GENERAL NOTES

1. LIVE LOADS USED IN DESIGN:

   A. ROOF — 30 PSF (35 PSF GROUND)

   B. TYPICAL FLOOR — 40 PSF

   C. WIND
      3 SECOND GUST — 115 MPH (ULT)
      EXPOSURE — B

   E. LIVE LOADS ARE REDUCED PER CODE IF APPLICABLE.

   F. CODE USED IN DESIGN: — 2018 IRC.

2. CONCRETE

   A. ALL CAST-IN-PLACE CONCRETE SHALL BE MADE WITH TYPE I/II PORTLAND CEMENT, STONE AGGREGATE AND SHALL SATISFY THE FOLLOWING REQUIREMENTS:

CONCRETE ITEM	F'C MIX TYPE	MAX W/C RATIO	% AIR REQ.
FOOTINGS	3000 psi STD	---	---
FOUNDATION WALLS	3000 psi STD	---	---
INTERIOR SLABS ON GRADE	3000 psi STD	0.50	---
EXTERIOR CONCRETE (++)	4500 psi STD	0.45	6%-8%

   ++ MAXIMUM SLUMP SHALL NOT EXCEED 4".

   B. IF CONCRETE SUPPLIER PROPOSES USE OF FLYASH HE SHALL PROVIDE OWNER WITH LETTER INDICATING COST REDUCTION AT TIME OF BID. THE MODULUS OF ELASTICITY OF ALL CONCRETE SHALL EXCEED WC1.5 33 F'C (OR 57,000 F'C NORMAL WEIGHT CONCRETE).

   C. CONTRACTOR SHALL SAWCUT OR TROWELCUT JOINTS IN SLABS ON GRADE. JOINTS SHALL BE SPACED 15 FEET AND SAWCUT OR TROWELCUT 1/4 OF SLAB DEPTH X 3/16" WIDE WITHIN 12 HOURS AFTER POURING. CARRY ALL SLAB REINFORCEMENT THROUGH JOINT.

   D. SLABS, TOPPING, FOOTINGS, BEAMS AND WALLS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE. ANY STOP IN CONCRETE WORK MUST BE MADE AT THIRD POINT OF SPAN WITH VERTICAL BULKHEADS AND HORIZONTAL SHEAR KEYS UNLESS OTHERWISE SHOWN. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR AS REVIEWED BY THE ENGINEER.

   E. ALL CONCRETE WORK AND REINFORCEMENT DETAILING SHALL BE IN ACCORDANCE WITH ACI BUILDING CODE 318 LATEST EDITION, UNLESS NOTED OTHERWISE. USE STANDARD HOOKS FOR DOWELS UNLESS NOTED OTHERWISE. ALL EXPOSED EDGES OF CONCRETE WORK SHALL HAVE 3/4 INCH CHAMFER.

3. REINFORCEMENT

   A. ALL REINFORCING SHALL BE HIGH-STRENGTH DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 EXCEPT TIES, STIRRUPS AND PLATE ANCHORS WHICH SHALL BE DEFORMED BARS, ASTM DESIGNATION A615, GRADE 40 OR ASTM A706 GRADE 60.

   B. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 GRADE 65 AND SHALL BE LAPPED ONE FULL MESH AT SIDE AND END SPLICES AND WIRED TOGETHER.

   C. REINFORCEMENT PROTECTION UNLESS NOTED OTHERWISE:
      1. CONCRETE POURED AGAINST EARTH — 3"
      2. CONCRETE POURED IN FORMS (EXPOSED TO WEATHER OR EARTH) — 2"
      3. COLUMNS AND BEAMS (TIE BARS) — 1-1/2"
      4. SLABS AND WALLS (NOT EXPOSED TO WEATHER) — 3/4"

   D. REINFORCEMENT PLACEMENT AND TOLERANCES SHALL BE IN ACCORDANCE WITH SECTIONS 7.5, 7.6 AND 7.7 OF ACI 318, LATEST EDITION.

   E. NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. LAP SPLICES, WHERE PERMITTED, SHALL BE A MINIMUM OF 48 BAR DIAMETERS FOR #6 BARS AND SMALLER AND SHALL BE A MINIMUM OF 80 BAR DIAMETERS FOR #7 AND #8 REINFORCEMENT UNLESS NOTED OTHERWISE. MAKE ALL BARS CONTINUOUS AROUND CORNERS.

   F. PLACE TWO #5 (PER 8" THICKNESS) WITH 2'-0" PROJECTION AROUND ALL OPENINGS IN CONCRETE WALLS, SLABS, AND BEAMS. ALSO PROVIDE TWO #5 X 4'-0" DIAGONALLY AT EACH CORNER.

   G. CONTINUOUS TOP AND BOTTOM BARS IN WALLS AND BEAMS SHALL BE SPLICED AS FOLLOWS: TOP BARS AT MIDSPAN, BOTTOM BARS OVER SUPPORTS.

4. STRUCTURAL STEEL

   A. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 EXCEPT WIDE FLANGE BEAMS WHICH SHALL CONFORM TO ASTM 992, (50 KSI) AND EXCEPT PIPE COLUMNS WHICH SHALL CONFORM TO ASTM A53 AND TUBE COLUMNS TO ASTM A500, GRADE B, LATEST EDITIONS. STEEL SUPPLIER MAY PROVIDE ASTM A572, GRADE 50 AT HIS OPTION. MISCELLANEOUS EMBEDDED ITEMS SHALL BE A36 STEEL.

   B. ALL STRUCTURAL BOLTS SHALL BE A325N INSTALLED TO A MINIMUM SNUG TIGHT CONDITION. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A307 UNLESS NOTED OTHERWISE.

