Capstone Flooring Renovation Project
Columbia, South Carolina
University Project Number H27-Z384

April 2, 2019

ADDENDUM No. 3

This addendum forms a part of the Contract documents and modifies the original Bidding Documents and any previous Addenda as noted below. Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may subject Bidder to disqualification. Addendum, excluding full-size drawings, shall be printed in color.

MODIFICATIONS TO PREVIOUS ADDENDA:

1. None.

MODIFICATIONS TO DRAWINGS:

1. Reference Sheet T1.1, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet T1.1, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to INDEX OF DRAWINGS
    b. Clarifications to GENERAL NOTES

2. Reference Sheet ID0.0, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID0.0, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to HAZMAT Scope of Work
    b. Clarifications to General Contractor Scope of Work

3. Reference Sheet ID0.1, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID0.1, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to HAZMAT Scope of Work
    b. Clarifications to General Contractor Scope of Work
    c. Clarifications of extents of Work

4. Reference Sheet ID0.2, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID0.2, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to HAZMAT Scope of Work
    b. Clarifications to General Contractor Scope of Work

5. Reference Sheet ID0.3, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID0.3, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to HAZMAT Scope of Work
    b. Clarifications to General Contractor Scope of Work

6. Reference Sheet ID0.4, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID0.4, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to HAZMAT Scope of Work

b. Clarifications to General Contractor Scope of Work

7. Reference Sheet ID0.5, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID0.5, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to HAZMAT Scope of Work
    b. Clarifications to General Contractor Scope of Work

8. Reference Sheet ID0.6, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID0.6, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to HAZMAT Scope of Work
    b. Clarifications to General Contractor Scope of Work

9. Reference Sheet ID2.0, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID2.0, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to FINISH LEGEND

10. Reference Sheet ID2.1, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID2.1, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to FINISH LEGEND
    b. Clarifications to Finish Extent Details

11. Reference Sheet ID2.2, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID2.2, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to FINISH LEGEND
    b. Clarifications to NOTES

12. Reference Sheet ID2.3, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID2.3, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to FINISH LEGEND
    b. Clarifications to NOTES

13. Reference Sheet ID2.4, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID2.4, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to FINISH LEGEND
    b. Clarifications to NOTES

14. Reference Sheet ID3.0A, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID3.0A, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to DETAILS

15. Reference Sheet ID3.1, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID3.1, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to FINISH PATTERN EXTENTS
    b. Clarifications to NOTES

16. Reference Sheet ID3.1A, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID3.1A, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to FINISH PATTERN EXTENTS
    b. Clarifications to NOTES

17. Reference Sheet ID3.1B, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID3.1B, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to DETAILS
    b. Clarifications to SHEET NAME

18. Reference Sheet ID3.2, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet ID3.2, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to SHEET NAME

19. Reference Sheet F1.0, dated 02-27-2019: DELETE Sheet and ADD in its place Sheet F1.0, dated 02-27-2019, revised 04-02-19, attached.
    a. Clarifications to FINISH LEGEND: BASIS OF DESIGN
    b. Clarifications to NOTES

MODIFCATIONS TO PROJECT MANUAL:

1. Reference SECTION 011000- SUMMARY. DELETE SECTION 011000- SUMMARY and ADD in its place SECTION 011000- SUMMARY, pages 1-7, inclusive, attached.

2. Reference SECTION 093013- CERAMIC TILING. DELETE SECTION 093013- CERAMIC TILING and ADD in its place SECTION 093013- CERAMIC TILING, pages 1-10, inclusive, attached.

3. Reference SECTION 096513- RESILIENT BASE AND ACCESSORIES. DELETE SECTION 096513- RESILIENT BASE AND ACCESSORIES and ADD in its place SECTION 096513- RESILIENT BASE AND ACCESSORIES, pages 1-6, inclusive, attached.

QUESTIONS:

1. Is there a limit on how many floors can be worked on at the same time?
    a. See MODIFICATIONS TO PROJECT MANUAL, this Addendum.

2. Regarding the size indicated for PTB-2, Finish Legend, Sheet F1.0 and page 093013-5, paragraph 1.3 C.1 of specifications. Please clarify the size listed? I was unable to verify 6”x24” available size for Milestone, Galaxy.
    a. See MODIFICATIONS TO PROJECT MANUAL, this Addendum.

3. On ID2.2 and ID 2.3, the notes say that CPT 11 is to be used in Kitchen/Trash X27. On ID 2.4, it appears that Kitchen/Trash room # 1729 and calls for CPT 10. Please clarify.
    a. See MODIFICATIONS TO DRAWINGS, this Addendum.

4. In Suite 103, is CPT 4 to be used in 103A, 103B, 103C and 103D?
    a. See MODIFICATIONS TO DRAWINGS, this Addendum.

5. In lobby 108 and 110, Should the extent of CPT 2, match the diagram on sheet ID3.1?
    a. See MODIFICATIONS TO DRAWINGS, this Addendum.

6. Should CPT 2 be recessed in field tiles and Schluter Reno TK Satin Nickel be used at border in lobbies 108 and 110?
    a. See MODIFICATIONS TO PROJECT MANUAL, this Addendum.
    b. See MODIFICATIONS TO DRAWINGS, this Addendum.

7. How should the LVT be installed to existing toilets and tubs? Cut tight as possible and caulk?
    a. See MODIFICATIONS TO DRAWINGS, this Addendum.

OTHER:

1. None.

END OF ADDEDNDUM NO. 3

CAPSTONE FLOORING RENOVATION PROJECT

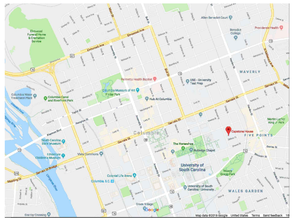
902 BARNWELL STREET
COLUMBIA, SOUTH CAROLINA

PROJECT NO. H27-Z384

USC HOUSING PROJECT: CAPSTONE FLOORING 2019

100% BID DOCUMENTS
FEBRUARY 27, 2019

LOCATION MAP



DOWNTOWN COLUMBIA, SC

PROJECT SUMMARY OF WORK

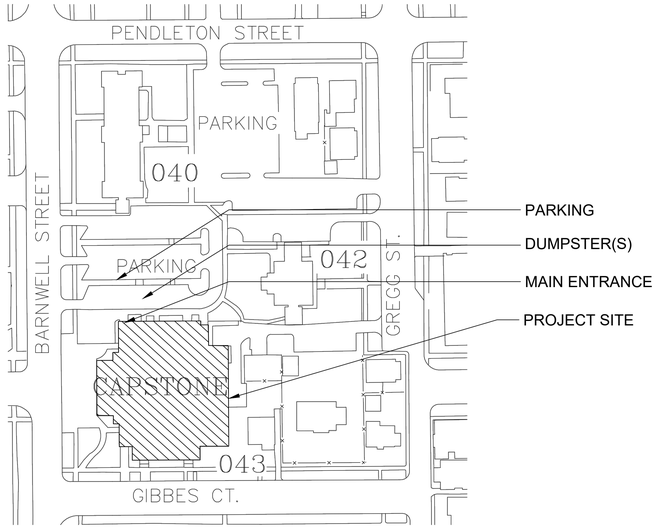
THE CONTRACTOR MUST FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO PERFORM THE FOLLOWING: PROTECT, PREPARE, AND PERFORM REMOVAL OF CARPET, VCT, RUBBER LANDINGS, STAIR TREADS AND BASE AS CALLED OUT; PREPARATION OF ALL SUBSTRATES ACCORDING TO MANUFACTURER GUIDELINES; REPLACEMENT WITH NEW CARPET TILES, LVT, PORCELAIN TILE AND BASE, RUBBER LANDINGS, AND STAIR TREADS BASEMENT THROUGH 19TH FLOOR IN THE FOLLOWING RESIDENCE HALL:

CAPSTONE - THIS BUILDING IS 158,201 GROSS SQUARE FEET WITH 18 FLOORS INCLUDING 17 RESIDENTIAL FLOORS, MAIN LOBBY AND BASEMENT. THERE ARE 309 STUDENT SUITE-STYLE RESIDENT ROOMS, AND A SMALL VARIETY OF COMMON LOUNGES, STUDIES, RESIDENTIAL LEARNING SPACES, AND OFFICES.

HAZMAT:
THE CONTRACTOR SHALL REMOVE/DEMO WALL BASE AND FLOORING AS SHOWN IN BID DOCUMENTS AND DRAWINGS.

ALL HAZMAT ABATEMENT CALLED OUT IN DRAWINGS WILL BE COMPLETED UNDER UNIVERSITY HEALTH AND SAFETY/ USC HAZMAT DIRECTION BY A CERTIFIED UNIVERSITY PROCURED HAZMAT CONTRACTOR AND NOT IN SCOPE OF GC.

SITE KEY PLAN



EXISTING BUILDING

ABBREVIATIONS

℄	CENTERLINE
CPT	CARPET
CT	CERAMIC TILE
CONC	CONCRETE
CUST.	CUSTODIAL CLOSET
DWG	DRAWING
ELEC.	ELECTRICAL ROOM
EVXX	ELEVATOR & NUMBER
EXIST	EXISTING
EXP-CONC	EXPOSED CONCRETE
LVT	LUXURY VINYL TILE
MECH.	MECHANICAL
MFG	MANUFACTURER
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PB	PORCELAIN BASE
PT	PORCELAIN TILE
QT	QUARRY TILE
RB	RUBBER BASE
RF	RUBBER FLOORING
ST	STAIR TREAD
VCT	VINYL COMPOSITION TILE

FINISH LEGEND

FLOOR FINISH	XX-XX
BASE FINISH	XX-XX
WALL FINISH	EXIST
CEILING FINISH	EXIST

LEGEND

	LVT-1
	PT-2
	PT-3
	EXISTING VCT TO REMAIN
	NOT IN SCOPE
	FLOORING HAZMAT REMOVAL BY USC HAZMAT CONTRACTOR
	WALL BASE HAZMAT REMOVAL BY USC HAZMAT CONTRACTOR

GENERAL NOTES

AUTHORIZED AREAS WITHIN THE BUILDING WHICH MAY BE USED FOR THE PURPOSE OF THIS PROJECT INCLUDE:

ALL MOP SINKS, CUSTODIAL CLOSETS AND RESTROOMS LISTED SHALL BE CLEANED AND RETURNED TO THEIR ORIGINAL CONDITION.

1. MOP SINK LOCATIONS:
   ONLY THE FOLLOWING MOP SINKS SHALL BE USED BY ALL CONTRACTORS.

   BASEMENT-005
   TYPICAL STUDENT FLOORS -X22 CUSTODIAL SINK
   17TH FLOOR-1731

2. RESTROOMS:
   ONLY THE FOLLOWING RESTROOMS SHALL BE USED BY ALL CONTRACTORS.

   BASEMENT-N/A
   TYPICAL STUDENT FLOORS -X04A
   17TH FLOOR-1708A

INDEX OF DRAWINGS

CONSTRUCTION & RENOVATIONS FOR UNIVERSITY HOUSING 1520 DEVINE STREET

PROJECT NO. #H27-Z384

CAPSTONE BUILDING #: 039

UNIVERSITY OF SOUTH CAROLINA

REVISIONS

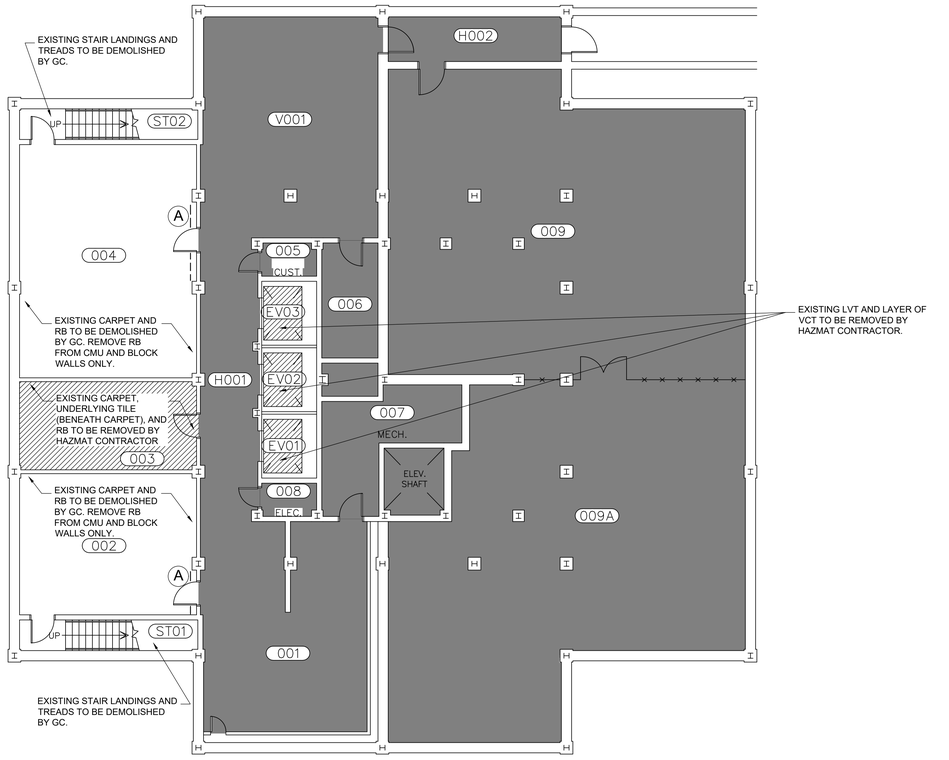
NO.	DATE	DESCRIPTION
1	04-02-19	ADDENDUM #3

DATE: 02-27-2019

T1.1

TITLE SHEET

HAZMAT LEGEND	
INDICATES FLOORING DEMO BY USC HAZMAT CONTRACTOR	
INDICATES WALL BASE DEMO BY USC HAZMAT CONTRACTOR	A



1 / ID0.0 BASEMENT - DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

NOTE: ALL PERMANENT FIXTURES/FURNITURE SHALL REMAIN. MOVABLE FFE SHALL BE THE RESPONSIBILITY OF THE GC TO MOVE, INSTALL FLOORING/BASE AND RETURN TO ORIGINAL WORKING CONDITION/PLACEMENT.

***NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

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CONSTRUCTION & RENOVATIONS
FOR UNIVERSITY HOUSING
1520 DEVINE STREET

PROJECT NO.
#H27-Z384

CAPSTONE
BUILDING #: 039

UNIVERSITY OF SOUTH CAROLINA

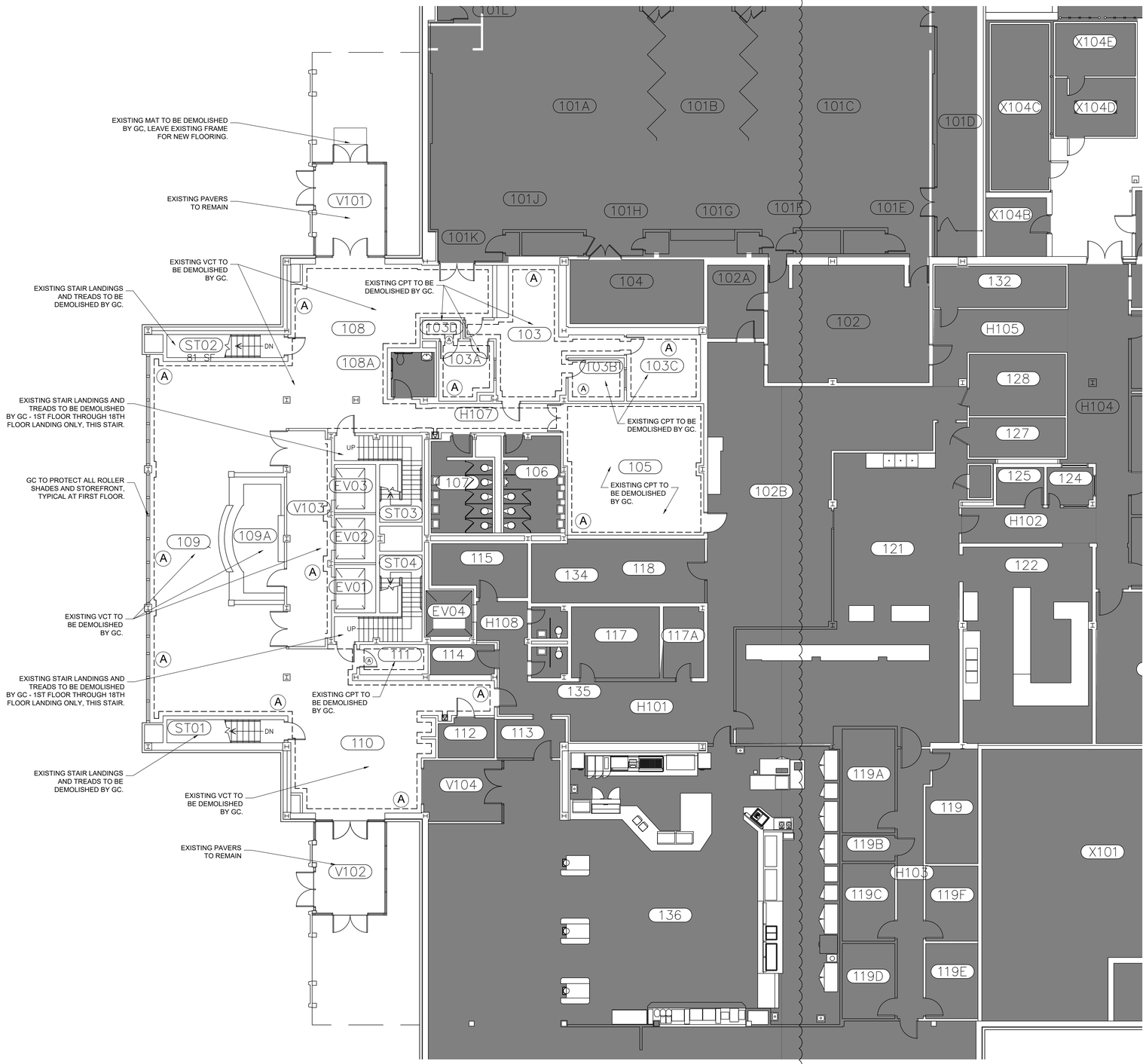
REVISIONS		
NO.	DATE	DESCRIPTION
1	04-02-19	ADDENDUM #3

DATE: 02-27-2019

ID0.0

BASEMENT DEMOLITION PLAN

HAZMAT LEGEND	
INDICATES FLOORING DEMO BY USC HAZMAT CONTRACTOR	
INDICATES WALL BASE DEMO BY USC HAZMAT CONTRACTOR	A



1 / ID0.1 FIRST FLOOR - DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

NOTE: ALL PERMANENT FIXTURES/FURNITURE SHALL REMAIN. MOVABLE FFE SHALL BE THE RESPONSIBILITY OF THE GC TO MOVE, INSTALL FLOORING/BASE AND RETURN TO ORIGINAL WORKING CONDITION/PLACEMENT.

***NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

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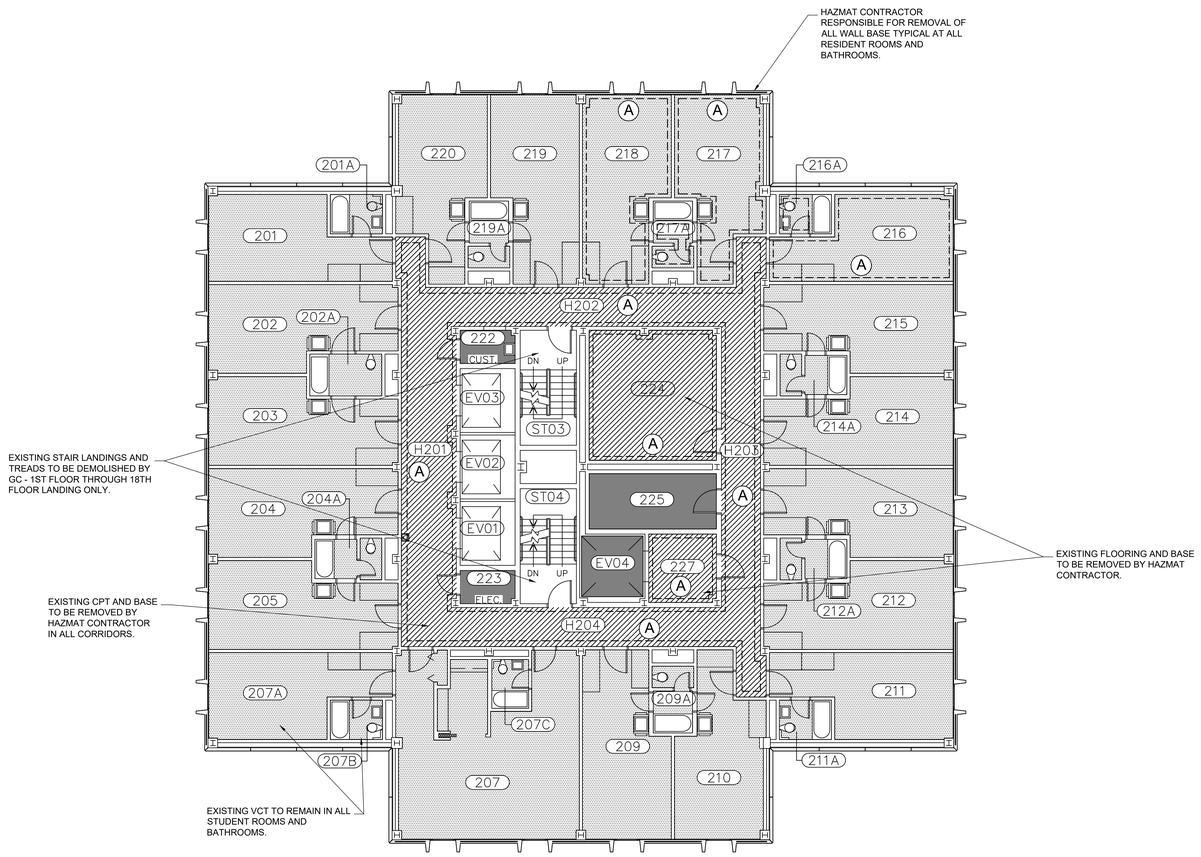
NO.	DATE	DESCRIPTION
1	04-02-19	ADDENDUM #3

DATE: 02-27-2019

ID0.1

1ST FL
DEMOLITION PLAN

HAZMAT LEGEND	
INDICATES FLOORING DEMO BY USC HAZMAT CONTRACTOR	
INDICATES WALL BASE DEMO BY USC HAZMAT CONTRACTOR	A
INDICATES EXISTING VCT TO REMAIN	



1 / ID0.2 SECOND FLOOR - DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

NOTE: ALL PERMANENT FIXTURES/FURNITURE SHALL REMAIN. MOVABLE FFE SHALL BE THE RESPONSIBILITY OF THE GC TO MOVE, INSTALL FLOORING/BASE AND RETURN TO ORIGINAL WORKING CONDITION/PLACEMENT.

NOTE: IT IS ASSUMED HAZMAT CONTRACTOR WILL BE REQUIRED TO REMOVE ANY DAMAGED VCT TILES, NOT REPAIRABLE. HAZMAT CONTRACTOR TO ASSUME 500 SF FOR REMOVAL. GC TO ASSUME 500 SF FOR PATCHING.

***NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

N

CONSTRUCTION & RENOVATIONS
FOR UNIVERSITY HOUSING
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PROJECT NO.
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CAPSTONE
BUILDING #: 039

UNIVERSITY OF SOUTH CAROLINA

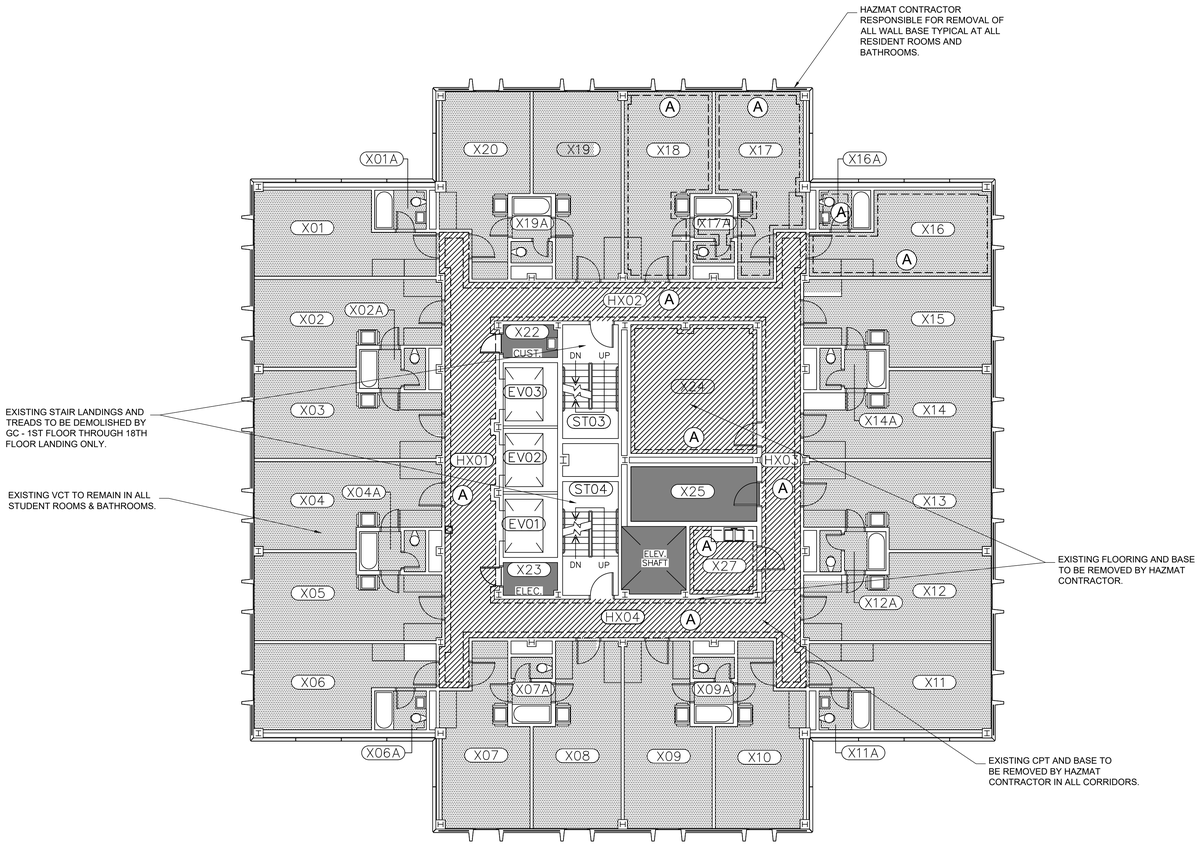
REVISIONS		
NO.	DATE	DESCRIPTION
1	04-02-19	ADDENDUM #3

DATE: 02-27-2019

ID0.2

2ND FL
DEMOLITION PLAN

HAZMAT LEGEND	
INDICATES FLOORING DEMO BY USC HAZMAT CONTRACTOR	
INDICATES WALL BASE DEMO BY USC HAZMAT CONTRACTOR	A
INDICATES EXISTING VCT TO REMAIN	



1 / ID0.3 TYPICAL RESIDENTIAL FLOOR - DEMOLITION PLAN (FLOORS 3-16)

SCALE: 1/8" = 1'-0"

NOTE: ALL PERMANENT FIXTURES/FURNITURE SHALL REMAIN. MOVABLE FFE SHALL BE THE RESPONSIBILITY OF THE GC TO MOVE, INSTALL FLOORING/BASE AND RETURN TO ORIGINAL WORKING CONDITION/PLACEMENT.

NOTE: IT IS ASSUMED HAZMAT CONTRACTOR WILL BE REQUIRED TO REMOVE ANY DAMAGED VCT TILES, NOT REPAIRABLE. HAZMAT CONTRACTOR TO ASSUME 500 SF FOR REMOVAL. GC TO ASSUME 500 SF FOR PATCHING.

1

***NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

N

CONSTRUCTION & RENOVATIONS
FOR UNIVERSITY HOUSING
1520 DEVINE STREET

PROJECT NO.
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CAPSTONE
BUILDING #: 039

UNIVERSITY OF SOUTH CAROLINA

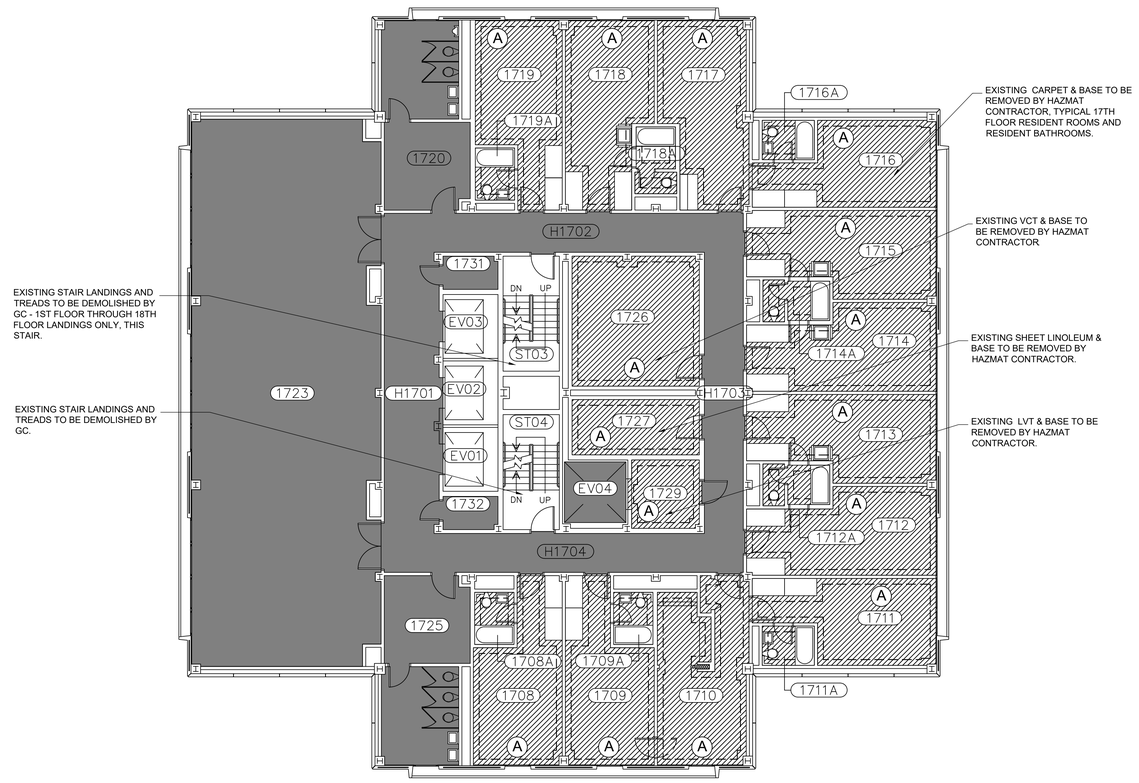
REVISIONS		
NO.	DATE	DESCRIPTION
1	04-02-19	ADDENDUM #3

DATE: 02-27-2019

ID0.3

TYPICAL RESIDENTIAL FLOOR - DEMOLITION PLAN

HAZMAT LEGEND	
INDICATES FLOORING DEMO BY USC HAZMAT CONTRACTOR	
INDICATES WALL BASE DEMO BY USC HAZMAT CONTRACTOR	A



1 / ID0.4 SEVENTEENTH FLOOR - DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

NOTE: ALL PERMANENT FIXTURES/FURNITURE SHALL REMAIN. MOVABLE FFE SHALL BE THE RESPONSIBILITY OF THE GC TO MOVE, INSTALL FLOORING/BASE AND RETURN TO ORIGINAL WORKING CONDITION/PLACEMENT.

***NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

N

CONSTRUCTION & RENOVATIONS
FOR UNIVERSITY HOUSING
1520 DEVINE STREET

PROJECT NO.
#H27-Z384

CAPSTONE
BUILDING #: 039

UNIVERSITY OF SOUTH CAROLINA

REVISIONS

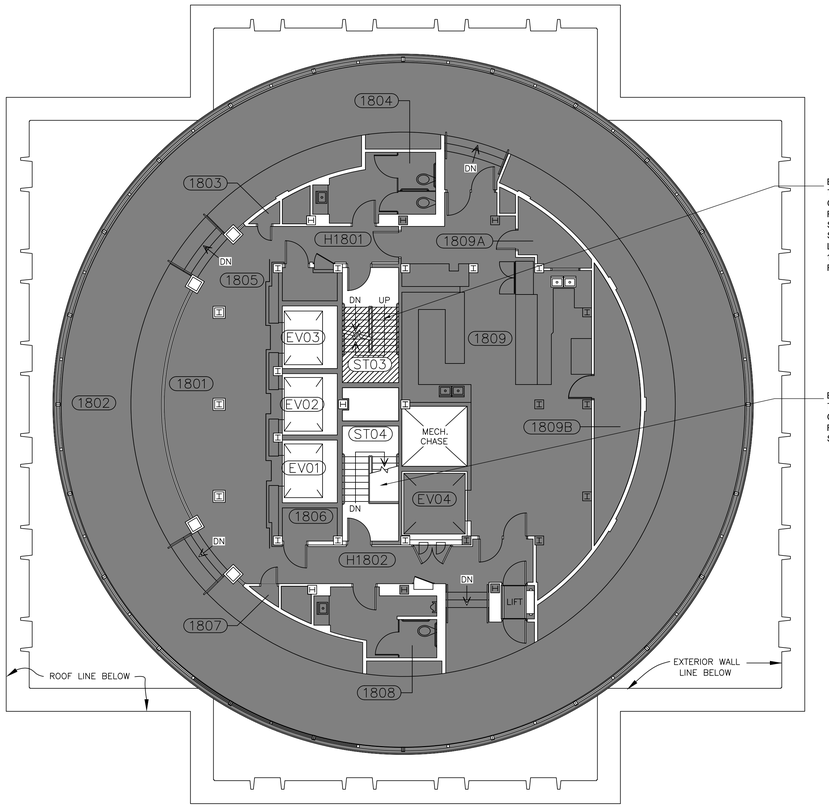
NO.	DATE	DESCRIPTION
1	04-02-19	ADDENDUM #3

DATE: 02-27-2019

ID0.4

17TH FL
DEMOLITION PLAN

HAZMAT LEGEND	
INDICATES FLOORING DEMO BY USC HAZMAT CONTRACTOR	



EXISTING STAIR LANDINGS AND TREADS TO BE DEMOLISHED BY GC - 1ST FLOOR THROUGH 18TH FLOOR LANDINGS ONLY, THIS STAIR. HAZMAT CONTRACTOR SHALL REMOVE TREADS AND LANDINGS BEGINNING WITH THE 18TH FLOOR ASCENDING TO 19TH FLOOR PENTHOUSE, THIS STAIR.

EXISTING STAIR LANDINGS AND TREADS TO BE DEMOLISHED BY GC - 1ST FLOOR THROUGH 18TH FLOOR LANDINGS ONLY, THIS STAIR.

1 / ID0.5 EIGHTEENTH FLOOR - DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

***NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

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CONSTRUCTION & RENOVATIONS
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CAPSTONE
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REVISIONS

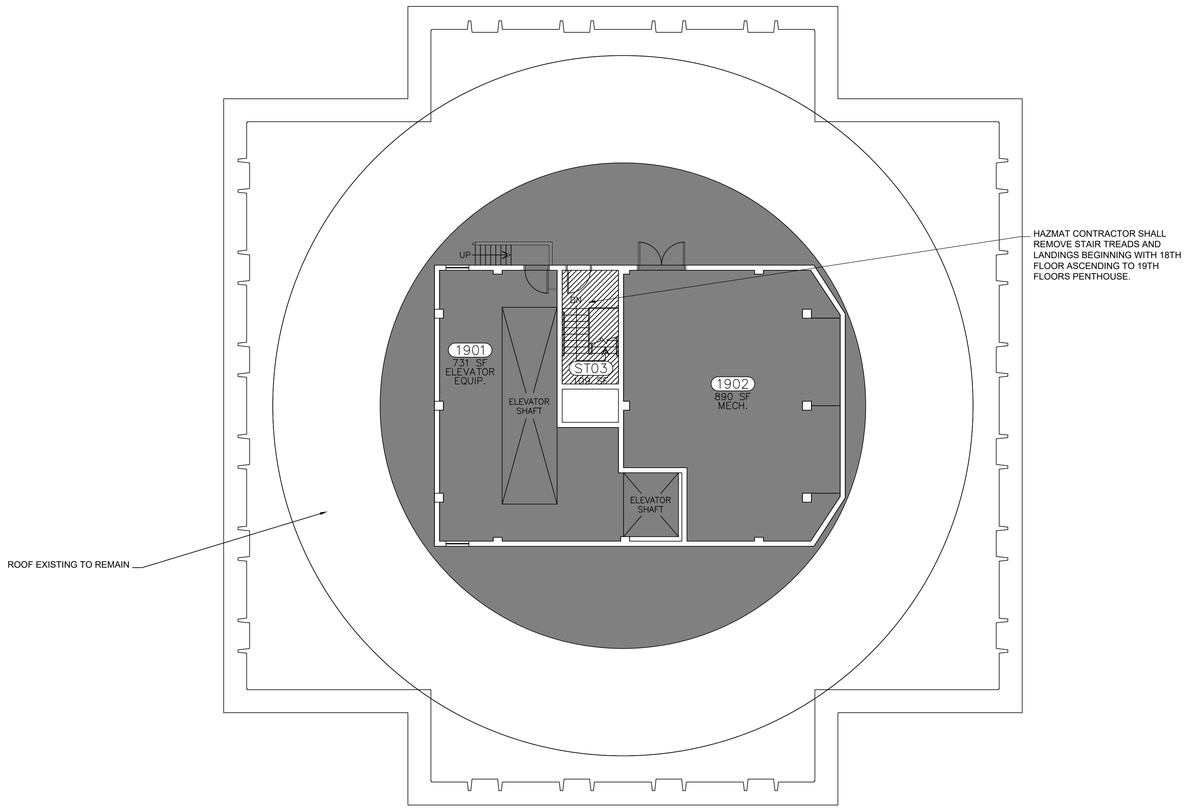
NO.	DATE	DESCRIPTION
1	04-02-19	ADDENDUM #3

DATE: 02-27-2019

ID0.5

18TH FL
DEMOLITION PLAN

HAZMAT LEGEND	
INDICATES FLOORING DEMO BY USC HAZMAT CONTRACTOR	



1 ID0.6 NINETEENTH FLOOR PENTHOUSE - DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

***NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

N

CONSTRUCTION & RENOVATIONS
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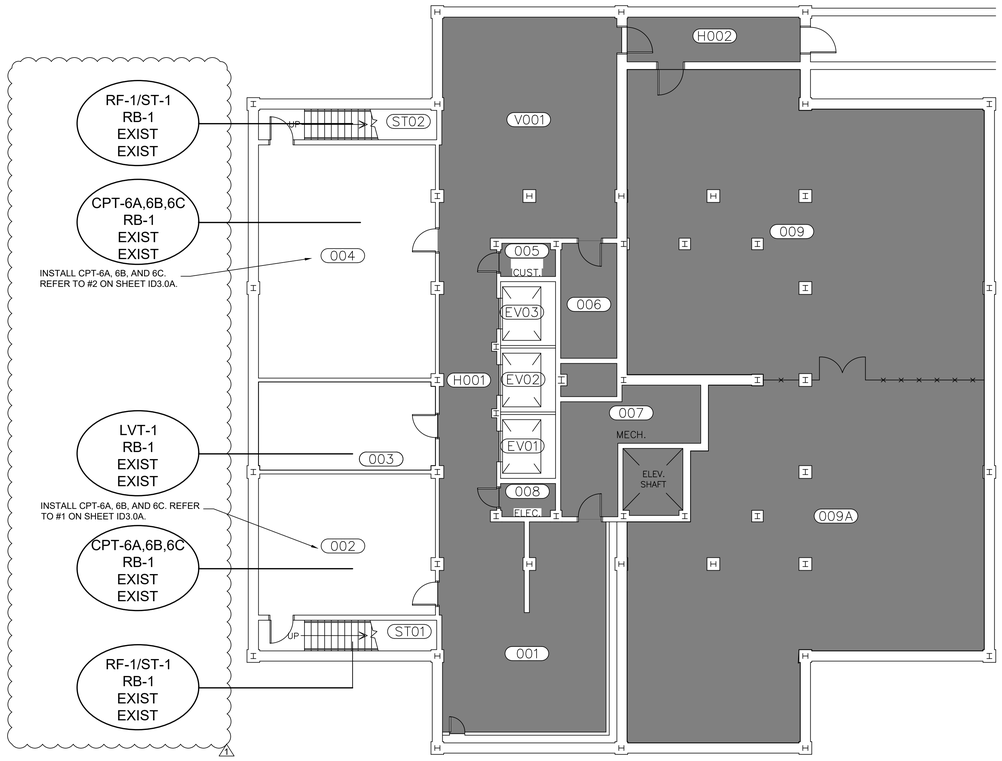
REVISIONS

NO.	DATE	DESCRIPTION
1	04-02-19	ADDENDUM #3

DATE: 02-27-2019

ID0.6
19TH FL
PENTHOUSE
DEMOLITION PLAN



1 / ID2.0 BASEMENT - FINISH PLAN

SCALE: 1/8" = 1'-0"

NOTE: FINISH PLANS CONTAIN INFORMATION FOR ENTIRE BUILDING FOR UNIVERSITY RECORDS.
THE SCOPE OF THIS PROJECT IS FOR COMPREHENSIVE FLOORING AND WALL BASE ONLY.

***NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

N

CONSTRUCTION & RENOVATIONS
FOR UNIVERSITY HOUSING
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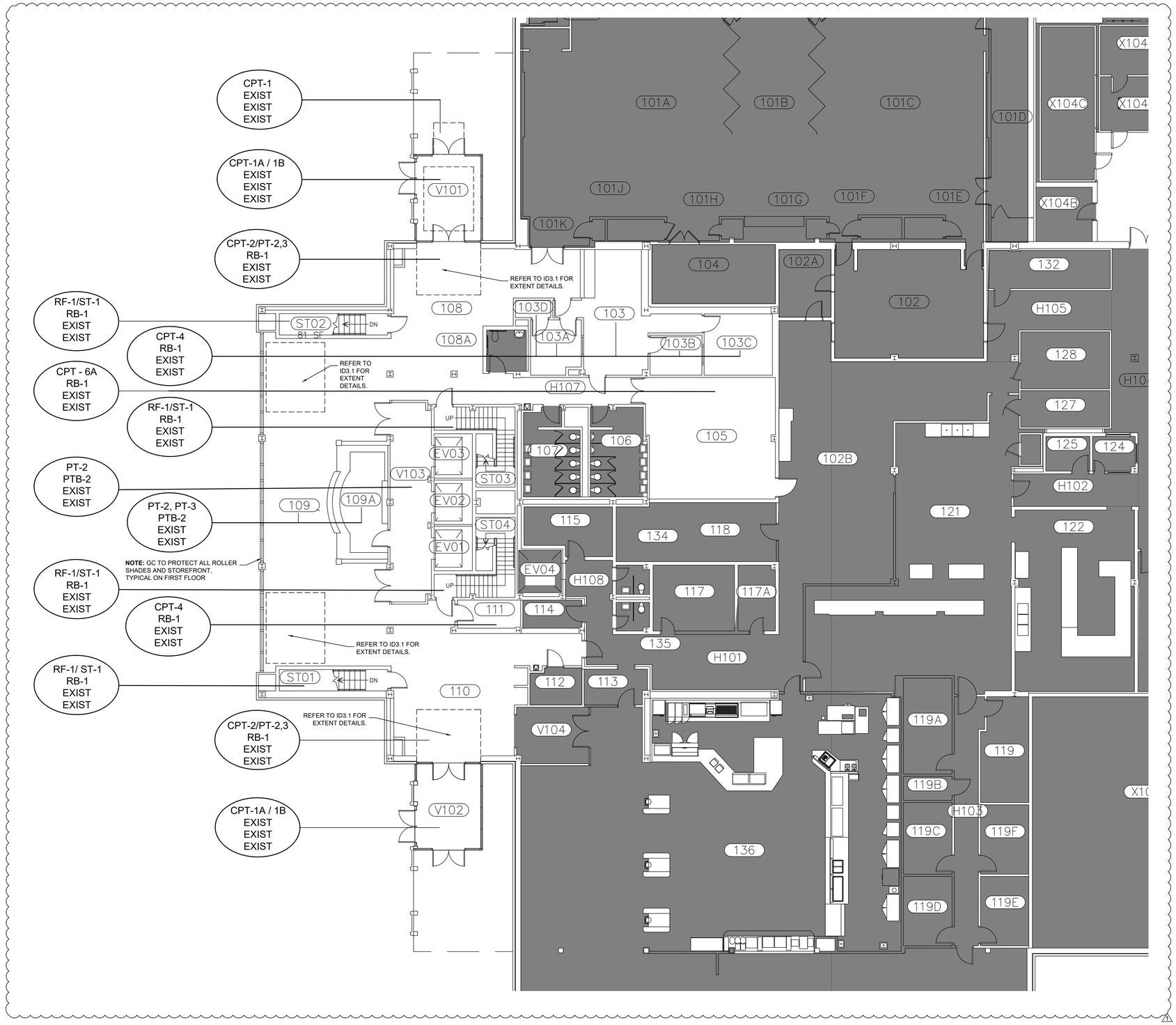
REVISIONS

NO.	DATE	DESCRIPTION
1	04-02-19	ADDENDUM #3

DATE: 02-27-2019

ID2.0

BASEMENT
FINISH PLAN



1 / ID2.1 FIRST FLOOR - FINISH PLAN

SCALE: 1/8" = 1'-0"

NOTE: FINISH PLANS CONTAIN INFORMATION FOR ENTIRE BUILDING FOR UNIVERSITY RECORDS.
THE SCOPE OF THIS PROJECT IS FOR COMPREHENSIVE FLOORING AND WALL BASE ONLY.

