DE RESIDENCE - ADDITION/REMODEL

104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY

BUILDING DEPARTMENT:
TOWN OF FRISCO

ZONING DISTRICT: RL - RESIDENTIAL LOW DENSITY
PUD: FRISCO PARK FILING 1 & 2

CODE REFERENCES & GUIDELINES
-2018 IRC
-2023 NEC

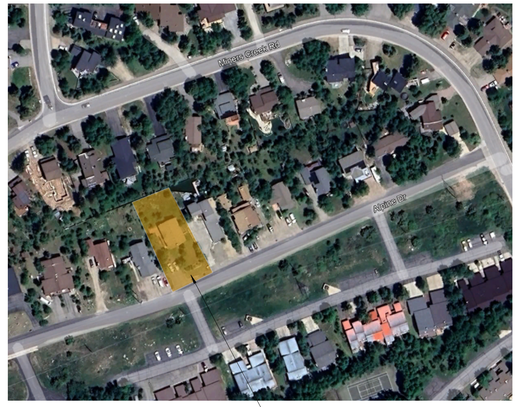
SCOPE SUMMARY

NEW 680 SF (GROSS) DETACHED GARAGE. THE GARAGE TO BE CONNECTED TO THE EXISTING TWO-STORY RESIDENCE BY AN 138 SF ENCLOSED FOYER. EXTEND EXISTING ASPALT DRIVEWAY WITH NEW 1080 SF ASPHALT DRIVE TO CONNECT TO NEW GARAGE. EXISTING UNFINISHED LOWER LEVEL TO BE FINISHED WITH NEW KITCHEN, TWO BATHS, MUDROOM/LAUNDRY ROOM AND TWO BEDROOMS WITH EGRESS WINDOWS. NEW INTERIOR FINISHES, PLUMBING, ELECTRICAL, MECHANICAL, AND INSULATION. EXISTING STAIR AT ENTRY TO BE REMOVED AND REPLACED WITH NEW STAIR, RAILING, AND EXTENDED DECK.

ARCHITECTURAL SHEET INDEX

104 ALPINE DRIVE

FRISCO, COLORADO
PROJECT NO: 1016.00



VICINITY MAP — PROJECT LOCATION

5/5/2026 7:12:50 AM

PODIUM
ARCHITECTURE & DESIGN GROUP

PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:

PERMIT SET	04 MAY 2026

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE
ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

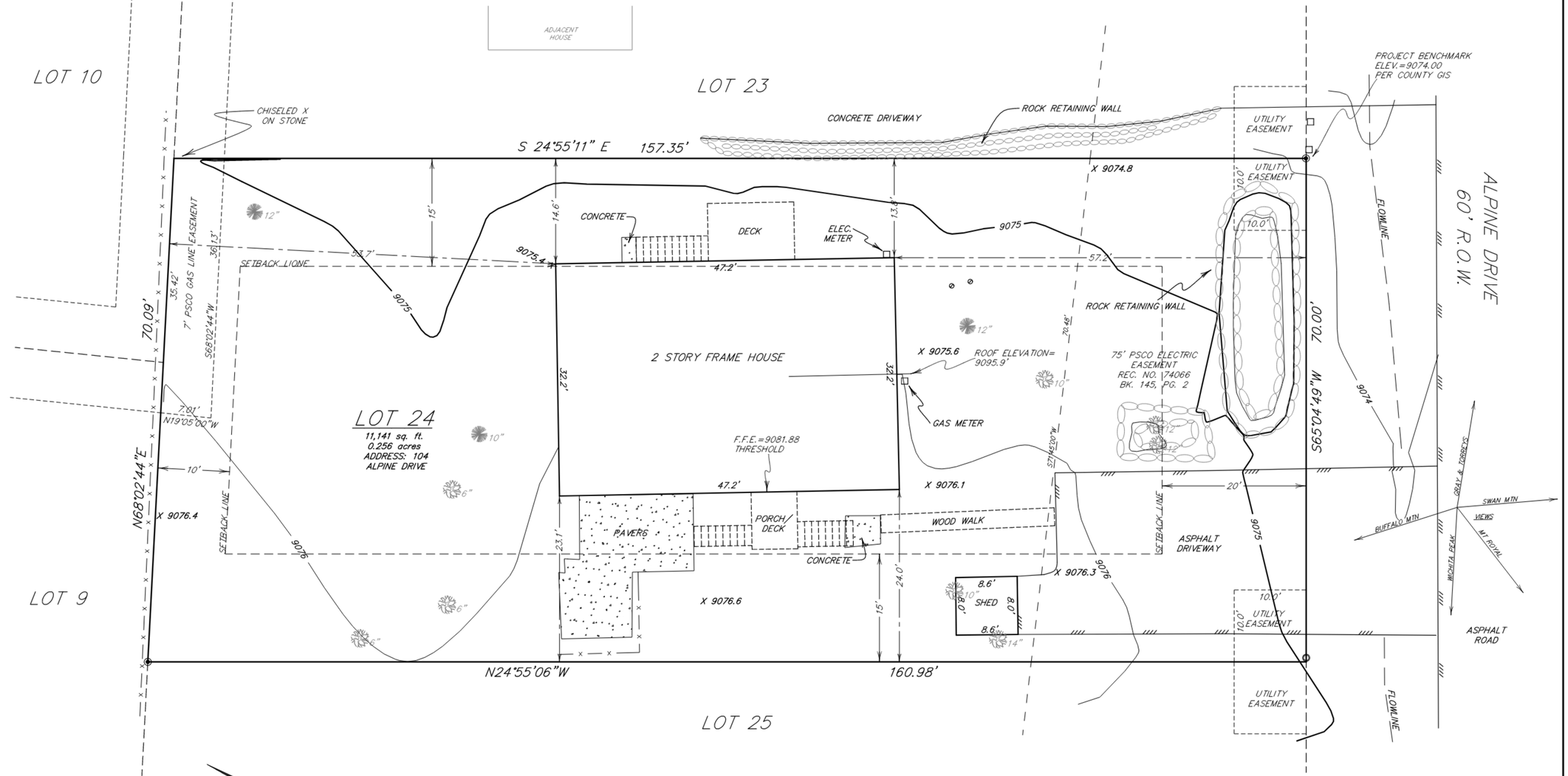
STAMP:

PROJECT NO: 1016.00

SHEET TITLE:
COVER SHEET

SHEET NO:
A0.00

A TOPOGRAPHIC MAP OF
LOT 24, BLOCK 2, FRISCO PARK, FILING NO. 2
TOWN OF FRISCO, SUMMIT COUNTY, COLORADO



GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

DATE OF FIELD SURVEY: 12/04/2025
CONTOUR INTERVAL=1 FOOT

LEGEND

- FOUND REBAR & PLASTIC CAP (PLS 26292)
- FOUND REBAR & ORANGE PLASTIC CAP
- UTILITY PEDESTAL
- — x — x — x — 6' BOARD FENCE
- SEWER SERVICE STUB
- 8" PINE TREE WITH TRUNK DIAMETER
- 8" ASPEN TREE WITH TRUNK DIAMETER
- X 9076.6 SPOT ELEVATION

LOT DENSITY

3043/11141= 27% DENSITY
SETBACKS PER RL ZONING GUIDELINES

COLORADO REGISTERED JESSICA J. KOETTERITZ PROFESSIONAL LAND SURVEYOR 38855 12/17/25

Jessica Koetteritz

Digitally signed by Jessica Koetteritz
Date: 2025.12.17 11:17:17 -07'00'

Drawn RRJ/ESH	Dwg 21081TP	Project 21081
Checked JJK	Date 05/17/2025	Sheet 1 of 1

RANGE WEST INC.
ENGINEERS & SURVEYORS
P.O. Box 589
Silverthorne, CO 80498 970-468-6281

NOTE: ACCORDING TO COLORADO LAW, YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.

5/5/2026 7:12:51 AM

PODIUM
ARCHITECTURE & DESIGN GROUP
PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:
NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:
PERMIT SET 04 MAY 2026

PROJECT NAME & ADDRESS:
104 ALPINE DRIVE
ALPINE DRIVE
FRISCO, COLORADO

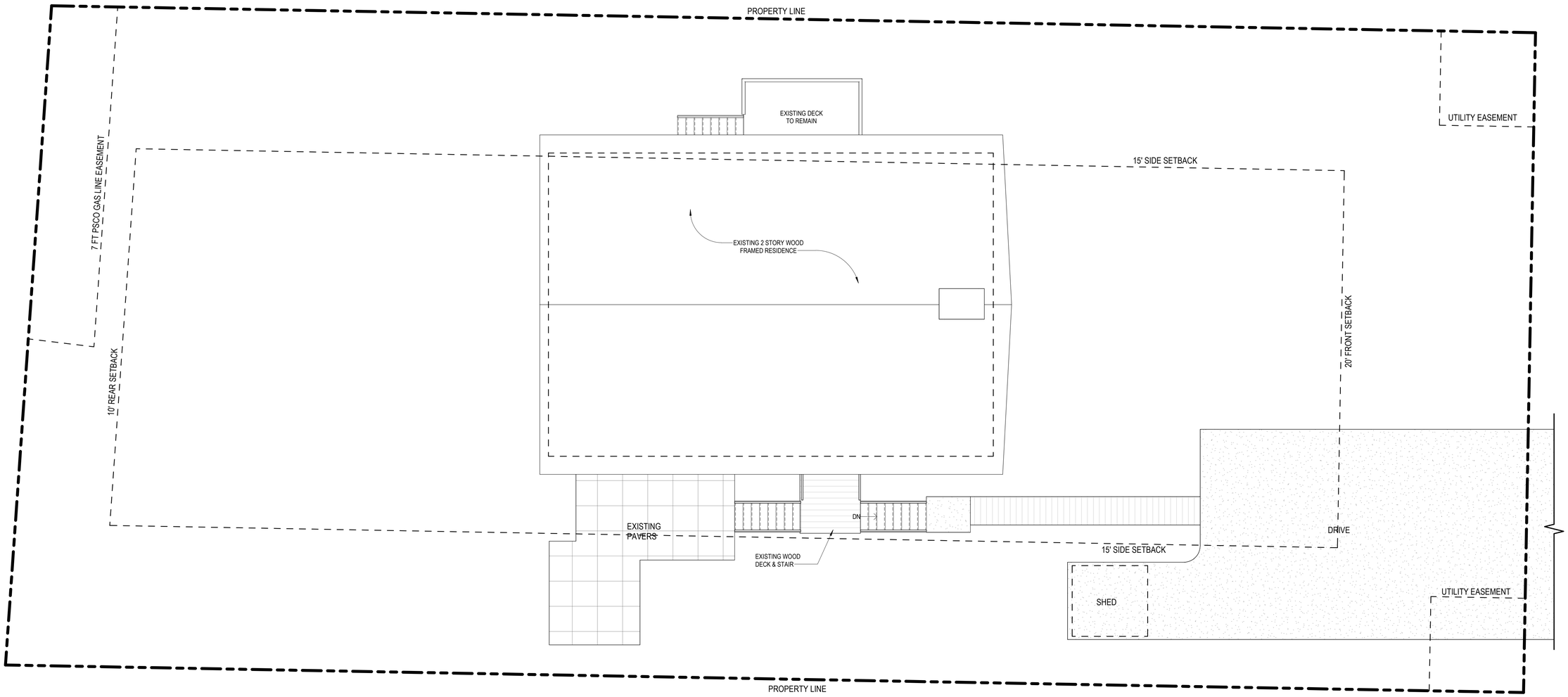
KEY PLAN:

STAMP:

PROJECT NO: 1016.00

SHEET TITLE:
SURVEY - BY OTHERS

SHEET NO:
A0.01



1 **SITE PLAN - EXISTING**
SCALE: 3/16" = 1'-0"

5/5/2026 7:12:51 AM

PODIUM
ARCHITECTURE & DESIGN GROUP

PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:

PERMIT SET	04 MAY 2026

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE

ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

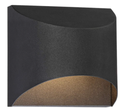
STAMP:

PROJECT NO: 1016.00

SHEET TITLE:
OVERALL SITE PLAN - EXISTING

SHEET NO:
A0.02

EXTERIOR LIGHT FIXTURE



POSSINI EURO RATNER 5 1/2" HIGH BLACK MODERN LED OUTDOOR WALL LIGHT

6" WIDE X 5 1/2" HIGH. EXTENDS 6" FROM THE WALL.

DARK SKY COMPLIANT - LED

SNOW STORAGE REQUIREMENT

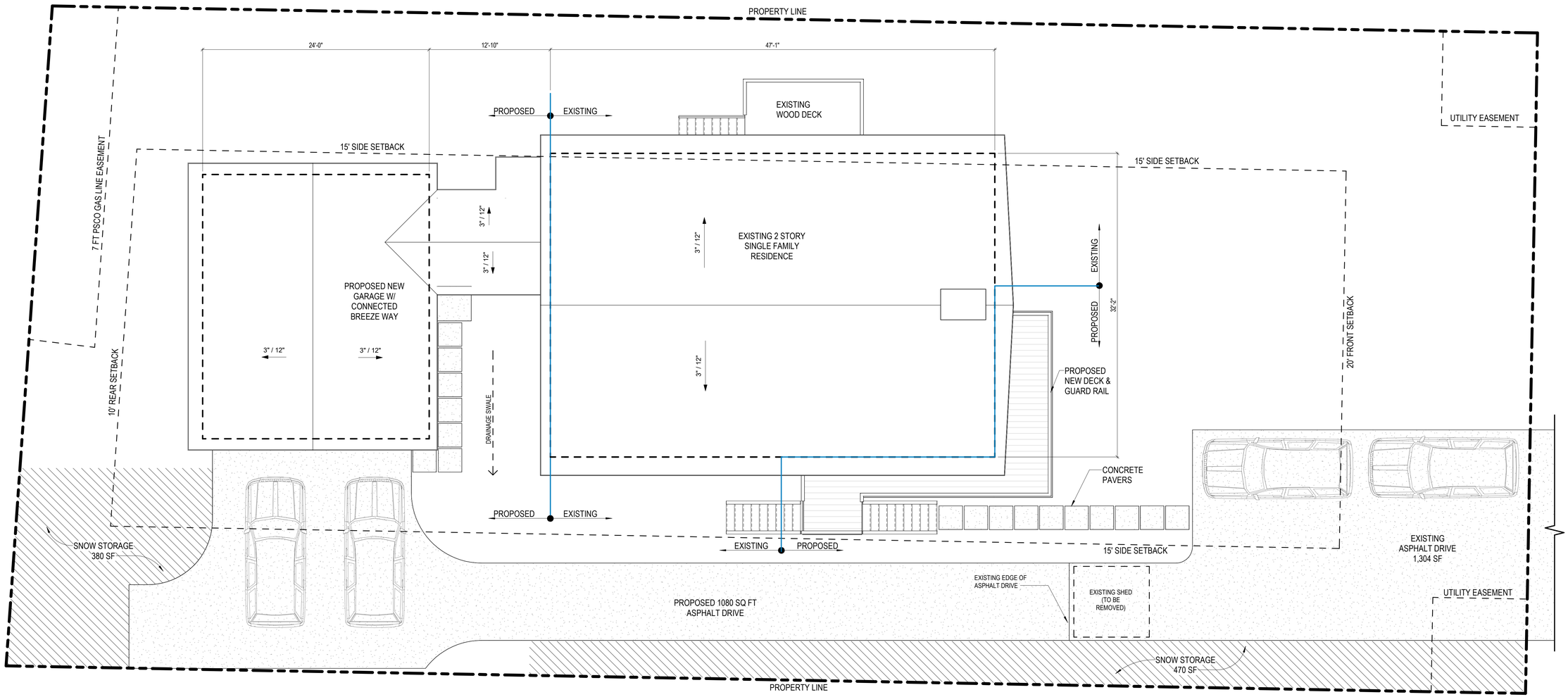
PAVED SURFACE (NEW)	1,080 SF
SNOW STORAGE PROVIDED (NEW)	380 SF
SNOW STORAGE REQUIRED (100SF PER 350 SF)	309 SF

EXISTING

PAVED SURFACE (EXISTING)	1,304 SF
SNOW STORAGE PROVIDED	470 SF
SNOW STORAGE REQUIRED (100SF PER 350 SF)	373 SF

LOT COVERAGE

LOT AREA	11,141 SF	100%
EXISTING PAVED AREA	1,3040 SF	12%
EXISTING BUILDING	1,512 SF	14%
PROPOSED ASPHALT DRIVE	1,080 SF	10%
PROPOSED GARAGE & BREEZEWAY	768 SF	7%
TOTAL PROPOSED BUILDING FOOTPRINT	309 SF	42%



1 SITE PLAN - PROPOSED
SCALE: 3/16" = 1'-0"

5/5/2026 7:12:52 AM

PODIUM
ARCHITECTURE & DESIGN GROUP
PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:
NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:
PERMIT SET 04 MAY 2026