   C. STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE LATEST PROVISIONS OF AISC "MANUAL OF STEEL CONSTRUCTION."

   D. EXCEPT WHERE DETAILED OTHERWISE, FABRICATOR SHALL SELECT STEEL CONNECTIONS PER AISC "MANUAL OF STEEL CONSTRUCTION" (ASD), TABLE 11-A AND/OR AISC "SIMPLE SHEAR CONNECTION MANUAL" WITH A325 N BOLTS (OR WELDED EQUIVALENT) TO SUPPORT LOADS INDICATED ON THE STRUCTURAL DRAWINGS. WHEN LOADS ARE NOT SHOWN, SELECT CONNECTION TO SUPPORT 60% THE TOTAL UNIFORM LOAD CAPACITY PER AISC "MANUAL OF STEEL CONSTRUCTION" FOR EACH GIVEN BEAM AND SPAN FOR NON-COMPOSITE MEMBERS.

   E. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AMERICAN WELDING SOCIETY STANDARD QUALIFICATIONS TESTS AS OUTLINED IN AWS-D1.1.

   F. MINIMUM WELDS TO BE PER AISC TABLE J2.4 BUT NOT LESS THAN 3/16" CONTINUOUS FILLET UNLESS NOTED OTHERWISE.

   G. FOR ALL BEAM/COLUMN OR BEAM/BEAM CONNECTIONS, PROVIDE HORIZONTAL SHORT SLOTS IN CONNECTION MEMBER ONLY (WT-SECTIONS, ANGLES OR SHEAR PLATES).

5. NON-SHRINK GROUT

   A. NON-SHRINK GROUT SHALL BE PROVIDED:
      1. BETWEEN COLUMN BASES AND CONCRETE OR MASONRY SUPPORTS.
      2. BETWEEN BEAM BEARING PLATES AND CONCRETE OR MASONRY SUPPORTS.
      3. GROUT SHALL BE COMPLETE AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI PRIOR TO ADDING BUILDING LOADS ABOVE.

6. WOOD

   A. ALL FRAMING AND TRUSS LUMBER SHALL BE DRY HEM FIR GRADED BY WESTERN WOOD PRODUCTS ASSOCIATION AND CONFORMING TO INTERNATIONAL BUILDING CODE AS FOLLOWS:

      2" THICK - 4" TO 6" WIDE (WALL STUD ONLY) — STUD Fb = 675 PSI
      2" TO 4" THICK - 6" AND WIDER — NO. 2 Fb = 850 PSI
      5" THICK - 5" AND WIDER — NO. 1 Fb = 1050 PSI
      NOTED ALLOWABLE STRESSES ARE MINIMUMS AND FOR NONREPETITIVE USES PRIOR TO ALLOWABLE STRESS INCREASES.

   B. WHEN PRESERVATIVE TREATED LUMBER IS REQUIRED BY CODE ALL CONNECTIONS AND NAILING SHALL BE ADEQUATELY GALVANIZED (DOUBLEDIPPED OR BETTER).

   C. TREATED SILL PLATE LUMBER MAY BE HEM-FIR, STRUCTURAL #1 GRADE.

   D. PROVIDE METAL CROSS BRIDGING NOT OVER 8' ON CENTER FOR ALL 2X WOOD JOISTS. SOLID BLOCKING BETWEEN ALL JOISTS AT ALL SUPPORTS AND ENDS OF CANTILEVERS IS REQUIRED.

   E. FASTEN ALL WOOD MEMBERS WITH COMMON NAILS ACCORDING TO THE IBC SCHEDULE TABLE 2304-9.1 UNLESS NOTED OTHERWISE.

   F. LAMINATED BEAMS
      1. ALL LAMINATED MEMBERS SHALL BE FABRICATED OF DOUGLAS FIR LARCH AT 12 PERCENT MOISTURE CONTENT IN ACCORDANCE WITH WCLIB. ALL SIZES SHOWN ARE NET.
      2. LAMINATED MEMBER SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR THE DESIGN AND FABRICATION OF STRUCTURAL GLUE LAMINATED TIMBER, LATEST EDITION AS PUBLISHED BY AITC.
      3. PROVIDE UNITS CONFORMING TO AITC 117, 24FV8, D.F. FOR CONTINUOUS MEMBERS AND CANTILEVERS AND 24FV4, D.F. FOR SIMPLE SUPPORT MEMBERS. MEMBERS SHALL BE DESIGNED WITH ZERO CAMBER WITH TOP SURFACE CLEARLY STAMPED ON EACH MEMBER.

   G. PLYWOOD DECK AND/OR ORIENTED STRAND BOARD.
      1. PANEL THICKNESS SHALL BE AS SHOWN ON THE DRAWING. APPLICATION SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE AMERICAN PLYWOOD ASSOCIATION.
      2. EACH PANEL SHALL BE IDENTIFIED WITH THE GRADE-TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION AND SHALL MEET THE REQUIREMENTS OF U.S. PRODUCTS STANDARD PSI, LATEST EDITION FOR PLYWOOD. ALL PANELS WHICH HAVE ANY EDGE OR SURFACE PERMANENTLY EXPOSED TO THE WEATHER SHALL BE OF THE EXTERIOR TYPE.
      3. FOR FLOORING USE 3/4" T&G STURD-I-FLOOR SHEATHING GLUED AND NAILED WITH 10D NAILS AT 6" ON CENTER ALONG PANEL EDGES AND AT 12" ALONG INTERMEDIATE SUPPORTS.
      4. FOR ROOF USE 7/16" (24/16 SPAN RATING) EXPOSURE I SHEATHING NAILED WITH 10D NAILS AT 4" ON CENTER ALONG PANEL EDGES AND AT 12" ALONG INTERMEDIATE SUPPORTS.
      5. EXTERIOR WALLS SHALL HAVE ONE LAYER OF 7/16" EXPOSURE I PLYWOOD OR OSB SHEATHING NAILED WITH 8d NAILS AT 3" ON CENTER ALONG PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS. ALL PANEL EDGES SHALL BE BLOCKED.
      6. FLOORS AND ROOF SHEATHING SHALL BE INSTALLED WITH THE FACE GRAIN PERPENDICULAR TO SUPPORTS WITH END JOINTS STAGGERED.
      7. INSTALL SUITABLE EDGE SUPPORT BY USE OF PLYCLIPS, TONGUE AND GROOVE PANELS OR SOLID WOOD BLOCKING SUPPORTS.

