	<1% Cellulose	25% Quartz 20% Ca Carbonate	None Detected
021904909-0001		Homogeneous		55% Non-fibrous (Other)	
2	Stucco	Gray Non-Fibrous	<1% Cellulose	30% Quartz 20% Ca Carbonate	None Detected
021904909-0002		Homogeneous		50% Non-fibrous (Other)	
3	Stucco	Gray/White Non-Fibrous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
021904909-0003		Homogeneous			
4	Stucco	Gray Non-Fibrous	<1% Cellulose	30% Quartz 20% Ca Carbonate	None Detected
021904909-0004		Homogeneous		50% Non-fibrous (Other)	
5	Stucco	Gray Non-Fibrous	<1% Cellulose	30% Quartz 20% Ca Carbonate	None Detected
021904909-0005		Homogeneous		50% Non-fibrous (Other)	
6	Stucco	Gray/White Non-Fibrous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
021904909-0006		Homogeneous			
7	Stucco	Gray	<1% Cellulose	30% Quartz	None Detected
		Non-Fibrous		20% Ca Carbonate	
021904909-0007		Homogeneous		50% Non-fibrous (Other)	

Analyst(s)

Cameron Evans (5) Ryan Rains (2) Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 07/22/2019 17:16:39

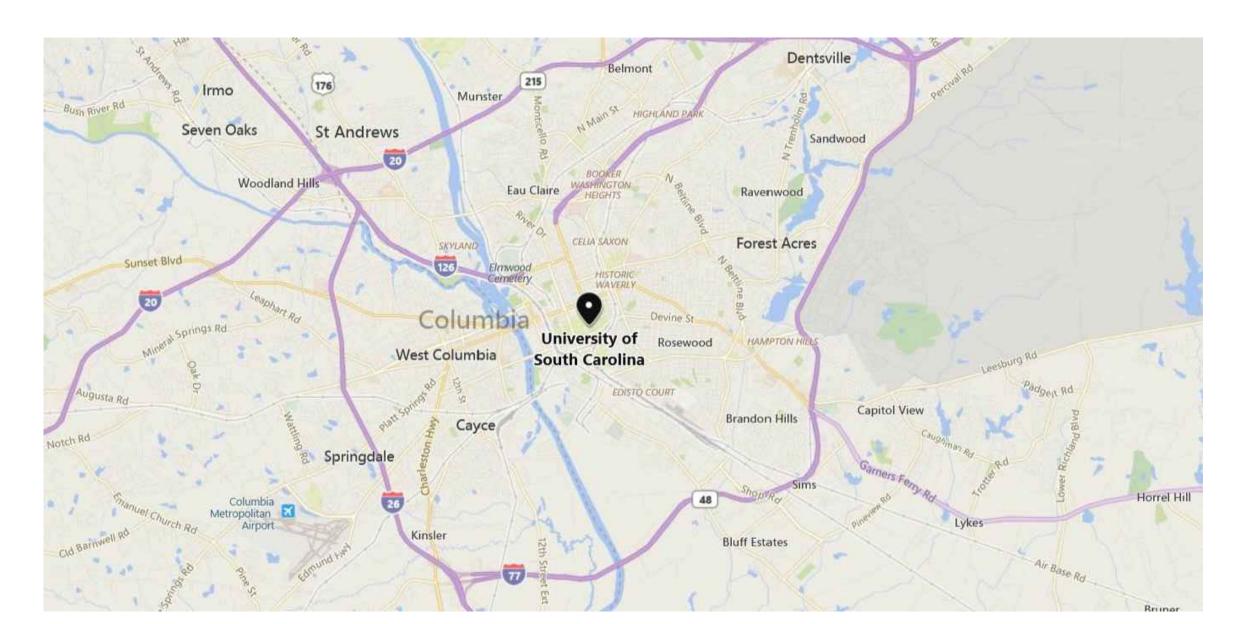


University of South Carolina

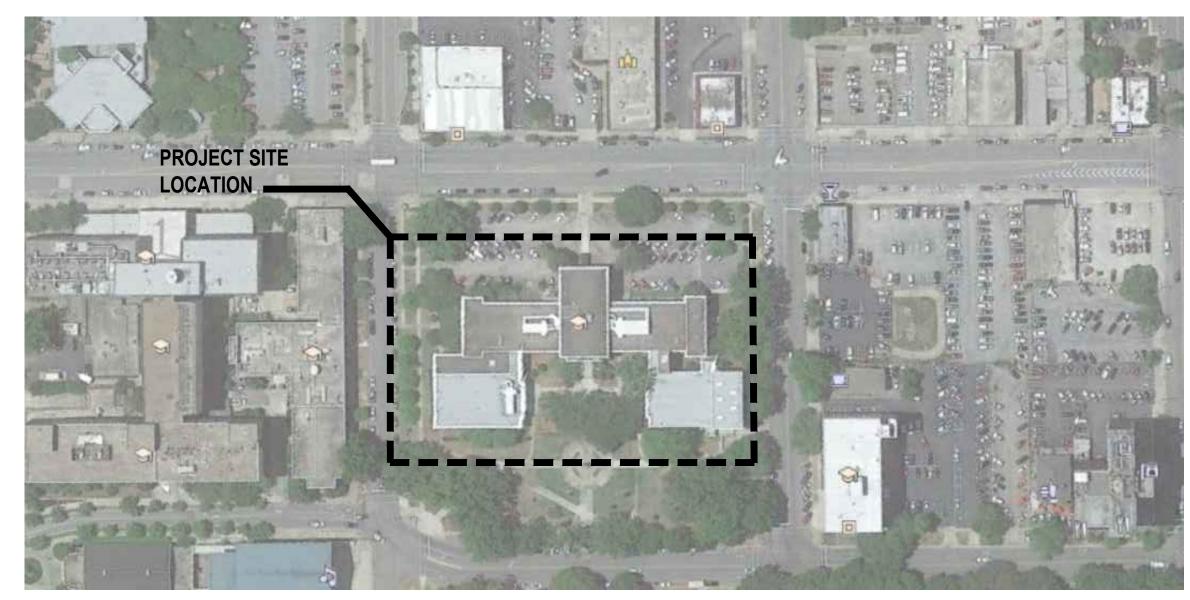
# WARDLAW COLLEGE ROOF REPLACEMENT PROJECT STATE PROJECT No.: 50003317-2

Project Address 820 SUMTER STREET COLUMBIA, SOUTH CAROLINA 29208

# **Project Location**



**VICINITY MAP** 

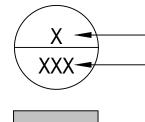


