ADDENDUM NO. 1

DATE: July 17, 2019

TO: All Potential Bidders

FROM: Penny Owens, Assistant Purchasing Agent, City of Knoxville

SUBJECT: Addendum No. 1 – Milton Roberts Recreation Center Roof Replacement

BIDS TO BE OPENED: July 23, 2019, at 11:00:00 a.m. (Eastern Time)

This addendum is being published to provide additional information for bidders and becomes a part of the Contract Document and modifies the original specifications as noted.

Attached with this addendum is the Roof Sampling Report from Quantum Environmental & Engineering Services regarding the presence of asbestos containing materials. Also attached is the preliminary Existing Roof Plan which indicates the findings from the core tests of the roof.



March 21, 2019

Shawn Fitzpatrick, P.E.
City of Knoxville, Engineering Department
3131 Morris Avenue
Knoxville, TN 37909

Subject:

Roof Sampling Report

Milton Roberts Recreation Center, 5900 Asheville Highway, Knoxville, Tennessee

Dear Mr. Fitzpatrick:

On March 15, 2019, Quantum Environmental & Engineering Services, LLC (QE2) performed a sampling event at the City of Knoxville's Milton Roberts Recreation Center on Asheville Highway in Knoxville, Tennessee. The sampling was performed in support of a future roof replacement project at the site.

The Milton Roberts Recreation Center is steel-framed on a concrete slab, with a brick and concrete façade and a flat roof. The building includes multi-purpose rooms, restrooms, a kitchen, offices, storage rooms, and a gymnasium. The current sampling event included only the roof of the building. Photographs are provided in Attachment 1.

Suspect asbestos-containing materials (ACMs) on the roof were inspected and three homogeneous areas (HAs) were identified and documented. Materials identified included two types of tar-like sealants, and the layered roofing components. The layered flat components included sheet shingle, felt papers, and fiber board insulation over a wood base. The materials were logged and three representative samples were collected. Bulk samples were submitted to SanAir Technologies Laboratory (SanAir) in Powhatan, Virginia, for analysis by Polarized Light Microscopy (PLM). Six analyses were performed since the layered roofing materials sample contained four layers. The laboratory report with sample chain-of-custody is included as Attachment 2.

The analytical results indicated that no asbestos was detected in any component of any sample. The results for samples collected from the Milton Roberts Recreation Center are provided in Table 1. Laboratory data sheets and chain of custody forms are provided as Attachment 2.

Table 1
Laboratory Results of Asbestos Sampling
Milton Roberts Recreation Center Roof, Knoxville

Sample #s	Sample Description & Location	Asbestos Content		
MB-1	Black tar-like roof sealant / Gym roof	ND		
MB-2	White rubberized roof sealant / Gym roof	ND		
MB-3	Flat, layered roofing materials (multiple layers – shingle, tar papers, fiber board insulation) / Gym roof	Black felt – ND Brown shingle – ND Black felt – ND Brown fiber - ND		

MB = Milton Roberts Recreation Center

ND = None Detected

Other suspect materials could potentially be uncovered during the roof replacement work. If other potentially impacted suspect materials are encountered, they should be sampled to confirm or deny asbestos content.

QE2 appreciates this opportunity to conduct this work for the City of Knoxville. Please contact me at (865) 689-1395 if you have any other comments, questions, or concerns.

Sincerely,

Terence Davis, P.G.

Senior Environmental Specialist

TuenceDar

c: QE2 File: 501418

ATTACHMENT 1

PHOTOGRAPHS



Milton Roberts Recreation Center – two photos





Gym roof



Roof over front area



Flat roof layers



Sample of roof profile

ATTACHMENT 2 LABORATORY REPORTS AND CHAIN-OF-CUSTODY



The Identification Specialists

Analysis Report prepared for Quantum Environmental & Engineering Services, LLC

Report Date: 3/20/2019

Project Name: Milton Roberts Rec Center

Project #: 501418

SanAir ID#: 19012276

TESTING TESTING

NVLAP LAB CODE 200870-0

1551 Oakbridge Dr. Suite B | Powhatan, Virginia 23139-8061 888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number 19012276 FINAL REPORT 3/20/2019 3:56:50 PM

Name: Quantum Environmental & Engineering Services,

Address: LLC

126 Dante Road

Knoxville, TN 37918

Phone: 865-689-1395

Project Number: 501418

P.O. Number:

Project Name: Milton Roberts Rec Center

Collected Date: 3/15/2019

Received Date: 3/18/2019 8:45:00 AM

Dear Terry Davis,

We at SanAir would like to thank you for the work you recently submitted. The 3 sample(s) were received on Monday, March 18, 2019 via FedEx. The final report(s) is enclosed for the following sample(s): MB-1, MB-2, MB-3.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino

Asbestos & Materials Laboratory Manager

Sandra Sobiino

SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 3 samples in Good condition.