   H. PREFABRICATED WOOD MEMBERS SHALL BE THE TYPE NOTED ON THE DRAWINGS AND SHALL BE "BCI JOIST" AS MANUFACTURED BY BOISE CORPORATION. ALTERNATES SHALL BE REVIEWED BY THE ENGINEER. TO BE CONSIDERED, ALTERNATES SHALL HAVE A LOAD CAPACITY IN BENDING, SHEAR AND DEFLECTION EQUAL TO OR GREATER THAN THE SIZE SHOWN ON THE DRAWINGS. WEB BLOCKING AND BRIDGING TO BE AS REQUIRED BY THE JOIST MANUFACTURER.

   I. LAMINATED VENEER LUMBER MEMBERS SHALL HAVE THE FOLLOWING STRESS CAPACITIES: FB = 2800 PSI, E = 2,000,000 PSI, FC = 750 PSI, FV = 285 PSI. BUILT UP MEMBERS SHALL BE CONNECTED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. CONTRACTOR SHALL HAVE THE OPTION OF USING 3 1/2" OR 5 1/4" WIDE MEMBERS.

   J. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED TO FULFILL STRESS REQUIREMENTS AND/OR LOADS NOTED ON DRAWINGS. SHOP DRAWINGS SHALL INCLUDE CALCULATIONS AND BEAR THE STAMP OF A REGISTERED ENGINEER. PROVIDE BRIDGING AND BLOCKING PER MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERWISE NOTED. PROVIDE CONSTRUCTION BRACING AS REQUIRED ERECTION NOTE: CENTER WALL STUDS UNDER CENTER OF TRUSS LOCATIONS.

7. NON-STRUCTURAL ELEMENTS

   A. ELEMENTS SUCH AS NON-BEARING PARTITIONS, ETC. ATTACHED TO AND/OR SUPPORTED BY THE STRUCTURE SHALL TAKE INTO ACCOUNT DEFLECTIONS AND OTHER STRUCTURAL MOVEMENTS.

   B. FIRE PROTECTION FOR ALL STRUCTURAL PARTS SHALL BE PROVIDED AND SHALL MEET ALL CODE REQUIREMENTS FOR THE TYPE OF CONSTRUCTION SPECIFIED BY THE ARCHITECTURAL DRAWINGS. STRUCTURAL STEEL MEMBERS SHALL BE CONSIDERED UNRESTRAINED UNLESS NOTED OTHERWISE.

8. GENERAL

   A. ENGINEER'S ACCEPTANCE MUST BE SECURED FOR ALL STRUCTURAL SUBSTITUTIONS.

   B. VERIFY ALL OPENINGS THROUGH FLOORS, ROOF AND WALLS WITH MECHANICAL AND ELECTRICAL CONTRACTORS. VERIFICATION OF LOCATIONS, SIZES, LINTELS AND REQUIRED CONNECTIONS ARE CONTRACTOR'S COMPLETE RESPONSIBILITY.

   C. PRIOR TO INSTALLATION OF MECHANICAL AND ELECTRICAL EQUIPMENT OR OTHER ITEMS TO BE ATTACHED TO THE STRUCTURE, ENGINEER'S APPROVAL OF CONNECTIONS AND SUPPORTS SHALL BE OBTAINED. UNLESS SPECIFICALLY DETAILED ON ARCHITECTURAL AND STRUCTURAL DRAWINGS, RESPECTIVE SUBCONTRACTOR SHALL FURNISH ALL HANGERS, CONNECTIONS, ETC., REQUIRED FOR INSTALLATION OF HIS ITEMS.

   D. PROVIDE ALL EMBEDDED ITEMS IN STRUCTURE AS NOTED ON ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS. MISCELLANEOUS EMBEDDED ITEMS AND ANCHOR BOLTS SHALL BE FURNISHED BY STEEL SUPPLIER AND INSTALLED BY CONCRETE CONTRACTOR. STEEL SHALL FULFILL ASTM A36.

   E. PROVIDE ASPHALTIC MASTIC-COATING ON ALL STEEL AND WOOD EXPOSED TO EARTH.

   F. SUBMIT SHOP AND ERECTION DRAWINGS TO ENGINEER FOR REVIEW OF ALL STRUCTURAL STEEL, WOOD TRUSSES.
      THE MANUFACTURING OR FABRICATION OF ANY ITEMS PRIOR TO WRITTEN REVIEW OF SHOP DRAWINGS WILL BE ENTIRELY AT THE RISK OF THE CONTRACTOR.

   G. WATERPROOFING, VAPOR BARRIERS, WATERSTOP, ETC., SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS AND AS INDICATED IN THE SPECIFICATIONS.

   H. ALL MASONRY AND STONE VENEERS SHALL BE ATTACHED TO INTERIOR AND EXTERIOR WALLS AS SPECIFIED IN SECTION 1405 OF THE INTERNATIONAL BUILDING CODE.