PROJECT NAME & ADDRESS:
104 ALPINE DRIVE
ALPINE DRIVE
FRISCO, COLORADO

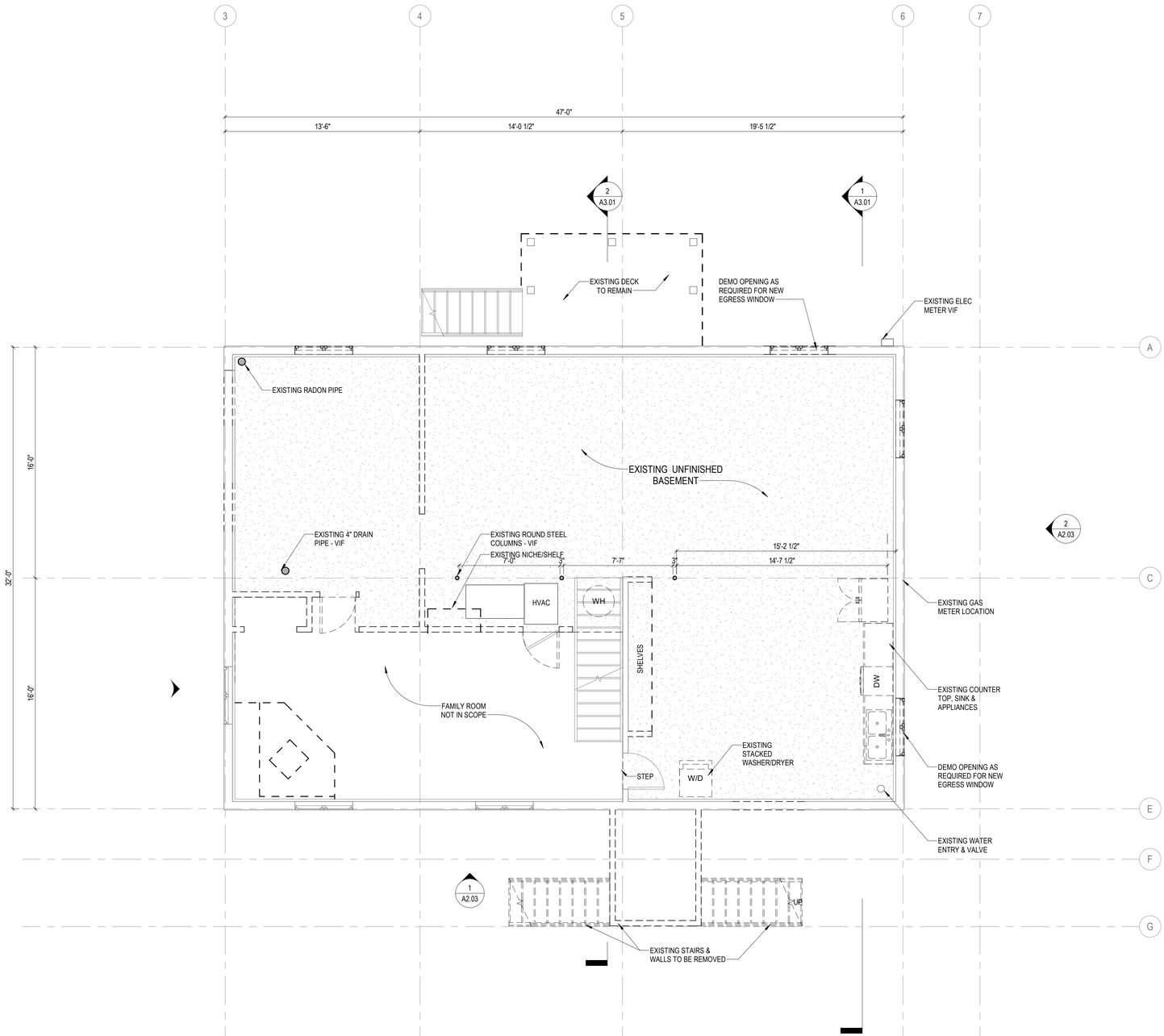
KEY PLAN:

STAMP:

PROJECT NO: 1016.00

SHEET TITLE:
OVERALL SITE PLAN - PROPOSED

SHEET NO:
A0.03



1 BSMT LEVEL - EXISTING / DEMO

SCALE: 1/4" = 1'-0"

5/5/2026 7:12:53 AM

PODIUM
ARCHITECTURE & DESIGN GROUP

PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE

104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY

(303) 638-6230

ISSUE/ REVISION:

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE

ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

PROJECT NO: 1016.00

SHEET TITLE:

LEVEL PLANS - EXISTING - BSMT LEVEL

SHEET NO:

A1.01

DOOR SCHEDULE

MARK	FUNCTION	DIMENSIONS HEIGHT	DIMENSIONS WIDTH	COMMENTS
BSMT LEVEL				
01	Interior	6'-8"	2'-6"	
02	Interior	6'-8"	2'-10"	
03	Interior	6'-8"	2'-6"	
04	Interior	6'-8"	2'-6"	
05	Interior	6'-8"	2'-6"	
07	Interior	6'-8"	2'-10"	
08	Interior	6'-8"	2'-8"	
09	Interior	6'-8"	2'-8"	DOUBLE SWING CLOSET DOOR
09	Interior	6'-8"	2'-8"	DOUBLE SWING CLOSET DOOR
10	Interior	6'-8"	2'-10"	
11	Interior	6'-8"	2'-6"	
12	Interior	6'-8"	2'-6"	
E1	Exterior	6'-8"	3'-0"	HALF LITE GLASS - TEMPERED
E2	Exterior	6'-8"	3'-0"	HALF LITE GLASS - TEMPERED
GARAGE LEVEL				
E3	Interior	6'-8"	3'-0"	20 MINUTE RATED - GARAGE SEPARATION
E4	Interior	6'-8"	3'-0"	
E5	Exterior	8'-0"	18'-0"	OVERHEAD GARAGE DOOR
E6	Interior	3'-6"	2'-4"	STORAGE
E7	Interior	3'-6"	2'-4"	STORAGE
E8	Exterior	6'-8"	3'-0"	
LEVEL 1				
14	Interior	6'-8"	2'-0"	BIFOLD - OWNER TO VERIFY
15	Interior	6'-8"	2'-0"	BIFOLD - OWNER TO VERIFY

WINDOW SCHEDULE

TYPE	SILL HEIGHT	HEAD HEIGHT	WIDTH	HEIGHT	OPERATION
A	4'-0"	7'-0"	4'-0"	3'-0"	
A	4'-0"	7'-0"	4'-0"	3'-0"	
A	4'-0"	7'-0"	4'-0"	3'-0"	
A	4'-0"	7'-0"	4'-0"	3'-0"	
B	3'-7 1/2"	7'-1 1/2"	5'-0"	3'-6"	EGRESS
B	3'-7 1/2"	7'-1 1/2"	5'-0"	3'-6"	EGRESS
C	3'-8"	6'-8"	4'-0"	3'-0"	
D	4'-8"	6'-8"	4'-0"	2'-0"	

U-FACTOR 0.30 MIN

EGRESS WINDOW - CODE SUMMARY

IRC 2018 - R310.2.1 MINUMUM OPENING AREA:
EMERGENCY AND ESCAPE RESCUE OPENINGS SHALL HAVE A NET CLEAR OPENING OF NOT LESS THAN 5.7 SQUARE FEET

THE NET CLEAR HEIGHT OF THE OPENING SHALL BE NOT LESS THAN 24 INCHES AND THE NET CLEAR WIDTH SHALL BE NOT LESS THAN 20"

R310.2.2 WINDOW SILL HEIGHT:
WHERE A WINDOW IS PROVIDED AS THE EMERGENCY ESCAPE AND RESCUE OPENING, IT SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE THE FLOOR, WHERE THE SILL HEIGHT IS BELOW GRADE, IT SHALL BE PROVIDED WITH A WINDOW WELL IN ACCORDANCE WITH SECTION R310.2.3

R310.2.3 WINDOW WELLS:
THE HORIZONTAL AREA OF THE WINDOW WELL SHALL BE NOT LESS THAN 9 SQUARE FEET, WITH A HORIZONTAL PROJECTION AND WIDTH OF NOT LESS THAN 36 INCHES. THE AREA OF THE WINDOW WELL SHALL ALLOW THE EMERGENCY ESCAPE AND RESCUE OPENING TO THE BE FULLY OPENED.
PROPOSED HORIZONTAL AREA = 10.5 SQ FT

EXCEPTION: THE LADDER OR STEPS REQUIRED BY SECTION R310.2.3.1 SHALL BE PERMITTED TO ENCROACH NOT MORE THAN 6 INCHES INTO THE REQUIRED DIMENSIONS OF THE WINDOW WELL.
PROPOSED WINDOW WELLS TO BE LESS THAN 44 INCHES IN DEPTH AND THEREFORE AN ESCAPE LADDER SHALL NOT BE PROVIDED

GENERAL NOTES

PROJECT GENERAL NOTES

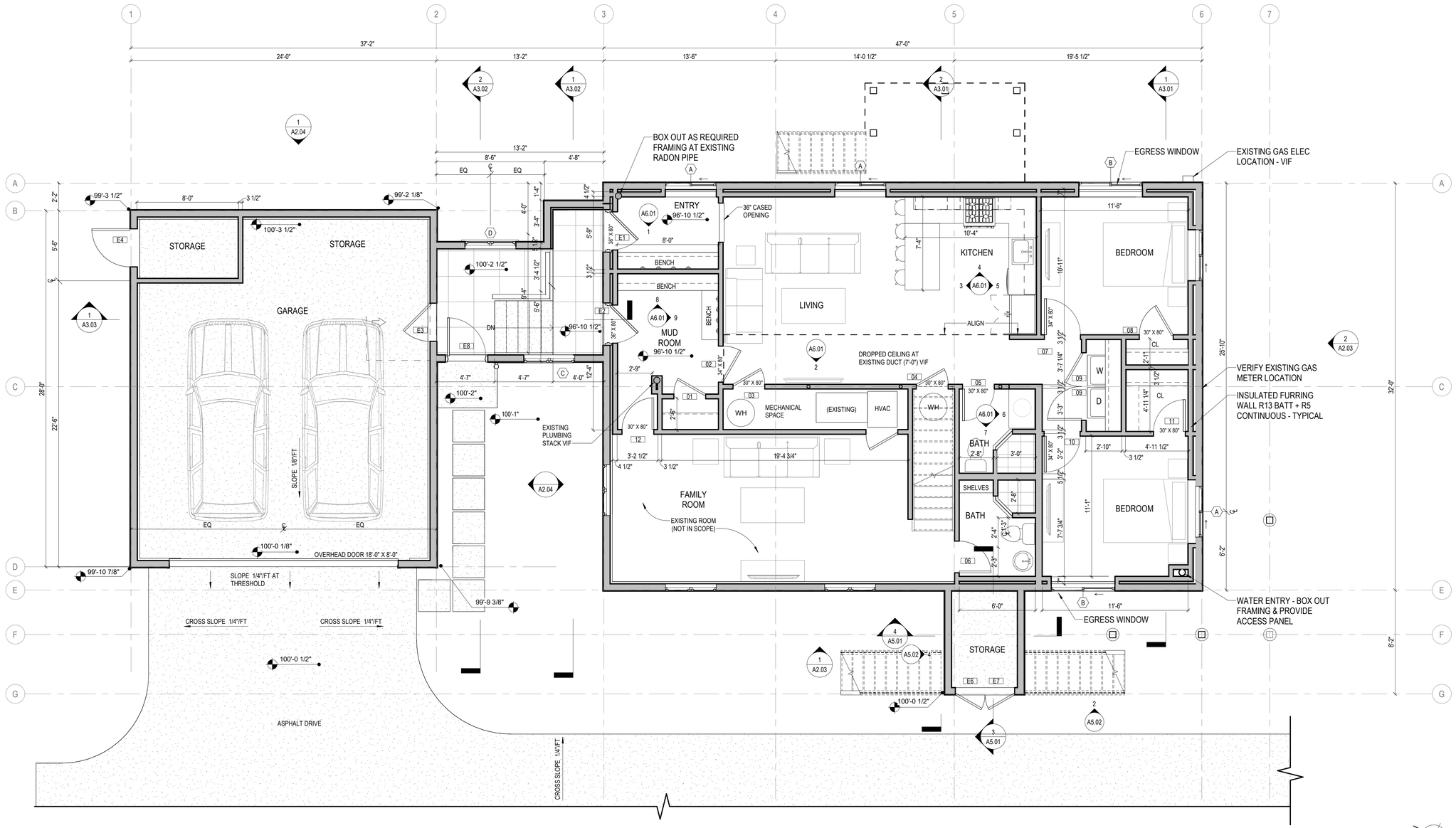
1. PROJECT DATUM: 100' - 0" = 9,076' - 0"
2. NOTIFY ARCHITECT IMMEDIATELY IF ANY DIMENSIONAL DISCREPANCIES ARE FOUND IN ANY CONTRACT DOCUMENTS PRIOR TO COMMENCING THE WORK.
3. DO NOT SCALE DIMENSIONS FROM DRAWINGS. USE CALCULATED DIMENSIONS ONLY.
4. REFER TO ALL OTHER CONSULTANT DRAWINGS LISTED ON THE COVER PAGE FOR ADDITIONAL INFORMATION. CONTRACTORS MUST CROSS-REFERENCE DRAWINGS FOR AN ACCURATE UNDERSTANDING OF ALL PROJECT REQUIREMENTS.
5. ALL CONTRACTORS SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND ANY OTHER EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NO ADDITIONAL COSTS SHALL BE ALLOWED DUE TO LACK OF THIS ITEM BEING INCLUDED IN PRICING.
6. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO INITIATING THE WORK.
7. ALL WORK SHALL CONFORM APPLICABLE LAND USE AND BUILDING CODES AS AMENDED BY AUTHORITIES HAVING JURISDICTION.
8. ALL CONTRACTORS ARE RESPONSIBLE FOR PREPARING, PROTECTING, OR REPLACING ANY DISTURBED OR DAMAGED MATERIALS DURING THE SCOPE OF THIS PROJECT.
9. ALL UTILITIES SHALL BE INSTALLED PER THE UTILITY COMPANY REQUIREMENTS AND RECOMMENDATIONS.
10. CONTRACTOR SHALL COORDINATE AND INSTALL ALL SLEEVES OR PREPARE FOR ALL PENETRATIONS THROUGH ANY ASSEMBLIES AS REQUIRED. ANY CUTTING AND/OR PATCHING REQUIRED DUE TO LACK OF FIELD COORDINATION SHALL NOT BE ALLOWED AS AN EXTRA COST.
11. CONTRACTORS TO VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT. PROVIDE ALL BUCK-OUT, BLOCKING, BACKING, AND JACKS OR OTHER ITEMS REQUIRED FOR INSTALLATION.
12. ALL FURNITURE AND EQUIPMENT SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.
13. CONTRACTOR TO COORDINATE ELECTRICAL LOCATIONS TO EXTERIOR SNOWMELT AS REQUIRED.
14. STRUCTURAL DESIGN LOADS BY OTHERS UNLESS SPECIFICALLY NOTED ON PLANS.
15. ALL PREFABRICATED SYSTEMS (GUARDRAILS, HANDRAILS, ETC.) TO BE INSTALLED PER RESIDENTIAL BUILDING CODE (AND PER MANUFACTURER RECOMMENDATION) AS TO MEET ALL REQUIREMENTS FOR SAFETY

DEMOLITION GENERAL NOTES (RE: AX.X.X SERIES)

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ARCHITECT ON ANY AND ALL DISCREPANCIES WITH THE INFORMATION INDICATED ON THE PROPOSED DRAWINGS AND SPECIFICATIONS.

PROPOSED FLOOR PLAN GENERAL NOTES (RE: AX.X.X SERIES)

1. ALL EXTERIOR AND INTERIOR DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD, UNLESS OTHERWISE NOTED.
2. BLOCKING TO BE INSTALLED AS REQUIRED FOR ALL MILLWORK, CABINETRY, ARTWORK, GRAB BARS, LIGHTING, ETC.
3. PROVIDE CRACK ISOLATION MEMBRANE UNDER ALL FLOOR TILE INSTALLATIONS.
4. TILE FLOORS IN WET AREAS AND SHOWERS ARE TO BE SLOPED 1/8 INCH PER FOOT TO DRAINS SHOWN. MAINTAIN 1/2-INCH SETTING BED AT DRAINS FOR INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
5. REFER TO UNIT PLANS FOR ALL INTERIOR WALL TYPES, DOOR TYPES, FINISHES AND RCP INFORMATION.
6. CONFIRM AND COORDINATE ALL SHEAR WALL LOCATIONS WITH STRUCTURAL PLANS.
7. PROVIDE SOUND ISOLATION DEVICES WHEN MOUNTING TVS OR SPEAKERS AT DEMISING WALL LOCATIONS.
8. ALL FLOOR ELEVATIONS ARE TO TOP OF STRUCTURE (I.E. PLYWOOD, CONCRETE)
9. GRIDS TO GO TO OUTSIDE FACE OF STUD/CORE, OR TO CENTER OF DEMISING WALLS UNLESS NOTED OTHERWISE



1 **BSMT LEVEL - PROPOSED**
SCALE: 1/4" = 1'-0"

5/5/2026 7:12:55 AM

PODIUM
ARCHITECTURE & DESIGN GROUP
PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:
NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:

PROJECT NAME & ADDRESS:
104 ALPINE DRIVE
ALPINE DRIVE
FRISCO, COLORADO

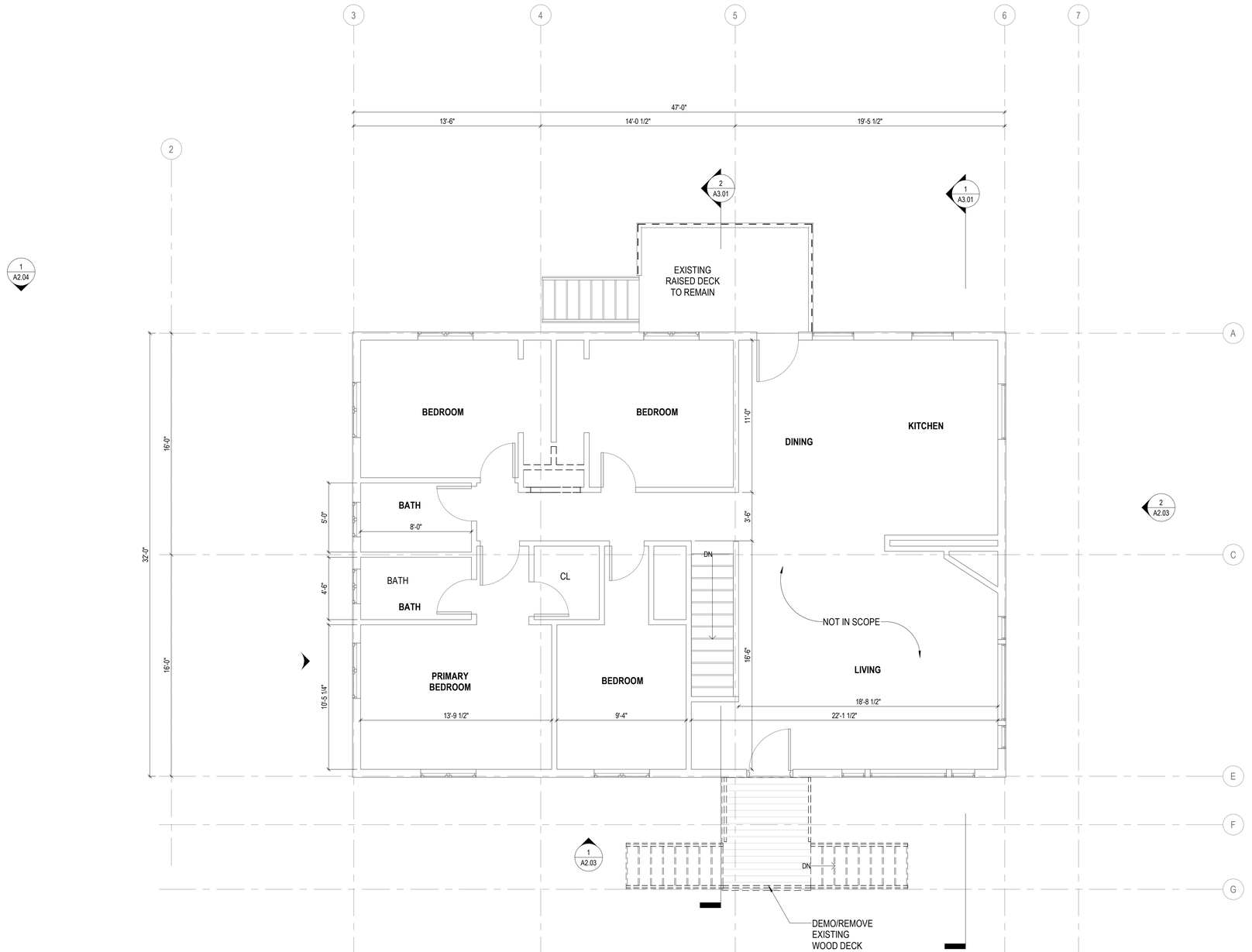
KEY PLAN:

STAMP:

PROJECT NO: 1016.00

SHEET TITLE:
LEVEL PLANS - PROPOSED - BSMT - OPTION 1

SHEET NO:
A1.02



1 **LEVEL 1 - EXISTING**
SCALE: 1/4" = 1'-0"

5/5/2026 7:12:56 AM

PODIUM
ARCHITECTURE & DESIGN GROUP
PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:
NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:
PERMIT SET 04 MAY 2026

PROJECT NAME & ADDRESS:
104 ALPINE DRIVE
ALPINE DRIVE
FRISCO, COLORADO

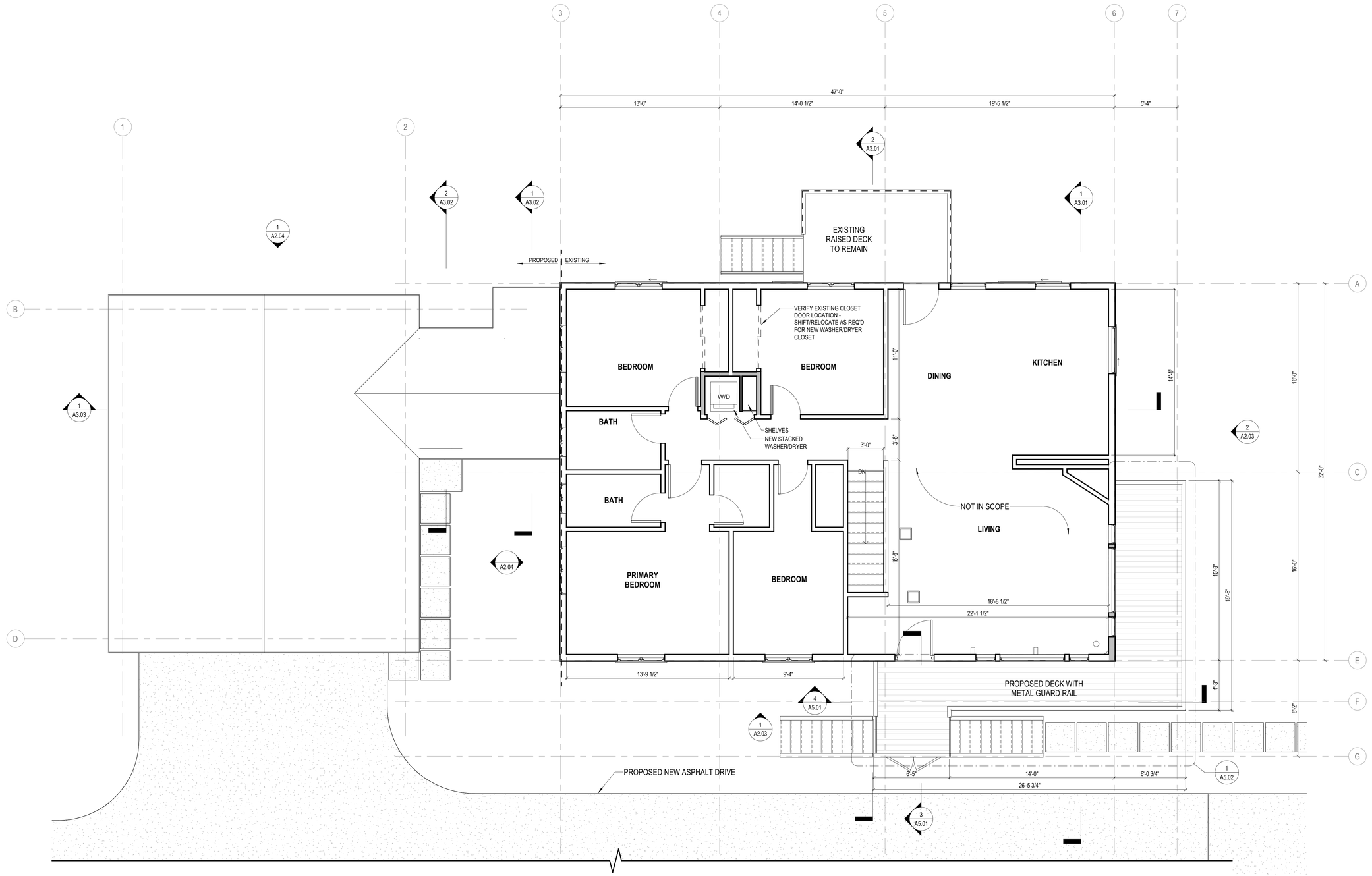
KEY PLAN:

STAMP:

PROJECT NO: 1016.00

SHEET TITLE:
LEVEL 1 PLAN - EXISTING

SHEET NO:
A1.03



1 **LEVEL 1 PLAN - PROPOSED**
SCALE: 1/4" = 1'-0"

PODIUM
ARCHITECTURE & DESIGN GROUP
PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:
NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:
PERMIT SET 04 MAY 2026

PROJECT NAME & ADDRESS:
104 ALPINE DRIVE
ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

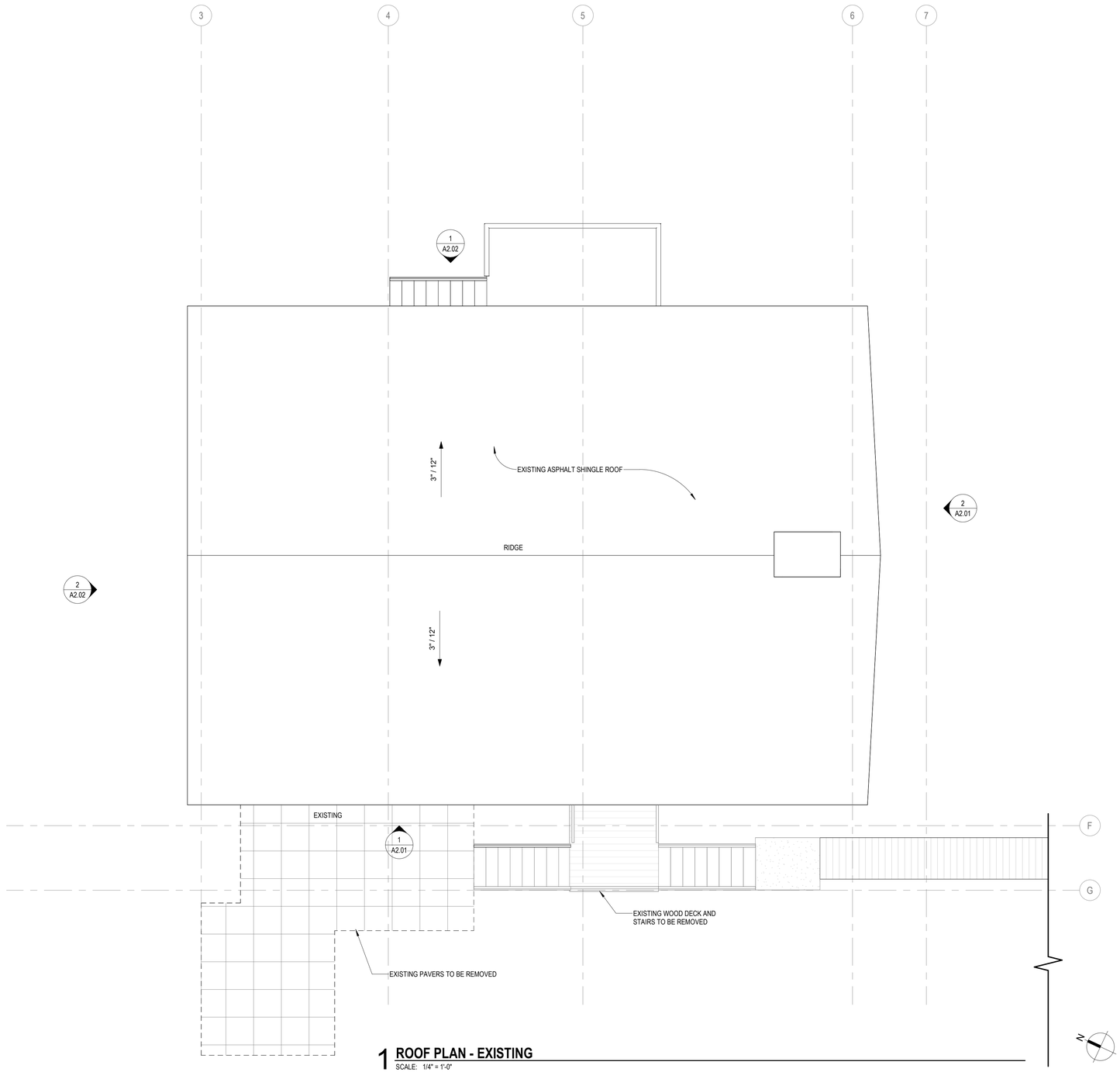
STAMP:

PROJECT NO: 1016.00

SHEET TITLE:
LEVEL 1 PLAN - PROPOSED

SHEET NO:
A1.04

5/5/2026 7:12:57 AM



1 **ROOF PLAN - EXISTING**
SCALE: 1/4" = 1'-0"

5/5/2026 7:12:57 AM

PODIUM
ARCHITECTURE & DESIGN GROUP

PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE

104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY

(303) 638-6230

ISSUE/ REVISION:

PERMIT SET	04 MAY 2026

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE

ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

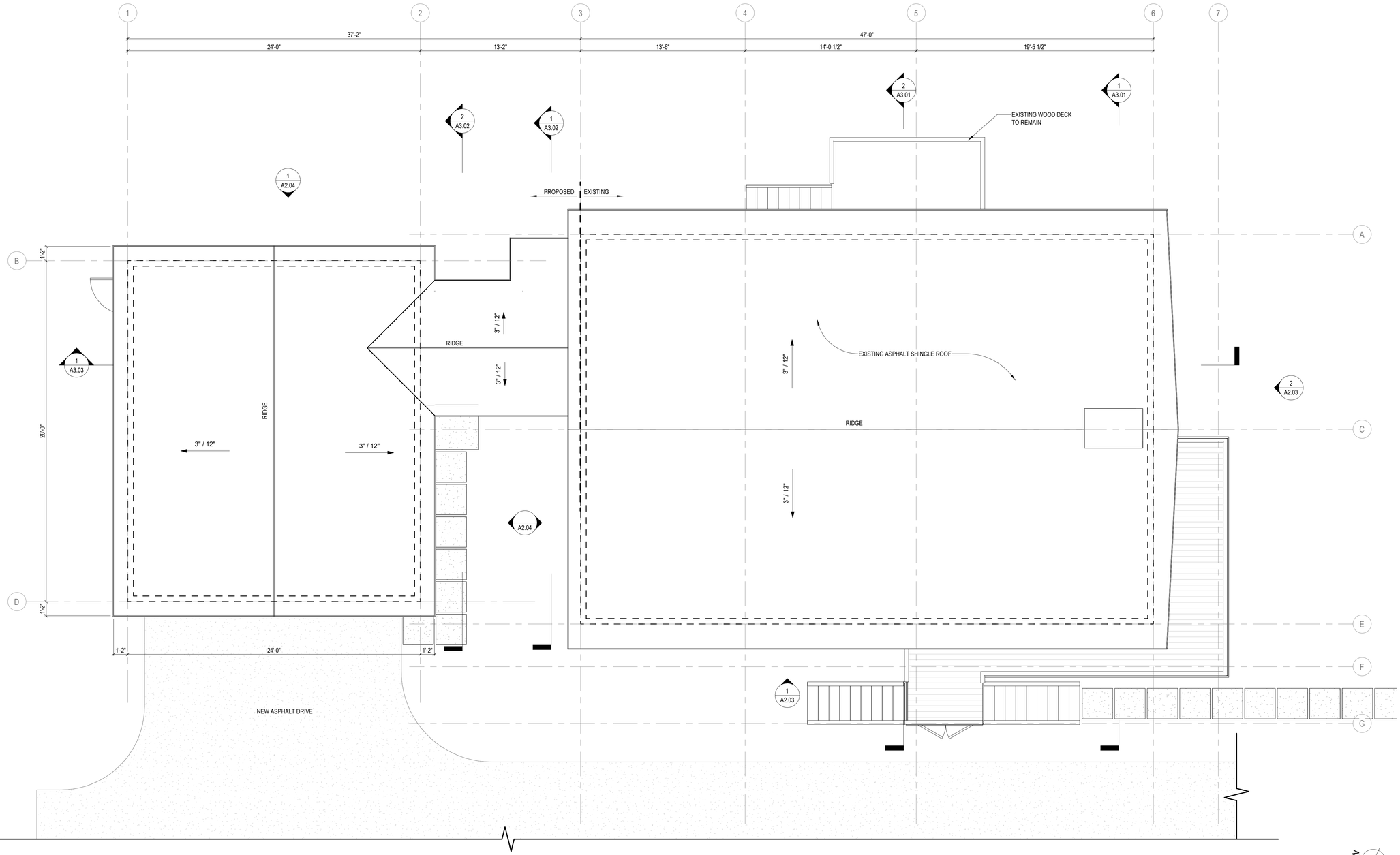
PROJECT NO: 1016.00

SHEET TITLE:

ROOF LEVEL PLAN - EXISTING

SHEET NO:

A1.05



1 **ROOF PLAN - PROPOSED**
SCALE: 1/4" = 1'-0"

5/5/2026 7:12:58 AM

PODIUM
ARCHITECTURE & DESIGN GROUP

PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:

PERMIT SET	04 MAY 2026

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE

ALPINE DRIVE
FRISCO, COLORADO

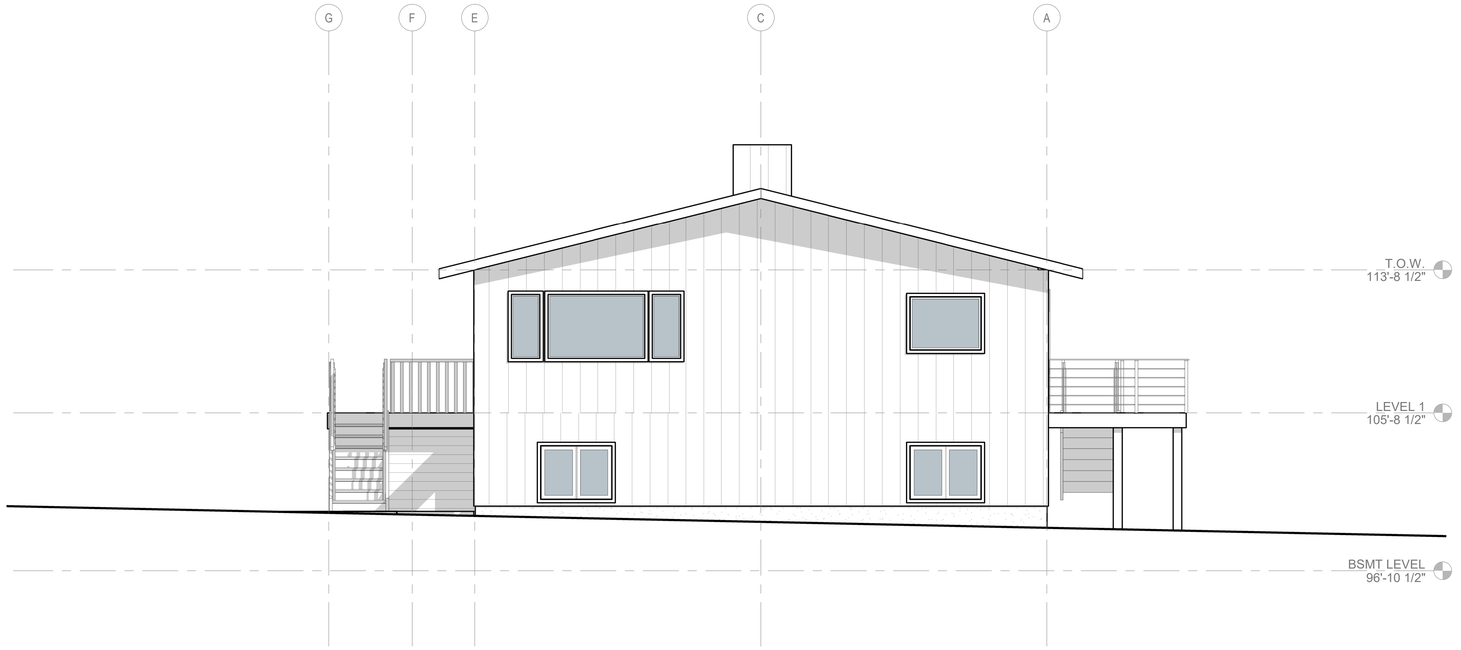
KEY PLAN:

STAMP:

PROJECT NO: 1016.00

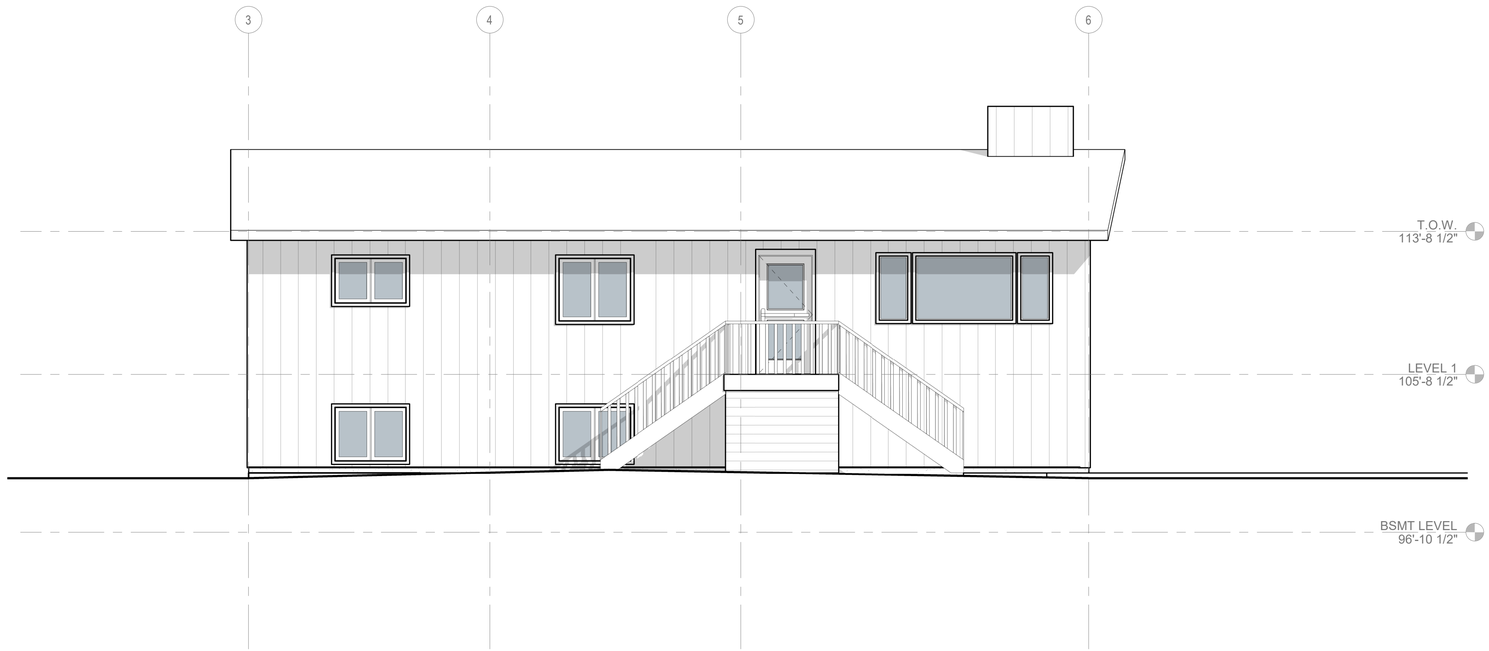
SHEET TITLE:
ROOF LEVEL PLAN - PROPOSED

SHEET NO:
A1.06



2 SOUTH ELEVATION - EXISTING

SCALE: 1/4" = 1'-0"



1 WEST ELEVATION - EXISTING

SCALE: 1/4" = 1'-0"

5/5/2026 7:13:03 AM

PODIUM
ARCHITECTURE & DESIGN GROUP

PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE

104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY

(303) 638-6230

ISSUE/ REVISION:

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE

104 ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

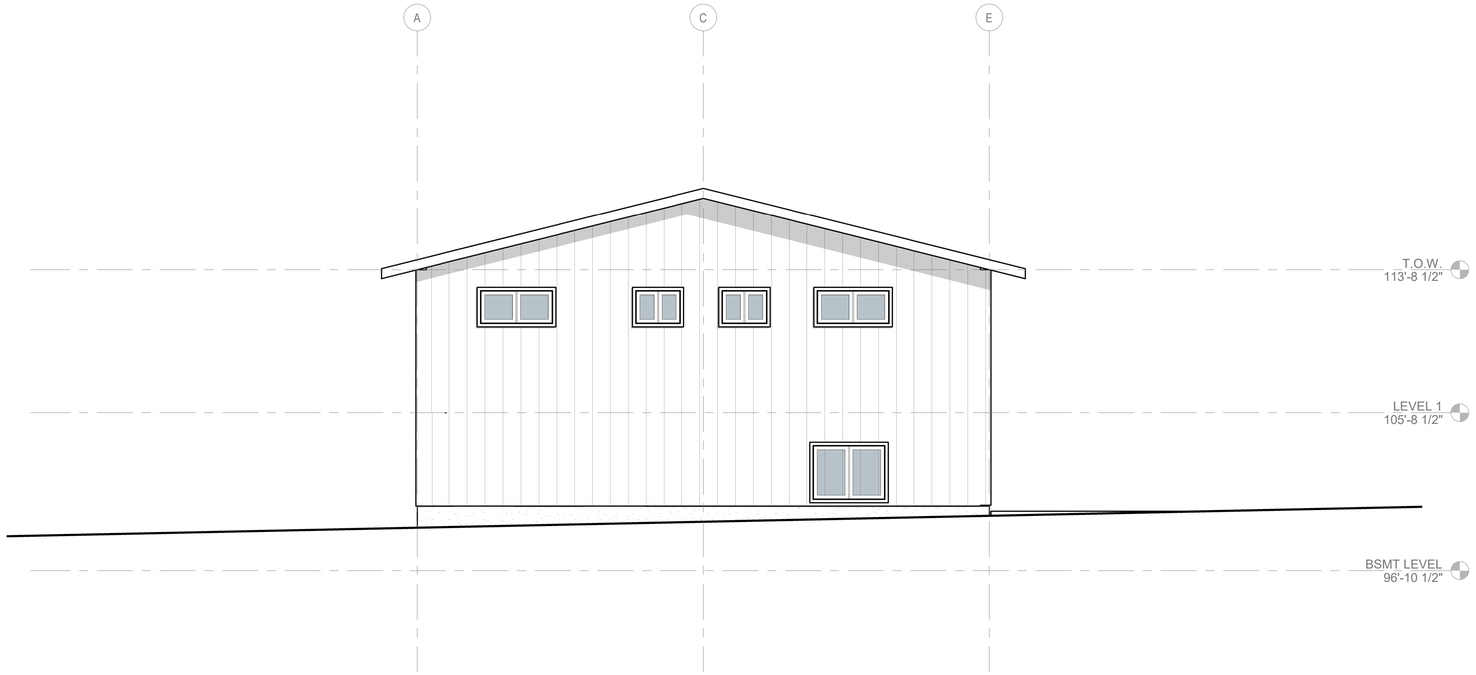
PROJECT NO: 1016.00

SHEET TITLE:

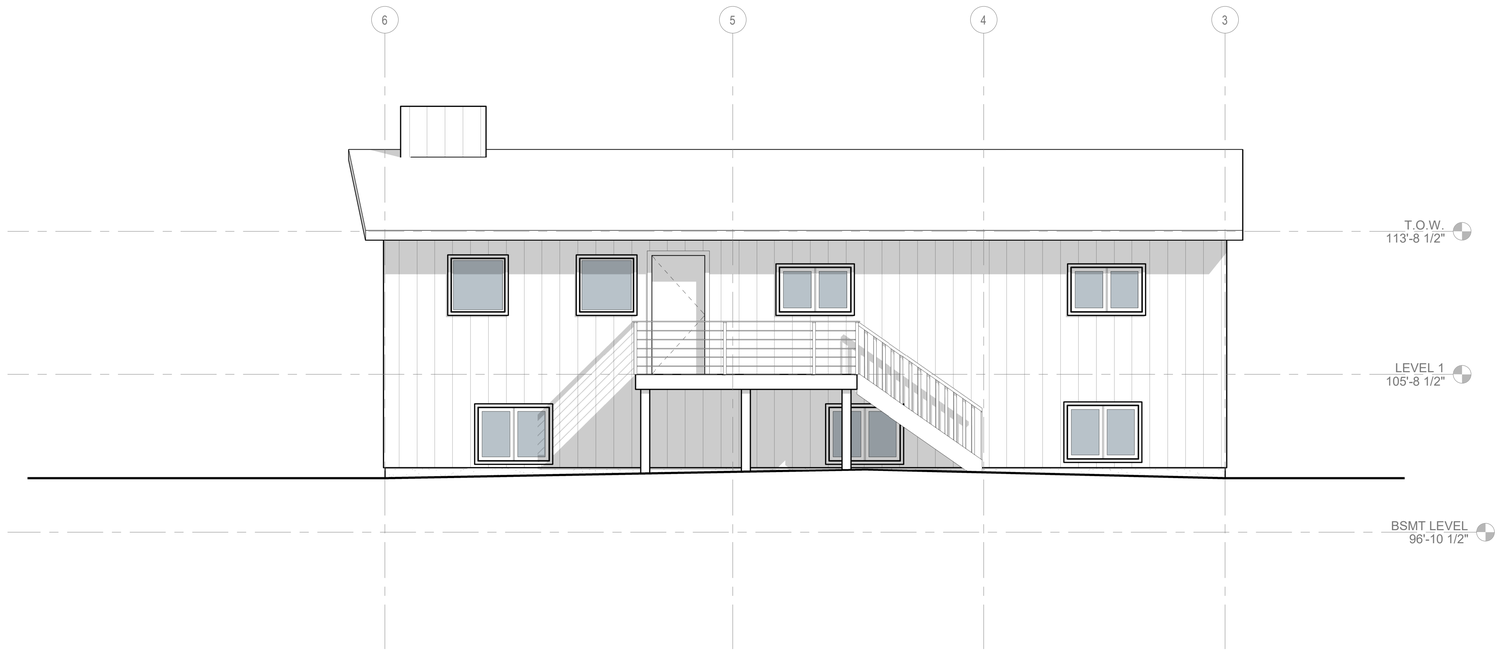
ELEVATIONS - EXISTING

SHEET NO:

A2.01



2 **NORTH ELEVATION - EXISTING**
SCALE: 1/4" = 1'-0"



1 **EAST ELEVATION - EXISTING**
SCALE: 1/4" = 1'-0"

5/5/2026 7:13:08 AM

PODIUM
ARCHITECTURE & DESIGN GROUP

PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE

104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY

(303) 638-6230

ISSUE/ REVISION:

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE

ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

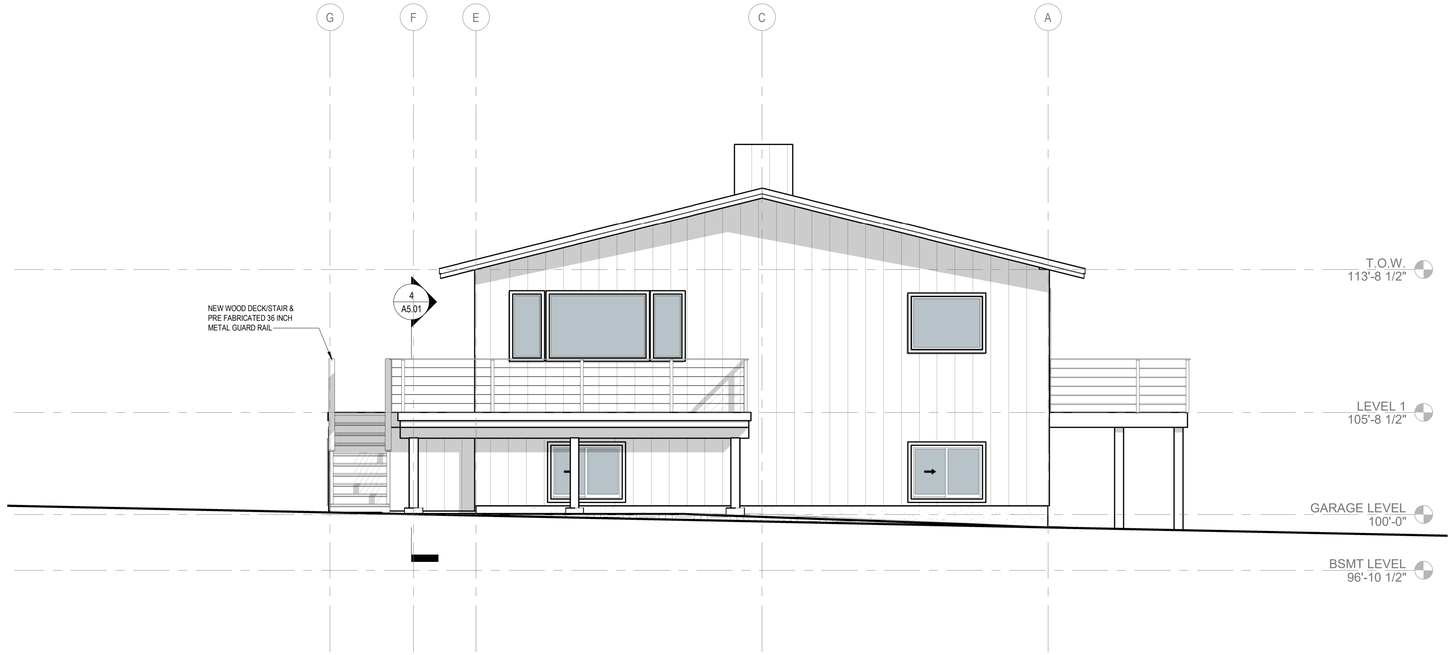
PROJECT NO: 1016.00

SHEET TITLE:

ELEVATIONS - EXISTING

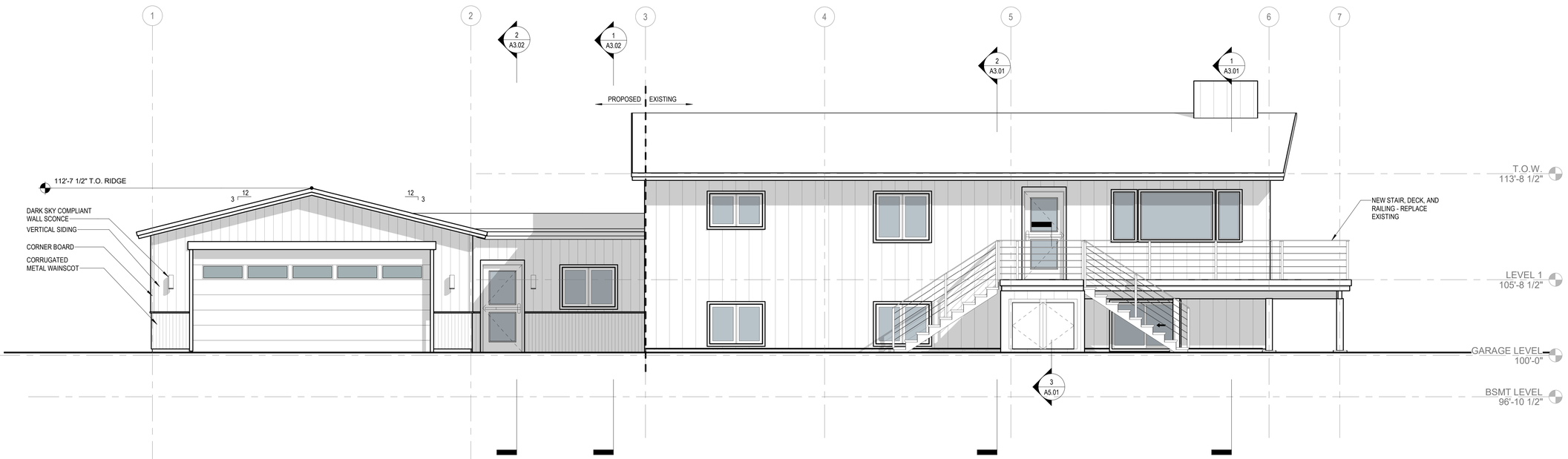
SHEET NO:

A2.02



2 SOUTH ELEVATION - PROPOSED

SCALE: 1/4" = 1'-0"



1 WEST ELEVATION - PROPOSED

SCALE: 1/4" = 1'-0"

5/5/2026 7:13:14 AM

PODIUM
ARCHITECTURE & DESIGN GROUP

PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE

104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY

(303) 638-6230

ISSUE/ REVISION:

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE

ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

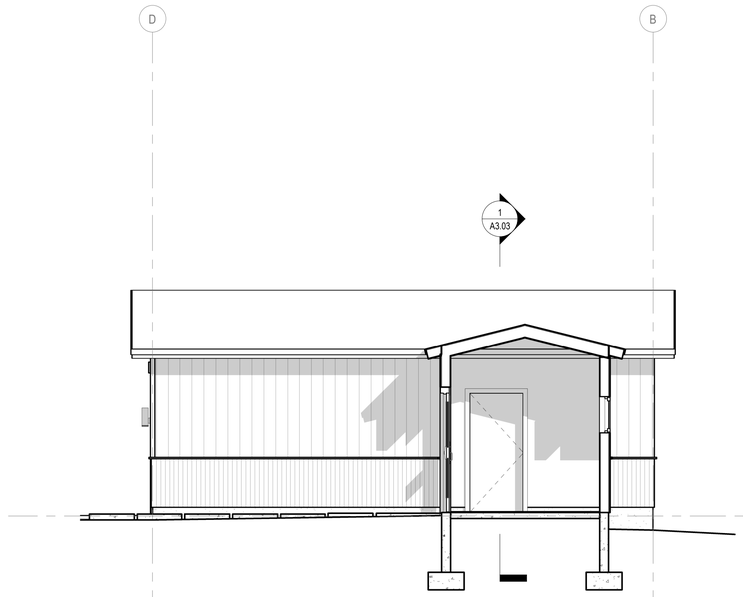
PROJECT NO: 1016.00

SHEET TITLE:

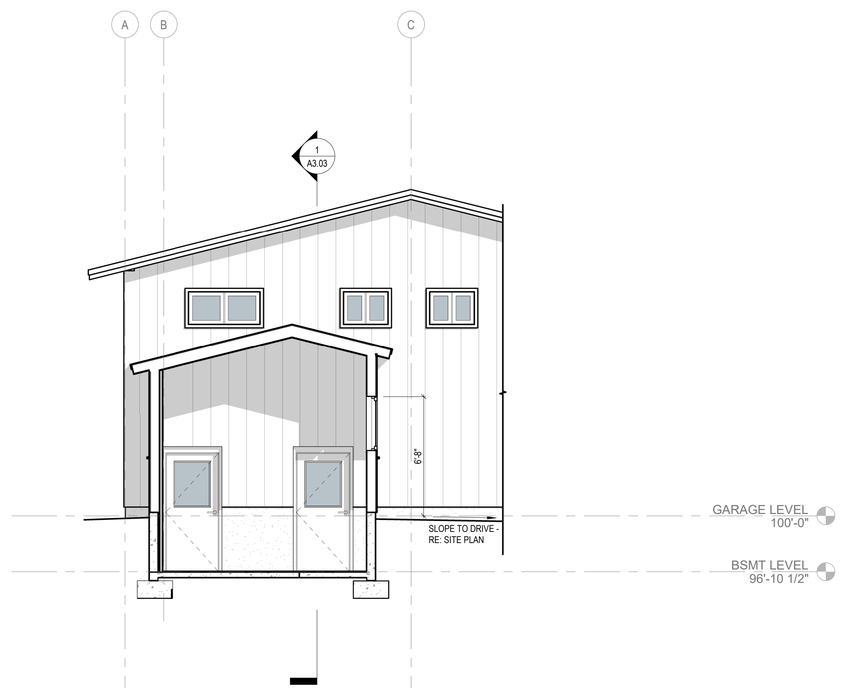
ELEVATIONS - PROPOSED

SHEET NO:

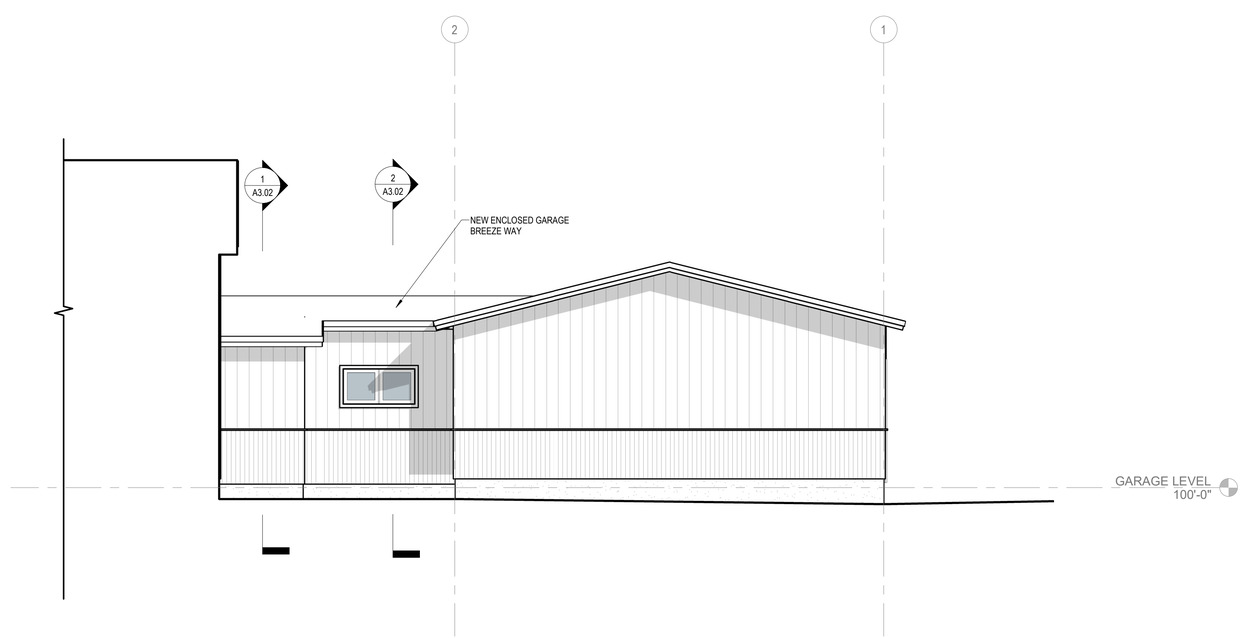
A2.03



2 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



3 NORTH PARTIAL ELEVATION
SCALE: 1/4" = 1'-0"



1 EAST ELEVATION
SCALE: 1/4" = 1'-0"

5/5/2026 7:13:20 AM

PODIUM
ARCHITECTURE & DESIGN GROUP

PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE

104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY

(303) 638-6230

ISSUE/ REVISION:

PERMIT SET	04 MAY 2026

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE

104 ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

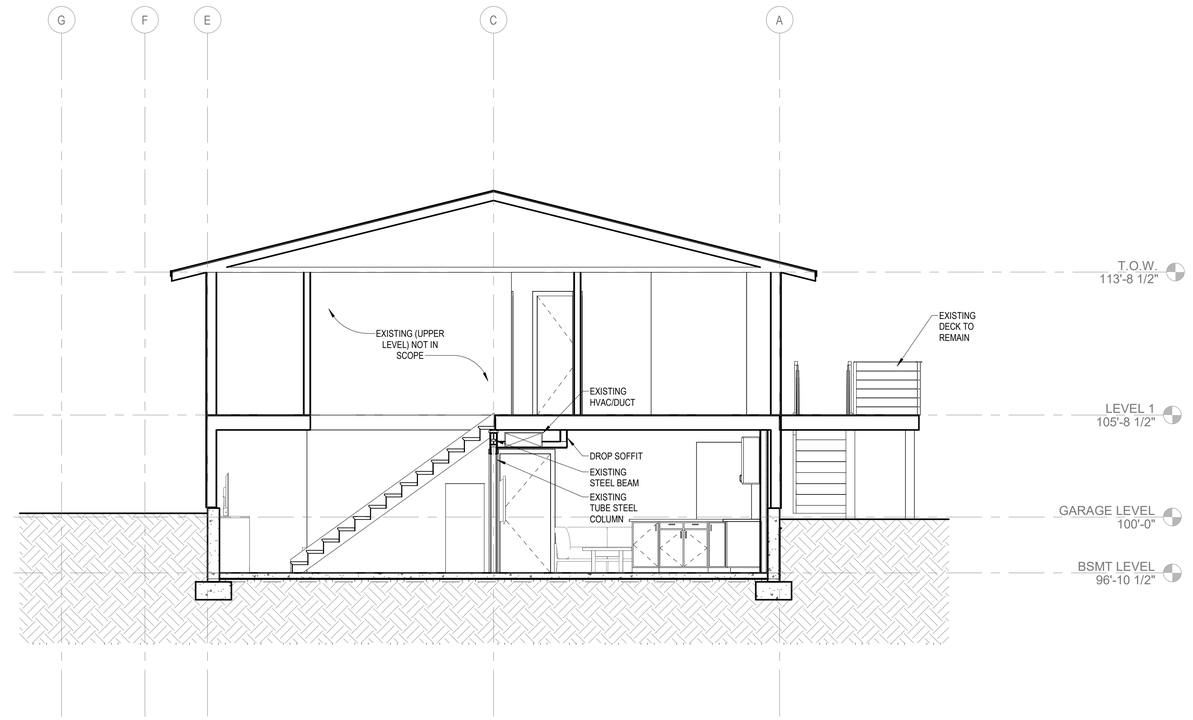
PROJECT NO: 1016.00

SHEET TITLE:

ELEVATIONS - PROPOSED

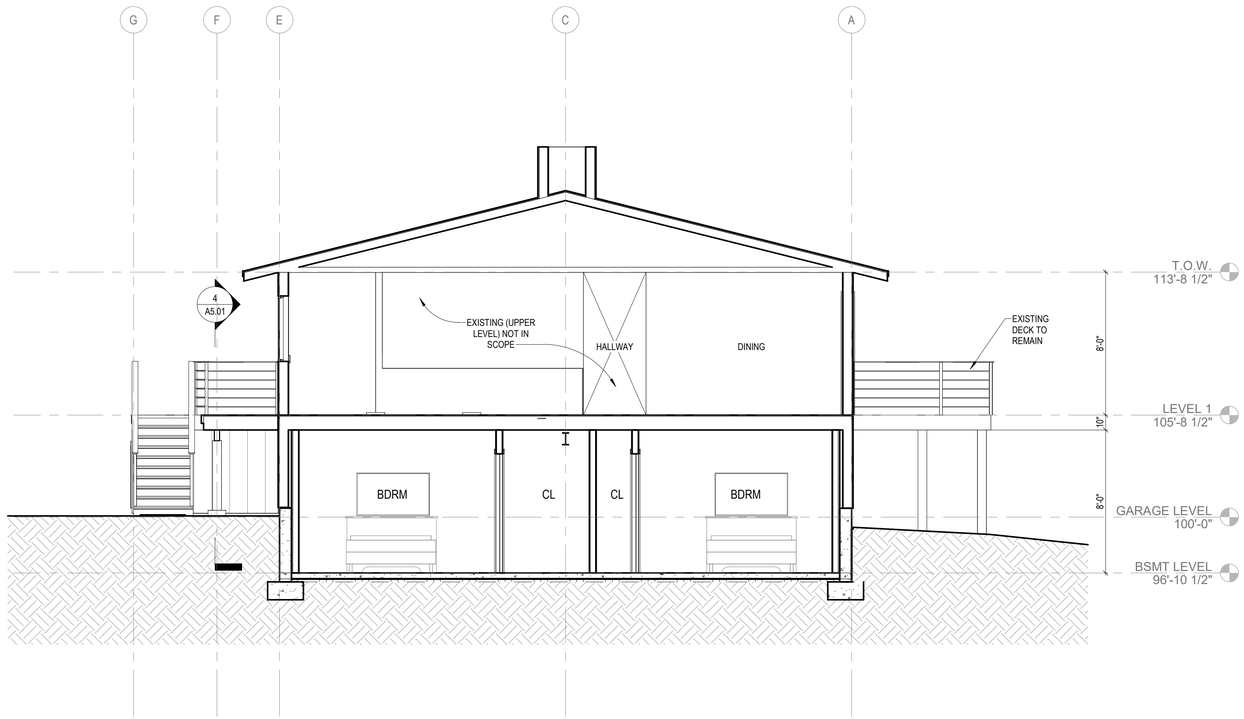
SHEET NO:

A2.04



2 BUILDING SECTION E/W1

SCALE: 1/4" = 1'-0"



1 BUILDING SECTION E/W

SCALE: 1/4" = 1'-0"

5/5/2026 7:13:21 AM

PODIUM
ARCHITECTURE & DESIGN GROUP

PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE

104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY

(303) 638-6230

ISSUE/ REVISION:

PERMIT SET	04 MAY 2026

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE

ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

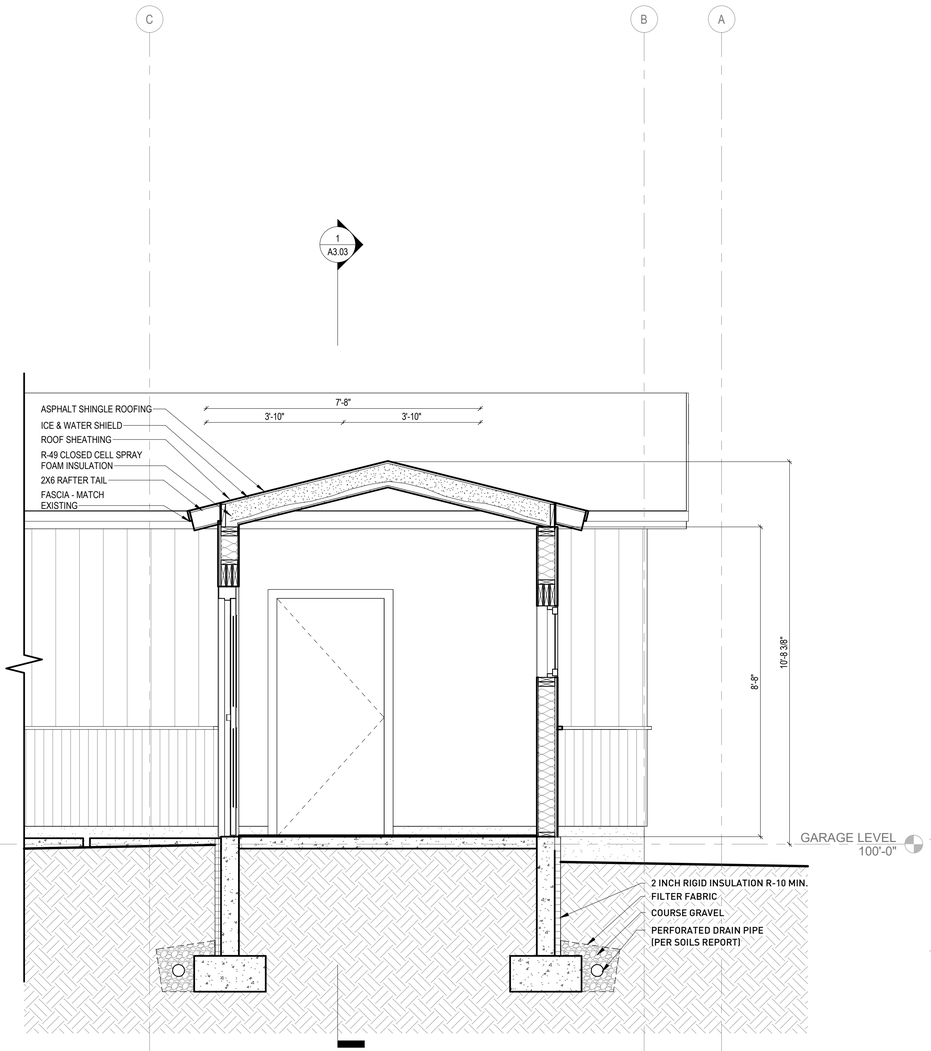
PROJECT NO: 1016.00

SHEET TITLE:

BUILDING SECTIONS - PROPOSED

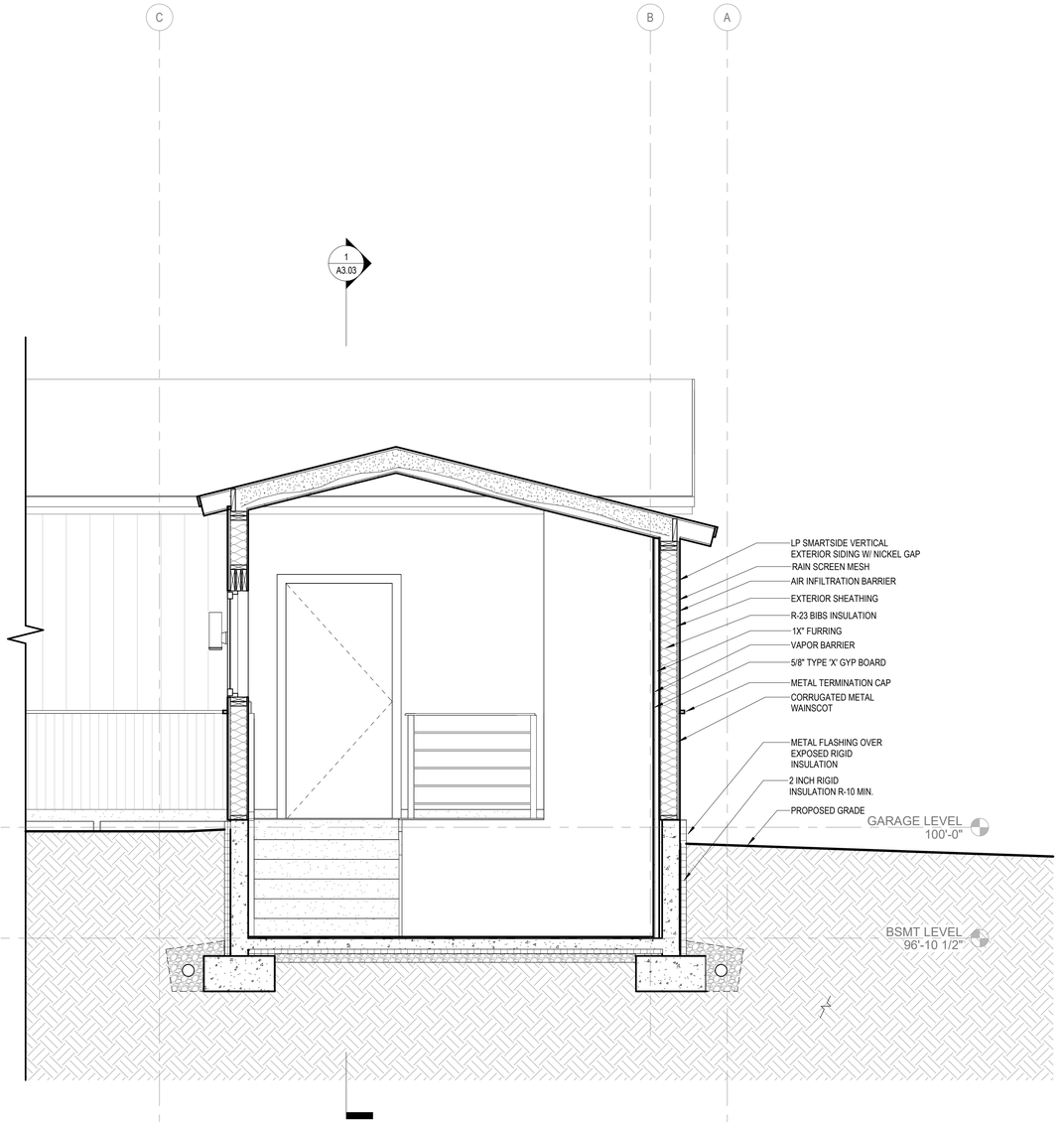
SHEET NO:

A3.01



2 BUILDING SECTION E/W2

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



1 BUILDING SECTION E/W3

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

5/5/2026 7:13:22 AM

PODIUM
ARCHITECTURE & DESIGN GROUP

PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE

104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY

(303) 638-6230

ISSUE/ REVISION:

PERMIT SET	04 MAY 2026

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE

ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

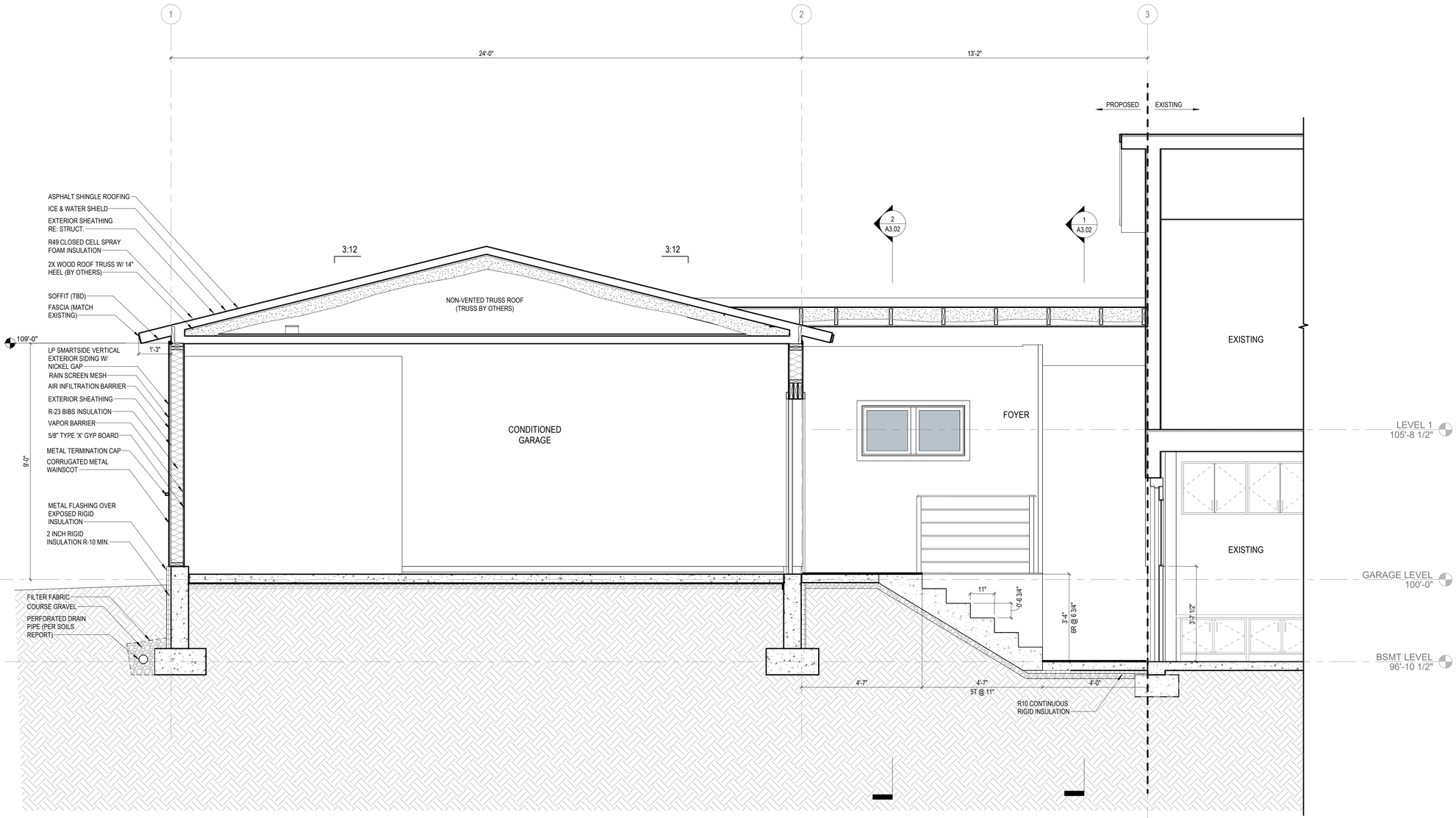
PROJECT NO: 1016.00

SHEET TITLE:

BUILDING SECTIONS - PROPOSED

SHEET NO:

A3.02



1 EAST/WEST BUILDING SECTION

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

5/5/2026 7:13:23 AM

PODIUM
ARCHITECTURE & DESIGN GROUP

PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE

104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY

(303) 638-6230

ISSUE/ REVISION:

PERMIT SET	04 MAY 2026

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE

ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

PROJECT NO: 1016.00

SHEET TITLE:

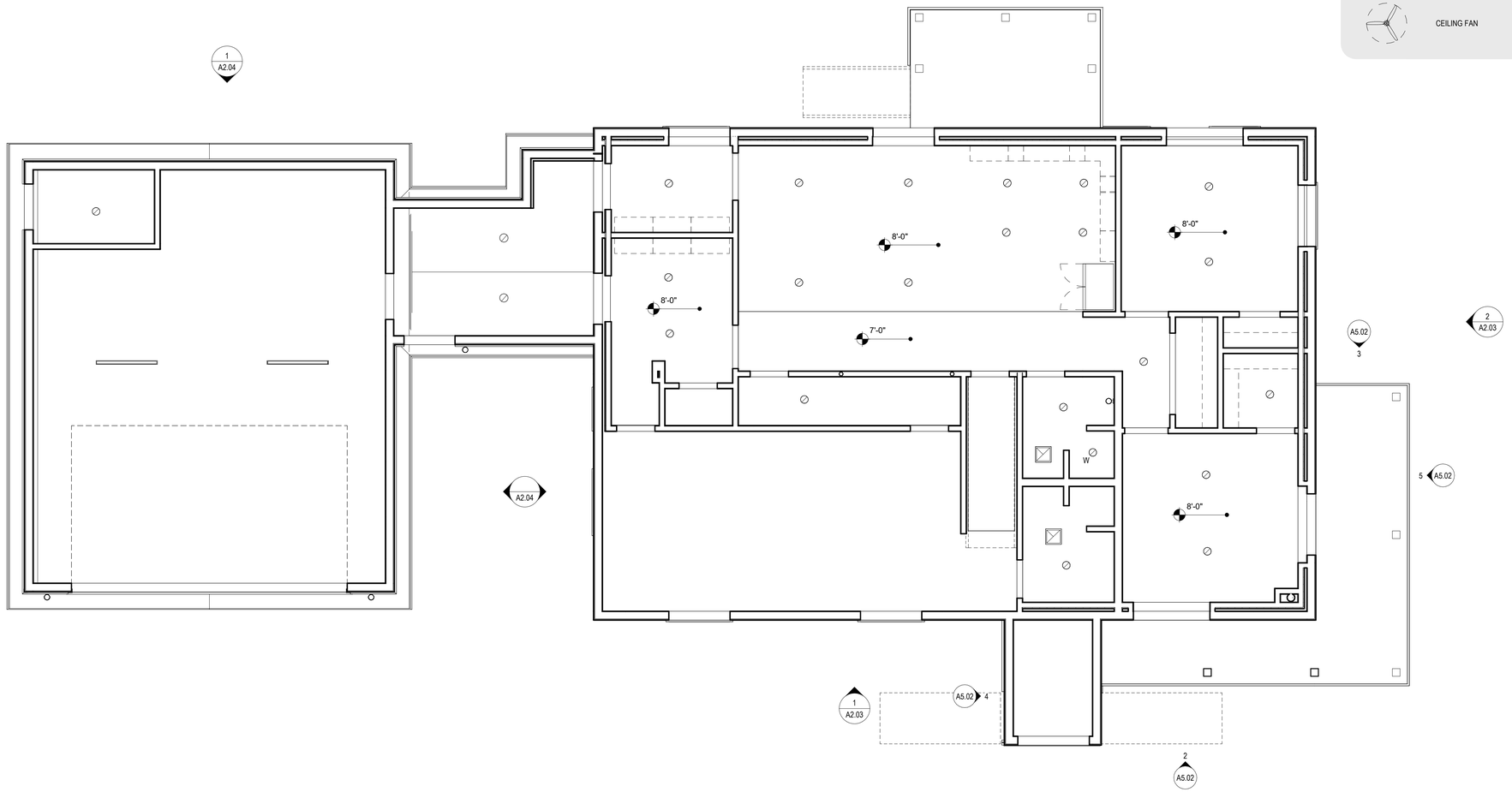
BUILDING SECTIONS - PROPOSED

SHEET NO:

A3.03

RCP LEGEND

B.O. CEILING X'-X"	FINISHED CEILING HEIGHT
ACT-1	CEILING FINISH
	STEPPED CEILING TRANSITION
	SLOPED CEILING TRANSITION
	EXIT SIGN - DIRECTIONAL
SD	SMOKE DETECTOR
FA	FIRE ALARM
HD	HEAT DETECTOR
J	JUNCTION BOX
OC	OCCUPANCY SENSOR
DAS	DISTRIBUTED ANTENNA SYSTEM
	SPEAKER
	PENDANT
	PENDANT - DIRECTIONAL
	SURFACE MOUNTED
	SURFACE MOUNTED - DIRECTIONAL
	RECESSED
	RECESSED - DIRECTIONAL
	RECESSED - WALL WASH
	WALL SCONCE
	FLOURESCENT - PENDANT
	FLOURESCENT - WALL MOUNTED
	FLOURESCENT - SURFACE MOUNTED
	EXHAUST
	RETURN
	SUPPLY
	ACCESS PANEL
	CEILING FAN



1 **BSMT LEVEL - RCP**
SCALE: 1/4" = 1'-0"

5/5/2026 7:13:24 AM

PODIUM
ARCHITECTURE & DESIGN GROUP

PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:

PERMIT SET	04 MAY 2026

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE

ALPINE DRIVE
FRISCO, COLORADO

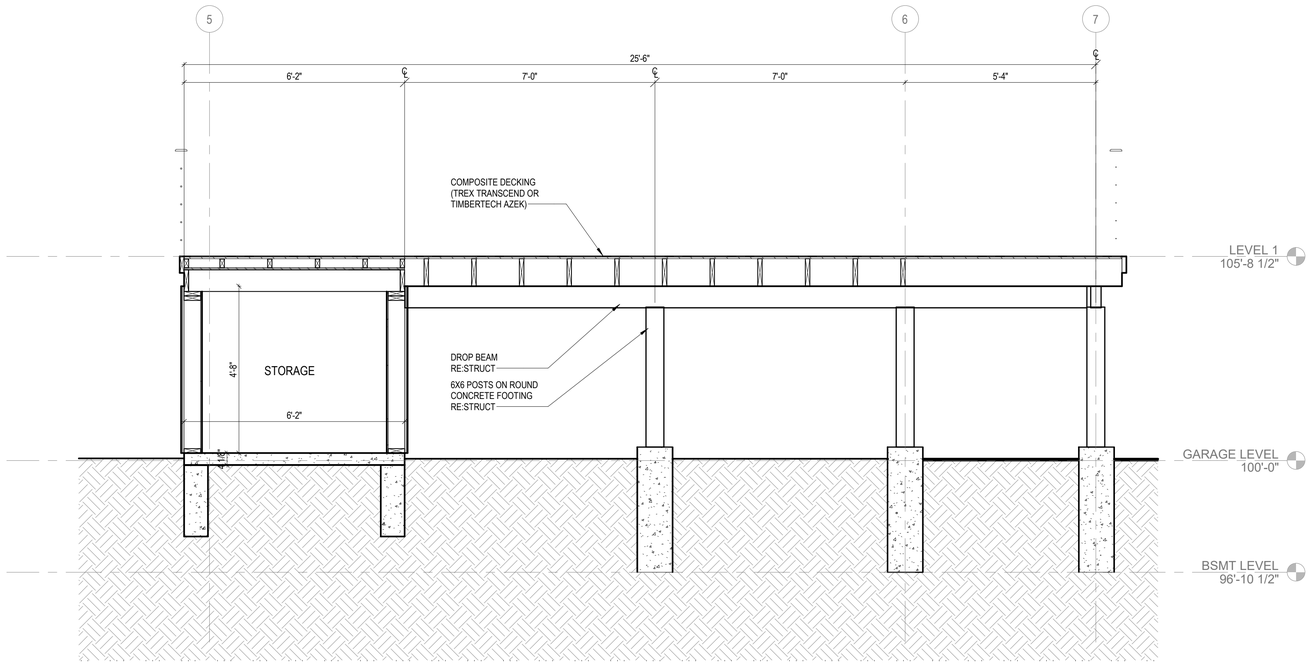
KEY PLAN:

STAMP:

PROJECT NO: 1016.00

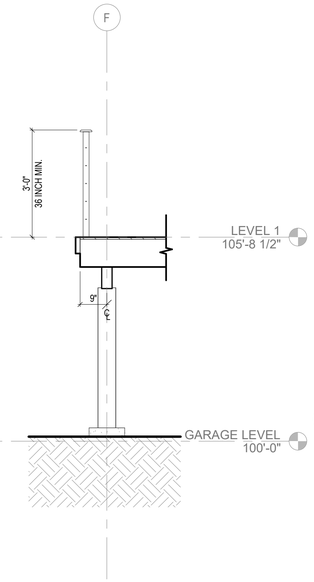
SHEET TITLE:
REFLECTED CEILING PLANS - PROPOSED - BSMT

SHEET NO:
A4.01



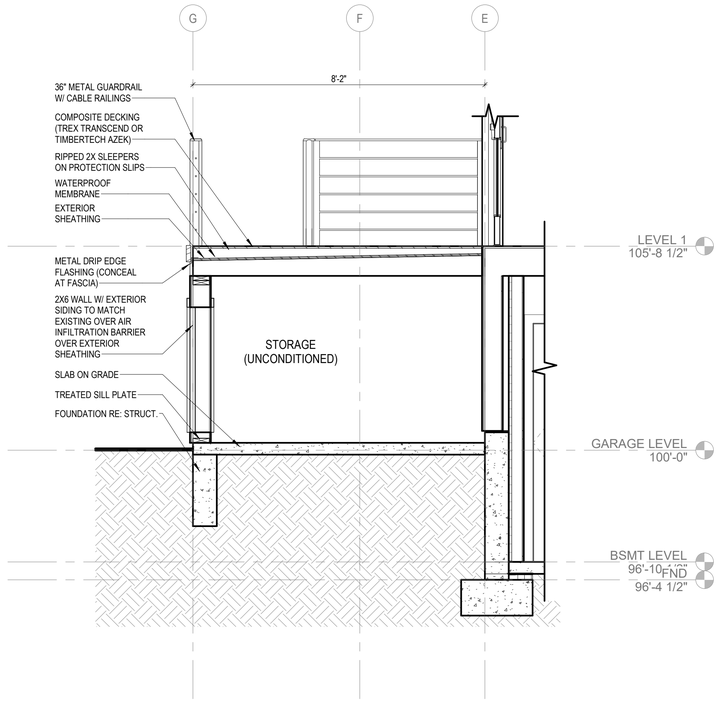
4 ENTRY STORAGE - SECTION

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



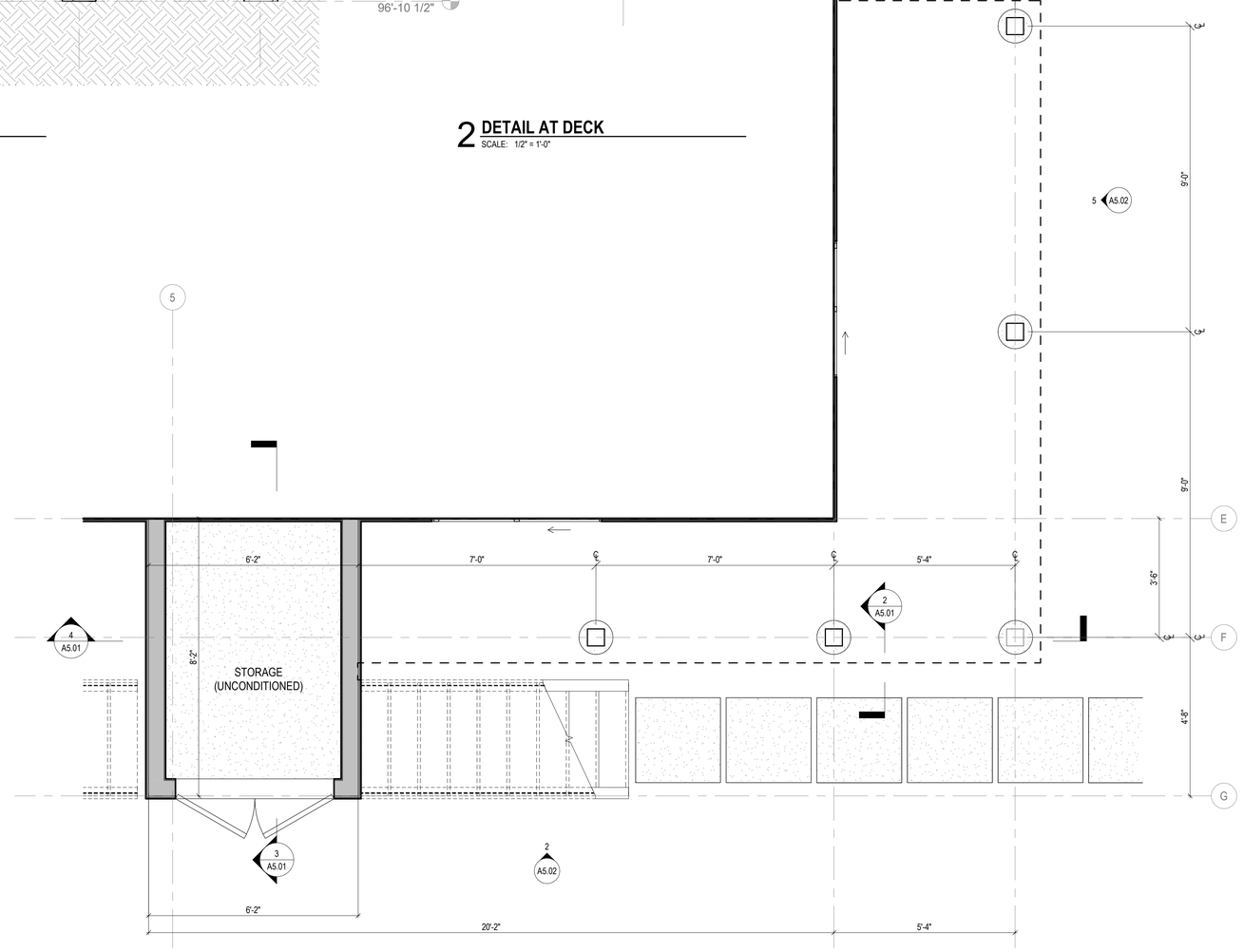
2 DETAIL AT DECK

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



3 DECK STORAGE SECTION 2

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



1 DECK STRUCTURE LEVEL

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

PODIUM
ARCHITECTURE & DESIGN GROUP
PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:

PERMIT SET	04 MAY 2026

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE

ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

PROJECT NO: 1016.00

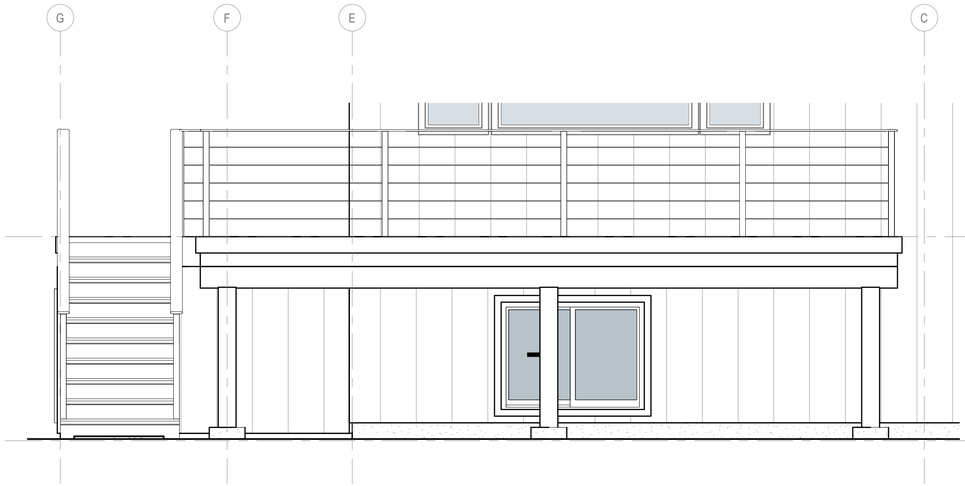
SHEET TITLE:

ENLARGED PLAN - DECK - SECTIONS

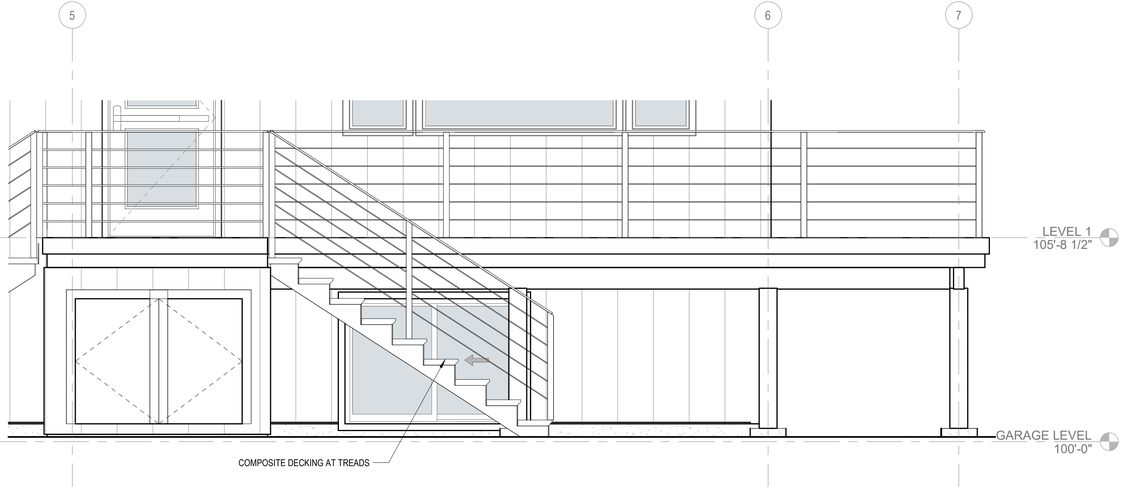
SHEET NO:

A5.01

5/5/2026 7:13:25 AM



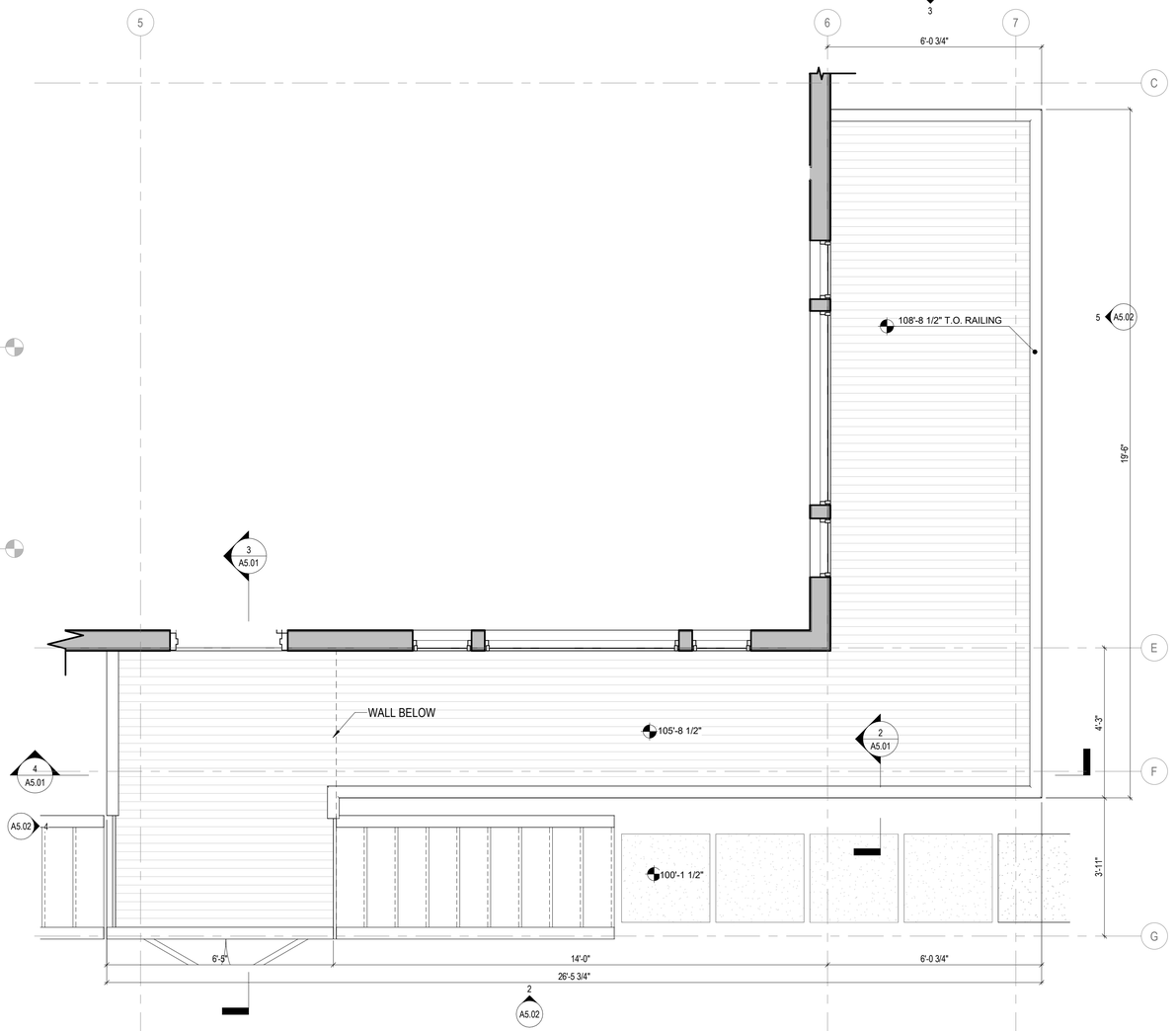
5 RAILING ELEVATION - B
SCALE: 1/2" = 1'-0"



2 RAILING ELEVATION - C
SCALE: 1/2" = 1'-0"

4 RAILING ELEVATION - D
SCALE: 1/2" = 1'-0"

3 RAILING ELEVATION - A
SCALE: 1/2" = 1'-0"



1 ENLARGED PLAN - DECK - PROPOSED
SCALE: 1/2" = 1'-0"

5/5/2026 7:13:25 AM

PODIUM
ARCHITECTURE & DESIGN GROUP

PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:

NARENDRA & CANDICE DE

104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY

(303) 638-6230

ISSUE/ REVISION:

PERMIT SET	04 MAY 2026

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE

ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

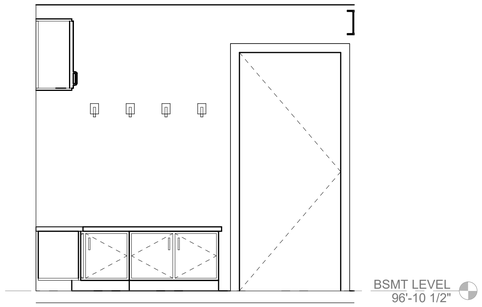
PROJECT NO: 1016.00

SHEET TITLE:

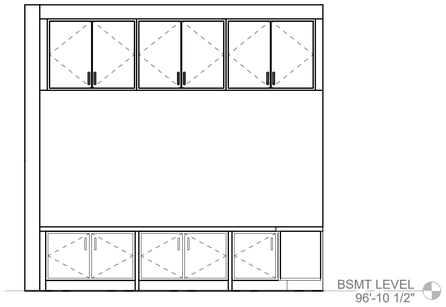
ENLARGED PLAN -
DECK - ELEVATIONS

SHEET NO:

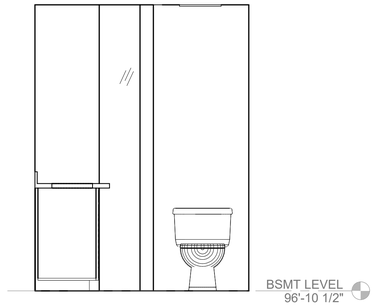
A5.02



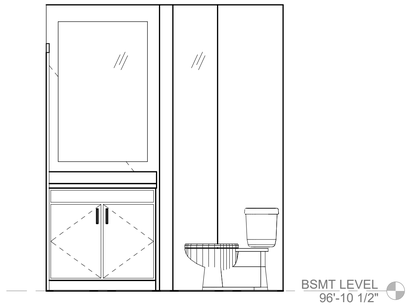
9 **INTERIOR ELEVATION - MUDROOM_2**
SCALE: 1/2" = 1'-0" 1 / A1.02



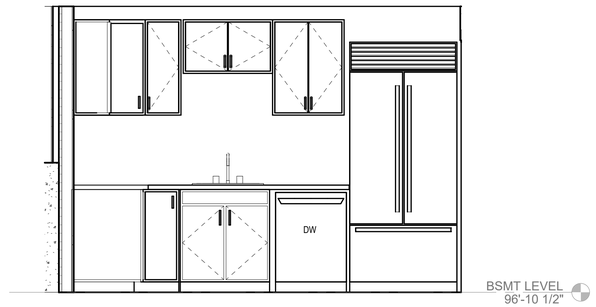
8 **INTERIOR ELEVATION - MUD ROOM_1**
SCALE: 1/2" = 1'-0" 1 / A1.02



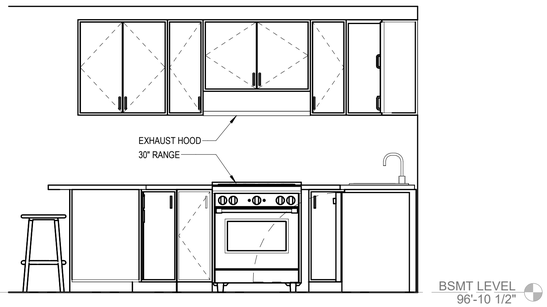
7 **INTERIOR ELEVATION - BATH 01_2**
SCALE: 1/2" = 1'-0" 1 / A1.02



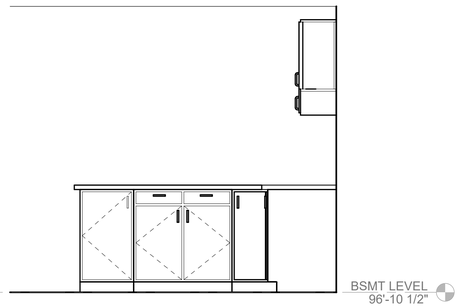
6 **INTERIOR ELEVATION - BATH 01_1**
SCALE: 1/2" = 1'-0" 1 / A1.02



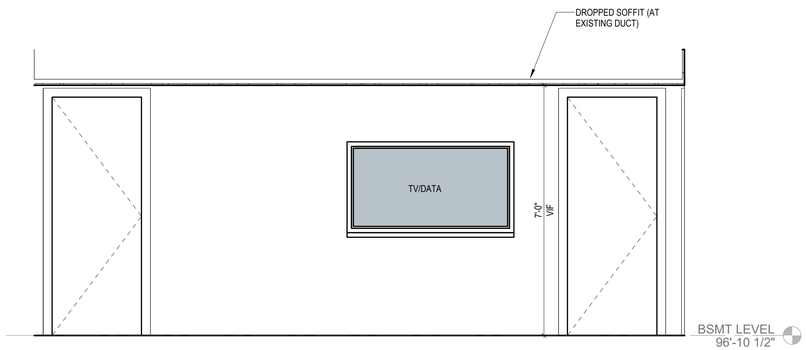
5 **INTERIOR ELEVATION - KITCHEN_3**
SCALE: 1/2" = 1'-0" 1 / A1.02



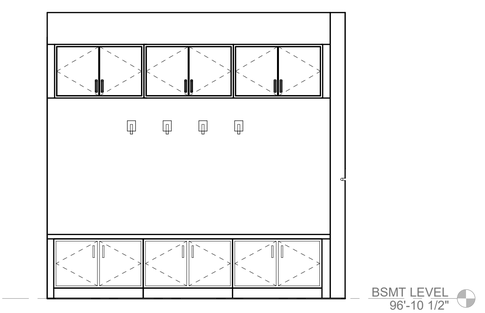
4 **INTERIOR ELEVATION - KITCHEN_2**
SCALE: 1/2" = 1'-0" 1 / A1.02



3 **INTERIOR ELEVATION - KITCHEN_1**
SCALE: 1/2" = 1'-0" 1 / A1.02



2 **INTERIOR ELEVATION - LIVING**
SCALE: 1/2" = 1'-0" 1 / A1.02



1 **INTERIOR ELEVATION - ENTRY**
SCALE: 1/2" = 1'-0" 1 / A1.02

5/5/2026 7:13:27 AM

PODIUM
ARCHITECTURE & DESIGN GROUP
PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:
NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:
PERMIT SET 04 MAY 2026

PROJECT NAME & ADDRESS:
104 ALPINE DRIVE
ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

PROJECT NO: 1016.00

SHEET TITLE:
INTERIOR ELEVATIONS - PROPOSED

SHEET NO:
A6.01

AUTHORITY HAVING JURISDICTION (AHJ): TOWN OF FRISCO
SUBIDIVISION: FRISCO PARK
SITE ELEVATION: 9,080ft

GOVERNING CODE: 018 INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2018 INTERNATIONAL RESIDENTIAL CODE (IRC), & ALL LOCAL AMENDMENTS BY THE AHJ. ANY STRUCTURAL ELEMENTS NOT IN CONFORMANCE W/ THE IEBC & IRC HAVE BEEN DESIGNED PER THE 2018 INTERNATIONAL BUILDING CODE (IBC), PER IRC SECTION R301.1.3.

