HUNTSVILLE HOUSING AUTHORITY

Growing Communities One Family At A Time

ADDENDUM NO. 3
February 5th, 2026

INVITATION FOR BID (IFB)
IFB NO. 2025-12
RADON MITIGATION VARIOUS SITES

This addendum to subject IFB, is a result of drawing and specification updates that occurred after the issue of the IFB dated January 12th, 2026. Additional questions are expected, but none are addressed in this addendum. The additional questions will be responded to in a follow-up addendum.

Question 3.1: Lincoln Park Building 405 unit B has an existing radon mitigation system. I did not check to see if the fan was operating, but this may be a repair.

Answer 3.1: *It is our understanding that that system is no longer functioning.*

Question 3.2: Is post mitigation testing required in the scope of this project?

Answer 3.2: *Yes, See specification 312113 section 3.3 and 3.4 of the project manual.*

Question 3.3: Stone Manor has a TPO rubber roof, would you like the fan installed on the roof or switch to a full exterior system?

Answer 3.3: *To align with how the other properties are designed and installed, please install the fan on the roof.*

Question 3.4: Are there any phase or schedule restrictions? We would like to start and finish in one go, but if HHA has any schedule or plan that may change pricing.

Answer 3.4: *Phasing is not required. There are HHA working schedule restrictions indicated in specification 011000, section 1.6. Please note that section 011000 1.5 indicates that each of the six sites will be occupied the whole time. Coordination with owner for unit access will be required.*

Question 3.5: What would HHA like the protocol to be upon entering units with unsanitary working conditions (Cockroaches, Bed Bugs. etc)?

Answer 3.5: *If unsanitary or unsafe working conditions are encountered upon entry, the contractor shall immediately notify the Property Manager. If the Property Manager is unavailable, the contractor may contact HHA's Public Housing Director directly at 256-755-6313 for further direction before proceeding.*

Question 3.6: Will there be a maintenance person available to move tenant materials in proposed locations for installation?

Answer 3.6: *HHA can make maintenance staff available on an as-needed basis to assist with moving tenant materials; however, staffing availability is limited. Contractors should coordinate in advance and be prepared to proceed efficiently, as maintenance staff will not be assigned to remain on-site without active tasks due to ongoing unit turnover and staffing constraints.*

Question 3.7: Testing: Are we to retest the entire building with the elevated unit? Or just the unit we mitigated? Location: Are exterior systems acceptable for <u>ALL</u> units requiring mitigation?

Answer 3.7: *See specification 312113 section 3.3 and 3.4 of the project manual. Testing of each system installed on this project is required. Refer to Question and Response 3.3 of this document.*

Clarification 3.8: *Specification 312113 is re-issued to remove the "Preliminary Stamp" that was on page 1 of the original IFB documents.*

Clarification 3.9: *Sheet A-101.1 – Updated legend definitions. The work involves units that that tested above 4.0 pCi/L.*

Clarification 3.10: *Sheet A-102.1 – Updated legend definitions. The work involves units that that tested above 4.0 pCi/L.*

Clarification 3.11: *Sheet A-103.1 – Updated legend definitions. The work involves units that that tested above 4.0 pCi/L.*

Clarification 3.12: *Sheet A-103.2 – Added a legend. Note: New chases may pass units that that tested below 4.0 pCi/L. Also added "preferred placement" text.*

Clarification 3.13: *Sheet A-103.3 – Added a legend. Note: New chases may pass units that that tested below 4.0 pCi/L. Also added "preferred placement" text.*

Clarification 3.14: *Sheet A-104.1 – Updated legend definitions. The work involves units that that tested above 4.0 pCi/L.*

Clarification 3.15: *Sheet A-105.1 – Updated legend definitions. The work involves units that that tested above 4.0 pCi/L.*

Clarification 3.16: *Sheet A-106.1 – Updated legend definitions. The work involves units that that tested above 4.0 pCi/L. Note: New chases may pass units that that tested below 4.0 pCi/L.*

* All other aspects of the scope are not affected by this addendum and shall be bid accordingly.

This addendum forms a part of the Contract Documents and modifies the original IFB. All terms and conditions in the original IFB dated January 12th, 2026, and subsequent addendums, remain the same.

Additionally, your submitted response shall acknowledge the receipt of this Addendum.

L.R. PATTON
291 SEMINOLE DRIVE
HUNTSVILLE, ALABAMA

LEGEND:

BUILDING - A 200	- BUILDING TYPE BUILDING NUMBER
Ⓐ	- UNIT TYPE
	- UNITS WITH RADON LEVELS ABOVE 4.0 pCi/L
	- UNITS WITH RADON LEVELS BELOW 4.0 pCi/L
	- CONTRACT LIMITS
	- UNTESTED/INVALID TESTING (NOT IN CONTRACT)

SITE PLAN
LR PATTON ARCHITECTURAL SITE PLAN

1" = 40'-0"
0 10' 20' 40' 80'

EDT THA ARCHITECTURE
8514 Whitesburg Drive
Huntsville, AL 35802
office 256.883.8496
www.edttha.com

STATE OF ALABAMA
JENNIFER THORINGTON-HINES
REG.NO.7099
REGISTERED ARCHITECT

HHA RADON VARIOUS SITES

OWNER
HUNTSVILLE HOUSING AUTHORITY

PROJECT ADDRESS
200 WASHINGTON STREET
P.O. BOX 486
HUNTSVILLE, AL 35804

ISSUE DATE
02/04/2026

ISSUED
BID DOCUMENTS

ADPH NUMBER

PROJECT NUMBER
26T-00100 & 26T-00200

REVISIONS

No.	Description	Date
1	ADDENDUM #2	1/26/26
2	ADDENDUM #3	2/4/2026

DRAWING TITLE
LR PATTON ARCHITECTURAL SITE PLAN

DRAWING NO.
A-101.1

SEARCY HOMES
426 DALLAS AVENUE
HUNTSVILLE, ALABAMA

LEGEND:

BUILDING - A
200

- BUILDING TYPE
BUILDING NUMBER

A - UNIT TYPE

- UNITS WITH RADON LEVELS ABOVE 4.0 pCi/L

- UNITS WITH RADON LEVELS BELOW 4.0 pCi/L

- CONTRACT LIMITS

- UNTESTED/INVALID TESTING (NOT IN CONTRACT)

BUILDING B 400
BUILDING B 402
BUILDING E 404
BUILDING C 406
BUILDING D 408
BUILDING C 410
BUILDING A 401
BUILDING C 403
BUILDING D 405
BUILDING E 407
BUILDING B 409
BUILDING A 500
BUILDING C 502
BUILDING D 504
BUILDING E 506
BUILDING A 508
BUILDING A 510
BUILDING A 512
BUILDING D 412
BUILDING D 414
BUILDING E 416
BUILDING B 418
BUILDING A 411
BUILDING A 413
BUILDING C 415
BUILDING E 417
BUILDING E 419
BUILDING D 420
BUILDING D 422
BUILDING D 424
BUILDING D (MIRRORED) 421
BUILDING E 423
BUILDING D 425
BUILDING D 514
BUILDING A 516
BUILDING C 300
BUILDING B 302
BUILDING A 400
(NOT IN CONTRACT)
OFFICE

DALLAS AVENUE
CHURCH STREET
MONROE STREET
HOLMES AVENUE

SITE PLAN
SEARCY HOMES_ARCHITECTURAL SITE PLAN
1" = 40'-0"
0 1' 2' 4' 8'