   I. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST FIELD AND ARCHITECTURAL DRAWINGS.

   J. PRE-MANUFACTURED STAIRS, HANDRAILS, AND GUARDRAILS NOTED ON PLAN SHALL HAVE ALL ENGINEERING, DESIGN AND DETAILING PROVIDED BY STAIR DESIGNER AND SHALL BE SUBMITTED FOR ARCHITECTS REVIEW BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF COLORADO. STAIRS SHALL BE DESIGNED TO SUPPORT A LIVE LOAD OF 100 PSF. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND CRITERIA.

CITY AND COUNTY OF DENVER
COMMUNITY PLANNING AND DEVELOPMENT
LANDMARK APPROVAL
COA# 2021-COA-0000378
Date: 08/25/2021
Signature: Becca D...

COLORADO REGISTERED
CRAIG B. CAMPBELL
29030
PROFESSIONAL ENGINEER
06/15/2021

STRUCTURAL

IMEG

GEN CONTRACTOR:
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ARCHITECT:

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1863 WAZEE ST UNIT 6G
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FLOOR PLANS & STAIR SECT

DRAWN BY: CJH/CC

DATE: 06.15.21

REV

S1.0

PROJ. # 21002894

C32-41 6/10

C32-41 6/10

CITY AND COUNTY OF DENVER
COMMUNITY PLANNING AND DEVELOPMENT
LANDMARK APPROVAL
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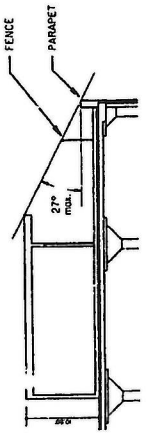
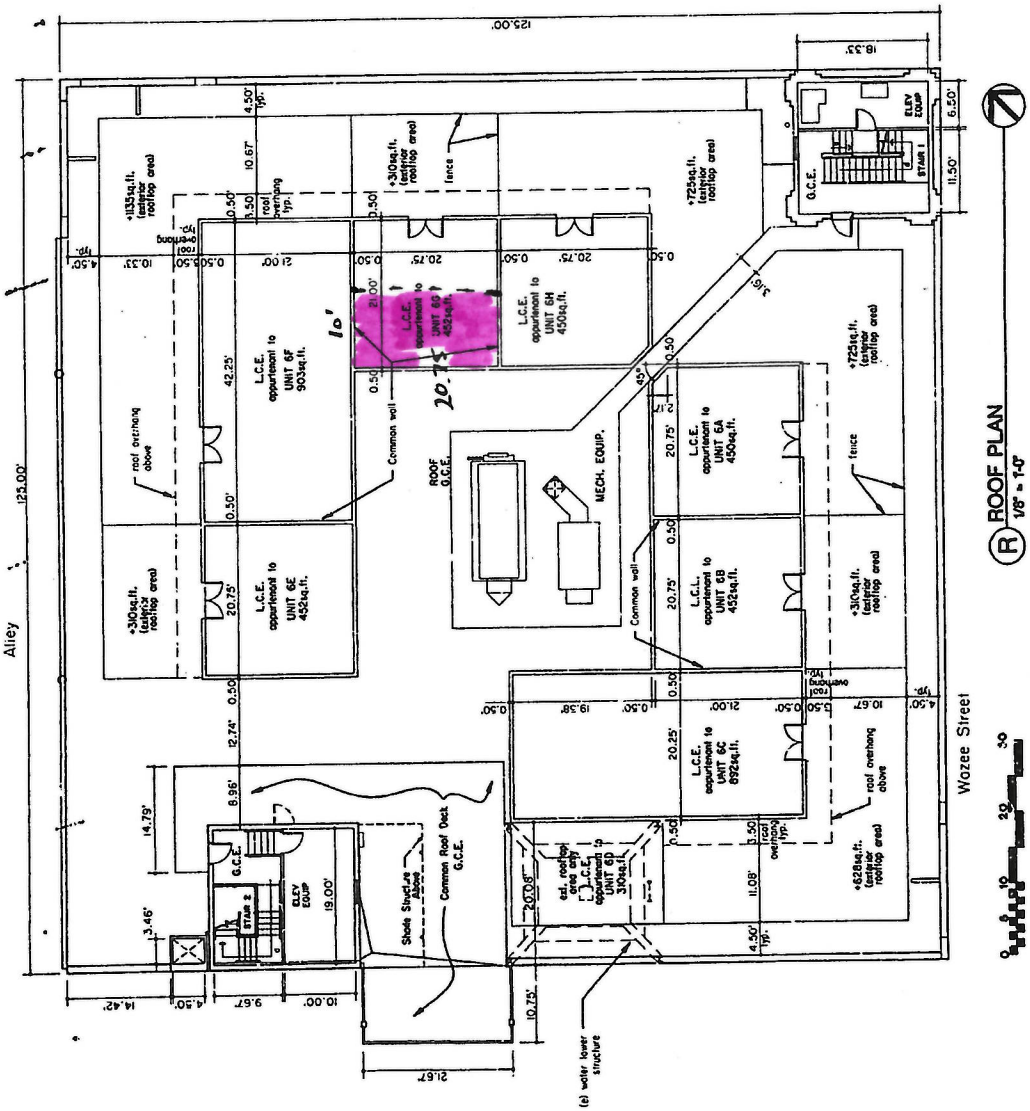
ROCKY MOUNTAIN WAREHOUSE LOFTS - A CONDOMINIUM