SanAir ID Number 19012276 FINAL REPORT 3/20/2019 3:56:50 PM

Name: Quantum Environmental & Engineering Services,

Address: LLC

126 Dante Road Knoxville, TN 37918

Phone: 865-689-1395

Project Number: 501418

P.O. Number:

Project Name: Milton Roberts Rec Center

Collected Date: 3/15/2019

Received Date: 3/18/2019 8:45:00 AM

Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Com	Components				
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers			
MB-1 / 19012276-001 Tar Roof Sealant/ Gym Roof	Black Non-Fibrous Heterogeneous		100% Other	None Detected			
MB-2 / 19012276-002 Roof Sealant/ Gym Roof	White Non-Fibrous Heterogeneous		100% Other	None Detected			
MB-3 / 19012276-003 Built-Up Roofing Materials (Several Layers)/ Gym Roof, Roofing	Black Non-Fibrous Heterogeneous	40% Cellulose	60% Other	None Detected			
MB-3 / 19012276-003 Built-Up Roofing Materials (Several Layers)/ Gym Roof, Roofing	Brown Non-Fibrous Heterogeneous	40% Cellulose	60% Other	None Detected			
MB-3 / 19012276-003 Built-Up Roofing Materials (Several Layers)/ Gym Roof, Felt Paper	Black Fibrous Heterogeneous	85% Cellulose	15% Other	None Detected			
MB-3 / 19012276-003 Built-Up Roofing Materials (Several Layers)/ Gym Roof, Insulation	Brown Fibrous Heterogeneous	95% Cellulose	5% Other	None Detected			

Analyst:

Northern Dicuple Approved Signatory:

Analysis Date:

3/20/2019

Date:

3/20/2019

Disclaimer

The final report cannot be reproduced, except in full, without written authorization from SanAir. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample and information provided by the client. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Samples are held for a period of 60 days.

For NY state samples, method EPA 600/M4-82-020 is performed.

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications NVLAP lab code 200870 City of Philadelphia: ALL-460

PA Department of Environmental Protection Number: 68-05397

California License Number: 2915 Colorado License Number: AL-23143 Connecticut License Number: PH-0105 Massachusetts License Number: AA000222

Maine License Number: LB-0075 New York ELAP lab ID: 11983

Rhode Island License Number: AAL-126

Texas Department of State Health Services License Number: 300440

Commonwealth of Virginia 3333000323 Washington State License Number: C989 West Virginia License Number: LT000566

Vermont License: AL166318

Revision Date: 11/30/2017

SanAir Technologies Laboratory, Inc. 1551 Oakbridge Drive, Suite B - Powhatan, VA 23139