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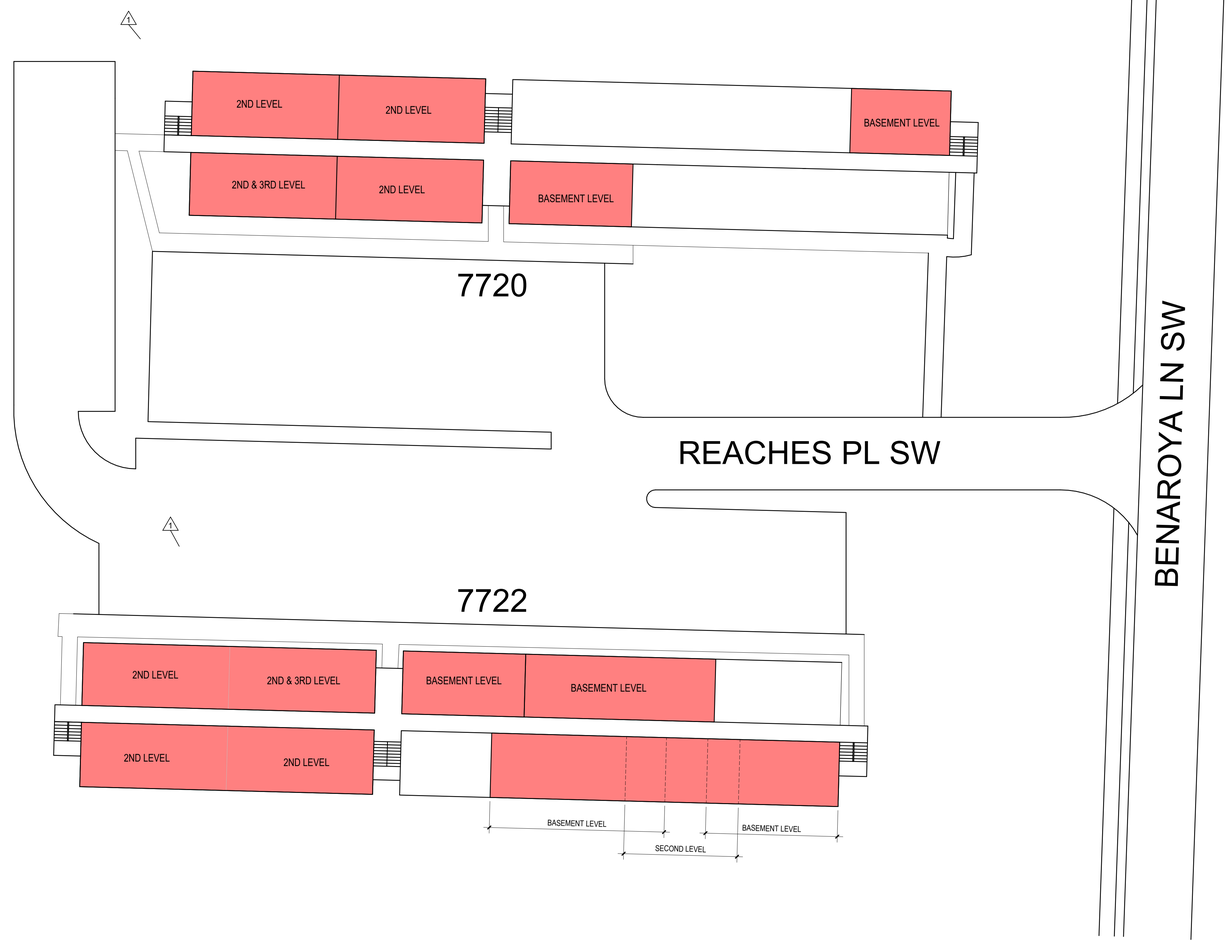
DRAWING TITLE
SEARCY HOMES
ARCHITECTURAL
SITE PLAN

DRAWING NO.
A-102.1

STONE MANOR
7720 & 7722 BENAROYA LN SW, HUNTSVILLE, AL 35802



LEGEND:

BUILDING - A
200 - BUILDING TYPE
BUILDING NUMBER

Ⓐ - UNIT TYPE

- UNITS WITH RADON LEVELS ABOVE 4.0 pCi/L
- UNITS WITH RADON LEVELS BELOW 4.0 pCi/L
- CONTRACT LIMITS
- UNTESTED/INVALID TESTING (NOT IN CONTRACT)

SITE PLAN
STONE MANOR SITE
1" = 20'-0"
0 5' 10' 20' 40'

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Huntsville, AL 35802
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www.edttha.com

STATE OF ALABAMA
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REG.NO.7099
REGISTERED ARCHITECT

HHA RADON VARIOUS SITES

OWNER
HUNTSVILLE HOUSING AUTHORITY

PROJECT ADDRESS
200 MADISON STREET
P.O. BOX 1466
HUNTSVILLE, AL 35804

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DRAWING TITLE
STONE MANOR ARCHITECTURAL SITE PLAN

DRAWING NO.
A-103.1

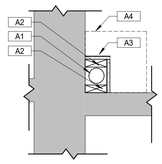
Keynote Legend New	
Key Value	Keynote Text
A1	NEW 4" PVC PIPE.
A2	NEW 2X6 WOOD STUDS. STUDS TO BE RIPPED DOWN TO 4.25" WHERE SPACE IS LIMITED.
A3	NEW 1/2" GYP BD OVER NEW WOOD STUDS.
A4	APPROXIMATE EXTENT OF EXISTING SLAB SAWCUTTING.

LEGEND

123 — UNIT NUMBER WITH RADON LEVELS ABOVE 4.0 pCi/L

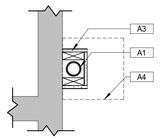
789 — UNIT NUMBER WITH RADON LEVELS BELOW 4.0 pCi/L

NOTE: NEW CHASES MAY PASS THROUGH UNITS WITH LEVELS BELOW 4.0 pCi/L



4 A-103.2 PLAN ENLARGEMENT DETAIL 1" = 1'-0"

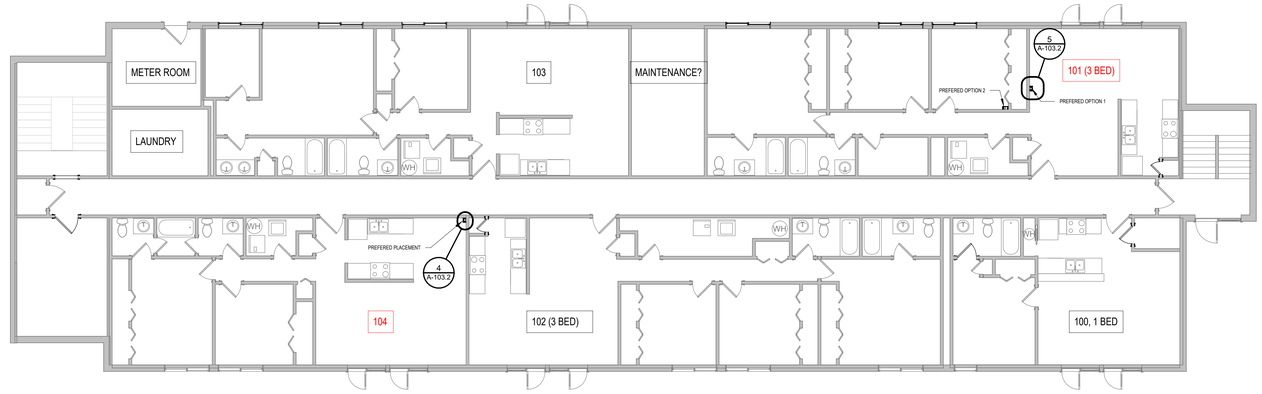
0 3" 6" 1' 2'