LOTS 26 - 32, BLOCK B, EAST DENVER
CITY AND COUNTY OF DENVER, STATE OF COLORADO
SHEET 6 OF 10

MILLER ENGINEERING & SURVEYING, INC.
7950 EAST PRENTICE AVENUE, SUITE 103
ENGLEWOOD, COLORADO 80111



TYPICAL SECTION @ ROOF UNIT



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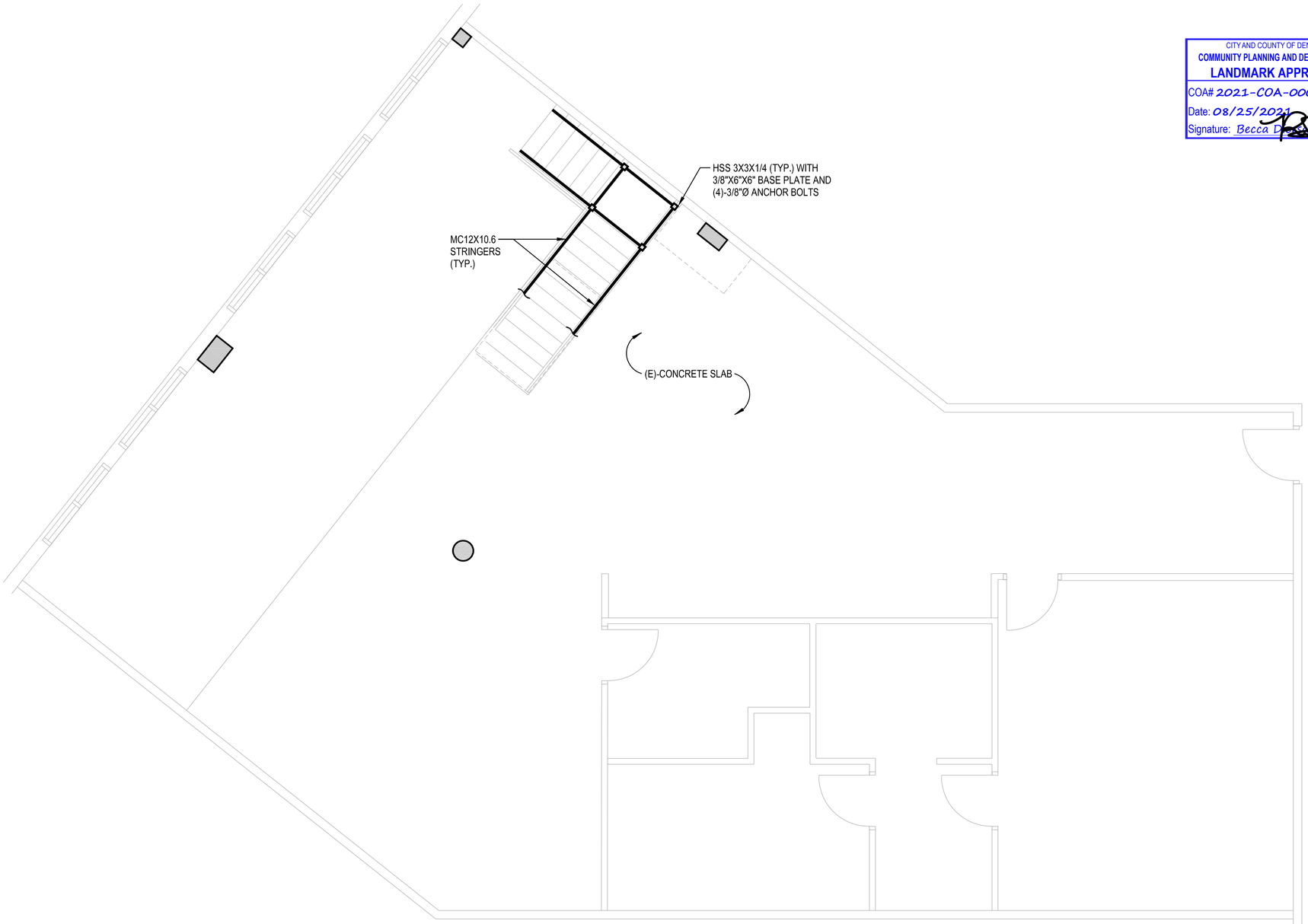

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LANDMARK APPROVAL
COA# 2021-COA-0000378
Date: 08/25/2021
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COLORADO REGISTERED CRAIG S. CAMPBELL 29038 PROFESSIONAL ENGINEER
06/15/2021

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PARTIAL LEVEL 6 FRAMING PLAN
1/4" = 1'-0"