804.897.1177 / 888.895.1177 / Fax 804.897.0070

Asbestos **Chain of Custody**

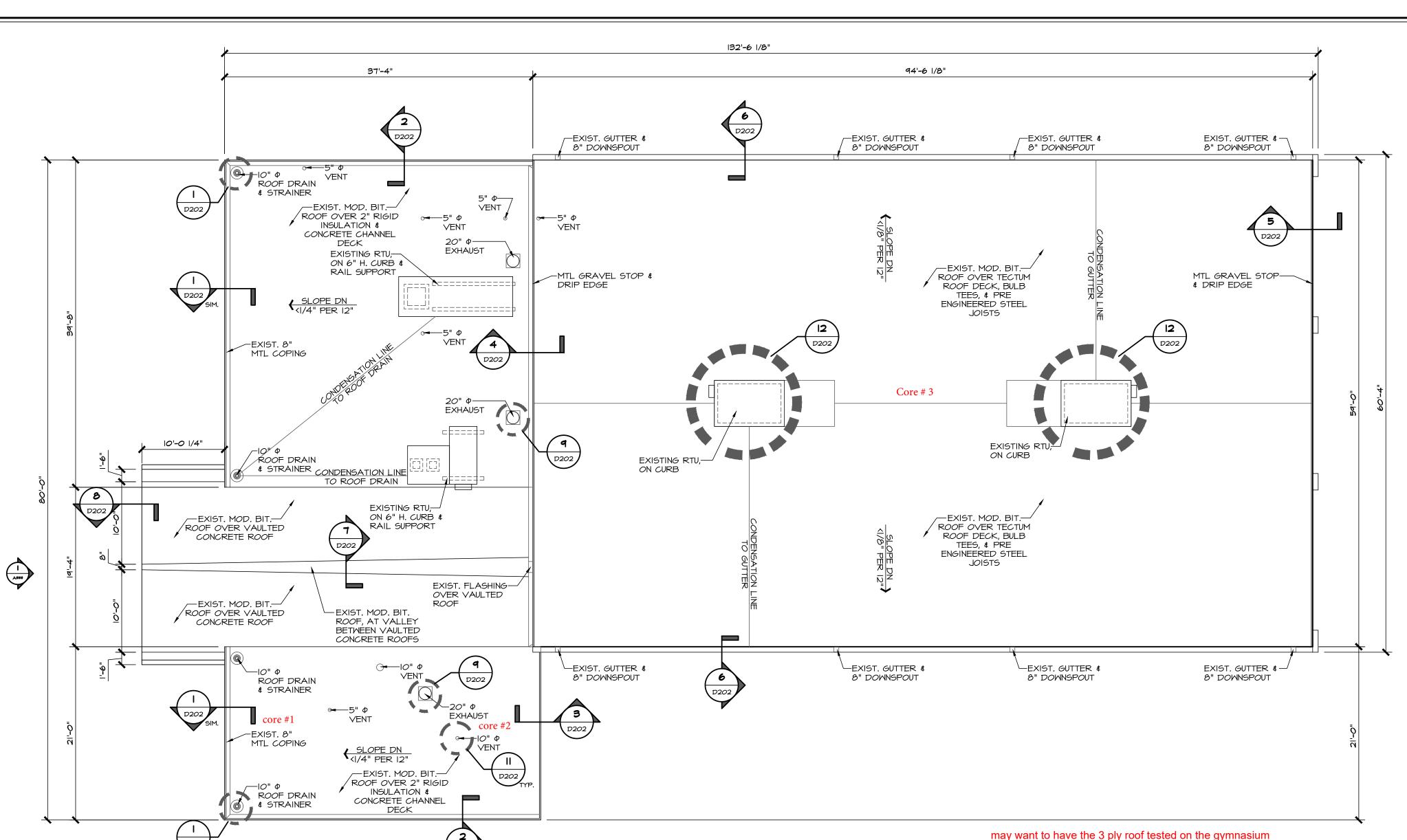
SanAir ID Number 19012276

WWW.Sunan.com			
Company Quantum Environmental & Engine	ering, LLC Project # 501418	Phone #	365-689-1395
Address: 126 Dante Road	Project Name: Milton Roberts Rec	Center Phone #: 8	365-607-0210
City, St., Zip Knoxville, TN 37918	Date Collected 3/15/2019	Fax #: 8	365-689-6844
Samples Collected By TLD	P O Number	Email. t	davis@qe2llc.com

	Bulk		A	sbest Air		alysis Types		Soil/Verm	iculite			
ABB	PLM EPA 60	00/R-93/116	1	ABA	P	CM NIOSH 7400		ABSE	PLM EPA 60	00/R-93/11	6 (Qual.)	
	Positive Stop					PLM CARB	PLM CARB 435 (LOD < 1%)					
ABEPA	PLM EPA 400 Point Count			ABTE	EM T	EM AHERA		ABSP1	PLM CARB 435 (LOD 0.25%)			
ABB1K	PLM EPA 10	000 Point Count		ABA	TN T	EM NIOSH 7402		ABSP2	PLM CARB	T		
ABBEN	PLM EPA NOB			ABT2	2 T	EM Level II	T	i				
ABBCH	TEM Chatfield			1								
ABBTM	TEM EPA NOB		F	i	W	ater			Dust			
ABBNY	TEM NY ELAP 198.4		F	ABHE EPA 100.2			ABWA	TEM Wipe ASTM D-6480				
OTHER/ Matrix :								ABDMV	TEM Microvae ASTM D-5755			
Turn Around 3 HR (4 HI		IR TEM	1)	<u></u>	HR (8HR TEM)		☐ 12 HR		24 HR			
	Times	2 D	ays 🗸	3 Days			4 Days		5 Days			
			ple Identification/Location				Volume or Area	Sample Type	Flow Rate*	Tim Start -		
MB-1 black tar roof s				ealant / Gym roof				bulk				
MB-2		white roof se	alant	/ Gyr	n roof				bulk			
MB-3				materials (several layers) / Gym roof			oof		bulk			
			-									
			_	_	_		+					
			_				+					
							+					
							_					
							_					
Special In	structions	2-Day TAT - Thank	(s!									
	ished by	Date		Ti	me	Receive	d by	1440	Date		Time	
Terence Da	vis3/	15/2019	163	0		196		MEGA	2019	6	7717	

Unless scheduled, the turn around time for all samples received after 5 pm Friday will begin at 8 am Monday morning. Weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time.