# Abbreviations

NOT TO SCALE

**TYPICAL** 

SIMILAR



CONDITIONS AND NOT IN SCOPE OF WORK

# Index of Drawings

General

**COVER SHEET** 

Architectural

A-101 ROOF PLAN

A-102 ROOF PLAN: WIND ZONES

A-502 ROOF DETAILS

A-503 ROOF DETAILS

A-504 ROOF DETAILS

A-505 ROOF DETAILS

A-506 ROOF DETAILS

A-507 ROOF DETAILS

A-508 ROOF DETAILS

A-509 ROOF DETAILS AND **SMACNA DETAILS** 

Structural (Alternate No.2)

S-100 STRUCTURAL GENERAL NOTES

S-101 ENLARGED ROOF PLAN AREA F

S-200 ELEVATIONS AND DETAILS

S-201 SECTIONS AND DETAILS

# CLIENT

UNIVERSITY of SOUTH CAROLINA 743 Greene Street Columbia, South Carolina

Mr. Dale Branham e: branhamd@fmc.sc.edu p: 803.777.1288

# **ENGINEERING CONSULTANT**

TERRACON CONSULTANTS, INC. 2701 Westport Road Charlotte, North Carolina

Mr. Stewart S. Swing, RRO, E.I. Senior Staff Engineer I Facilities e: Stewart.Swing@terracon.com p: 704.594.8905

Consulting Engineers and Scientists

Project No. FH186084 Terracon SC License No. 2220

PROJECT NAME AND ADDRESS

University of South Carolina

WARDLAW COLLEGE

ROOF REPLACEMENT PROJECT

STATE PROJECT No.: 50003317-2

ISSUE DATE:

07.03.2019

ISSUE FOR: **ISSUED FOR BIDDING** 

ADDENDUM:

ADDED WALKPAD

PROJECT TEAM: DESIGNED BY: SSS

DRAWN BY: APR REVIEWER:

TERRACON'S PROJECT NUMBER:

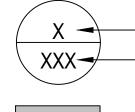
FH186084

TITLE SHEET:

**COVER SHEET** 

Terracon G-101

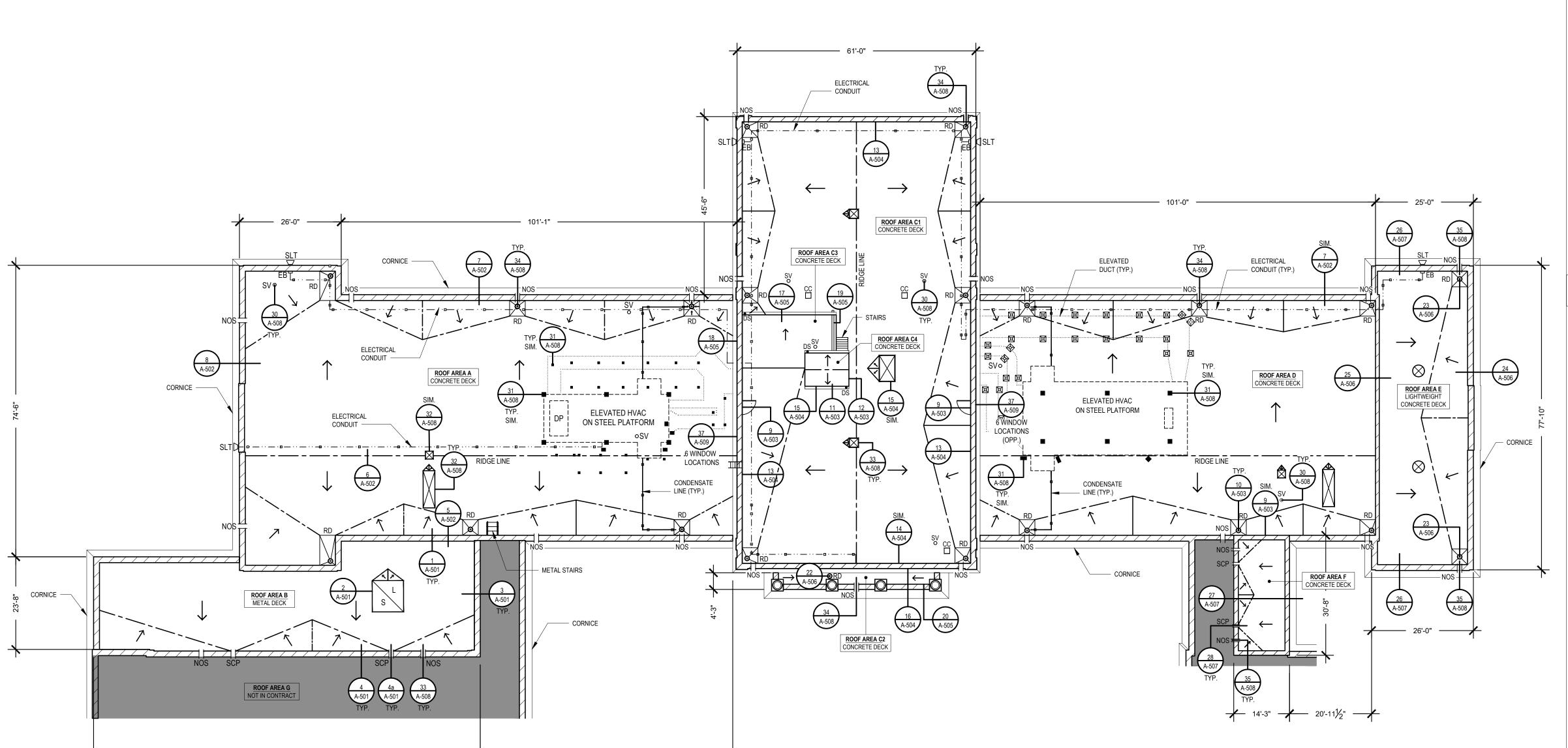
Details / Elevations / Sections Identifier



**ELEVATION / DETAIL / SECTION LABEL SHEET SHOWN ON** 

**SHADING IDENTIFIES EXISTING** 

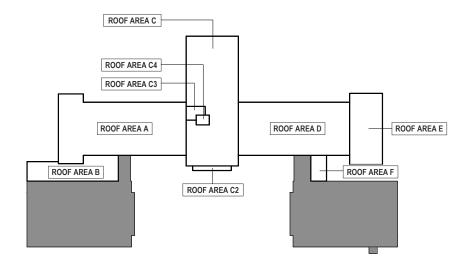
SITE LOCATION





## **KEY PLAN**

SCOPE OF WORK NOT IN SCOPE OF WORK



# **BASE BID:**

- 1. RE-ROOFING OF ROOF AREAS A, B, C1, C2, C3, C4, D, E AND F a. LOW SLOPE ROOF AREAS TO RECEIVE NEW TWO-PLY MODIFIED
  - BITUMEN ROOFING SYSTEM.
  - b. ROOF AREA C2 TO RECEIVE LIQUID PMMA ROOFING SYSTEM.
- 2. COATING OF VENTS (BIRDHOUSES) AT ROOF AREAS A, C, AND D.
- 3. WALL PANEL INSTALLATION AT AREAS A, C, D, AND E.
- 4. SEALANT INSTALLATION AT WINDOW PERIMETER.
- MISCELLANEOUS WORK INCLUDES, BUT IS NOT LIMITED TO, THE INSTALLATION OF EDGE METAL, COPING, NEW OVERFLOW SCUPPERS, RETROFIT ROOF DRAINS, GUTTERS, DOORS, DOWNSPOUTS, AND FLASHING.
- REMOVE AND REPLACE STUCCO (TO MATCH EXISTING) AT ROOF AREA F.