N

1863 WAZEE ST UNIT 6G
Denver, CO 80203

FLOOR PLANS & STAIR SECT

DRAWN BY: CJH/CC
DATE: 06.15.21
REV

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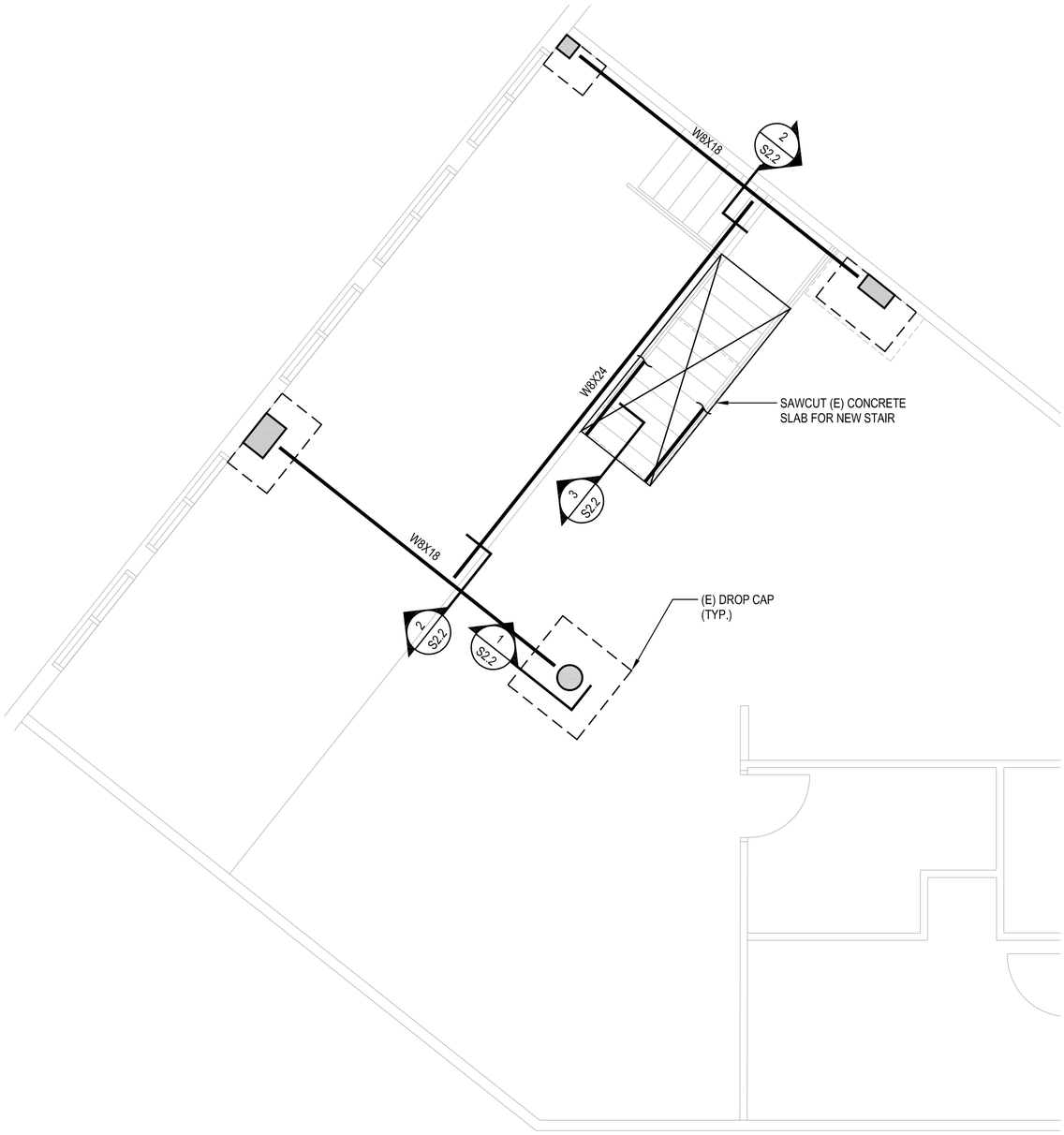
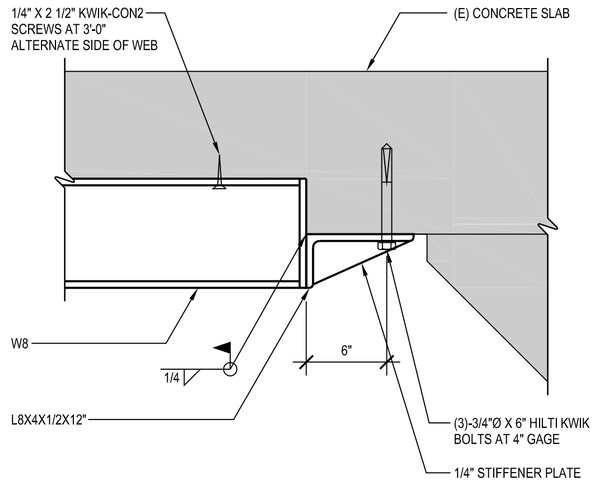
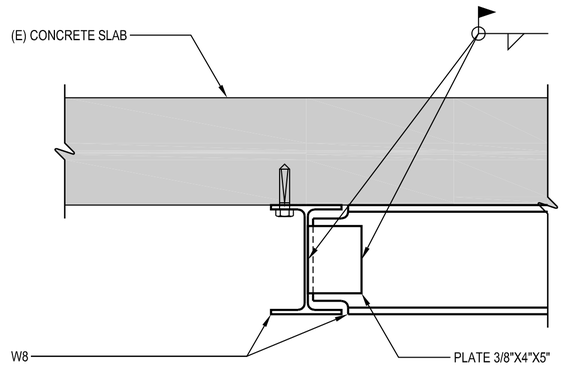
PROJ. # 21002894





SECTION 1
1 1/2" = 1'-0"



SECTION 2
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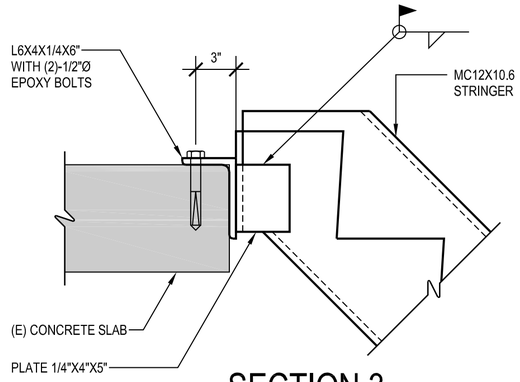

SECTION 3
1 1/2" = 1'-0"

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PARTIAL ROOF FRAMING PLAN
1/4" = 1'-0"