Work with standard turn around time sent Priority Overnight and Billed To Recipient will be charged a \$10 shipping fee.



ASBESTOS NOTES

- I. IF ASBESTOS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR IS HEREBY CAUTIONED THAT THE CUTTING AND/OR REMOVAL OF THIS MATERIAL MAY REQUIRE SPECIAL CARE AND HANDLING. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT & OWNER IMMEDIATELY. IF ASBESTOS ABATEMENT IS REQUIRED BY GOVERNMENT AUTHORITIES, THE OWNER SHALL PAY THE ADDITIONAL COST, OR SHALL REMOVE THE MATERIAL UNDER A SEPARATE CONTRACT.
- 2. IT IS THE INTENT OF THE ARCHITECT AND THE OWNER THAT ALL BUILDING MATERIALS USED IN AND DURING CONSTRUCTION SHALL BE FREE OF ASBESTOS, SHOULD MATERIAL SPECIFIED BE FOUND TO CONTAIN ASBESTOS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY SO THAT AN ALTERNATE MAY BE SPECIFIED.
- 3. DOLLAR & EMERS ARCHITECTURE, INC. IS NOT INVOLVED IN THE ABATEMENT OR REMOVAL OF ASBESTOS MATERIAL OR THE SPECIFICATION OF THEIR HANDLING.

CODE ANALYSIS

APPLICABLE CODES:

Core Cuts:

#1 - Concrete Deck, 1.5" Flat EPS insulation, 1/2" wood fiber, modified base and cap sheet

#2 - Concrete Deck, 1.5" Flat EPS insulation, 1/2" wood fiber, modified base and cap sheet

#3 - Tectum Deck, 1/2" wood fiber, 3 ply built-up roof system, 1/2" wood fiber, modified base and cap sheet

CITY OF KNOXVILLE ZONING ORDINANCE W/ LOCAL AMENDMENTS

- 2009 ICC/ANSI AII7.I
 2018 INTERNATIONAL ENERGY CONSERVATION CODE W/ LOCAL AMENDMENTS 301.3
 2018 INTERNATIONAL BUILDING CODE W/ LOCAL AMENDMENTS
 2018 INTERNATIONAL EXISTING BUILDING CODE W/ LOCAL AMENDMENTS
- 2018 INTERNATIONAL PERFORMANCE CODE W/ LOCAL AMENDMENTS
 2011 NATIONAL ELECTRICAL CODE W/ LOCAL AMENDMENTS
 2018 INTERNATIONAL FUEL GAS CODE W/ LOCAL AMENDMENTS
 2018 INTERNATIONAL MECHANICAL CODE W/ LOCAL AMENDMENTS
- 2018 INTERNATIONAL PLUMBING CODE W/ LOCAL AMENDMENTS
 2018 INTERNATIONAL PROPERTY MAINTENANCE CODE
 KNOXVILLE CODE OF ORDINANCES: CHAPTER 6 BUILDING SN BUILDING REGULATIONS, ARTICLE I, SECTION 6-5, FIRE DISTRICT

• 2018 INTERNATIONAL FIRE CODE W/ LOCAL AMENDMENTS

ZONING:

EXISTING BUILDING: MILTON E ROBERTS RECREATION CENTER

ADDRESS: 5900 ASHEVILLE HWY, KNOXVILLE, TN 37924

ZONE: OS-2 PARKS & OPEN SPACE DISTRICT

OCCUPANCY: ASSEMBLY - 3

TYPE OF CONSTRUCTION: TYPE II-B

SPRINKLERED: NON-SPRINKLERED

BUILDING AREA: 8550 SF EXISTING

RISK CATEGORY: III
SEISMIC DESIGN CATEGORY: C

2018 INTERNATIONAL EXISTING BUILDING CODE:

CH 3 PROVISIONS FOR ALL COMPLIANCE METHODS

THE ALTERATION, ADDITION, OR CHANGE OF OCCUPANCY OF ALL EXISTING BUILDINGS SHALL COMPLY WITH ONE OF THE METHODS LISTED IN SECTION 301.3.1, 301.3.2, 301.3.3 AS SELECTED BY THE APPLICANT. SECTIONS 301.3.1 THROUGH 301.3.3 SHALL NOT BE APPLIED IN COMBINATION WITH EACH OTHER.