5 A-103.2 PLAN ENLARGEMENT DETAIL 1" = 1'-0"

0 3" 6" 1' 2'

PRIOR TO FULL DEMOLITION OF NEW CHASE, FIELD VERIFY WALL OF PREFERED CHASE LOCATION FOR UNITS 101, 201, 301. CONTACT ARCHITECT IF WALLS DO NOT ALIGN



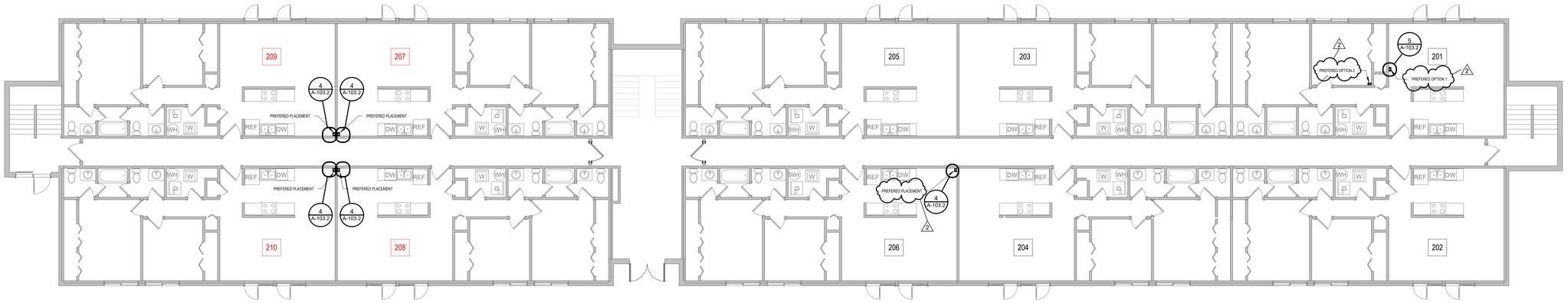
1 A-103.2 FLOOR PLAN STONE MANOR 7720 - BASEMENT FLOOR 1/8" = 1'-0"

0 2' 4' 8' 16'

FOR EACH SLAB DE-PRESSURIZATION INSTALLATION, A 3/8" TEST HOLE WILL NEED TO BE DRILLED FOR A COMMUNICATION TEST. TEST HOLE TO PATCHED USING A VINYL REPAIR KIT. COLOR OF PATCH TO MATCH EXISTING

NOTE: WHERE PVC VERTICAL PIPES DON'T ALIGN BETWEEN FLOORS, RUN PIPE HORIZONTALLY ALONG FLOOR JOISTS. DO NOT INSTALL NEW PVC PIPES THROUGH EXISTING JOIST

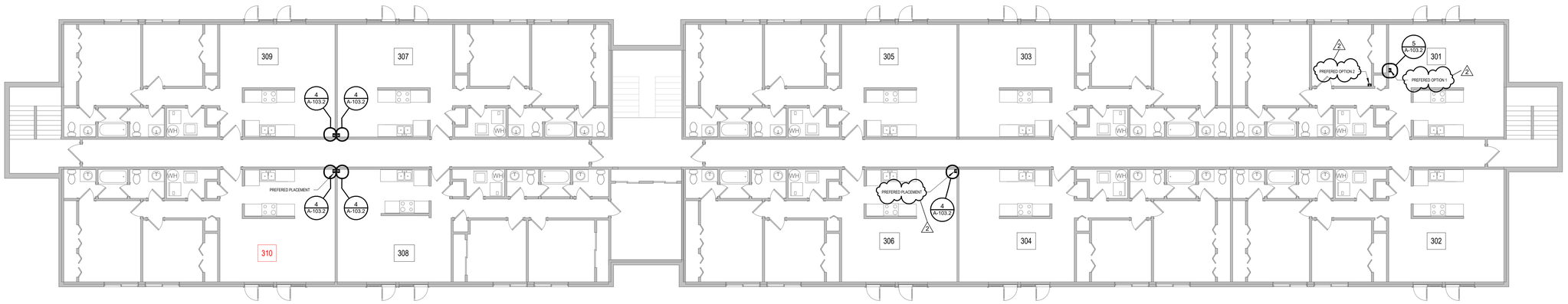
PRIOR TO FULL DEMOLITION OF NEW CHASE, FIELD VERIFY WALL OF PREFERED CHASE LOCATION FOR UNITS 101, 201, 301. CONTACT ARCHITECT IF WALLS DO NOT ALIGN



2 A-103.2 FLOOR PLAN STONE MANOR 7720 - SECOND FLOOR PLAN 1/8" = 1'-0"

0 2' 4' 8' 16'

PRIOR TO FULL DEMOLITION OF NEW CHASE, FIELD VERIFY WALL OF PREFERED CHASE LOCATION FOR UNITS 101, 201, 301. CONTACT ARCHITECT IF WALLS DO NOT ALIGN



ENTIRE SHEET REVISED VIA ADDENDUM #2

3 A-103.2 FLOOR PLAN STONE MANOR 7720 - THIRD FLOOR PLAN 1/8" = 1'-0"

0 2' 4' 8' 16'

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DRAWING TITLE
STONE MANOR FLOOR PLANS - 7720

DRAWING NO.
A-103.2

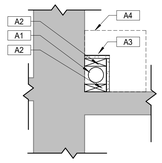
Keynote Legend New	
Key Value	Keynote Text
A1	NEW 4" PVC PIPE.
A2	NEW 2X6 WOOD STUDS. STUDS TO BE RIPPED DOWN TO 4.25" WHERE SPACE IS LIMITED.
A3	NEW 1/2" GYP BD OVER NEW WOOD STUDS.
A4	APPROXIMATE EXTENT OF EXISTING SLAB SAWCUTTING.

LEGEND

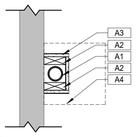
123 — UNIT NUMBER WITH RADON LEVELS ABOVE 4.0 pCi/L

789 — UNIT NUMBER WITH RADON LEVELS BELOW 4.0 pCi/L

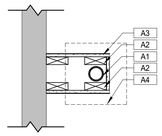
NOTE: NEW CHASES MAY PASS THROUGH UNITS WITH LEVELS BELOW 4.0 pCi/L



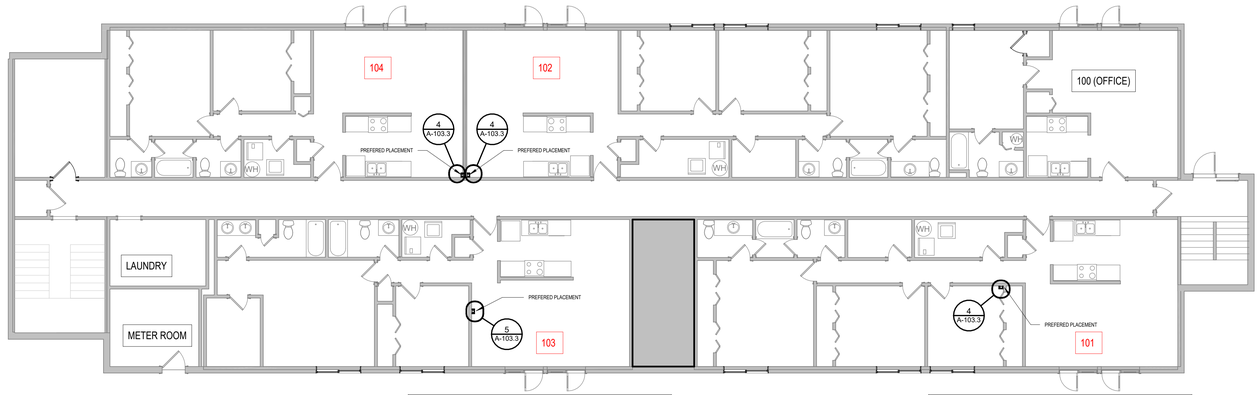
4 / A-103.3 PLAN ENLARGEMENT DETAIL — 1" = 1'-0"



5 / A-103.3 PLAN ENLARGEMENT DETAIL — 1" = 1'-0"



6 / A-103.3 PLAN ENLARGEMENT DETAIL — 1" = 1'-0"

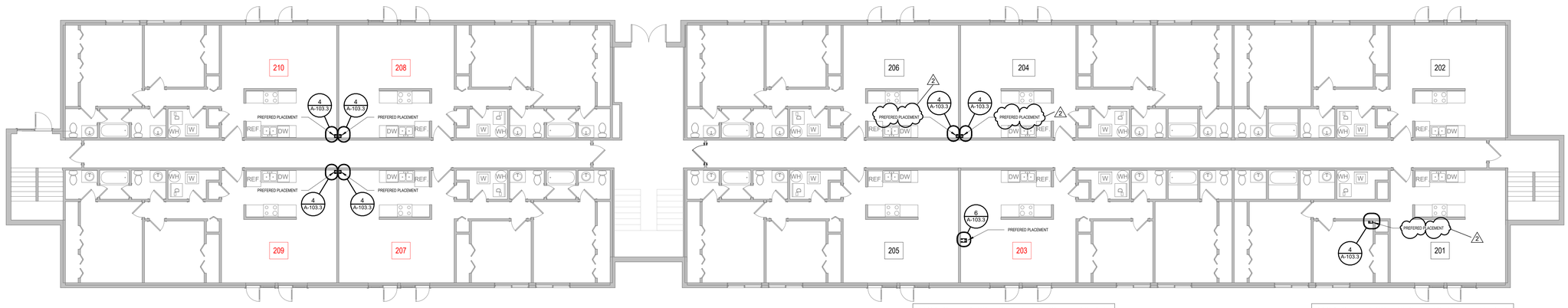


PRIOR TO FULL DEMOLITION OF NEW CHASE, FIELD VERIFY WALL OF PREFERED CHASE LOCATION FOR UNITS 103, 203, 303. CONTACT ARCHITECT IF WALLS DO NOT ALIGN

PRIOR TO FULL DEMOLITION OF NEW CHASE, FIELD VERIFY WALL OF PREFERED CHASE LOCATION FOR UNITS 101, 201, 301. CONTACT ARCHITECT IF WALLS DO NOT ALIGN

1 / A-103.3 FLOOR PLAN — STONE MANOR 7722 - BASEMENT FLOOR — 1/8" = 1'-0"

0 2' 4' 8' 16'



PRIOR TO FULL DEMOLITION OF NEW CHASE, FIELD VERIFY WALL OF PREFERED CHASE LOCATION FOR UNITS 103, 203, 303. CONTACT ARCHITECT IF WALLS DO NOT ALIGN

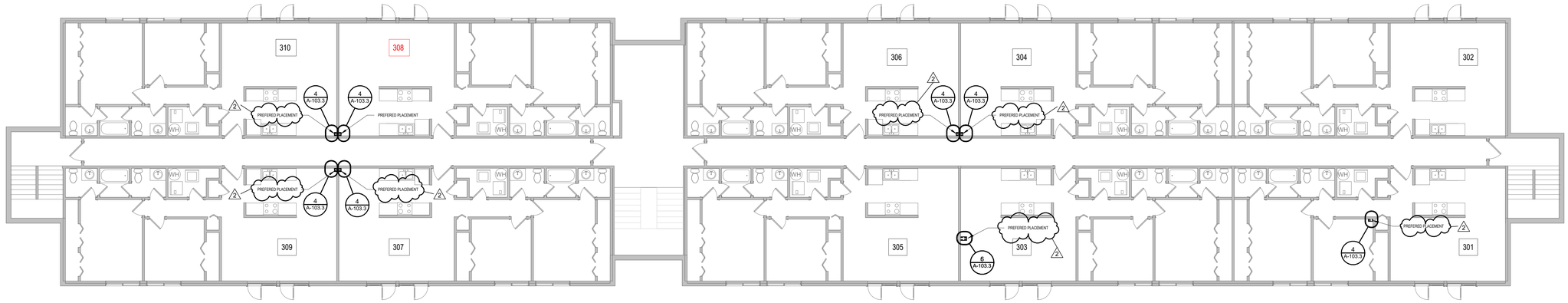
PRIOR TO FULL DEMOLITION OF NEW CHASE, FIELD VERIFY WALL OF PREFERED CHASE LOCATION FOR UNITS 101, 201, 301. CONTACT ARCHITECT IF WALLS DO NOT ALIGN

2 / A-103.3 FLOOR PLAN — STONE MANOR 7722 - SECOND FLOOR PLAN — 1/8" = 1'-0"

0 2' 4' 8' 16'

FOR EACH SLAB DE-PRESSURIZATION INSTALLATION, A 3/8" TEST HOLE WILL NEED TO BE DRILLED FOR A COMMUNICATION TEST. TEST HOLE TO PATCHED USING A VINYL REPAIR KIT. COLOR OF PATCH TO MATCH EXISTING

NOTE: WHERE PVC VERTICAL PIPES DON'T ALIGN BETWEEN FLOORS, RUN PIPE HORIZONTALLY ALONG FLOOR JOISTS. DO NOT INSTALL NEW PVC PIPES THROUGH EXISTING JOIST



PRIOR TO FULL DEMOLITION OF NEW CHASE, FIELD VERIFY WALL OF PREFERED CHASE LOCATION FOR UNITS 103, 203, 303. CONTACT ARCHITECT IF WALLS DO NOT ALIGN

PRIOR TO FULL DEMOLITION OF NEW CHASE, FIELD VERIFY WALL OF PREFERED CHASE LOCATION FOR UNITS 101, 201, 301. CONTACT ARCHITECT IF WALLS DO NOT ALIGN

SHEET ADDED IN ADDENDUM #2

3 / A-103.3 FLOOR PLAN — STONE MANOR - THIRD FLOOR PLAN — 1/8" = 1'-0"

0 2' 4' 8' 16'

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8514 Whitesburg Drive
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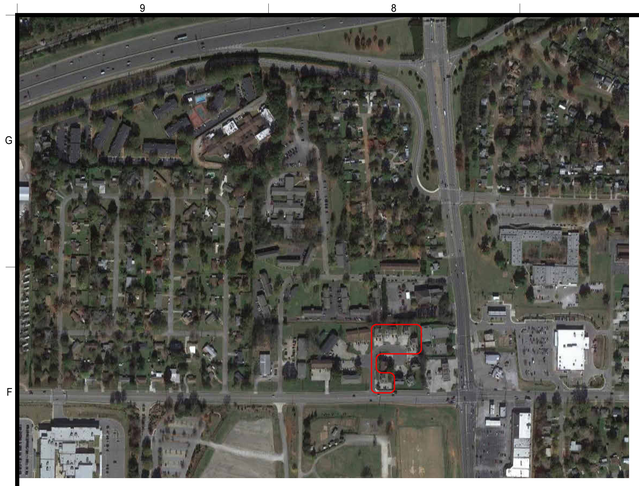
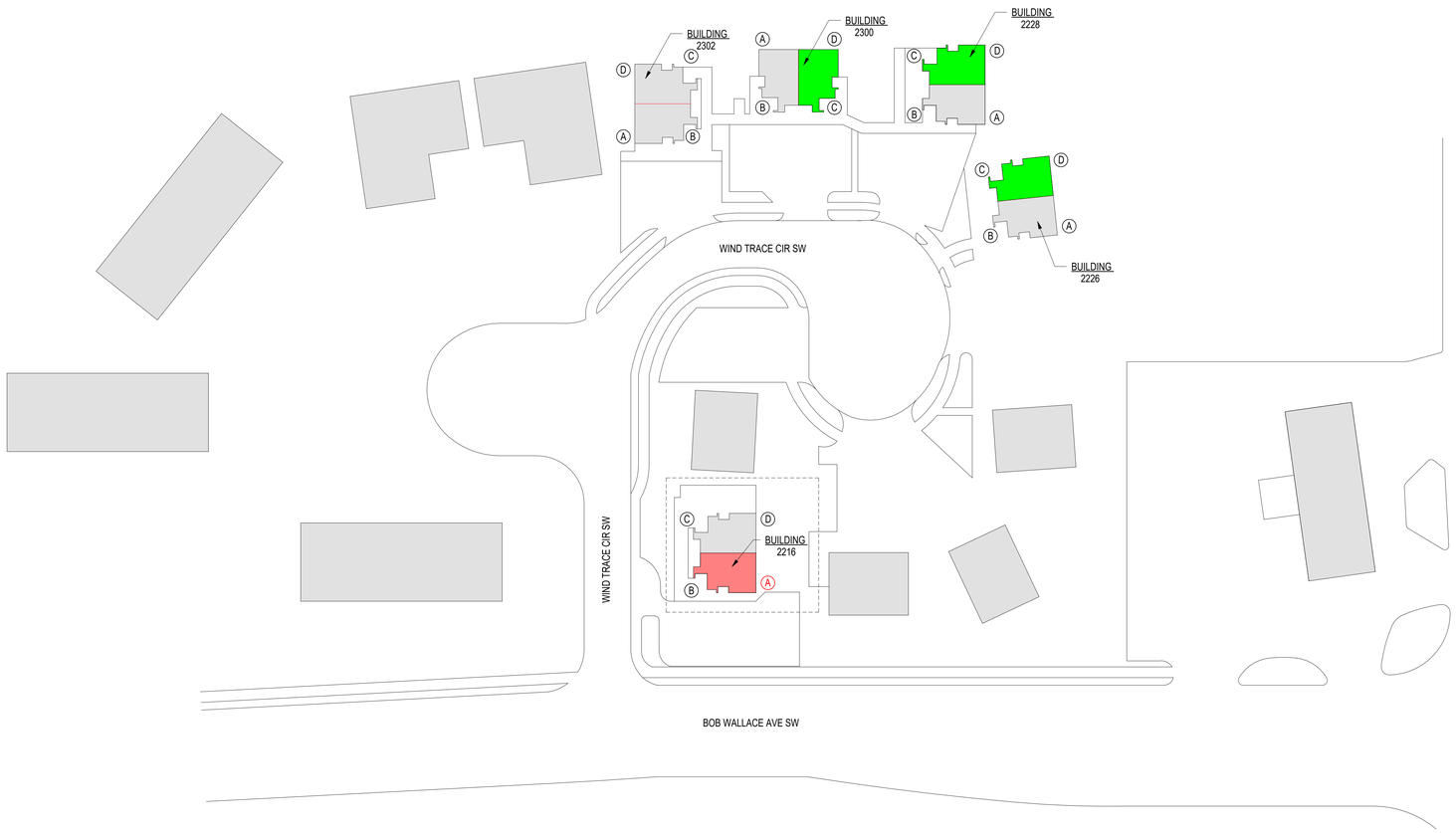
DRAWING TITLE
STONE MANOR FLOOR PLANS - 7722

DRAWING NO.
A-103.3



WIND TRACE
2300 WIND TRACE CIRCLE
HUNTSVILLE, AL 35805



SITE PLAN
WIND TRACE ARCHITECTURAL SITE PLAN

1" = 40'-0"
0 10' 20' 40' 80'

LEGEND:

BUILDING - A
200
- BUILDING TYPE
BUILDING NUMBER

- UNIT TYPE WITH RADON LEVELS BELOW 4.0 pCi/L
- UNIT TYPE WITH RADON LEVELS ABOVE 4.0 pCi/L
- UNITS WITH RADON LEVELS ABOVE 4.0 pCi/L
- UNITS WITH RADON LEVELS BELOW 4.0 pCi/L
- CONTRACT LIMITS
- UNTESTED/INVALID TESTING (NOT IN CONTRACT)

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HHA RADON VARIOUS SITES

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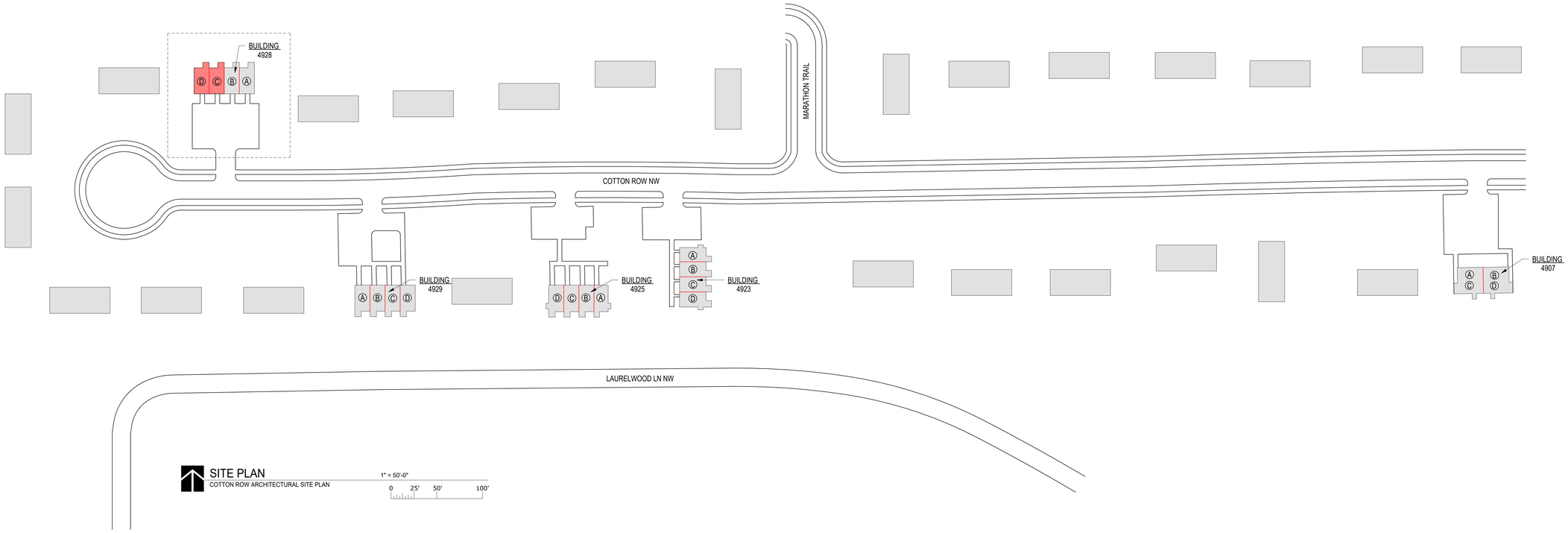
DRAWING TITLE
WIND TRACE ARCHITECTURAL SITE PLAN

DRAWING NO.
A-104.1

COTTON ROW
4925 COTTON ROW
HUNTSVILLE, AL 35816

LEGEND:

BUILDING - A 200	- BUILDING TYPE BUILDING NUMBER
Ⓐ	- UNIT TYPE
	- UNITS WITH RADON LEVELS ABOVE 4.0 pCi/L
	- UNITS WITH RADON LEVELS BELOW 4.0 pCi/L
	- CONTRACT LIMITS



SITE PLAN
COTTON ROW ARCHITECTURAL SITE PLAN

1" = 50'-0"
0 25' 50' 100'

EDT THA ARCHITECTURE
8514 Whitesburg Drive
Huntsville, AL 35802
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HHA RADON VARIOUS SITES

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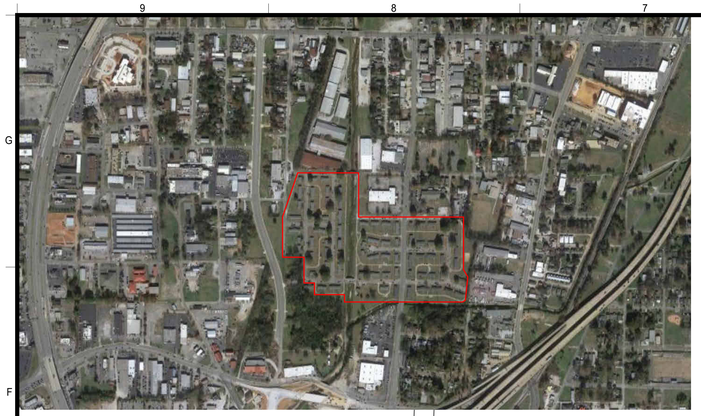
COTTON ROW ARCHITECTURAL SITE PLAN

DRAWING NO.
A-105.1



LINCOLN PARK
402 WEBSTER DRIVE
HUNTSVILLE, ALABAMA

LEGEND:

BUILDING - A
200

- BUILDING TYPE
  BUILDING NUMBER
- UNIT TYPE WITH RADON LEVELS BELOW 4.0 pCi/L
- UNIT TYPE WITH RADON LEVELS ABOVE 4.0 pCi/L
- UNITS WITH RADON LEVELS ABOVE 4.0 pCi/L
- UNITS WITH RADON LEVELS BELOW 4.0 pCi/L
- CONTRACT LIMITS

NOTE: AT 2 STORY BUILDINGS, NEW CHASES MAY PASS THROUGH UNITS WITH LEVELS BELOW 4.0 pCi/L (2)

ABINGDON ROAD

BURBANK STREET

FREDERICK AVENUE

GARRISON STREET

HURST AVENUE

WASHINGTON STREET

HOOVER STREET

GALE CIRCLE

GALE AVENUE

WEBSTER DRIVE

BUILDING A 1005
BUILDING E 1003
BUILDING G 1001
MIRRORED: BUILDING E 601
BUILDING A 502
BUILDING C 500
BUILDING C 1005
MIRRORED: BUILDING E 1002
BUILDING E 1003
MIRRORED: BUILDING F 1000
BUILDING B 503
MIRRORED: BUILDING A 501
MIRRORED: BUILDING A 1006
BUILDING B 1004
MIRRORED: BUILDING G 1002
MIRRORED: BUILDING D 1000
MIRRORED: BUILDING E 906
BUILDING B 904
MIRRORED: BUILDING G 902
MIRRORED: BUILDING E 900
BUILDING D 600
BUILDING A 903
BUILDING F 901
BUILDING D 500
BUILDING A 905
MIRRORED: BUILDING E 904
BUILDING E 903 (NOT IN CONTRACT)
MIRRORED: BUILDING E 902
BUILDING A 901
MIRRORED: BUILDING A 503
BUILDING B 501
BUILDING G 406
BUILDING C 404
BUILDING G 402
BUILDING E 1003
MIRRORED: BUILDING A 407
MIRRORED: BUILDING E 405
MIRRORED: BUILDING G 403
BUILDING A 1001
BUILDING A 404
BUILDING E 402
BUILDING G 400
BUILDING C 903
BUILDING B 405
MIRRORED: BUILDING G 403
MIRRORED: BUILDING F 401
BUILDING F 901
BUILDING E 504
BUILDING G 502
BUILDING E 500
BUILDING F 400
BUILDING E 851
402 PROJECT OFFICE
(NOT IN CONTRACT)
MIRRORED: BUILDING F 304
MIRRORED: BUILDING A 1002
BUILDING F 302
BUILDING A 1003
MIRRORED: BUILDING G 1000
MIRRORED: BUILDING F 305
BUILDING G 1001
MIRRORED: BUILDING F 303
BUILDING F 304
MIRRORED: BUILDING D 902
BUILDING G 302
BUILDING F 903
MIRRORED: BUILDING A 900
MIRRORED: BUILDING G 303
BUILDING G 901
MIRRORED: BUILDING A 301
MIRRORED: BUILDING G 1002
MIRRORED: BUILDING H 1000
MIRRORED: BUILDING G 904
MIRRORED: BUILDING H 902
MIRRORED: BUILDING D 201
BUILDING D 302
BUILDING H 300
BUILDING E 202
BUILDING H 200
MIRRORED: BUILDING E 850

SITE PLAN
LINCOLN PARK ARCHITECTURAL SITE PLAN
1" = 60'-0"
0 30' 60' 120'

EDT THA ARCHITECTURE
8514 Whitesburg Drive
Huntsville, AL 35802
office 256.883.8496
www.edttha.com

STATE OF ALABAMA
JENNIFER THORINGTON-HINES
REG.NO.7099
REGISTERED ARCHITECT

HHA RADON VARIOUS SITES

OWNER
HUNTSVILLE HOUSING AUTHORITY

PROJECT ADDRESS
200 WASHINGTON STREET
P.O. BOX 1466
HUNTSVILLE, AL 35804

ISSUE DATE
02/04/2026

ISSUED
BID DOCUMENTS

ADPH NUMBER

PROJECT NUMBER
26T-00100 & 26T-00200

REVISIONS

No.	Description	Date
1	ADDENDUM #2	1/26/26
2	ADDENDUM #3	2/4/2026

DRAWING TITLE
LINCOLN PARK ARCHITECTURAL SITE PLAN

DRAWING NO.
A-106.1

SECTION 312113 – RADON MITIGATION

PART 1 GENERAL

1.1 SUMMARY

Provide all work necessary to reduce and maintain radon concentration levels below 4.0 picoCuries per liter (pCi/L) in various buildings specified herein. Perform mitigation system installation, and perform post-mitigation testing and monitoring for radon.

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC. (AMCA)

AMCA 210	(2016) Laboratory Methods of Testing Fans for Aerodynamic Performance Rating

AMERICAN ASSOCIATION OF RADON SCIENTISTS AND TECHNOLOGISTS (AARST)

ANSI/AARST MA-MFLB	Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily, School, Commercial and Mixed-Use Buildings
ANSI/AARST SGM-MFLB	(2023) Soil Gas Mitigation Standards for Existing Multifamily, School, Commercial and Mixed-Use Buildings

ASTM INTERNATIONAL (ASTM)

ASTM D2665	(2014) Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings
ASTM E2121	(2013) Standard Practice for Installing Radon Mitigation Systems in Existing Low-Rise Residential Buildings

INTERNATIONAL CODE COUNCIL (ICC)

ICC IMC	(2024) International Mechanical Code MASTER

SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA)

SMACNA 1378	(1995) Thermoplastic Duct (PVC) Construction Manual, 2nd Edition

U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)

EPA 402-R-92-003	(1993) Protocols for Radon and Radon Decay Product Measurements in Homes
EPA 402-R-92-004	(1992) Indoor Radon and Radon Decay Product Measurement Device Protocols
EPA 402-R-93-078	(1993; R 1994) Radon Mitigation Standards
EPA 625-R-92-016	(1993; Am 1994) Radon Prevention in Design and Construction of Schools and Other Large Buildings
EPA 625-R-93-011	(1993) Radon Reduction Technique for Existing Detached Houses: Technical Guidance for Active Soil Depressurization Systems
WCLIB 17	(2015; R 2018) Standard Grading Rules for West Coast Lumber

1.3 DEFINITIONS

1.3.1 Active Soil Depressurization (ASD)

A family of radon mitigation systems involving mechanically-driven soil depressurization, including sub-slab depressurization (SSD),sub-membrane depressurization (SMD), block wall depressurization (BWD) and crawlspace depressurization (CSD).

1.3.2 Contract Documents

Documents furnished to prospective bidders/proposers containing information and specifying criteria and project requirements for diagnostic testing, design, construction and monitoring of multipleradon mitigation systems. The documents include this specification and the drawings listed in and accompanying this specification.

1.3.3 Pressure Differential Gauge

A tool used to measure the PFE created by an ASD system. Calibrate the gauge in accordance with national standards and the manufacturer's recommendations. The gauge must be capable of readings to 0.25 Pa1/1000 in water column

1.3.4 Pressure Field Extension (PFE)

The distance that a pressure change, created by drawing soil-gas througha suction point, extends outward in a sub-slab gas permeable layer, under a membrane, behind a solid wall or in a hollow wall.

1.3.5 Qualified Mitigation Professional

Regardless of team composition, a "Qualified Mitigation Professional"for the purposes of this document is defined as: "An individual that has demonstrated a minimum degree of appropriate technical knowledge and skills specific to radon mitigation of schools and large buildings: a)as established in certification requirements of the National Radon Proficiency Program (NRPP) or the National Radon Safety Board (NRSB);and

b) as required by statute, state licensure or certification program,where applicable."

1.3.6 Short Term Radon Detectors

Charcoal, electret ion chamber, orapproved equivalent. Devices capable of sensing and recording the presences of radon during a time period of 48-hours to 90 days which when analyzed provide a numeric value,measured in pCi/L, for radon concentrations during the timeexposed.

1.3.7 Suction Hole

Location at which vacuum is created for sub-slab communication testing.

1.3.8 Suction Point

Vertical standpipe penetrating into the soil gas environment containing radon and serving as the conduit to exhaust radon gas to theatmosphere.

1.3.9 Test Hole

Location at which pressure readings are taken during sub-slab communication testing. Readings are used to evaluate potential effectiveness of a sub-slab depressurization system.

1.4 SYSTEM DESCRIPTION AND REQUIREMENTS

1.4.1 Performance Requirements

Radon mitigation systems must reduce and maintain radon concentration levels below 4.0 pCi/L in various buildings specified herein. Test and construct radon mitigation systems in accordance with ANSI/AARST SGM-MFLB, ANSI/AARST MA-MFLB, ASTM E2121, EPA 402-R-93-078, EPA 402-R-92-003, EPA 402-R-92-004 and asspecified herein. Additional guidance for testing and constructing radonmitigation systems is contained in EPA 625-R-92-016 and EPA 625-R-93-011.

1.5 QUALITY ASSURANCE

1.5.1 Contractor Qualifications and Experience

Within 15 days after award, submit written evidence or datademonstrating that the Contractor and one or more subcontractors employed by the Contractor possess the qualifications and experience specified below.

1.5.1.1 Contractor Qualifications

The person responsible for diagnostic testing, construction and on-site supervision, as required by the specifications, must have successfully completed the requirements of and maintaining a current certification issued by either the National Radon Proficiency Program (NRPP) or the National Radon Safety Board (NRSB)as a qualified mitigation professional. Alternatively, in a State with legislation requiring mandatory credentialing for this work, compliance with the State legislation is acceptable. Evidence showing successful completion of the requirements of the NRPP or the NRSB must include copy of current certification document and documentation issued by the State. Listing in the State of Alabama is required.

1.5.1.2 Contractor Experience

Submit written evidence demonstrating that the Contractor has successfully designed and installed at least two radon mitigation systems of the same or similar to the type required herein. The Contractor must have 5 years of experience installing radon mitigation systems. Experience proof must include but not be limited to:

a. The contract name and number, completion dates of the project andthe total cost of the project;

b. The names, telephone numbers and fax number of the facility or installation for whom the radon mitigation system design,construction and testing were performed;

c. The name, telephone number and fax number of a supervisory levelpoint of contact at each facility or installation who has knowledge of the Contractor's performance.

1.5.1.3 Qualified Mitigation Professional

A Qualified Mitigation Professional must be physically present or ensurea responsible person is present during onsite activities and immediately available to direct, instruct and oversee activities of otherindividuals, mitigation installers and other professionals engaged in installation activities for the mitigation system(s). The qualified mitigation professional must have 5 years of experience installing radon mitigation systems.

1.9.2 Testing Laboratory

Submit testing laboratory certification as proof that the testing laboratory performing radon detector analysis has successfullycompleted the requirements of the National Radon Safety Board (NRSB)or the National Radon Proficiency Program, (NRPP) and is qualified and authorized to perform such analysis. Alternatively, in a State with legislation requiring mandatory credentialing for this work, compliance with theState legislation is acceptable. Listing in the State of Alabama is required.

1.9.3 Diagnostic Testing Equipment

Submit proof of current calibration for testing devices used inperforming diagnostic testing.

1.9.4 On-Site Supervision

No work at the site will be permitted without the presence of a person possessing the qualifications specified elsewhere in this section,namely certification issued by either the National Radon Proficiency Program, (NRPP) or the National Radon Safety Board (NRSB)as a qualifiedmitigation professional, or the State equivalent, where applicable.

1.10 DELIVERY, STORAGE AND HANDLING

1.10.1 Delivery of Products

Deliver materials to the site in an undamaged condition. Deliver proprietary items in manufacture's original unopened and undamaged containers of packages with manufacture's name and brand and other pertinent data such as specification number, type, and class, date of manufacture. Schedule deliveries of materials to coincide withscheduled installation.

1.10.2 Storage and Handling

Carefully store materials off the ground to provide proper ventilation, drainage and protection against weather and dampness. Protect materials from marring, staining, rust, damage and overload and from contaminants such as grease, oil and dirt. Store materials at temperatures recommended by the manufacturer. Handle material to avoid damage such as chipping and breaking. Replace damaged material.

PART 2 PRODUCTS

2.1 RADON MITIGATION SYSTEMS

2.1.1 System Performance

Radon mitigation systems must reduce and maintain radon concentration levels below 4.0 pCi/L after activation of the mitigation systems.

2.1.1.1 System Piping

Route radon mitigation systems piping so as not to interfere with the daily operations and functions of the building occupants. Keep visibility of the systems to a minimum. Enclose each radon mitigation system in occupied spaces, however, all operating components must be accessible for maintenance and repair. All spaces must be considered to be occupied spaces except for mechanical and electrical rooms, warehouses, storerooms, janitor closets, crawl spaces, and attic spaces. Enclosures are not required for portions of systems installed above suspended acoustical ceilings.

2.1.1.2 System Outlet Location

Mitigation system discharge points must be as specified in ANSI/AARST SGM-MFLB and EPA 402-R-93-078. Prevent foreign objects from entering the outlet. Maintain water tight seal through all penetrations to the building exterior.

2.1.1.3 System Failure Warning Monitor

Provide a means to detect and announce each radon mitigation system failure. System failure is defined as:

a. System blockage: foreign debris.

b. Mechanical failure: fan or other mechanical failure.

c. System leakage: pipe breakage or crack.

Provide an audio or visual annunciator device to indicate system failure and locate the annunciator device in an occupied space. Conform to the requirements of ANSI/AARST SGM-MFLB and EPA 402-R-93-078.

2.1.1.4 Air Cleaners

Do not use air cleaners as a radon reduction method.

2.1.1.5 Ventilation Devices

Do not use devices that solely increase ventilation as a radon reduction method.

2.1.1.6 Back Drafting

Do not allow radon mitigation systems to cause back drafting of building chimneys.

2.1.2 Radon Mitigation Systems Components

Mechanical and electrical materials, fabrication, constructionand installation must conform to the following industry standards:

a. Poly(vinyl chloride) (PVC) Piping: ASTM D2665, Schedule 40.

b. In-line Tubular Centrifugal Fans: AMCA 210 and UL listed.

c. Mechanical Work: ICC IMC, SMACNA 1378, ANSI/AARST SGM-MFLB and EPA 402-R-93-078.

d. Sealants: ASTM C920, polyurethane, Type S, Grade P for horizontal application, Grade NS for vertical application, Class 25, UseT.

e. Crawl space soil-gas retarder membrane must be minimum 40mils thick.

PART 3 EXECUTION

3.1 RADON MITIGATION SYSTEMS INSTALLATION

3.1.2 Installation

a. Provide radon mitigation systems as indicated in the approved design drawings, as specified in ANSI/AARST SGM-MFLB, EPA 402-R-93-078 andas required by the specifications and standards referenced herein forthe respective materials using workmen skilled in the trades involved. Install piping plumb and parallel to existing walls, partitions and ceilings as appropriate, slope horizontal runs to drain, and securein place in a rigid and substantial manner.

b. Seal new and existing floor slab penetrations in accordance with EPA 402-R-93-078 and as specified herein. Prevent entry of soil gas into the building and exhausting of conditioned air via the radon mitigation system. Seal cracks and openings around floor slab penetrations with polyurethane sealant. Provide backer rod or comparable filler material as required. Insure that all penetrations to the building exterior are weathertight.

c. Lay work out in advance. Exercise care where cutting, channeling, chasing or drilling floors, walls, partitions, ceilings or other surfaces as necessary for proper installation, support or anchorage. Patch and repair damage to buildings, piping and equipment using workmen skilled in the trades involved.

d. Coordinate all work with the Contracting Officer.

3.1.3 Supervision

Installation of the radon mitigation systems must be supervised bya qualified mitigation professional.

3.1.4 Mechanical Work

ICC IMC, SMACNA 1378, ANSI/AARST SGM-MFLB, and EPA 402-R-93-078.

3.1.5 System Identification

Label all components of the radon mitigation systems including, but not limited to, piping (every 3 meters 10 feet), enclosures, fans, electrical conduit (every 3 meters 10 feet) andcircuit breakers. Labels must read:

Radon Reduction System. Do Not Turn Off.
Public Works Office Phone #

3.3 POST MITIGATION FUNCTIONAL EVALUATION/INSPECTION

3.3.1 ASD Systems

In conjunction with activating an ASD system, the suction in systempiping must be measured and recorded along with at least one PFE measurementthat is conducted under closed-building or normal operating conditions. It is recommended that both measurements be made under conditions that reflect normal building operation when significantly occupied and include consideration for worst-case conditions.

3.3.1.1 PFE Measurement

Obtain PFE measurements at more than one point distant from eachsuction point(s) to verify intended design using a differential pressure gauge capable of reading to 0.25 Pa 1/1000 inwater column. Record PFE test location and close in a nonpermanent fashion to facilitate any future needs (e.g. diagnosing a system when radon tests do not indicatesuccess in achieving mitigation goals).

3.4 FIELD QUALITY CONTROL

3.4.1 Post Mitigation Testing and Monitoring

Perform post mitigation radon testing in the buildings as specifiedin ANSI/AARST SGM-MFLB, EPA 402-R-93-078 and herein.

3.4.1.1 Short Term

Test each radon mitigation system as described below.

a. Test each radon mitigation system for effectiveness no sooner than 24-hours nor later than 15 days after activation of the radon mitigation system. Perform all testing in accordance with ANSI/AARST MA-MFLB, ANSI/AARST SGM-MFLB and all local, state and Federal requirements. Provide short term radon detectors (charcoal, electret ion chamber or approved equivalent) at the rate ofone detector per 186 square meters 2,000 square feet but not less than one detector per enclosed space, except for closets. On copies of the building floor plans, locate and identify each short term detectorand provide short term detector data on copies of the "Device Placement Log" contained in EPA 402-R-92-014.

b. At the end of the testing period, collect the detectors and send the detectors to the testing

laboratory for analysis. Provide radon test results of the effectiveness of the mitigation systems not laterthan 30 days after collecting the detectors. Radon test results must be sent from the testing laboratory directly to the owner with one copy to the Contractor. Complete the line item information on the "Device Placement Log."

c. Radon test results above 4.0 pCi/L require system redesign and installation modifications as necessary to achieveradon test results below 4.0 pCi/L. Submit design modifications to the engineer for reviewand approval. After approval of the design modifications, provide installation modifications to the radon mitigation system and retest for effectiveness. Repeat this short term test procedure until test results below 4.0 pCi/L are achieved.

d. System modifications (as-built systems installations) must be reflected in the Contractor's design documents (drawings anddesign narrative).

-- End of Section --