COLORADO REGISTERED
CRAIG B. CAMPBELL
29039
PROFESSIONAL ENGINEER
06/15/2021

STRUCTURAL

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S2.2

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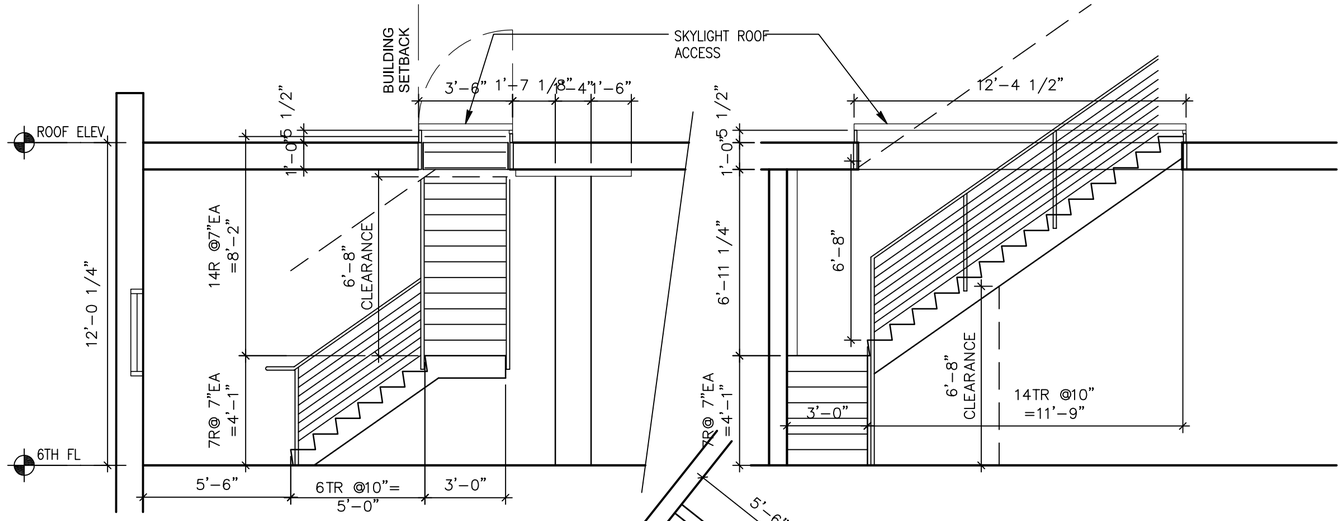
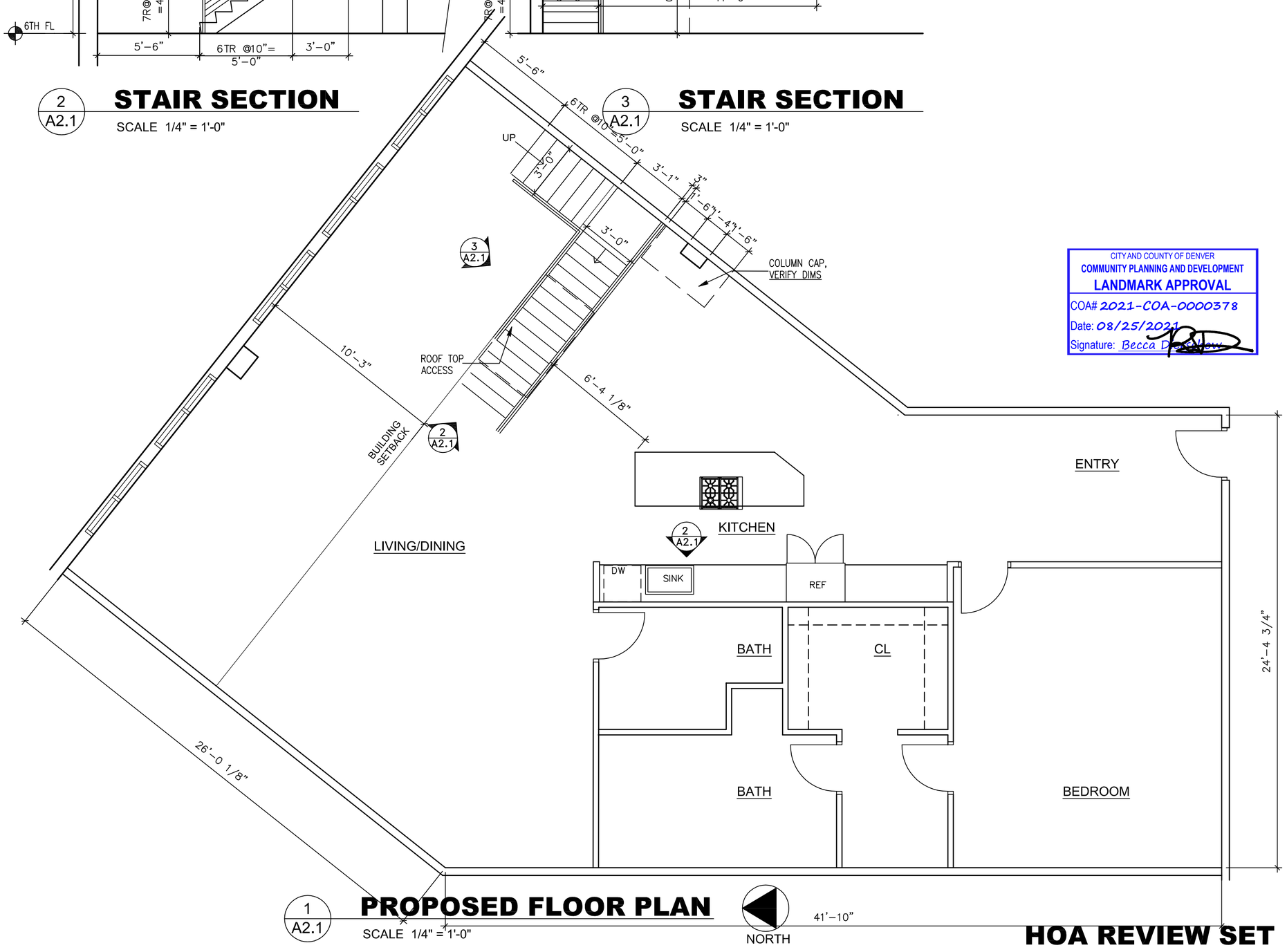