* EXCEPTION SUBJECT TO THE APPROVAL OF THE CODE OFFICIAL,
ALTERATIONS COMPLYING WITH THE LAWS IN EXISTENCE
AT THE TIME THE BUILDING OR THE AFFECTED PORTION
OF THE BUILDING WAS BUILT SHALL BE CONSIDERED IN

COMPLIANCE WITH THE PROVISIONS OF THIS CODE.

301.3.1 PRESCRIPTIVE COMPLIANCE METHOD (USED)

ALTERATIONS, ADDITIONS AND CHANGES OF OCCUPANCY COMPLYING WITH CHAPTER 5 OF THIS CODE IN BUILDING

COMPLYING WITH THE INTERNATIONAL FIRE CODE SHALL BE

CONSIDERED IN COMPLIANCE WITH THE PROVISIONS OF THIS

CODE. 302.3 ADDITIONAL CODES

ALTERATIONS, REPAIRS, ADDITIONS AND CHANGES OF OCCUPANCY TO, OR RELOCATION OF, EXISTING BUILDINGS AND STRUCTURES SHALL COMPLY WITH THE PROVISIONS FOR ALTERATIONS, REPAIRS, ADDITIONS 303.I AND CHANGES OF OCCUPANCY OR RELOCATION, RESPECTIVELY, IN THIS CODE AND THE INTERNATIONAL ENERGY CONSERVATION CODE, INTERNATIONAL FIRE CODE, INTERNATIONAL FUEL GAS CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL PLUMBING CODE, INTERNATIONAL PROPERTY MAINTENANCE CODE, INTERNATIONAL RESIDENTIAL CODE AND NFPA TO. WHERE PROVISIONS OF THE OTHER CODES CONFLICT WITH PROVISIONS OF THIS CODE, THE PROVISIONS OF THIS CODE SHALL TAKE PRECEDENCE.

302.4 EXISTING MATERIALS

MATERIALS ALREADY IN USE IN A BUILDING IN COMPLIANCE WITH REQUIREMENTS OR APPROVALS IN EFFECT AT THE TIME OF THEIR ERECTION OR INSTALLATION SHALL BE PERMITTED TO REMAIN IN USE UNLESS DETERMINED BY THE BUILDING OFFICIAL TO BE UNSAFE.

302.5 NEW AND REPLACEMENT MATERIALS

GENERAL DEMOLITION PLAN NOTES:

DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND SAFE

DISPOSAL OF ALL MATERIALS AND DEBRIS FROM DEMOLITION ON THIS SITE.

2. DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE AND

3. DEMOLITION CONTRACTOR SHALL PROVIDE BARRIERS TO KEEP PEDESTRIANS AND

4. DEMOLITION CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL

CODES AND REGULATIONS REGARDING DEMOLITION, MATERIALS AND SAFETY.

5. THIS PLAN INDICATES THE GENERAL LOCATION OF MATERIAL TO BE REMOVED. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE

6. REFER TO ASBESTOS NOTES REGARDING CONTRACTORS RESPONSIBILITY.

HAZARD-FREE CONDITIONS AT ALL TIMES DURING DEMOLITION.

SHOPPING CENTER CUSTOMERS AWAY FROM DEMOLITION WORK.

ALL TRADES AND TO VERIFY THE EXTENT OF DEMOLITION.

EXCEPT AS OTHERWISE REQUIRED OR PERMITTED BY THIS CODE, MATERIALS PERMITTED BY THE APPLICABLE CODE FOR NEW CONSTRUCTION SHALL BE USED. LIKE MATERIALS SHALL BE PERMITTED FOR REPAIRS AND ALTERATIONS, PROVIDED THAT UNSAFE CONDITIONS ARE NOT CREATED. HAZARDOUS MATERIALS SHALL NOT BE USED WHERE THE CODE FOR NEW CONSTRUCTION WOULD NOT PERMIT THEIR USE IN BUILDINGS OF SIMILAR OCCUPANCY, PURPOSE AND LOCATION.

[BS] 302.5.1 NEW STRUCTURAL MEMBERS AND CONNECTIONS

NEW STRUCTURAL MEMBERS AND CONNECTIONS SHALL COMPLY WITH THE DETAILING PROVISIONS OF THE INTERNATIONAL BUILDING CODE FOR NEW BUILDINGS OF SIMILAR STRUCTURE, PURPOSE AND LOCATION.

EXCEPTION: WHERE ALTERNATIVE DESIGN CRITERIA ARE SPECIFICALLY PERMITTED.

STRUCTURAL DESIGN LOADS AND EVALUATION AND DESIGN PROCEDURES

LIVE LOADS

WHERE AN ADDITION OR ALTERATION DOES NOT RESULT IN INCREASED DESIGN LIVE LOAD, EXISTING GRAVITY LOAD-CARRYING STRUCTURAL ELEMENTS SHALL BE PERMITTED TO BE EVALUATED AND DESIGNED FOR LIVE LOADS APPROVED PRIOR TO THE ADDITION OR ALTERATION. IF THE APPROVED LIVE LOAD IS LESS THAN THAT REQUIRED BY SECTION 1607 OF THE INTERNATIONAL BUILDING CODE, THE AREA DESIGNATED FOR THE NONCONFORMING LIVE LOAD SHALL BE POSTED WITH PLACARDS OF APPROVED DESIGN INDICATING THE APPROVED LIVE LOAD, WHERE THE ADDITION OR ALTERATION RESULTS IN INCREASED DESIGN LIVE LOAD, THE LIVE LOAD REQUIRED BY SECTION 1607 OF THE INTERNATIONAL BUILDING CODE SHALL BE USED.

CH 5 PRESCRIPTIVE COMPLIANCE METHOD

503 ALTERATIONS
503.I GENERAL

EXCEPT AS PROVIDED BY SECTION 302.4, 302.5 OR THIS SECTION, ALTERATIONS TO ANY BUILDING OR STRUCTURE SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE FOR NEW CONSTRUCTION. ALTERATIONS SHALL BE SUCH THAT THE EXISTING BUILDING OR STRUCTURE IS NOT LESS COMPLYING WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE THAN THE EXISTING BUILDING OR STRUCTURE WAS PRIOR TO THE ALTERATION.

503.3 EXISTING STRUCTURAL ELEMENTS CARRYING GRAVITY LOADS

ANY EXISTING GRAVITY LOAD-CARRYING STRUCTURAL ELEMENT FOR WHICH AN ALTERATION CAUSES AN INCREASE IN DESIGN DEAD, LIVE OR SNOW LOAD, INCLUDING SNOW DRIFT EFFECTS, OF MORE THAN 5 PERCENT SHALL BE REPLACED OR ALTERED AS NEEDED TO CARRY THE GRAVITY LOADS REQUIRED BY THE INTERNATIONAL BUILDING CODE FOR NEW STRUCTURES. ANY EXISTING GRAVITY LOAD-CARRYING STRUCTURAL ELEMENT WHOSE GRAVITY LOAD-CARRYING CAPACITY IS DECREASED AS PART OF THE ALTERATION SHALL BE SHOWN TO HAVE THE CAPACITY TO RESIST THE APPLICABLE DESIGN DEAD, LIVE AND SNOW LOADS INCLUDING SNOW DRIFT EFFECTS REQUIRED BY THE INTERNATIONAL BUILDING CODE FOR NEW STRUCTURES.

503.7 ANCHORAGE FOR CONCRETE AND REINFORCED MASONRY WALLS

WHERE THE WORK AREA EXCEEDS 50 PERCENT OF THE BUILDING AREA, THE BUILDING IS ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F AND THE BUILDING'S STRUCTURAL SYSTEM INCLUDES CONCRETE OR REINFORCED MASONRY WALLS WITH A FLEXIBLE ROOF DIAPHRAGM, THE ALTERATION WORK SHALL INCLUDE INSTALLATION OF WALL ANCHORS AT THE ROOF LINE, UNLESS AN EVALUATION DEMONSTRATES COMPLIANCE OF EXISTING WALL ANCHORAGE. USE OF REDUCED SEISMIC FORCES SHALL BE PERMITTED.

DOLLAR &EWERS

ARCHITECTURE, INC.

111 E. Jackson Avenue • Suite 101 Knoxville, Tennessee • 37915 phone: 865-546-9374 • fax: 865-673-9028 e - mail: design@dollar-ewers.com



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SHEVILLE HWY, KNOXVILLE, TN

C O P Y R I G H T

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ISSUE DATE:

SHEET NUMBER:

DECEMBER 14, 2018
PROJECT NO.:

D201

218176