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CONSTRUCTION & RENOVATIONS
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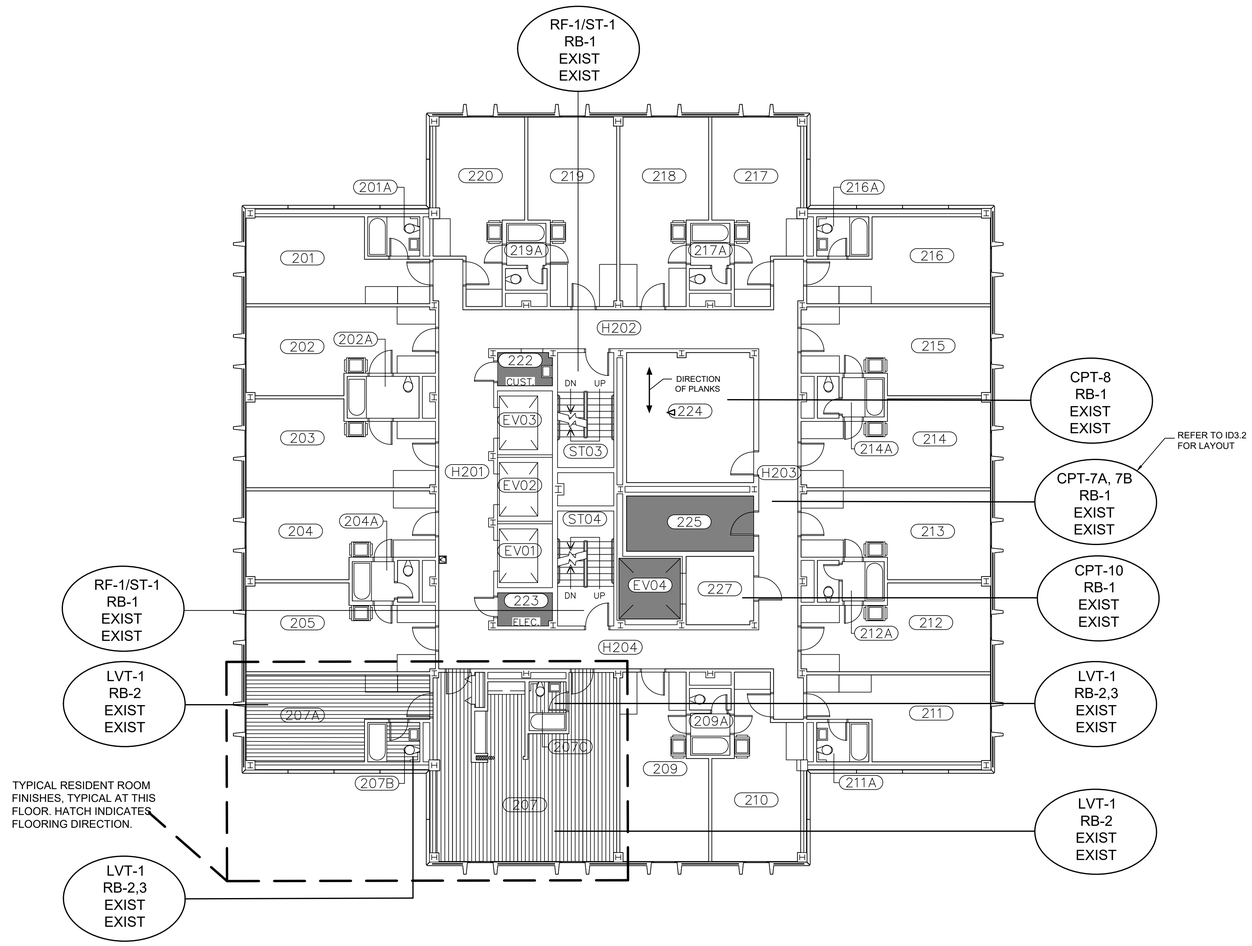
REVISIONS

NO.	DATE	DESCRIPTION
1	04-02-19	ADDENDUM #3

DATE: 02-27-2019

ID2.1

1ST FLOOR
FINISH PLAN



1
ID2.2

SECOND FLOOR - FINISH PLAN

SCALE: 1/8" = 1'-0"

NOTE: FINISH PLANS CONTAIN INFORMATION FOR ENTIRE BUILDING FOR UNIVERSITY RECORDS. THE SCOPE OF THIS PROJECT IS FOR COMPREHENSIVE FLOORING AND WALL BASE ONLY.

NOTE: AT RESIDENTIAL BATHROOMS CUT LVT TIGHT TO EXISTING TOILET AND TUB. GAP TO BE NO GREATER THAN 1/4". CAULK AROUND BASE OF TOILET AND TUB AT NEW FLOORING.

NOTE: GC TO ASSUME 500 SF OF VCT TO INSTALL WHERE DAMAGED TILES ARE REMOVED BY HAZMAT CONTRACTOR. ENSURE A SMOOTH AND LEVEL SURFACE TO RECEIVE NEW FINISH.

NOTE: EXISTING 1-2 LAYERS OF 12" X 12" VCT ARE PRESENT AND ARE TO REMAIN IN ALL STUDENT ROOMS UNLESS OTHERWISE NOTED. REPLACE ANY MISSING TILES AND SKIM COAT TO RECEIVE NEW FLOORING AS SPECIFIED PER MANUFACTURERS RECOMMENDATIONS.

***NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

N

CONSTRUCTION &
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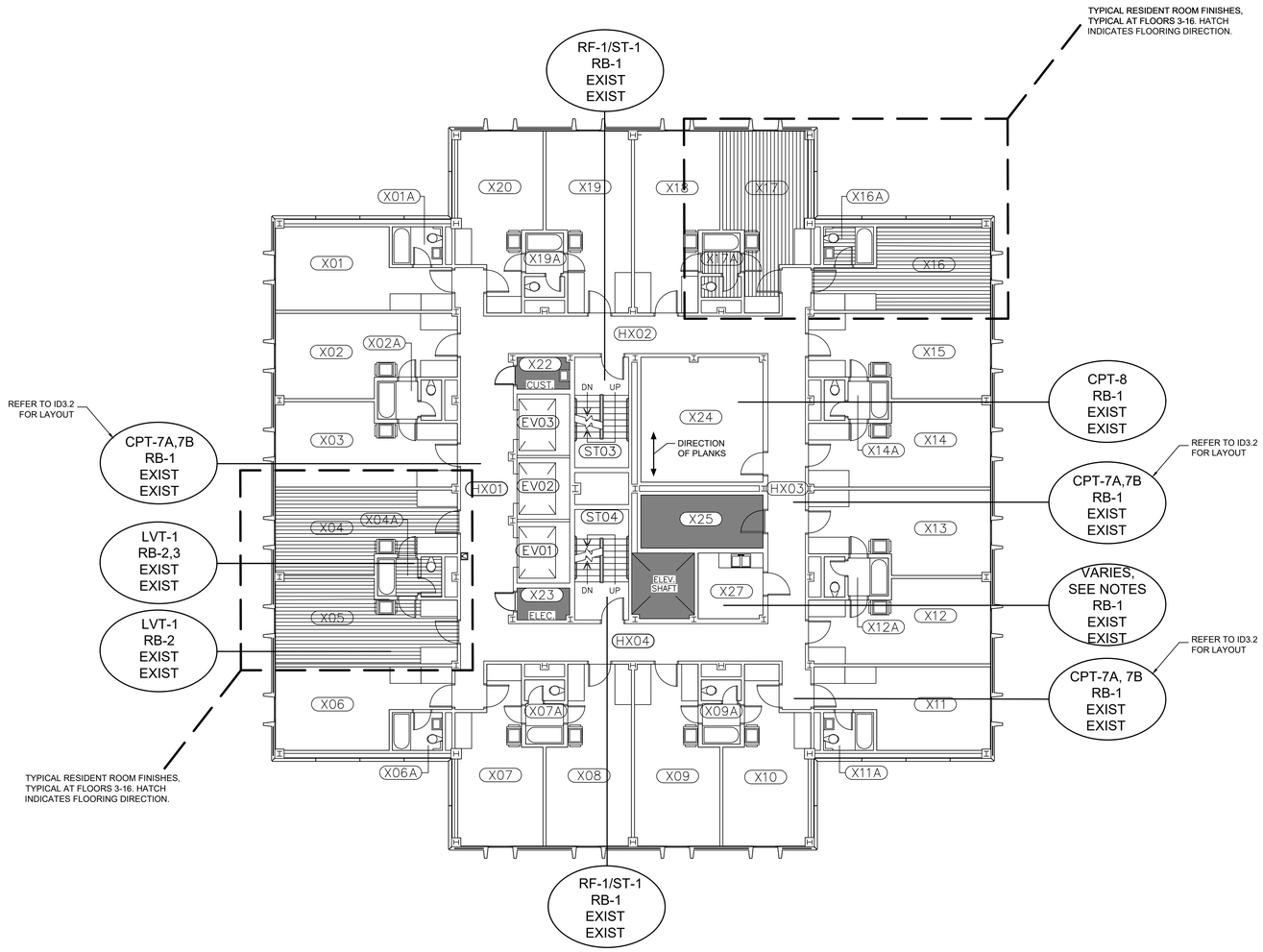
REVISIONS

NO.	DATE	DESCRIPTION
1	04-02-19	ADDENDUM #3

DATE: 02-27-2019

ID2.2

2ND FLOOR
FINISH PLAN



1 / ID2.3 TYPICAL RESIDENTIAL FLOOR - FINISH PLAN (FLOORS 3 - 16)

SCALE: 1/8" = 1'-0"

NOTE: FINISH PLANS CONTAIN INFORMATION FOR ENTIRE BUILDING FOR UNIVERSITY RECORDS. THE SCOPE OF THIS PROJECT IS FOR COMPREHENSIVE FLOORING AND WALL BASE ONLY.

NOTE: ALL FINISH DESIGNATIONS INDICATED ON THIS SHEET ARE TYPICAL FINISHES. TYPICAL FLOORS 3-16, WITH THE EXCEPTION OF THE KITCHEN/TRASH ROOMS. SEE ADDITIONAL NOTE BELOW.

NOTE: IN KITCHEN/TRASH ROOM X27, INSTALL CPT-10 ON FLOORS 2-9, INSTALL CPT-11 ON FLOORS 10-17.

NOTE: AT RESIDENTIAL BATHROOMS CUT LVT TIGHT TO EXISTING TOILET AND TUB. GAP TO BE NO GREATER THAN 1/4". CAULK AROUND BASE OF TOILET AND TUB AT NEW FLOORING.

NOTE: GC TO ASSUME 500 SF OF VCT TO INSTALL WHERE DAMAGED TILES ARE REMOVED BY HAZMAT CONTRACTOR. ENSURE A SMOOTH AND LEVEL SURFACE TO RECEIVE NEW FINISH.

NOTE: EXISTING 1-2 LAYERS OF 12X12 VCT ARE PRESENT AND ARE TO REMAIN IN ALL STUDENT ROOMS UNLESS OTHERWISE NOTED. REPLACE ANY MISSING TILES AND SKIM COAT TO RECEIVE NEW FLOORING AS SPECIFIED PER MANUFACTURERS RECOMMENDATIONS. .

***NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

N

CONSTRUCTION & RENOVATIONS
FOR UNIVERSITY HOUSING
1520 DEVINE STREET

PROJECT NO.
#H27-Z384

CAPSTONE
BUILDING #: 039

UNIVERSITY OF SOUTH CAROLINA

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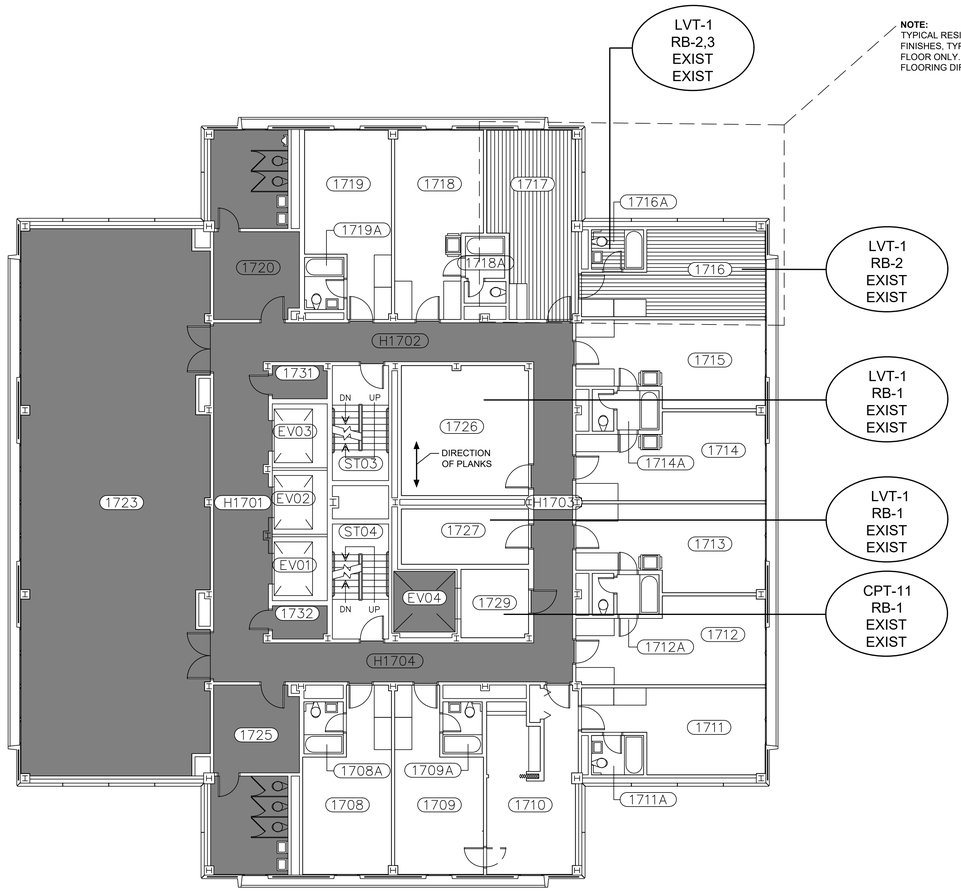
ID2.3
TYP. RESIDENTIAL FLOOR FINISH PLAN FLOORS 3-16



1 / ID2.4 SEVENTEENTH FLOOR - FINISH PLAN

SCALE: 1/8" = 1'-0"

NOTE: FINISH PLANS CONTAIN INFORMATION FOR ENTIRE BUILDING FOR UNIVERSITY RECORDS. THE SCOPE OF THIS PROJECT IS FOR COMPREHENSIVE FLOORING AND WALL BASE ONLY.

NOTE: AT RESIDENTIAL BATHROOMS, CUT LVT TIGHT TO EXISTING TOILET AND TUB. GAP TO BE NO GREATER THAN 1/4". CAULK AROUND BASE OF TOILET AND TUB AT NEW FLOORING.

***NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

N

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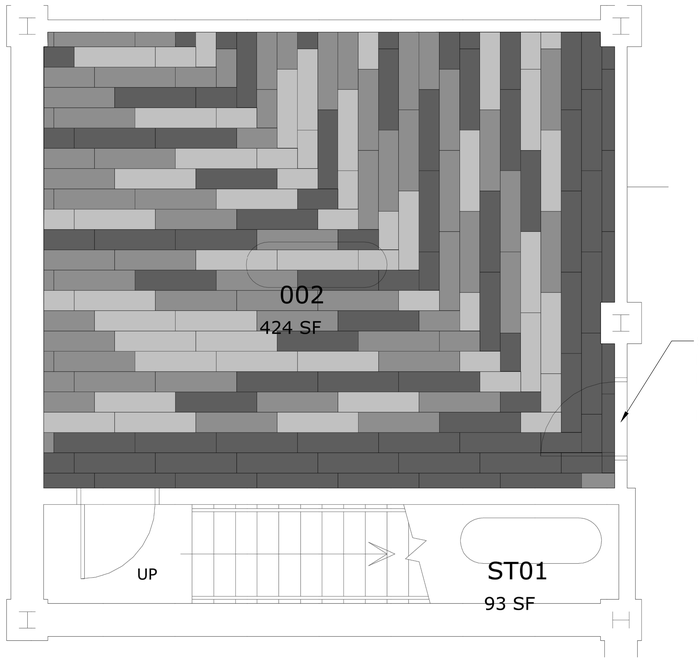
ID2.4

17TH FLOOR
FINISH PLAN

CPT-6B
CPT-6C
CPT-6A

STITCH COUNT 105924 IRON COUNT 25cm x 1m PATTERN BY TILE
STITCHERY 105932 IRON STITCHERY 25cm x 1m PATTERN BY TILE
PLAIN STITCH 105916 IRON PLAIN 25cm x 1m PATTERN BY TILE

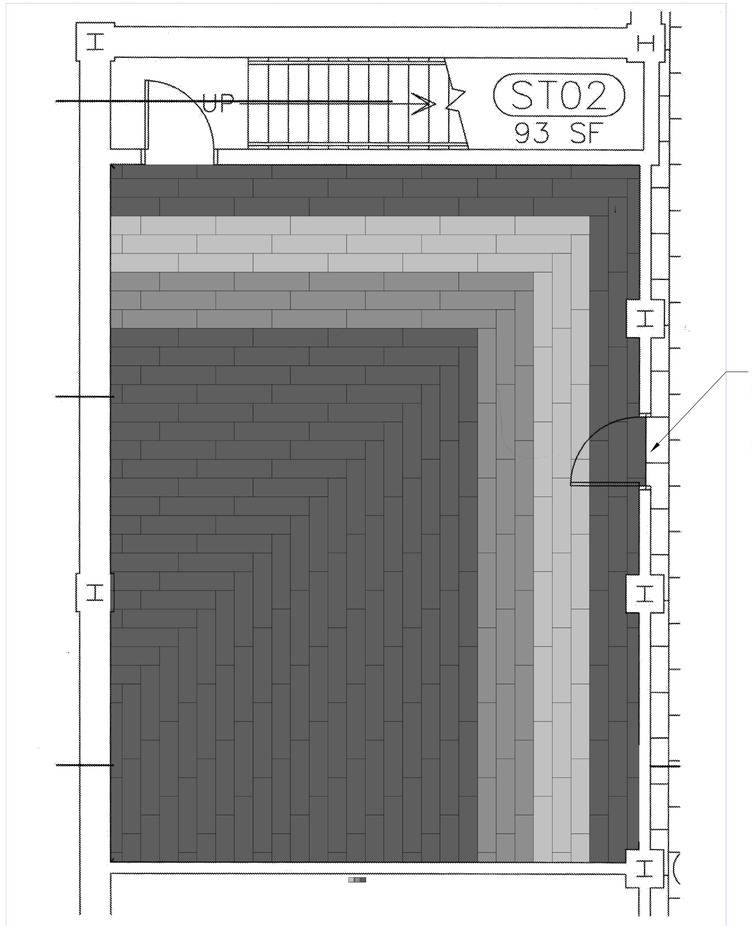


START LONG EDGE OF FULL PLANK HERE AT CENTER OF DOOR. FLOORING TRANSITION TO BE HIDDEN UNDER CLOSED DOOR.

1 ID3.0A BASEMENT - EXTENTS DETAILS LOUNGE 002

N.T.S.

NOTE: IMAGES IN DRAWING 1 AND 2 ON THIS SHEET ARE FOR DESIGN INTENT ONLY.
COORDINATE ALL/ANY CONFLICTS IN FIELD WITH ARCHITECT.



START LONG EDGE OF FULL PLANK HERE AT CENTER OF DOOR. FLOORING TRANSITION TO BE HIDDEN UNDER CLOSED DOOR.

2 ID3.0A BASEMENT - EXTENTS DETAILS GAME ROOM 004

N.T.S.

***NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

N

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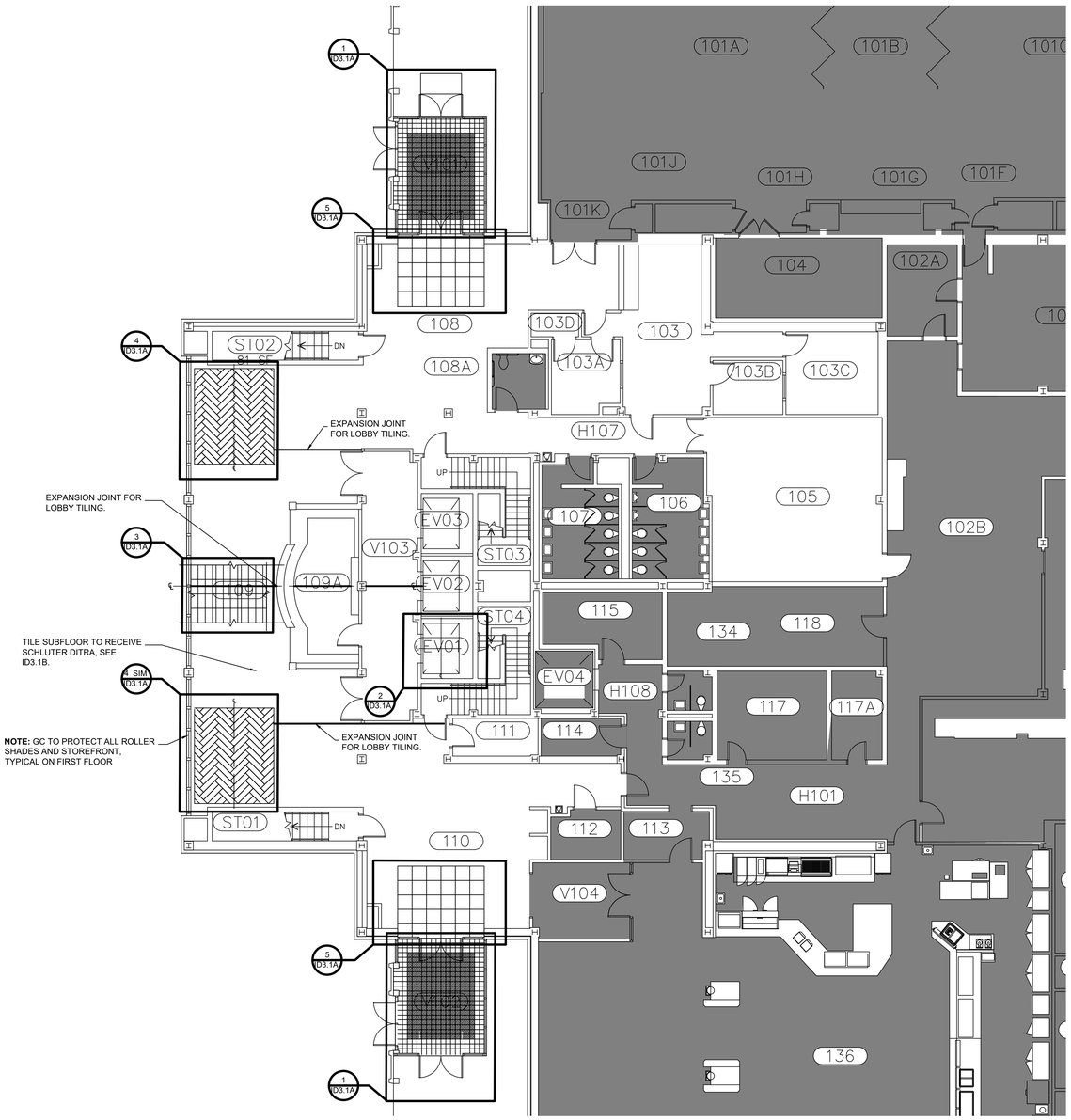
ID3.0A

BASEMENT
EXTENTS DETAILS



1 / ID3.1 FIRST FLOOR - EXTENTS OF FLOOR FINISH PLAN

ALL PERIMETER EXPANSION JOINTS AND FIELD EXPANSION JOINTS SHALL BE PROVIDED AS RECOMMENDED BY TCNA HANDBOOK 2018, TYPICAL

SCALE: 1/8" = 1'-0"

***NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

N

CONSTRUCTION & RENOVATIONS
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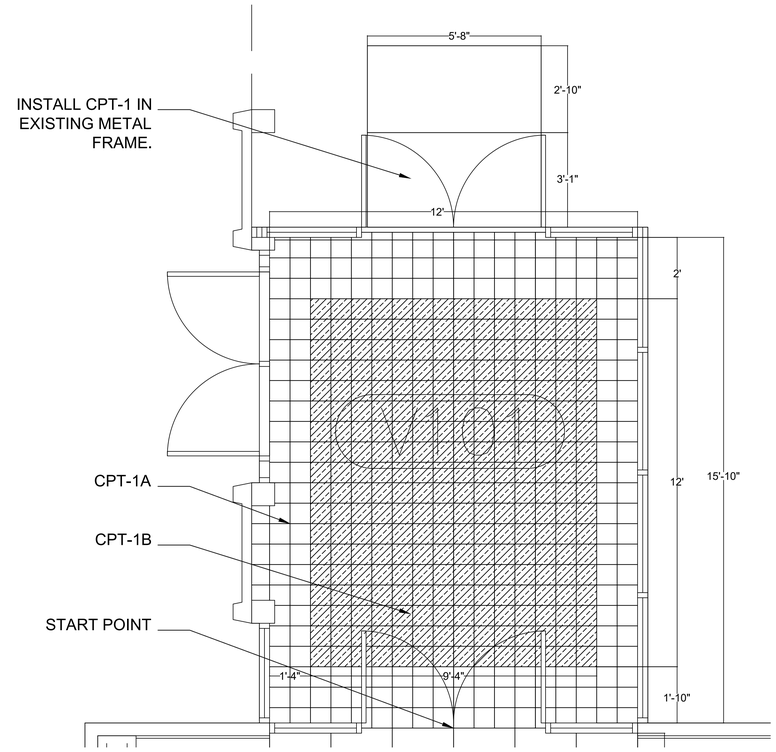
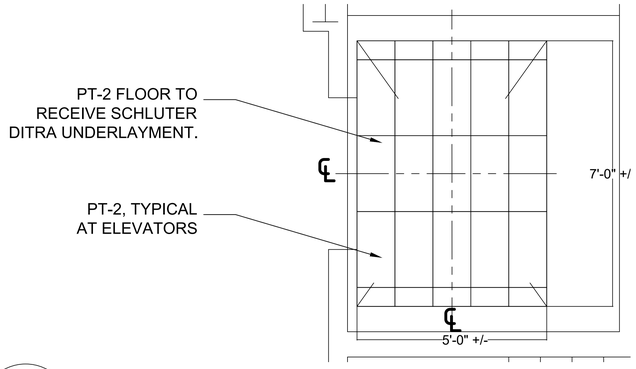
ID3.1

1ST FL
EXTENT OF FLOOR FINISH PLAN



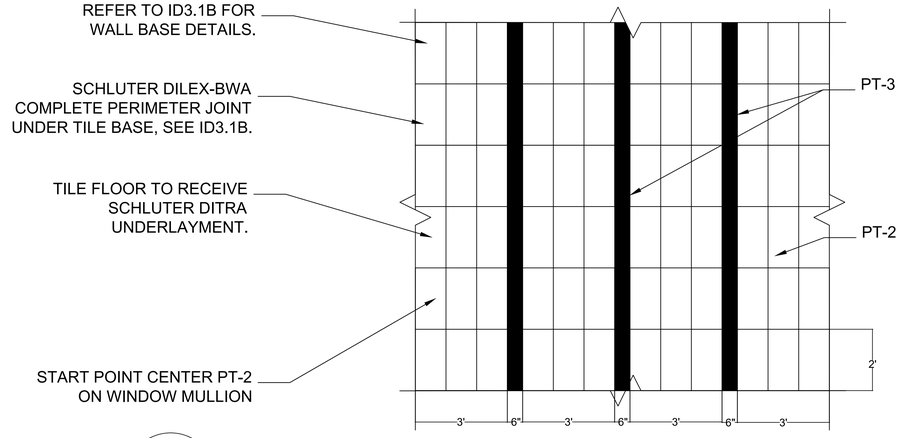
1 ID3.1A FIRST FLOOR - EXTENTS DETAILS VESTIBULES V101 & V102

SCALE: 1/2" = 1'-0"



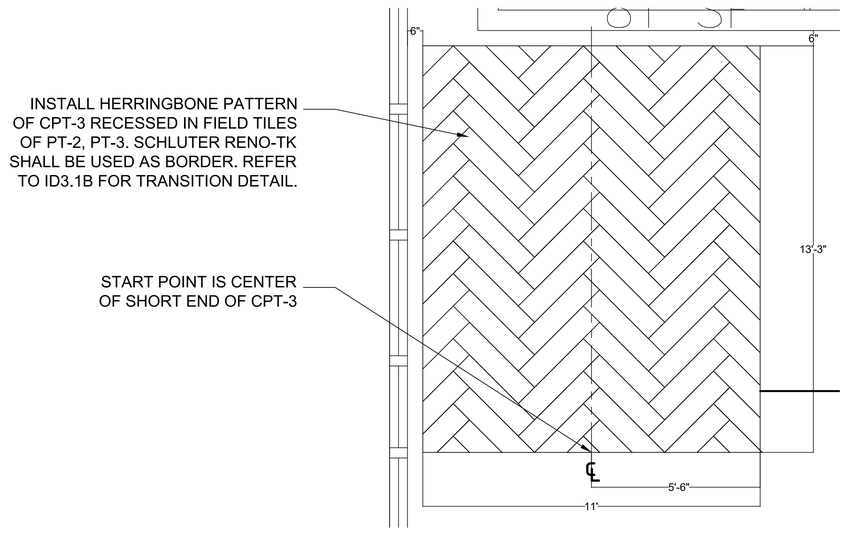
2 ID3.1A ELEVATOR TILE PATTERN

SCALE: 1/2" = 1'-0"



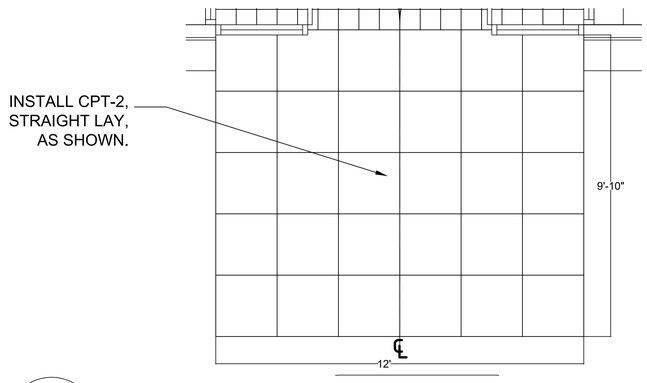
3 ID3.1A FIRST FLOOR - TYPICAL LOBBY FIELD TILE PATTERN

SCALE: 1/2" = 1'-0"



4 ID3.1A FIRST FLOOR - EXTENTS DETAILS LOBBY AREA RUG NORTH

AT SIMILAR LOCATIONS PATTERN IS MIRRORED SCALE: 1/2" = 1'-0"



5 ID3.1A FIRST FLOOR - WALK OFF CARPET PATTERN

SCALE: 1/2" = 1'-0"

NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

NOTE: FOR ANY CONFLICTS, COORDINATE WITH ARCHITECT, IN FIELD.

N

CONSTRUCTION & RENOVATIONS FOR UNIVERSITY HOUSING 1520 DEVINE STREET

PROJECT NO. #H27-Z384

CAPSTONE BUILDING #: 039

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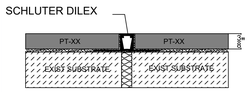
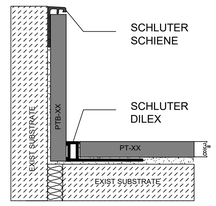
ID3.1A

1ST FL EXTENT DETAILS



1 ID3.1B FIRST FLOOR - FIELD TILE EXPANSION JOINT DETAIL

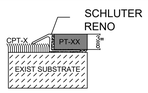
SCALE: N.T.S.



2 ID3.B FIRST FLOOR - PERIMETER EXPANSION JOINT AND WALL BASE DETAIL

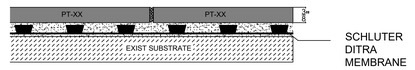
SCALE: N.T.S.

NOTE: CONDITION TYPICAL AT COLUMNS, PERIMETER OF LOBBY WHERE FLOORS MEET SHEETROCK WALLS.



3 ID3.1B FIRST FLOOR - CPT-XX & PT-XX TRANSITION DETAIL

SCALE: N.T.S.



4 ID3.1B FIRST FLOOR - PORCELAIN TILE & UNCOUPLING MEMBRANE DETAIL

SCALE: N.T.S.

NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

NOTE: FOR ANY CONFLICTS, COORDINATE WITH ARCHITECT, IN FIELD.

N

CONSTRUCTION & RENOVATIONS
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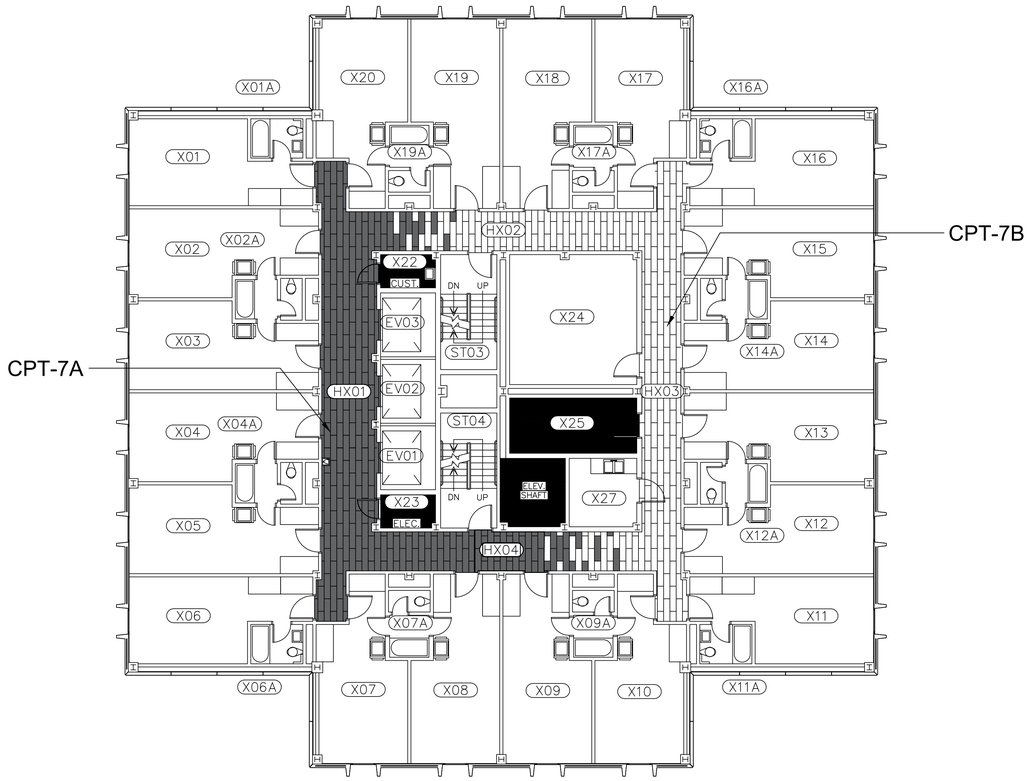
ID3.1B

1ST FL
EXTENTS DETAILS

CPT-7A		DRIFTWOOD, 104858 TEAK, 9.84" X 39.38"
CPT-7B		DRIFTWOOD, 104860 CHESTNUT, 9.84" X 39.38"



1
ID3.3

TYPICAL RESIDENTIAL FLOOR EXTENTS DETAILS - CORRIDORS (FLOORS 2-16)

SCALE: N.T.S.

***NOTE: CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.

N

CONSTRUCTION & RENOVATIONS
FOR UNIVERSITY HOUSING
1520 DEVINE STREET

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UNIVERSITY OF SOUTH CAROLINA

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ID3.2

TYPICAL RESIDENTIAL EXTENT OF FLOOR FINISH PLAN

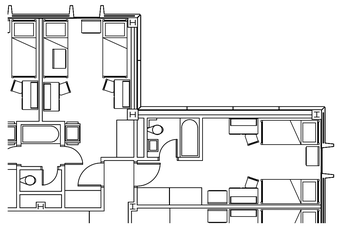
FINISH LEGEND: BASIS OF DESIGN

CODE	SPECIFICATION
CPT-1	MFR: MILLIKEN COLLECTION: ARX STYLE: TERGO 11C-CLOSED COLOR: N/A CONSTRUCTION: UV- RESISTANT CONTENT TYPE 6 NYLON, AQUAFIL, 100% SOLUTION DYED SIZE: 7.87" X 7.87" / 500CM X 500CM BACKING: N/A INSTALLATION METHOD: MONOLITHIC CONTACT: DAWN TEMPLETON / 843-528-8453
CPT-1A	MFR: MILLIKEN COLLECTION: ARX STYLE: PRIOR 16 - OPEN CELL CONSTRUCTION: UV-RESISTANT PVC & MILLIKEN CERT WEARON, TYPE 6.6 CONTENT: 100% RECYCLED CONTENT TYPE 6 NYLON, AQUAFIL, 100% SOLUTION DYED SIZE: 7.87" X 7.87" / 500CM X 500CM BACKING: N/A INSTALLATION METHOD: MONOLITHIC CONTACT: DAWN TEMPLETON / 843-528-8453
CPT-1B	MFR: MILLIKEN COLLECTION: ARX STYLE: FORMA 2.0 16-OPEN CELL COLOR: BOUNDARY FOR144-27 CONSTRUCTION: UV-RESISTANT PVC & TUFTED CUT PILE CONTENT: 100% RECYCLED CONTENT TYPE 6 NYLON, AQUAFIL, 100% SOLUTION DYED SIZE: 7.87" X 7.87" / 200MM X 200MM BY 16MM THICK BACKING: N/A INSTALLATION METHOD: MONOLITHIC CONTACT: DAWN TEMPLETON / 843-528-8453
CPT-2	MFR: INTERFACE COLLECTION: STEP REPEAT STYLE: SR899 COLOR: 104940 IRON CONSTRUCTION: TUFTED TEXTURED LOOP CONTENT: 100% RECYCLED CONTENT TYPE 6 NYLON, AQUAFIL, 100% SOLUTION DYED SIZE: 19.69" X19.69" / 50CM X 50CM BACKING: GLASBAC INSTALLATION METHOD: MONOLITHIC CONTACT: DAWN TEMPLETON / 843-528-8453
CPT-3	MFR: SHAW COLLECTION: HAVEN STYLE: 5T236 HONEST TILE COLOR: 35585 CONSTRUCTION: MULTI-LEVEL PATTERN LOOP CONTENT: ECO SOLUTION NYLON, 100% SOLUTION DYED SIZE: 9" X 36" BACKING: ECOWORX TILE INSTALLATION METHOD: HERRINGBONE CONTACT: STEVEN DAVITTE / 803-206-4672
CPT-4	MFR: J+J FLOORING GROUP COLLECTION: ONE GOOD TURN STYLE: ONE GOOD TURN MODULAR 7075 COLOR: 2466 TURN HEADS CONSTRUCTION: STRATATEC PATTERNED LOOP CONTENT: ENCORE SD ULTIMA NYLON,100% SOLUTION DYED SIZE: 24" x 24" BACKING: NEXUS MODULAR INSTALLATION METHOD: BRICK LAY CONTACT: DAVID BALDERSON / 843-494-4043
CPT-5	NOT USED
CPT-6A	MFR: INTERFACE COLLECTION: VISUAL CODE STYLE: PLAIN STITCH 139250AK00 COLOR: 105916 IRON PLAIN CONSTRUCTION: TUFTED SHEARED CONTENT: RECYCLED CONTENT TYPE 6 NYLON, 100% SOLUTION DYED SIZE: 9.84" x 39.37", 25cm x 1m BACKING: GLASBAC INSTALLATION METHOD: REFER TO INTERFACE RENDERING ON ID3.0A FOR DETAILS ON PATTERN FOR CPT-6A, 6B & 6C. CONTACT: BETHANY WATSON / 864-252-5762
CPT-6B	MFR: INTERFACE COLLECTION: VISUAL CODE STYLE: STITCH COUNT 139260AK00 COLOR: 105924 IRON COUNT CONSTRUCTION: TUFTED SHEARED CONTENT: RECYCLED CONTENT TYPE 6 NYLON, 100% SOLUTION DYED SIZE: 9.84" x 39.37", 25cm x 1m BACKING: GLASBAC INSTALLATION METHOD: REFER TO INTERFACE RENDERING ON ID3.0A FOR DETAILS ON PATTERN FOR CPT-6A, 6B & 6C. CONTACT: BETHANY WATSON / 864-252-5762
CPT-6C	MFR: INTERFACE COLLECTION: VISUAL CODE STYLE: STITCHERY 139270AK00 COLOR: 105932 IRON STICHERY CONSTRUCTION: MULTI-LEVEL PATTERN CUT/LOOP CONTENT: ECOSOLUTION G NYLON, 100% SOLUTION DYED SIZE: 9.84" x 39.37" BACKING: GLASBAC INSTALLATION METHOD: REFER TO INTERFACE RENDERING ON ID3.0A FOR DETAILS ON PATTERN FOR CPT-6A, 6B & 6C. CONTACT: BETHANY WATSON / 864-252-5762
CPT-7A	MFR: INTERFACE COLLECTION: DRIFTWOOD STYLE: 138940AK00 COLOR: 104858 TEAK CONSTRUCTION: TUFTED TEXTURED LOOP PATTERN CONTENT: 100% SOLUTION-DYED NYLON TYPE 6 SIZE: 9.84" X 39.37" BACKING: GLASBAC INSTALLATION METHOD: REFER TO FINISH AND EXTENT PLANS FOR DETAILS. CONTACT: BETHANY WATSON / 843-252-5762
CPT-7B	MFR: INTERFACE COLLECTION: DRIFTWOOD STYLE: 138940AK00 COLOR: 104860 CHESTNUT CONSTRUCTION: TUFTED TEXTURED LOOP PATTERN CONTENT: 100% SOLUTION-DYED NYLON TYPE 6 SIZE: 9.84" X 39.37" BACKING: GLASBACK INSTALLATION METHOD: REFER TO FINISH AND EXTENT PLANS FOR DETAILS. CONTACT: BETHANY WATSON / 843-252-5762
CPT-8	MFR: TANDUS CENTIVA COLLECTION: OPEN ARCHIVE COLLECTION STYLE: MARLED TWEED 11072 COLOR: IBIZA TWEED 27311 CONSTRUCTION: STRATATEC PATTERNED LOOP CONTENT: TDX NYLON, 100% SOLUTION DYED SIZE: 18" x 36" BACKING: NON WOVEN SYNTHETIC FIBER INSTALLATION METHOD: VERTICAL ASHLAR CONTACT: JESSICA KESSER / 704-127-1310
CPT-9	NOT USED
CPT-10	MFR: FORBO COLLECTION: FLOTEX MODULAR STYLE: LAVA COLOR: 145001 VESUVIUS CONSTRUCTION: FLOTEX FLOCKED TEXTILE 100% NYLON CONTENT: NYLON 6.6 SIZE: 9.84" X 39.37" / 25CM X 100 CM BACKING: RECYCLED VINYL CUSHIONED BACKING INSTALLATION METHOD: WEAVE-1 CONTACT: JOHN ROBERT FOSTER / 803-403-6448
CPT-11	MFR: MILLIKEN COLLECTION: SEPIO STYLE: RAMPART COLOR: RAM153-133 SHIELD CONSTRUCTION: TUFTED, MULTI-LEVEL LOOP CONTENT: 50% ECONYL SOLUTION-DYED NYLON TYPE 6, 50% SOLUTION-DYED MONOFILAMENT SIZE: 19.69"x19.69" / 50CM X 50CM BACKING: PVC-FREE UNDERSCORE ES CUSHION INSTALLATION METHOD: MONOLITHIC CONTACT: DAWN TEMPLETON / 843-528-8453
LVT-1	MFR: INTERFACE COLLECTION: ARTISTRY PLANK STANDARD COLLECTION STYLE: ELM PLANK WEAR LAYER: 20MIL COLOR: ST3241 SIZE: 4" x 36" 3MM TH EDGE: SQUARE FINISH TEXTURE: SMOOTH INSTALLATION METHOD: STRAIGHT LAY AT RESIDENT ROOMS CONTACT: (864) 252-5762 / BETHANY WATSTON
PT-1	NOT USED
PT-2	MFR: FLORIM USA-MILESTONE STYLE: GALAXY 1095565 COLOR: GALAXY GRIGIO MATTE SIZE: 12" x 24" x 9mm THICK GROUT: EPOXY - LATICRETE - 22 MIDNIGHT BLACK TRANSITION STRIPS: CONTRACTOR TO SUBMIT SCHLUTER METAL TRIM RENO-TK TO INTERIOR DESIGNER FOR COLOR SELECTIONS. INSTALLATION PATTERN: REFER TO DRAWINGS CONTACT: (803) 206-7156 / RICHARD OLIVER NOTE: INSTALL SCHLUTER DITRA UNCOUPLING MEMBRANE PER MANUFACTURER SPECIFICATIONS UNDER ALL PORCELAIN TILE, SEE ID3.1B FOR DETAILS.
PT-3	MFR: FLORIM USA-MILESTONE STYLE: GALAXY 1095561 COLOR: GALAXY NERO MATTE SIZE: 6" x 24" x 9mm THICK GROUT: EPOXY - LATICRETE - 22 MIDNIGHT BLACK TRANSITION STRIPS: CONTRACTOR TO SUBMIT SCHLUTER METAL TRIM RENO-TK TO INTERIOR DESIGNER FOR COLOR SELECTIONS. INSTALLATION PATTERN: REFER TO DRAWINGS CONTACT: (803) 206-7156 / RICHARD OLIVER NOTE:INSTALL SCHLUTER DITRA UNCOUPLING MEMBRANE PER MANUFACTURER SPECIFICATIONS UNDER ALL PORCELAIN TILE, SEE ID3.1B FOR DETAILS.
PTB-1	NOT USED
PTB-2	MFR: FLORIM USA-MILESTONE STYLE: GALAXY 1095565 COLOR: GALAXY GRIGIO MATTE SIZE: 6" x 24" x 9mm THICK **PTB MAY NEED TO BE CUT AT CORNER GUARDS & OTHER STRUCTURAL ELEMENTS** GROUT: EPOXY - LATICRETE - 22 MIDNIGHT BLACK EXPANSION JOINT: CONTRACTOR TO SUBMIT SCHLUTER DILEX-BWA TO INTERIOR DESIGNER FOR COLOR SELECTIONS. FINISHING TRIM: CONTRACTOR TO SUBMIT SCHLUTER SCHIENE TO INTERIOR DESIGNER FOR APPROVAL. INSTALLATION PATTERN: REFER TO DRAWINGS CONTACT: (803) 206-7156 / RICHARD OLIVER
RB-1	MFR: ROPPE COLLECTION: 700 SERIES STYLE: RUBBER 700 SERIES, 4 1/2"H W/ TOE COLOR: 123 CHARCOAL SIZE: 4 1/2" x 120' COILS CONTACT: (336) 260-3783 / STEVE SLOAN
RB-2	MFR: ROPPE COLLECTION: 700 SERIES STYLE: RUBBER 700 SERIES, 4 1/2"H W/ TOE COLOR: 624 CHAMELEON SIZE: 4 1/2" x 120' COILS CONTACT: 336-260-3783 / STEVE SLOAN
RB-3	MFR: ROPPE COLLECTION: TUB MOLDING STYLE:190 COLOR: SNOW SIZE: 1" H x 120' COILS NOTE: TO BE INSTALLED AT TUB FACES ONLY. TYPICAL ALL RESIDENTIAL BATHROOMS, TYPICAL FLOORS 2-17. CONTACT: 336-260-3783 / STEVE SLOAN
RF-1	MFR: ROPPE COLLECTION: MARBLEIZED STYLE: #993 TEXTURED DESIGN COLOR: M123 CHARCOAL SIZE: 19 11/16" x 19 11/16" TEXTURE: 93 TEXTURED INSTALLATION PATTERN: STRAIGHT LAY CONTACT: 336-260-3783 / STEVE SLOAN
ST-1	MFR: ROPPE COLLECTION: RAISED DESIGN RUBBER TREAD STYLE: #93 TEXTURED TREAD COLOR: M123 CHARCOAL VISUAL STRIP COLOR: KK BLACK SIZE: CONTRACTOR TO DETERMINE BASED ON STAIR WIDTH TEXTURE: 93 TEXTURED INSTALLATION PATTERN: N/A CONTACT: 336-260-3783 / STEVE SLOAN

NOTE: ALL FINISHES MUST MEET FLAME SPREAD REQUIREMENTS. INSTALL ALL MATERIALS PER MANUFACTURER'S RECOMMENDATIONS.

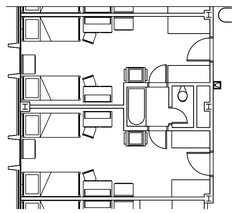
TYPICAL FURNITURE DIAGRAMS:

FOR REFERENCE WHEN RE-INSTALLING EXISTING OR RELOCATED FURNITURE; USE DIAGRAMS FOR PLACEMENT ONLY.



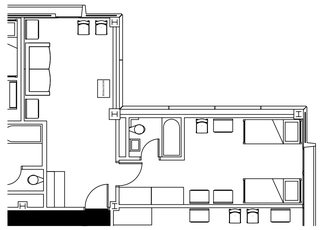
1 / F1.0 TYPICAL CORNER STUDENT SUITE

SCALE: 1/8" = 1'-0"



2 / F1.0 TYPICAL FLOOR STUDENT SUITE

SCALE: 1/8" = 1'-0"



3 / F1.0 TYPICAL 17TH FLOOR STUDENT SUITE

SCALE: 1/8" = 1'-0"

CONSTRUCTION & RENOVATIONS
FOR UNIVERSITY HOUSING
1520 DEVINE STREET
COLUMBIA, SC 29208

PROJECT NO.
#H27-Z384

CAPSTONE
BUILDING #: 039

UNIVERSITY OF SOUTH CAROLINA

REVISIONS

NO.	DATE	DESCRIPTION
1	04-02-19	ADDENDUM #3

DATE: 02-27-2019

F1.0

FINISH LEGEND & FURNITURE PLANS

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Project information.
2. Work covered by Contract Documents.
3. Work performed by Owner.
4. Work under Owner's separate contracts.
5. Contractor's use of site and premises.
6. Work restrictions.
7. Specification and Drawing conventions.

B. Related Requirements:

1. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.
2. Section 017300 "Execution" for coordination of Owner-installed products.

1.3 DEFINITIONS

A. Work Package: A group of specifications, drawings, and schedules prepared by the design team to describe a portion of the Project Work for pricing, permitting, and construction.

B. “Move in ready condition”: defined as all affected interior surfaces must be wiped down and/or vacuumed, to remove all dust and debris, excess adhesives, excess grouts, in accordance to manufacturers’ recommended cleaning instructions for each product.

1.4 PROJECT INFORMATION

A. Project Identification: USC Capstone Flooring Renovation Project.

1. Project Location: 902 Barnwell Street | Columbia, SC.

B. Owner: University Housing, The University of South Carolina.

C. Owner's Procurement Representative: Clarissa Clark, clarkcg2@mailbox.sc.edu.

D. Owner's Project Manager: James Sherry, JSHERRY@mailbox.sc.edu

E. Architect: 1X1 Design Inc., Asheley Scott St. John

1. Architect's Representative: Anna Gray Fender, afender@1x1design.com.

F. General Contractor:

1. The Contractor will have one joint point of contact for the duration of this project, the Architect/Owner's Representative. At no time is the Contractor to ask questions or take direction from any other individuals. Should an incident occur where they are approached by University staff, the Contractor must direct that person to the Owner's Representative.

1.5 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of Project is defined by the Contract Documents and includes, but is not limited to, the following:

1. The contractor must furnish all labor, materials and equipment required to perform the following: protect, prepare, and perform removal of carpet, VCT, rubber landings, stair treads and base as called out; preparation of all substrates according to manufacturer guidelines; replacement with new carpet tiles, LVT, porcelain tile and base, rubber landings, and stair treads basement through 19th floor in the following Residence Hall: Capstone - This building is 158,201 gross square feet with 18 floors including 17 residential floors, main lobby and basement. There are 309 student Suite-style resident rooms, and a small variety of common lounges, studies, residential learning spaces, and offices and other Work indicated contractor shall remove/demo wall base and flooring as shown in the Contract Documents. Hazmat: The bid documents and drawings. All hazmat abatement called out in drawings will be completed under University Health and Safety Direction by a Certified University procured Hazmat Contractor and not in scope of GC. Contractor shall remove/demo wall base and flooring as shown in bid documents and drawings. All hazmat abatement called out in drawings will be completed under University Health and Safety Direction by a Certified University procured Hazmat Contractor and not in scope of GC.

2. Most furniture will remain in the building. Furniture remaining in building must be moved from one side to another, as needed for work by flooring Contractor. At the end of the project, all furniture must be set up by flooring Contractor, per sheet F1.0, included. Personal belongings, computers, and books will be removed prior to the start of the project. Furniture remaining in the building to be coordinated by General Contractor includes the following:

a. Resident Room Furniture: 619 sets of resident room furniture; 2-sets per room. One set includes: 1-bed (spring and 2 bed ends), 1-mattress, 1-desk, and 1 chest.

b. Office Furniture: 4-sets of office furniture; Set includes; 1-desk, 1-desk return, 1-desk hutch, 2 file cabinets, 2-guest chairs, and 1-task chair.

c. Pro-staff Apartment Furniture: Includes the following; 1-sofa, 2-lounge chairs, 2+ottomans, 2-end tables, 1-queen size bed (1-headboard, 1-mattress, 1-boxspring, 1-frame), 1-dresser, 2-night stands, 4-lamps, 1-dining table, and 4-dining chairs.

B. Type of Contract:

1. Project will be constructed under a single prime contract.

C. PROPOSED PROJECT SCHEDULE

1. Project Advertisement: As posted on SCBO

2. Pre-Bid Conference: As indicated in SE-310 and modified by any Addenda

3. Bid /Submittal Due Date: As indicated in SE-310 and modified by any Addenda

4. Issuance of Notice of Intent to Award: As established in Bid Opening

5. Issuance of Notice to Proceed: Ten (10) days following the Notice of Intent to Award (NOTE: This is the contractual start date)

6. Pre-construction Activities: To be ongoing starting with the date of the Issuance of the Notice to Proceed and concluding as deemed necessary by the awarded Contractor.

a. Activities are intended to include Pre-Construction Meeting, Submittal Review, Construction Schedule, and other activities as required by the project scope.

7. USC Housing Full Access to Project Site; All Other Contractors have Limited Access to Project Site: May 13, 2019

a. Multiple Owner contractors in building to “trash”, clean and perform University Maintenance projects., See Details, this section.

b. Access to Site for GC for existing verification- NO Construction activities should be planned for

8. HAZMAT Full Access to Project Site; All Other Contractors have Limited Access to Project Site: May 15, 2019

a. USC HAZMAT and/or third-party contractor to begin removal of hazardous materials. Schedule and sequencing to be determined during pre-construction activities.

9. General Contractor Full Access to Project Site: No Later than May 27, 2019

a. All other concurrent work performed by Owner, work under separate contracts and general University maintenance may occur at any time during this time-frame

10. Substantial Completion: July 10, 2019

    a. Contractual Date for enforcing Liquidated Damages

11. Final Completion: No Later than July 17, 2019

    a. See Project Manual for Close-Out Procedures, Observation Reports, Punch-List Requirements, Etc.

12. Ten-Month Warranty Walk-Though: Summer 2020

1.6 WORK PERFORMED BY OWNER AND WORK UNDER OWNER'S SEPARATE CONTRACTS

A. Cooperate fully with Owner, so work may be carried out smoothly, without interfering with or delaying Work under this Contract or work by Owner. Coordinate the Work of this Contract with work performed by Owner.

1. In general, the Awarded Contractor should provide a schedule for review to the Owner outlining their desired construction plan as outlined above. The Owner may be cautious releasing; all or even; the majority of floors at one time as this poses a high-risk related to this project. The Owner may be in favor of releasing up to four floors at one time, should the schedule support this plan

2. Full building/all floors should not be assumed to be released at once, but may overlap and may be coordinated at Pre-Construction meeting with Awarded General Contractor and all concurrent and subsequent parties involved.

B. Work with Separate Contractors: Cooperate fully with Owner's separate contractors, so work on those contracts may be carried out smoothly, without interfering with or delaying Work under this Contract or other contracts. Coordinate the Work of this Contract with work performed under Owner's separate contracts.

C. Preceding Work: Owner will perform the following construction operations at Project site. Those operations are scheduled to be substantially complete before Work under this Contract begins.

1. University Maintenance to complete “Trashing” of building after student move-out

2. HAZMAT removal of selected finish flooring and accessories. HAZMAT is intended to be fully complete with removal of hazardous materials within specified boundaries prior to turn-over of spaces to General Contractor. For example, HAZMAT MAY elect to turn-over several floors at a time prior to completion of the full project scope.

D. Concurrent Work: Owner will perform the following construction operations at Project site. Those operations are scheduled to be completed concurrently with the Work under this Contract.

1. Ten-month Walk-Through for Warranty Review of Interior Painting (Completed During Summer 2018) will be completed during

E. Subsequent Work: Owner will perform the following additional work at site after Substantial Completion. Completion of that work will depend on successful completion of preparatory Work under this Contract.

1. New Furniture Installation
2. Signage and Equipment Installation
3. Summer Maintenance Projects
4. Life Safety-Inspections and Testing

1.7 CONTRACTOR'S USE OF SITE AND PREMISES

A. Use of Site and Premises is clarified in Proposed Project Schedule, above, and by USC Supplemental General Conditions for Construction Projects.

B. Five (5) access cards for each building will be issued to the Contractor for the duration of the project. The access cards will be activated to allow the Contractor to enter the buildings, only during approved working hours agreed upon by the University Housing Project Manager. The Contractor will assume all responsibility for the cards, utilizing a belt loop attachment, or lanyard for added security. The Contractor will be charged $35, per card, for all cards not returned upon completion of the project. All access cards and/or red core keys must be signed out by the responsible party. If a card is misplaced, you must notify University Housing immediately, to deactivate the card and keep the building secure.

C. Keys to students' rooms, offices, and staff apartments, are prohibited. All Doors will be open by University Housing Personnel, prior to the commencement of work.

D. The Contractor is responsible for assuring all windows and entry doors are closed and locked at the end of the work shift. Maintaining security of the building must be the Contractor's responsibility for the duration of the project.

E. Unrestricted Use of Site: Contractor shall have full use of Project site for construction operations during construction period. Contractor's use of Project site is limited only by Owner's right to perform work or to retain other contractors on portions of Project.

F. Limits on Use of Site: Limit use of Project site to areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.

1. Driveways, Walkways and Entrances: Keep driveways loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or for storage of materials.

a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

G. Condition of Existing Grounds: Maintain portions of existing grounds, landscaping, and hardscaping affected by construction operations throughout construction period. Repair damage caused by construction operations.

1.8 WORK RESTRICTIONS

A. Comply with restrictions on construction operations.

1. Comply with limitations on use of public streets, work on public streets, rights of way, and other requirements of authorities having jurisdiction.

B. On-Site Work Hours: Contractor will have access and may work 24 hours a day, 7 days a week, unless otherwise indicated. Work hours may be modified to meet Project requirements if approved by Owner and authorities having jurisdiction.

1. Weekend Hours: As coordinated with Architect with prior approval from USC.
2. Early Morning Hours: As coordinated with Architect with prior approval from USC.

C. Smoking and Controlled Substance Restrictions: Use of tobacco products, alcoholic beverages, and other controlled substances on Owner's property is not permitted.

D. Employee Identification: Provide identification tags for Contractor personnel working on Project site. Require personnel to use identification tags at all times.

E. Employee Screening: Comply with Owner's requirements for drug and background screening of Contractor personnel working on Project site.

1. Maintain list of approved screened personnel with Owner's representative.

F. Contractors must be responsible to ensure the professional conduct of their employees and Subcontractors while on University property and will be held accountable for any conduct that violates University policy.

G. In accordance with University Policy, sexual harassment, discrimination and the use of alcohol or drugs is strictly forbidden. Refer to: http://www.sc.edu/policies/policiesbydivision.php for policy details.

H. Proper attire must be worn always. Tank tops, shorts and open toe shoes are not permitted on site, at any time.

I. The Contractor must not allow its workers and Subcontractors to dispose any food waste/items into their construction dumpster to prevent potential rodent infestation of the dumpster. All food/waste items must be removed daily from inside the buildings and disposed of off Campus daily.

J. Workers are prohibited from standing on or using existing furniture (i.e., desks, desk chair, beds, etc.) for any reason, including in lieu of approved stepladders.

K. Bathroom sinks, showers or tubs may not be used for the cleaning of Contractor tools and equipment, except where designated by University Housing Project Manager. Refer to drawings for locations.

L. The Contractor will not be allowed to access any rooms or buildings, that do not require any work under this project, for any reason. Contractors found in areas, other than as designated in this project, must be found to be trespassing, and will be reported to authorities.

M. Damage to state property: Extreme care must be exercised to avoid damaging tree, shrubs, plants, containers, buildings, or other structures. If any of the above is damaged or destroyed due to negligence of the Contractor, it will be the responsibility of the Contractor to repair or replace at no cost to the University.

1.9 SPECIFICATION AND DRAWING CONVENTIONS

A. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.

B. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:

1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
2. Abbreviations: Materials and products are identified by abbreviations scheduled on Drawings.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

SECTION 093013 - CERAMIC TILING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Porcelain tile.
2. Thresholds.
3. Waterproof membrane for thinset applications.
4. Crack isolation membrane.
5. Metal edge strips.

1.3 DEFINITIONS

A. General: Definitions in the ANSI A108 series of tile installation standards and in ANSI A137.1 apply to Work of this Section unless otherwise specified.

B. ANSI A108 Series: ANSI A108.01, ANSI A108.02, ANSI A108.1A, ANSI A108.1B, ANSI A108.1C, ANSI A108.4, ANSI A108.5, ANSI A108.6, ANSI A108.8, ANSI A108.9, ANSI A108.10, ANSI A108.11, ANSI A108.12, ANSI A108.13, ANSI A108.14, ANSI A108.15, ANSI A108.16, and ANSI A108.17, which are contained in its "Specifications for Installation of Ceramic Tile."

C. Face Size: Actual tile size, excluding spacer lugs.

D. Module Size: Actual tile size plus joint width indicated.

1.4 PREINSTALLATION MEETINGS

A. Pre-installation Conference: Conduct conference at Project site.

1. Review requirements in ANSI A108.01 for substrates and for preparation by other trades.

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Show locations of each type of tile and tile pattern. Show widths, details, and locations of expansion, contraction, control, and isolation joints in tile substrates and finished tile surfaces.

C. Samples for Verification:

1. Full-size units of each type and composition of tile and for each color and finish required.
2. Thresholds in 6-inch lengths.
3. Metal edge strips in 6-inch lengths.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

1.7 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed for each type, composition, color, pattern, and size indicated.

2. Grout: Furnish quantity of grout equal to 3 percent of amount installed for each type, composition, and color indicated.

1.8 QUALITY ASSURANCE

A. Installer Qualifications:

1. Installer is a Five-Star member of the National Tile Contractors Association or a Trowel of Excellence member of the Tile Contractors' Association of America.
2. Installer's supervisor for Project holds the International Masonry Institute's Foreman Certification.
3. Installer employs only Ceramic Tile Education Foundation Certified Installers or installers recognized by the U.S. Department of Labor as Journeyman Tile Layers for Project.
4. Installer employs at least one installer for Project that has completed the Advanced Certification for Tile Installers (ACT) certification for installation of mud floors membranes.

B. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Build mockup of each type of floor tile installation.
2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements in ANSI A137.1 for labeling tile packages.

B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.

C. Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.

D. Store liquid materials in unopened containers and protected from freezing.

1.10 FIELD CONDITIONS

A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations for Tile: Obtain tile of each type and color or finish from single source or producer.

1. Obtain tile of each type and color or finish from same production run and of consistent quality in appearance and physical properties for each contiguous area.

2. Manufactures: Subject to compliance with requirements, provide products by one of the following:
   (1) Milestone (Formerly Florim USA). (Galaxy; Basis of Design)
   (2) Interceramic.
   (3) Roca.

B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from single manufacturer and each aggregate from single source or producer.

1. Obtain setting and grouting materials, except for unmodified Portland cement and aggregate, from single manufacturer.

2. Obtain waterproof membrane and crack isolation membrane, except for sheet products, from manufacturer of setting and grouting materials.

3. Manufactures: Subject to compliance with requirements, provide products by one of the following:
   (1) Laticrete. (Basis of Design)

(2) Ardex.
(3) Custom.

C. Source Limitations for Other Products: Obtain each of the following products specified in this Section from a single manufacturer:

a. Thresholds.
b. Waterproof membrane.
c. Crack isolation membrane.
d. Metal edge strips.

1. Manufactures: Subject to compliance with requirements, provide products by one of the following:
(1) Schluter. (Basis of Design)
(2) Blanche.
(3) Profilitec.

1.2 PRODUCTS, GENERAL

A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.

1. Provide tile complying with Standard grade requirements.

B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.

C. Factory Blending: For tile exhibiting color variations within ranges, blend tile in factory and package so tile units taken from one package show same range in colors as those taken from other packages and match approved Samples.

D. Mounting: For factory-mounted tile, provide back- or edge-mounted tile assemblies as standard with manufacturer unless otherwise indicated.

1.3 TILE PRODUCTS

A. Ceramic Tile Type PT-2: Unglazed Porcelain Tile (“Matte Finish”).

1. Milestone; Galaxy 1095565; Color Body Porcelain (Basis of Design)
2. Certification: Tile certified by the Porcelain Tile Certification Agency.
3. Face Size: 12 by 24 inches.
4. Face Size Variation: Pressed/Non-Rectified.
5. Thickness: 9mm.
6. Face: As indicated.
7. Dynamic Coefficient of Friction: Not less than 0.42.
8. Tile Color, Glaze, and Pattern: As indicated on Finish Material Legend.

9. Grout Color: As indicated on Finish Material Legend.

B. Ceramic Tile Type PT-3: Unglazed Porcelain Tile (“Matte Finish”).

1. Milestone; Galaxy 1095561; Color Body Porcelain (Basis of Design)
2. Certification: Tile certified by the Porcelain Tile Certification Agency.
3. Face Size: 6 by 24 inches.
4. Face Size Variation: Pressed/Non-Rectified.
5. Thickness: 9mm.
6. Face: As indicated.
7. Dynamic Coefficient of Friction: Not less than 0.42.
8. Tile Color, Glaze, and Pattern: As indicated on Finish Material Legend.
9. Grout Color: As indicated on Finish Material Legend.

C. Ceramic Tile Type - PTB-2: Unglazed Porcelain Tile (“Matte Finish”).

1. Milestone; Galaxy 1095565 (6”x24”); Color Body Porcelain (Basis of Design)
2. Certification: Tile certified by the Porcelain Tile Certification Agency.
3. Face Size: 12 x 24 inches (Cut in Half = 6 x 24 inches)
4. Face Size Variation: Pressed/Non-Rectified.
5. Thickness: 9mm.
6. Face: As indicated.
7. Dynamic Coefficient of Friction: Not less than 0.42.
8. Tile Color, Glaze, and Pattern: As indicated on Finish Material Legend.
9. Grout Color: As indicated on Finish Material Legend.
10. Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable and matching characteristics of adjoining flat tile. Provide finish trim as follows, selected from manufacturer's standard shapes:

    a. Base Cap: Schluter-SCHIENE (Basis of Design); finish as selected by Manufacture’s Full Range.

1.4 THRESHOLDS

A. General: Provide ADA Compliant profiles indicated or required to provide transition between adjacent floor finishes.

B. Thresholds:

1. Description: Provide Schluter- RENO-TK, at transitions between CPT and PT on Frist Floor. Finish as selected by Manufacturer’s Full Range. Match Architect's sample; coordinate with Owner for final approval.

1.5 CRACK ISOLATION MEMBRANE

A. General: Manufacturer's standard product, selected from the following, that complies with ANSI A118.12 for standard performance and is recommended by the manufacturer for the

application indicated. Include reinforcement and accessories recommended by manufacturer.

B. Polyethylene Sheet: Polyethylene faced on both sides with fleece webbing; 0.008-inch nominal thickness.

1. Provide Schluter- DITRA; polyethylene membrane with a grid structure of square cavities (Basis of Design)

1.6 GROUT MATERIALS

A. Sand-Portland Cement Grout: ANSI A108.10, consisting of white or gray cement and white or colored aggregate as required to produce color indicated.

B. Water-Cleanable Epoxy Grout: ANSI A118.3.

1. Laticrete; Epoxy (Basis of Design)
2. Provide product capable of withstanding continuous and intermittent exposure to temperatures of up to 140 and 212 deg F, respectively, and certified by manufacturer for intended use.

C. Grout for Pre-grouted Tile Sheets: Same product used in factory to pre-grout tile sheets.

1.7 MISCELLANEOUS MATERIALS

A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.

B. Metal Edge Strips: Angle or L-shaped, height to match tile and setting-bed thickness, metallic or combination of metal and PVC or neoprene base, designed specifically for flooring applications; stainless steel, ASTM A276/A276M or ASTM A666, 300 Series exposed-edge material.

1. Schluter, RENO-TK (Finish as selected by Manufacturer's Full Range); Basis of Design

2. Schluter-SCHIENE (Finish as selected by Manufacturer's Full Range); Basis of Design

1.8 MIXING MORTARS AND GROUT

A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.

B. Add materials, water, and additives in accurate proportions.

C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

PART 2 - EXECUTION

2.1 EXAMINATION

A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
2. Verify that concrete substrates for tile floors installed with adhesives or thinset mortar comply with surface finish requirements in ANSI A108.01 for installations indicated.

    a. Verify that surfaces that received a steel trowel finish have been mechanically scarified.
    b. Verify that protrusions, bumps, and ridges have been removed by sanding or grinding.

3. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.
4. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

2.2 PREPARATION

A. Fill cracks, holes, and depressions in concrete substrates for tile floors installed with adhesives or thinset mortar with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.

B. Where indicated, prepare substrates to receive waterproof membrane by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped 1/4 inch per foot toward drains.

C. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

2.3 INSTALLATION OF CERAMIC TILE

A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA

installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.

1. For the following installations, follow procedures in the ANSI A108 series of tile installation standards for providing 95 percent mortar coverage:

    a. Tile floors consisting of tiles 8 by 8 inches or larger.

B. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.

C. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.

D. Provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges.

E. Where accent tile differs in thickness from field tile, vary setting-bed thickness so that tiles are flush.

F. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.

1. For tile mounted in sheets, make joints between tile sheets same width as joints within tile sheets so joints between sheets are not apparent in finished work.
2. Where adjoining tiles on floor, base, walls, or trim are specified or indicated to be same size, align joints.
3. Where tiles are specified or indicated to be whole integer multiples of adjoining tiles on floor, base, walls, or trim, align joints unless otherwise indicated.

G. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:

1. Porcelain Tile: 1/4 inch.

H. Lay out tile wainscots to dimensions indicated or to next full tile beyond dimensions indicated.

I. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.

1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.

J. Stone Thresholds: Install stone thresholds in same type of setting bed as adjacent floor unless otherwise indicated.

1. Do not extend waterproof membrane or crack isolation membrane under thresholds set in standard dry-set modified dry-set or improved modified dry-set mortar. Fill joints between such thresholds and adjoining tile set on waterproof membrane or crack isolation membrane with elastomeric sealant.

K. Metal Edge Strips: Install where exposed edge of tile flooring meets carpet, wood, or other flooring that finishes flush with or below top of tile and no threshold is indicated.

L. Floor Sealer: Apply floor sealer to grout joints in tile floors according to floor-sealer manufacturer's written instructions. As soon as floor sealer has penetrated grout joints, remove excess sealer and sealer from tile faces by wiping with soft cloth.

2.4 INSTALLATION OF WATERPROOF MEMBRANE

A. Install waterproof membrane to comply with ANSI A108.13 and manufacturer's written instructions to produce waterproof membrane of uniform thickness that is bonded securely to substrate.

B. Allow waterproof membrane to cure and verify by testing that it is watertight before installing tile or setting materials over it.

2.5 INSTALLATION OF CRACK ISOLATION MEMBRANE

A. Install crack isolation membrane to comply with ANSI A108.17 and manufacturer's written instructions to produce membrane of uniform thickness that is bonded securely to substrate.

B. Allow crack isolation membrane to cure before installing tile or setting materials over it.

2.6 ADJUSTING AND CLEANING

A. Remove and replace tile that is damaged or that does not match adjoining tile. Provide new matching units, installed as specified and in a manner to eliminate evidence of replacement.

B. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.

1. Remove grout residue from tile as soon as possible.
2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.

2.7 PROTECTION

A. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors.

B. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.

C. Before final inspection, remove protective coverings and rinse neutral protective cleaner from tile surfaces.

END OF SECTION 093013

SECTION 096513 - RESILIENT BASE AND ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Thermoplastic-rubber base.
2. Rubber stair accessories.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For each exposed product and for each color and texture specified, not less than 12 inches long.

C. Samples for Verification: For each type of product indicated and for each color, texture, and pattern required in manufacturer's standard-size Samples, but not less than 12 inches long.

1.4 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Furnish not less than 10 linear feet for every 500 linear feet or fraction thereof, of each type, color, pattern, and size of resilient product installed.

1.5 QUALITY ASSURANCE

A. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.

1. Coordinate mockups in this Section with mockups specified in other Sections.
2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F or more than 90 deg F.

1.7 FIELD CONDITIONS

A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 95 deg F, in spaces to receive resilient products during the following periods:

1. 48 hours before installation.
2. During installation.
3. 48 hours after installation.

B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F or more than 95 deg F.

C. Install resilient products after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 THERMOPLASTIC-RUBBER BASE – RB-1, RB-2

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Roppe (Basis of Design)
2. Johnsonite
3. Mannington

B. Product Standard: ASTM F 1861, Type TP (rubber, thermoplastic).

1. Group: I solid, homogeneous.
2. Style and Location:

a. Style Cove: (Renovation Style) As indicated per Drawings.

C. Thickness: 1/8 inch.

D. Height: As indicated on Drawings.

E. Lengths: Coils in manufacturer's standard length.

F. Outside Corners: Job formed.

G. Inside Corners: Job formed.

H. Colors: As indicated on Drawings.

2.2 THERMOPLASTIC-RUBBER BASE – RB-3

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Roppe (Basis of Design)
2. Johnsonite
3. Mannington

B. Product Standard: ASTM F 1861, Type TP (rubber, thermoplastic).

1. Group: I solid, homogeneous.
2. Style and Location:

a. Style Cove: (Tub Molding) As indicated per Drawings.

C. Thickness: 1/8 inch.

D. Height: As indicated on Drawings.

E. Lengths: Coils in manufacturer's standard length.

F. Outside Corners: Job formed.

G. Inside Corners: Job formed.

H. Colors: As indicated on Drawings.

2.3 RUBBER STAIR ACCESSORIES – ST-1, RF-1

A. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.

1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Roppe (Basis of Design)
2. Johnsonite
3. Mannington

C. Stair Treads: ASTM F 2169.

1. Type: TP (rubber, thermoplastic).
2. Class: 2 (pattern; embossed, grooved, or ribbed).
3. Group: 2 (with contrasting color for the visually impaired).
4. Nosing Style: Square, adjustable to cover angles between 60 and 90 degrees.
5. Nosing Height: As required per Project.
6. Thickness: As indicated on Drawings, standard per manufacture.
7. Size: Lengths and depths to fit each stair tread in one piece.

D. Landing Tile (RF-1): Matching treads; produced by same manufacturer as treads and recommended by manufacturer for installation with treads. See Drawings for more information.

E. Colors and Patterns: As indicated on Drawings.

2.4 INSTALLATION MATERIALS

A. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.

B. Stair-Tread Nose Filler: Two-part epoxy compound recommended by resilient stair-tread manufacturer to fill nosing substrates that do not conform to tread contours.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

1. Installation of resilient products indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.

B. Concrete Substrates for Resilient Stair Accessories: Prepare horizontal surfaces according to ASTM F 710.

1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 9 pH.
4. Moisture Testing: Perform tests so that each test area does not exceed 200 sq. ft. 1000 sq. ft., and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.

C. Do not install resilient products until materials are the same temperature as space where they are to be installed.

1. At least 48 hours in advance of installation, move resilient products and installation materials into spaces where they will be installed.

D. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.

3.3 RESILIENT BASE INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient base.

B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.

D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.

E. Do not stretch resilient base during installation.

F. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.

G. Preformed Corners: Install preformed corners before installing straight pieces.

H. Job-Formed Corners:

1. Outside Corners: Use straight pieces of maximum lengths possible and form with returns not less than inches in length.

a. Form without producing discoloration (whitening) at bends.

2. Inside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 8 inches in length.

a. Miter or cope corners to minimize open joints.

3.4 RESILIENT ACCESSORY INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient accessories.

B. Resilient Stair Accessories:

1. Use stair-tread-nose filler to fill nosing substrates that do not conform to tread contours.
2. Tightly adhere to substrates throughout length of each piece.
3. For treads installed as separate, equal-length units, install to produce a flush joint between units.

C. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor covering that would otherwise be exposed.

3.5 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.

B. Perform the following operations immediately after completing resilient-product installation:

1. Remove adhesive and other blemishes from surfaces.
2. Sweep and vacuum horizontal surfaces thoroughly.
3. Damp-mop horizontal surfaces to remove marks and soil.

C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

D. Cover resilient products subject to wear and foot traffic until Substantial Completion.

END OF SECTION 096513