2 A2.1 **STAIR SECTION**

SCALE 1/4" = 1'-0"

3 A2.1 **STAIR SECTION**

SCALE 1/4" = 1'-0"



1 A2.1 **PROPOSED FLOOR PLAN**

SCALE 1/4" = 1'-0"

HOA REVIEW SET

STRUCTURAL

GEN CONTRACTOR:

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eLevate architecture

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COMMUNITY PLANNING AND DEVELOPMENT
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Denver, CO 80203

FLOOR PLANS & STAIR SECT

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DATE: 04.27.21

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A2.1

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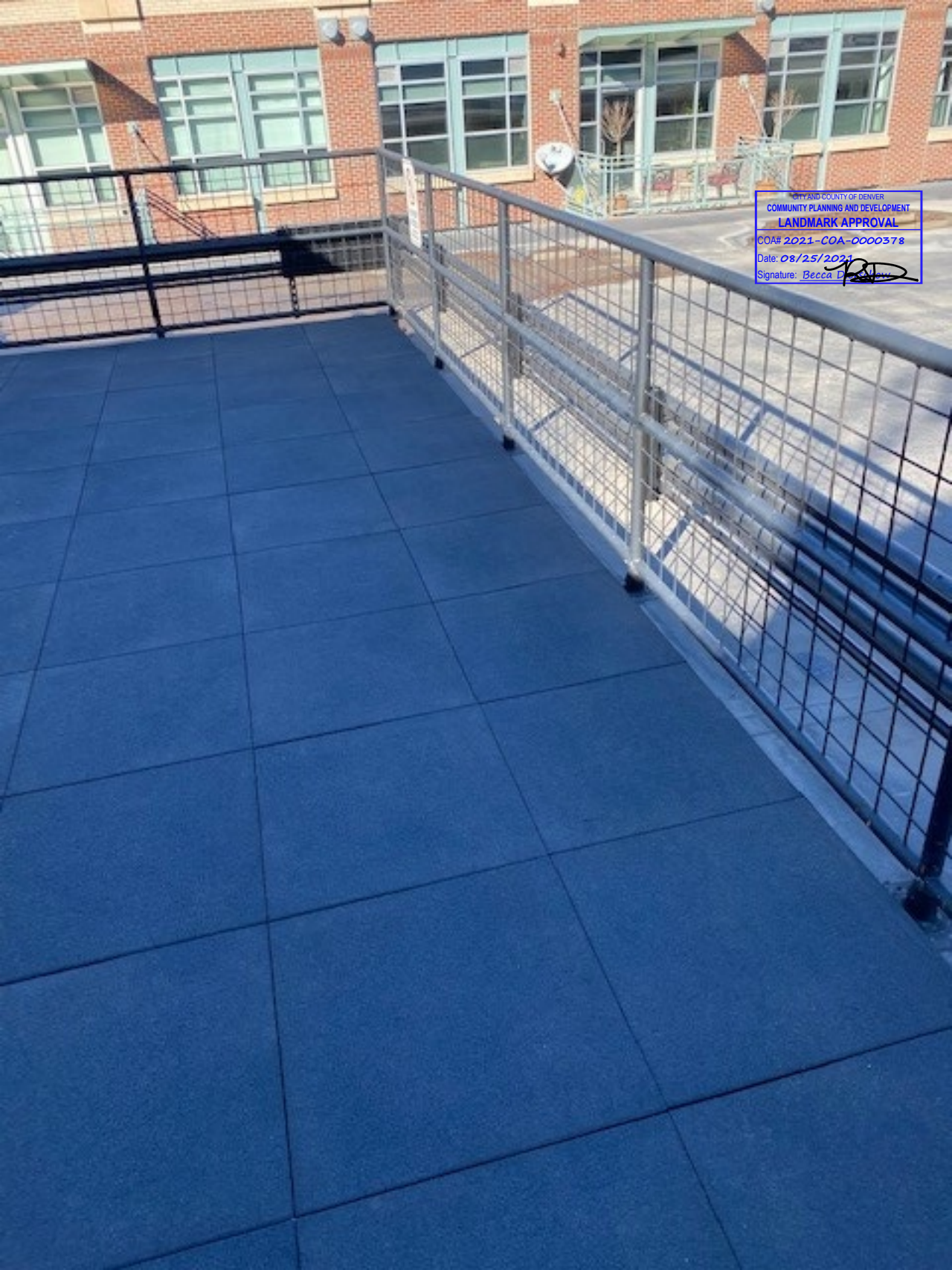
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Roof windows

Roof access window - GXU

CITY AND COUNTY OF DENVER
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Date: 08/25/2021
Signature: Becca D[illegible]

Roof access window - GXU

Benefits:

- Easy roof access for repairs, maintenance, emergency and egress (FK06).
- Locking device keeps sash in open position.
- Slim sash and frame appearance.
- Ventilation flap.
- Can be installed as a left hinged or right hinged roof access window.
- Pre-installed Pick&Clcik!™ brackets for easy blind installation.

Size code GXU	15° - 85° 3.22 - 137.12	CK06	FK06
Rough opening	(W" x H")	22 1/4 x 46 7/8	26 1/4 x 46 7/8

Please reference the price list for a full description of all sizes and glass options.