# **LEGEND**

----- TAPERED INSULATION

TAPERED SLOPE DIRECTION

STRUCTURAL SLOPE

SANITARY VENT

**EQUIPMENT UNIT** PARAPET WALL/CORNICE

**ELEVATED DUCT** 

SCP =

**EQUIPMENT SUPPORT** 

**VENTILATOR** 

COVERED CURB

SECURITY LIGHT ELECTRICAL BOX

NEW OVERFLOW SCUPPER

GUTTER/DOWNSPOUT

DUCT SUPPORT PEDESTAL

DETAIL FLAG No. # NOT IN CONTRACT

# **CONSTRUCTION NOTES**

- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
- ELECTRICAL CONDUITS, BOXES, OUTLET AND CABLES MAY REQUIR POWER TO BE DISCONNECTED PRIOR TO PERFORMING THE WORK. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO REMOVAL
- ABANDONED EQUIPMENT TRUSSES AND POURABLE SEALER SHOUL BE REMOVED AND DISCARDED.
- RAISE ALL CURBS TO ACHIEVE AN 8" MINIMUM FLASHING HEIGHT.
- CLEAN, PRIME AND PAINT BIRD HOUSES AT ROOF AREAS A, C AND [
- STAIRS AT ROOF AREA C3 WILL NEED TO BE REMOVED AND REINSTALLED ONCE NEW ROOF INSTALLATION IS COMPLETED.
- ALL EQUIPMENT SUPPORTS AND PIPE PENETRATIONS ARE TO BE LIQUID FLASHED.
- EXISTING DRAIN INSERTS WILL NEED TO BE REMOVED AT ALL DRAINS TO ALLOW FOR NEW RETRO-FIT INSERT.
- MECHANICAL UNIT STRUTS THAT ARE ATTACHED TO PARAPET WALL WILL NEED TO BE REMOVED, STORED AND REINSTALLED ONCE NEW ROOFING IS COMPLETED. STRUTS TO BE FLASHED WITH NEW LIQUID APPLIED FLASHING.
- (10.) NEW CONCRETE PAD AND DOORS TO BE INSTALLED AT ROOF AREAS A AND D.
- (11) BASE FLASHING HEIGHTS WILL VARY AT SECTIONS WHERE WALL METAL PANELS ARE TO HAVE CONSISTENT HEIGHT.
- (12.) ROOF AREA C2 WILL NEED CONCRETE REPAIR WORK AT WALLS TO COMPLETE NEW ROOFING INSTALLATION.
- (13) PULL TEST AT LIGHTWEIGHT CONCRETE DECK SHOULD BE CONDUCTED PRIOR TO NEW ROOFING INSTALLATION.
- (14.) CRICKETS SHOULD BE INSTALLED AT ALL CURBS THAT EXCEED 24" INCHES IN WIDTH.
- (15.) CONTRACTOR TO REMOVE AND INSTALL NEW COPING CAP AT ROOF AREA G TO ACCOMMODATE NEW PARAPET WALL HEIGHT AT ROOF
- (16.) PROVIDE SUPPORTS FOR ALL CONDUIT, PIPES, AND CONDENSATION LINES. ALL SUPPORTS SHOULD BE SET ON WALKPADS.
- (17.) ON ANY ROOF AREA THAT A DOWNSPOUT IS TO BE INSTALLED, THE DOWNSPOUT SHOULD EXTEND TO THE NEAREST ROOF DRAIN AND BE SUPPORTED. SUPPORTS SHOULD BE INSTALLED OVER WALK

# **ALTERNATE No.1:** (TYPICAL ON ALL SHEETS)

INSTALL ROOFING SYSTEM UTILIZING ADHESIVE, AND COLD APPLIED - ADHESIVE IN LIEU OF HOT-APPLIED ASPHALT.

2701 Westport Road Charlotte, North Carolina p: 704.509.1777 Project No. FH186084 Terracon SC License No. 2220

terracon.com

ENGINEER STATE LICENSE SEAL

PROJECT NAME AND ADDRESS:

COLLEGE ENT PROJECT No.: 50003317-2 REPLACEMENT .: 8

ROOF REPLACEM STATE PROJECT N

ISSUE DATE:

WARDL

07.03.2019

ISSUE FOR:

**ISSUED FOR BIDDING** 

ADDENDUM: DESCRIPTION:

ADDED WALKPAD 7/23/19

PROJECT TEAM: DESIGNED BY: SSS

EGM II APR REVIEWER: LTH

TERRACON'S PROJECT NUMBER:

FH186084

TITLE SHEET:

**ROOF PLAN** 

SHEET NUMBER:

