MediRevv Office Building II

2598 University Parkway, Coralville, Iowa 52241

MediRevv T.I.

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CODE REVIEW

Local Building Requirements based on
2009 IBC

General Description
This shall be a new fully-sprinkled 2 story building with 13,100 SF on the first level and 13,900 SF on the second level. The building is to be used as Offices with Conference Rooms. The exterior walls shall be masonry veneer & metal siding on metal stud backup. The roof structure shall be membrane roofing on metal roof deck. The primary structure shall be steel frame. The interior shall be drywall with metal studs and built in casework.

Chapter 3 - Use or Occupancy
1. B Occupancy (304.1)

Chapter 5 - General Building Limits
Based on B Occupancy and Type V-B Construction
1. 9,000 SF Allowable & 2 Story, 40' total height (Table 503)
2. Allowable Increases (Section 506):
   a. AREA
      Aa = 9,000 + [Frontage - not considered] +[9,000 x 2] (sprinkler)
      Aa = 27,000 SF Allowable/Story > 13,900 SF Actual/Story (OK)
   b. STORIES
      Sprinkler = 1 additional story (504.2)
      3 Allowed > 2 Actual (OK)

Chapter 6 - Types of Construction
1. Type V-B
2. Building Elements per Table 601.
   a. Structural Frame 0 hours
   b. Bearing Walls Int. & Ext. 0 hours
   c. Nonbearing Walls Int. & Ext. 0 hours
   d. Floor Construction 0 hours
   e. Roof Construction 0 hours
3. Fire Resistance Rating for Exterior Walls based on Separation Distance per Table 602.
   a. > 30' 0 hours

Chapter 7 Fire Resistance-Rated Construction
1. Unlimited unprotected openings in exterior walls, 30' or greater separation distance (Table 705.8)
2. Shaft enclosures not required for floor openings or air transfer openings (does not apply to concealed openings or means of egress) (708.2.7)
3. Shaft enclosure not required for floor openings created by unenclosed stairs or ramps in accordance with 1016.1, excep. 3 or 4 (708.2.11)
4. Enclosed Elevator Lobby not required where shaft connects 3 stories or less (708.14.1)
5. Penetrations of non-rated floor or floor/ceiling assemblies that connect not more than 2 stories are permitted when annular space is filled with approved material to rest passage for flame and products of combustion (713.4.2.2)
6. Duct systems constructed of approved materials (per IMC) penetrating non-rated floor assemblies and connected only 2 stories may be protected by filling annular space with approved noncombustible material (716.6.3)
7. Fire Blocking In Stud Walls 10' max. ht. (717.2.2)
8. Concealed Insulation to have a flame spread index of 25 and smoke-developed index of 450 or less (719.2)

Chapter 8 Interior Finishes
1. Minimum Flame Spread Interior Wall & Ceiling Finish (Table 803.9)

	Exit Enclosures	Corridors	Rooms
B Occupancy	B	C	C

Chapter 9 - Fire Protection Systems
1. Group B (Not Health Care): Sprinkler not Required but Provided. (903.2.2)

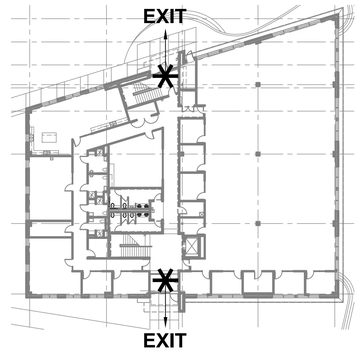
Chapter 10- Means of Egress
1. Occupant Load: 27,000 SF Total
   a. (Business): 27,000 / 100 gross = 270 Occupants (Table 1004.1.1)
2. Egress Width: 270 x .2" = 54" Min. (84" Provided = ok) (1005.1)
3. Accessible Stairway shall have 48" clear between handrails (1007.3)
4. Area of refuge not required in fully sprinkled building (1007.3 excep. 3)
5. Common Path of Travel - 100' Max. in 'B' occupancy when fully-sprinkled (1014.3 excep. 1)
6. Exit Access Travel Distance: 300' sprinkled (Table 1016.1)
7. Minimum Aisle Width: Not less than 36" (1017.2)
8. Corridors NOT required to be 1 hour rated with sprinkler system (Table 1018.1)
9. Dead End Corridors limited to 50' (1018.4)
10. 2 Exits Required - 2 Provided (ok) (Table 1021.1)
11. No Exit Stairways provided - all stairways are exit access stairways per 1016. 1022 does not apply.

Chapter 11- Accessibility
1. Accessibility Per Chapter 11 and ADAAG to be provided

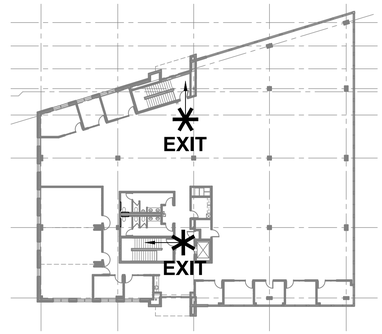
Energy Conservation Requirements based on
2009 IECC

Chapter 3 - General Requirements
1. Climate Zone 5A (Table 301.1)

Chapter 5 - Commercial Energy Efficiency
1. Table 502.2(1) Building Envelope Requirements, Opaque
   a. Roof, Insulation above Deck: R-20ci (OK)
   b. Walls, Metal Framed: R-13 + R-7.5ci (OK)
   c. Below-grade walls: None
   d. Unheated Slab-on-grade floor: Not Required (OK)
2. Table 502.3 Building Envelope Requirements, Fenestration
   a. Vertical Fenestration, 40% maximum (29.9% = OK)
   b. Curtainwall / Storefront U-factor maximum 0.45 (OK)
   c. SHGC, all frames 0.40 (OK)

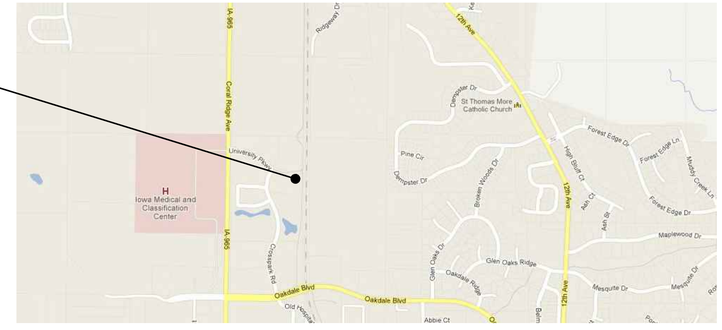


FIRST LEVEL CODE PLAN
1/32" = 1'-0"



SECOND LEVEL CODE PLAN
1/32" = 1'-0"

Site Location



LOCATION MAP
NOT TO SCALE

Design / Build Contractor
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Cedar Rapids, IA 52405
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Mechanical Engineer / Contractor
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LICENSED PROFESSIONAL ENGINEER — John T. Palmer 13692 — IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature:

Name: John T. Palmer
Discipline: **Plumbing**
License Renewal Date: 12.31.2015

Issue Date:

Sheets or pages covered by this seal: **"P" Sheets**

LICENSED PROFESSIONAL ENGINEER — John T. Palmer 13692 — IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature:

Name: John T. Palmer
Discipline: **Mechanical**
License Renewal Date: 12.31.2015

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LICENSED PROFESSIONAL ENGINEER — THEODORE JOSEPH MEINERS 18428 — IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature:

Name: Theodore J Meiners
Discipline: **Electrical**
License Renewal Date: 12.31.14

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BRAD S. LANG — 03528 IOWA — REGISTERED ARCHITECT

I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly registered architect under the laws of the State of Iowa.

Name: Brad s. Lang
Discipline: **Architecture**
License Renewal Date: 06.30.15

Issue Date:

Sheets or pages covered by this seal: **"A" Sheets**

Signature:

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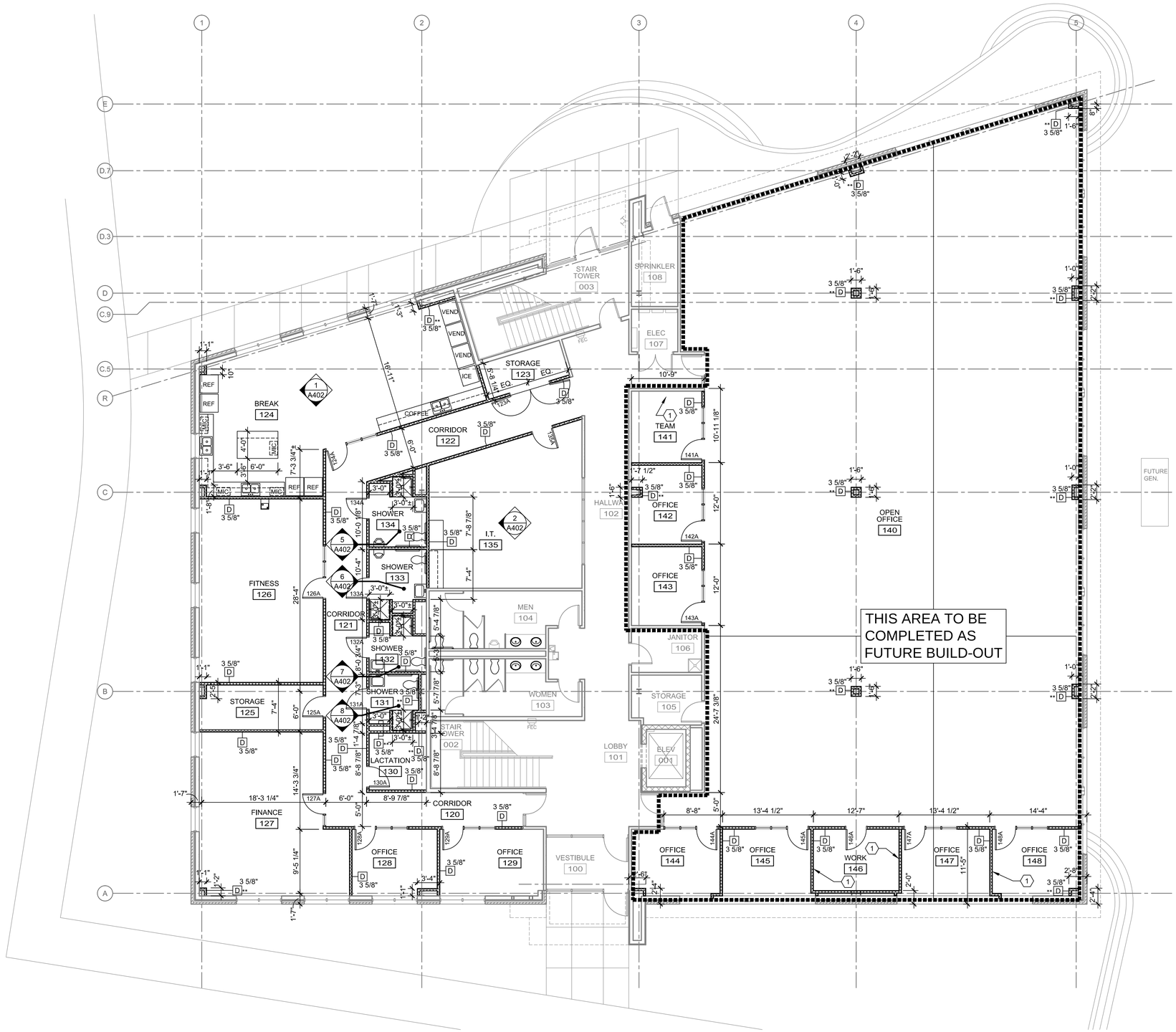
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Coralville, IA 52241

MediRevv Building II - MediRevv T.I.
Coversheet

DATE
1.17.2014

DRAWING NUMBER
A000

PROJECT NUMBER
13021-A



1 A111 FIRST FLOOR PLAN

1/8" = 1'-0"

GENERAL NOTES

1. ALL DIMENSIONS ARE TAKEN FROM FINISH OF MASONRY OR FINISH FACE UNLESS NOTED OTHERWISE.
2. MEP TO SUBMIT FINAL SYSTEMS DESIGNS TO ARCHITECT AND OWNER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

KEYED NOTES

1. PROVIDE BLOCKING IN WALL FOR FUTURE WALL-SUPPORTED ITEMS.
2.

WALL TYPES

- A — NOT USED (CORE & SHELL ONLY)
- B — NOT USED (CORE & SHELL ONLY)
- C — NOT USED (CORE & SHELL ONLY)
- D — INTERIOR WALL:
  5/8" GYPSUM BOARD ON METAL STUDS W/ SOUND BATTS ON 5/8" GYPSUM BOARD. WALLS AND INSULATION CONTINUOUS TO BOTTOM OF DECK.
  STUD DEPTH INDICATED BY TAG. STUDS ARE 33 MIL, 24" O.C.
  ** INDICATED GYPSUM BOARD ON 1 SIDE ONLY.
- E — NOT USED (CORE & SHELL ONLY)
- F — NOT USED (CORE & SHELL ONLY)

LEGEND

- FEC — SEMI-RECESSED FIRE EXTINGUISHER CABINET
- FD — FLOOR DRAIN

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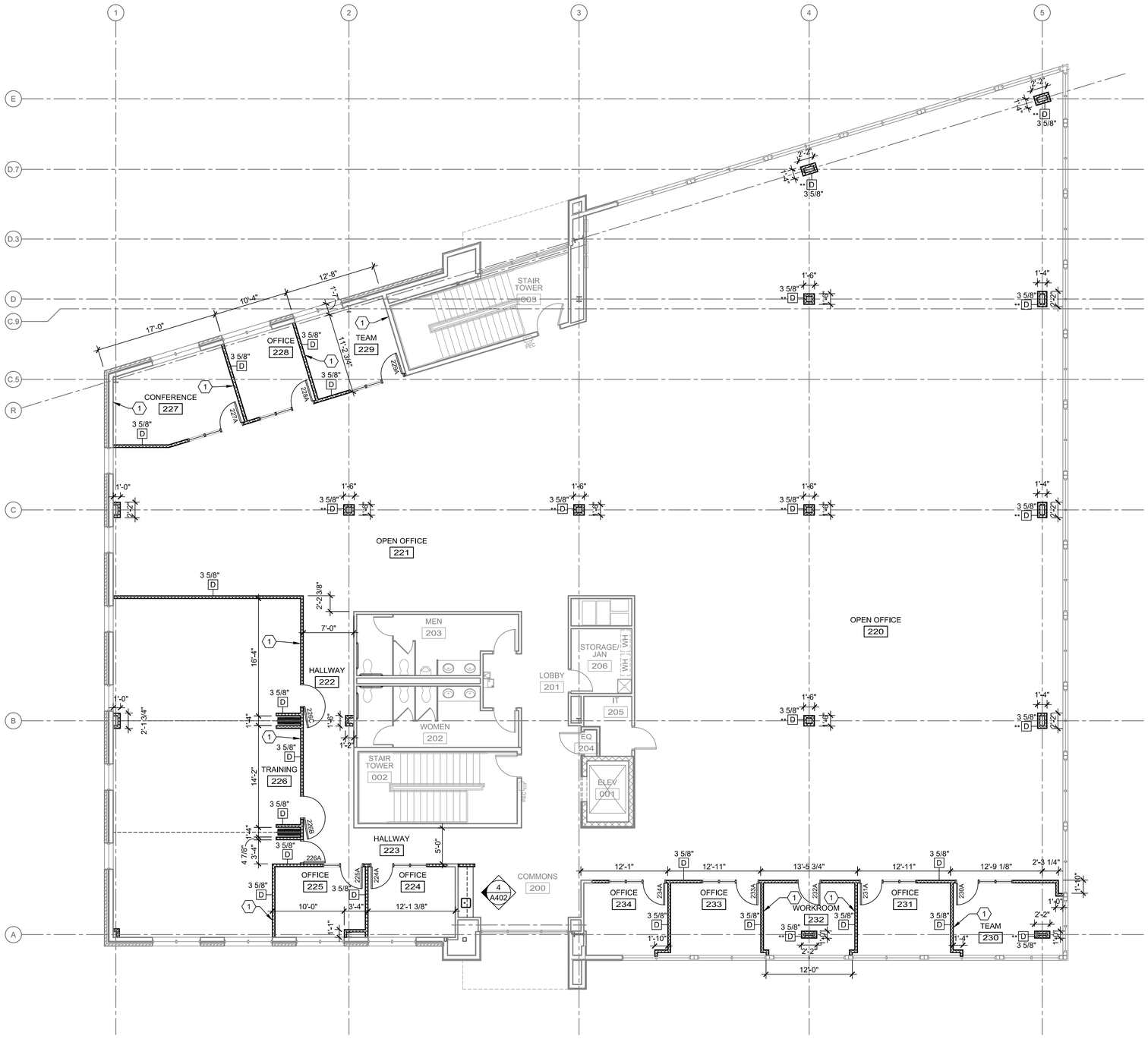
MediRevv Building II - MediRevv T.I.

First Floor Plan

DATE 1.17.2014

DRAWING NUMBER A111

PROJECT NUMBER 13021-A



1 A112 SECOND FLOOR PLAN

1/8" = 1'-0"

GENERAL NOTES

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Second Floor Plan

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