DESIGN LOADS:

1. BUILDING RISK CATEGORY: II, STANDARD
2. DEAD LOADS:
   - A. FLOOR:
     - a. HARDWOOD/CARPET: 20psf
     - b. DRIP THROUGH DECK: 10psf
   - B. ROOF:
     - a. ASPHALT SHINGLES: 15psf
   - C. WALL:
     - a. EXTERIOR STUD WALL W/ SIDING: 12psf
     - b. INTERIOR BEARING WALL 10psf
3. LIVE LOADS:
   - A. FLOOR:
     - a. RESIDENTIAL: 40psf
     - b. BALCONY/DECK: 40psf
   - B. ROOF
     - a. ROOF LIVE LOAD: 20psf
     - b. SNOW LOAD: 80psf
4. WIND LOADS:
   - A. BASIC/ULTIMATE WIND SPEED (V_{ult}): 115mph
   - B. NOMINAL/SERVICE WIND SPEED (V_{asd}): 90mph
   - C. EXPOSURE CATEGORY: B
   - D. DIRECTIONALITY FACTOR (K_d): 0.85
   - E. TOPOGRAPHIC FACTOR (K_{zt}): 1.0
   - F. INTERNAL PRESSURE COEFF. (GC_{pi}): 0.85
   - G. COMPONENTS & CLADDING ($10ft^2$):
     - a. WALLS:
       - POSITIVE: 16.0psf
       - ZONE 4: -16.0psf
       - ZONE 5: -18.8psf
     - b. ROOF:
       - INTERNAL:
         1. POSITIVE: 16.0psf
         2. ZONE 1 & 2e: -26.0psf
         3. ZONE 2n, 2r, & 3e: -37.9psf
         4. ZONE 3r: -45.0psf
       - OVERHANGS:
         1. POSITIVE: 16.0psf
         2. ZONE 1 & 2e: -29.8psf
         3. ZONE 2n & 2r: -41.7psf
         4. ZONE 3e: -48.8psf
         5. ZONE 3r: -56.0psf
5. SEISMIC LOADS:
   - A. SEISMIC DESIGN CATEGORY: B
   - B. SITE CLASS: D
   - C. SEISMIC IMPORTANCE FACTOR (I_e): 1.0
   - D. ANALYSIS PROCEDURE: EXEMPT PER IRC, TABLE R602.10.1.3

GEOTECHNICAL & FOUNDATION REQUIREMENTS:

1. FOUNDATIONS HAVE BEEN DESIGNED WITHOUT A GEOTECHNICAL ENGINEER'S SOIL INVESTIGATION. THE FOUNDATION INFORMATION PROVIDED BELOW WAS ASSUMED PER IRC TABLE R401.4.1 FOR PURPOSES OF THE FOUNDATION DESIGN AND, IF REQUIRED BY THE AHJ, SHALL BE CONFIRMED BY A GEOTECHNICAL ENGINEER, AT THE OWNER'S EXPENSE, PRIOR TO CONSTRUCTION. IF CONDITIONS VARY FROM THE ASSUMED VALUES NOTED, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO RE-WORK AND MODIFY TO THE FOUNDATION DESIGN, AT THE OWNER'S ADDITIONAL EXPENSE.
2. IF FOUNDATIONS HAVE BEEN INSTALLED PRIOR TO GEOTECHNICAL ENGINEER'S APPROVAL, ANY PLACED CONCRETE SHALL BE REMOVED AT THE GEOTECHNICAL ENGINEER'S DISCRETION PRIOR TO PLACEMENT OF NEW CONCRETE ON APPROVED SOILS.
3. THE GROUND ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE NOT LESS THAN 6 INCHES IN THE FIRST 10 FEET.
4. FOOTINGS:
   - A. ALLOWABLE BEARING CAPACITY: 1,500psf
   - B. MINIMUM FROST PROTECTION: 40"
   - C. FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL SOILS, OR APPROVED & COMPACTED STRUCTURAL FILL. REFER TO THE GEOTECHNICAL ENGINEER FOR BEARING STRATA REQUIREMENTS.
5. EARTH RETAINING STRUCTURES:
   - A. EARTH EQUIVALENT FLUID LATERAL PRESSURE:
     - a. AT-REST PRESSURE: 100psf/ft
   - B. RESISTING PRESSURE:
     - a. PASSIVE PRESSURE: 200psf/ft

CONCRETE:

1. CONCRETE DESIGN IS BASED ON THE AMERICAN CONCRETE INSTITUTE *BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE* (ACI 318) AND CONSTRUCTION SHALL BE IN ACCORDANCE W/ THE *STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE* (ACI 301).
2. CONCRETE MATERIALS & MIXTURE REQUIREMENTS:
   - A. CEMENT TYPE: I/II PORTLAND CEMENT, CONFORMING TO ASTM C150 REQUIREMENTS
   - B. AGGREGATES: 3/4" MAX, CONFORMING TO ASTM C33 REQUIREMENTS
   - C. WATER: MIXING WATER SHALL CONFORM TO ASTM C1602 REQUIREMENTS
   - D. ADMIXTURES SHALL ADHERE TO THE FOLLOWING CODES:
     - a. WATER REDUCTION & SETTING TIME MODIFICATION: ASTM C494
     - b. PRODUCING FLOWING CONCRETE: ASTM C1017
     - c. AIR ENTRAINMENT: ASTM C260
     - d. INHIBITING CHLORIDE-INDUCED CORROSION: ASTM C1582
   - E. SLUMP: 6" MAX, UNLESS MIXTURE IS RESISTANT TO SEGREGATION & IN ACCORDANCE W/ CONCRETE FORM MANUFACTURER'S RECOMMENDATIONS.
   - F. CONCRETE POUR TYPE:

F. CONCRETE POUR TYPE:	F'c	MAX w/cm	AIR CONTENT (±1.5%)
a. FOOTINGS:	3,500psi	N/A	1.5%
b. STEM WALLS, GRADE BEAMS, & FOUNDATION/BASEMENT WALLS:	4,500psi	0.45	6.0%
c. EXTERIOR SLAB-ON-GRADE: (EXCLUDES FLATWORK)	4,500psi	0.45	6.0%

3. MINIMUM CONCRETE COVER (ACI, TABLE 20.6.1.3.1):
   - A. CONCRETE CAST AGAINST & PERMANENTLY IN CONTACT W/ GROUND: 3"
   - B. CONCRETE EXPOSED TO WEATHER OR IN CONTACT W/ GROUND:
     - a. #5 BAR, W31 OR D31 WIRE, AND SMALLER: 1 1/2"
   - C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT W/ GROUND:
     - a. SLABS, JOISTS, & WALLS:
       - #11 BARS & SMALLER: 3/4"
     - b. BEAMS, COLUMNS, PEDESTALS, & TENSION TIES:
       - PRIMARY REINFORCEMENT, STIRRUPS, TIES, SPIRALS, & HOOPS: 1 1/2"
4. REINFORCING STEEL:
   - A.

REBAR MARK CONVERSION

BAR SIZE DESIGNATION	BAR DIAMETER, Ø
#3	3/8"
#4	1/2"
#5	5/8"

   - B. ALL DEFORMED REINFORCEMENT SHALL BE DOMESTIC NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60 REQUIREMENTS, INCLUDING STIRRUPS & TIES, WITH EXCEPTION TO WELDED REINFORCING STEEL.
   - C. WELDED REINFORCEMENT STEEL SHALL CONFORM TO ASTM A706 REQUIREMENTS.
   - D. REINFORCING STEEL SHALL BE FABRICATED & PLACED TO CONFORM TO ACI 315 REQUIREMENTS.
   - E. REINFORCEMENT SHALL BE KEPT CLEAN OF DEBRIS, DIRT, OIL, ETC.
5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 REQUIREMENTS.
6. COLD WEATHER DURING PLACEMENT SHALL CONFORM TO ACI 306 REQUIREMENTS.
7. HOT WEATHER DURING PLACEMENT SHALL CONFORM TO ACI 301 & 305 REQUIREMENTS.
8. DEBRIS, STANDING WATER, & ICE SHALL BE REMOVED FROM FORMWORK & SPACES TO BE OCCUPIED BY CONCRETE PRIOR TO CONCRETE PLACEMENT.
9. OIL CONCRETE FORMS PRIOR TO PLACEMENT.
10. PROPERLY SECURE ALL REINFORCEMENT, HOLDOWNS, ANCHORS, ANCHOR BOLTS, AND CAST-IN-PLACE ELEMENTS PRIOR TO & DURING CONCRETE PLACEMENT.
11. MANUFACTURER PROVIDED SETTING TEMPLATES FOR ANCHORS AND CAST-IN-PLACE ELEMENTS SHALL BE USED WHEN AVAILABLE.
12. COLD JOINTS: FORM 2x4 SHEAR KEYS AT ALL CONSTRUCTION JOINTS AND AS SHOWN ON PLAN. HORIZONTAL REINFORCEMENT TO EXTEND MINIMUM 1 LAP LENGTH PAST JOINT.
13. 3/4" CHAMFER ON ALL EXPOSED CORNERS OF CONCRETE WALLS AND COLUMNS, UNLESS NOTED OTHERWISE BY ARCHITECT OR STRUCTURAL ENGINEER.
14. EVALUATION & ACCEPTANCE:
    - A. CYLINDER STRENGTH TESTS SHALL BE PERFORMED PER ACI 214R TO ENSURE MINIMUM STRENGTH HAS BEEN ACHIEVED.
    - B. SAMPLES SHALL BE TAKEN (1) AT LEAST ONCE PER DAY; (2) AT LEAST ONCE FOR EACH $150YD^3$ OF CONCRETE; (3) AT LEAST ONCE FOR EACH $5{,}000FT^2$ OF SURFACE AREA FOR SLABS OR WALLS.
15. MANUFACTURED CONNECTIONS:
    - A. ALL INSTALLED ANCHORS SHALL HAVE CURRENT INTERNATIONAL CODE COUNCIL EVALUATION SERVICE (ICC-ES) REPORTS & SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
    - B. ANCHORS SHALL BE INSTALLED WITH THE MANUFACTURER/TYPE SPECIFIED ON PLAN UNLESS SUBSTITUTIONS HAVE BEEN REVIEWED & APPROVED BY HIGH RIDGE. REQUESTS FOR SUBSTITUTION SHALL BE SUBMITTED VIA WRITING PRIOR TO INSTALLATION.
    - C. EPOXY ANCHORS SHALL BE INSTALLED USING ALL MANUFACTURER'S RECOMMENDATIONS, INCLUDING BUT NOT LIMITED TO BRUSHING/BLOWING OUT OF HOLES, USING THEIR PROPRIETARY EPOXY MIXING TOOL, OR USING THE CORRECT TYPE OF HAMMER/CORING DRILL.

WOOD & TIMBER:

1. WOOD DESIGN IS BASED ON THE AMERICAN WOOD COUNCIL *NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2018 EDITION* (NDS 2018) AND *NDS SUPPLEMENT, 2018 EDITION*.
2. FRAMING MINIMUM SPECIES & GRADES:
   - A. 2x: DOUG-FIR, #2
   - B. 4x4 & 6x6 POSTS: DOUG-FIR, #2
   - C. EXTERIOR DECK MEMBERS: PRESSURE TREATED DOUG-FIR #2 OR SOUTHERN PINE #2
   - D. TIMBERS 8x8 & LARGER: DOUG-FIR, #1
3. 2x MEMBERS SHALL BE SURFACED ON FOUR SIDES (S4S).
4. ALL MEMBERS SHALL BE SURFACE DRY OR KILN DRIED TO A MOISTURE CONTENT OF 19% OR LESS AT TIME OF INSTALLATION.
5. WOOD IN CONTACT W/ CONCRETE OR EXPOSED TO MOISTURE SHALL BE PRESSURE TREATED (P.T.) DOUG-FIR OR SOUTHERN YELLOW PINE.
6. PRESERVATIVE TREATED WOOD SHALL BE TREATED TO COMPLY WITH AWPA U1 & AWPA M4 REQUIREMENTS.
7. FRAMING SHALL COMPLY WITH IRC SECTIONS R502, R602, & R802.
8. WALL STUDS TALLER THAN 12'-0" AND NOT COMPLYING WITH IRC SECTION R602 HAVE BEEN ANALYZED AND JUSTIFIED BY ENGINEER'S ANALYSIS.
9. FASTENERS :
   - A. FASTENING SHALL COMPLY WITH IRC TABLE R602.3(1).
   - B. FASTENERS FOR USE WITH PRESERVATIVE OR FIRE TREATED WOOD SHALL COMPLY WITH IRC SECTION R317.3.
   - C. BOLT HOLES SHALL BE 1/32"-1/16" GREATER THAN THE BOLT DIAMETER.
   - D. A STANDARD CUT WASHER OR METAL PLATE SHALL BE PROVIDED BETWEEN THE WOOD AND THE BOLT HEAD/NUT.
   - E. LEAD HOLES FOR LAG SCREWS SHALL BE 40%-70% OF THE SHANK DIAMETER AT THE THREADED SECTION AND LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION PER NDS SECTION 12.1.4.2.
   - F. LEAD HOLES FOR WOOD SCREWS LOADED LATERALLY SHALL BY ABOUT 7/8 * DIAMETER OF THE SCREW AT THE ROOT OF THE THREAD PER NDS SECTION 12.1.5.3.
10. HARDWARE:
    - A. FRAMING HARDWARE INDICATED ON PLAN IS MANUFACTURED BY SIMPSON STRONG TIE. CHANGES TO SUBSTITUTE ANOTHER MANUFACTURER'S HARDWARE IS ACCEPTABLE, GIVEN THERE IS A DIRECT 1-TO-1 REPLACEMENT AND HARDWARE IS INSTALLED USING THE OTHER MANUFACTURER'S INSTALLATION RECOMMENDATIONS. IF THERE IS NOT A DIRECT 1-TO-1 REPLACEMENT, CONTACT HIGH RIDGE FOR ALLOWABLE SUBSTITUTIONS & FASTENING REQUIREMENTS.
    - B. FRAMING HARDWARE INDICATED ON PLAN SHALL BE INSTALLED USING THE MANUFACTURER RECOMMENDED FASTENING OR PER THE SCHEDULE.
    - C. ANY SUBSTITUTIONS TO FASTENER OR HARDWARE SIZE SHALL BE SUBMITTED IN WRITING PRIOR TO INSTALLATION.
    - D. NOTE: NOT ALL HANGERS ARE READILY AVAILABLE AND MAY REQUIRE A SPECIAL ORDER FROM THE MANUFACTURER. CONTRACTOR SHALL ALLOW FOR LEAD TIME TO SOURCE THESE HANGERS AS REQUIRED.
11. CONNECTOR BOLTS & LAG SCREWS SHALL CONFORM TO ANSI/ASME B18.2.1 & ASTM SAE J429 GRADE 1.
12. NAILS & SPIKES SHALL CONFORM TO ASTM F1667.
13. WOOD SCREWS SHALL CONFORM TO ANSI/SME B18.6.1.

PLANT FABRICATED WOOD FRAMING:

1. MICROLLAM LAMINATED VENEER LUMBER (LVL):					
A.	ALL	E = 2.0ksi	F_b = 2,600psi	F_v = 285psi	$F_{c,\perp}$ = 750psi
2. TIMBERSTRAND LAMINATED STRAND LUMBER (LSL):					
A.	BEAM/COLUMN	E = 1.3ksi	F_b = 1,700psi	F_v = 425psi	$F_{c,\perp}$ = 710psi
B.	PLANK	E = 1.3ksi	F_b = 1,900psi	F_v = 150 psi	$F_{c,\perp}$ = 670psi
C.	BEAM	E = 1.55ksi	F_b = 2,325psi	F_v = 310psi	$F_{c,\perp}$ = 900psi
3. PARALLAM PARALLEL STRAND LUMBER (PSL):					
A.	COLUMN	E = 1.8ksi	F_b = 2,400psi	F_v = 190psi	$F_{c,\perp}$ = 545psi
B.	BEAM	E = 2.0ksi	F_b = 2,900psi	F_v = 290psi	$F_{c,\perp}$ = 625psi

4. COMPLY WITH MANUFACTURER INSTRUCTIONS FOR PROTECTION FROM WEATHER PRIOR TO INSTALLATION.

WOOD FRAMING NOTES:

1. CONTINUOUS LOAD PATH:
   - A. COLUMNS SHALL HAVE A CONTINUOUS LOAD PATH TO THE FOUNDATION. PROVIDE COLUMNS AT LEVELS BELOW MATCHING COLUMN SIZE FROM ABOVE, UNLESS NOTED OTHERWISE.
   - B. PROVIDE SQUASH BLOCKS TO MATCH COLUMN SIZE FROM ABOVE IN FLOOR CAVITY BETWEEN COLUMN ABOVE/BELOW.
2. ENSURE TIGHT BEARING FOR ALL MEMBERS PRIOR TO ANY FINISHING WORK OR COVERING OF THE MEMBERS. PROVIDE WOOD/STEEL SHIMS AS REQUIRED FOR TIGHT BEARING.
3. WALL STUDS AND COLUMNS SHALL BE CONTINUOUS FROM BOTTOM PLATE TO DOUBLE TOP PLATES. SPLICES SHALL NOT BE PERMITTED WITHOUT ENGINEER APPROVAL.
4. PROVIDE BLOCKING OR RIM JOISTS AT ALL JOIST SUPPORTS AND ENDS.
5. ALL BEAMS, JOISTS, AND RAFTERS SHALL BE BRACED AGAINST ROTATION AT LOCATIONS OF BEARING.
6. THE LAMINATIONS IN BUILT UP COLUMNS SHALL BE FASTENED TO EACH OTHER WITH NAILS PER NDS SECTION 15.3.3 OR BOLTS PER NDS SECTION 15.3.4.
7. ALL ROOF MEMBERS SHALL BE ANCHORED TO SUPPORTS WITH METAL FRAMING ANCHORS.
8. KING STUDS SHALL BE PROVIDED EACH SIDE OF ALL OPENINGS WITH DROPPED HEADERS. NUMBER OF STUDS ON EACH SIDE SHALL EQUAL THE NUMBER OF INTERRUPTED STUDS / 2, UNLESS NOTED OTHERWISE.

WOOD SHEATHING:

1. PLYWOOD AND ORIENTED STRAND BOARD (OSB) SHALL BE APA RATED WITH STAMP, INCLUDING APA TRADEMARK & PANEL SPAN RATING.
2. SEE PLAN NOTES FOR MINIMUM FLOOR, ROOF, AND WALL SHEATHING GRADES & THICKNESSES.
3. BLOCK AND SHEATH ALL EXTERIOR WALLS AND REQUIRED INTERIOR WALLS AS SHOWN ON PLAN.
4. AT OPENINGS, APPLY SHEATHING IN "L" & "T" SHAPES TO MINIMIZE THE RISK OF CRACKING AT THE CORNERS.
5. SHEATHING SHALL BE APPLIED WITH THE LONG DIRECTION ACROSS THE STUDS.
6. WALL SHEATHING SHALL BE CONTINUOUS FROM BOTTOM TO TOP PLATES.
7. MACHINE APPLIED NAILING (I.E. GUN NAILING): THE USE OF MACHINE APPLIED NAILING IS SUBJECT TO SATISFACTORY JOBSITE DEMONSTRATION AND THE APPROVAL BY THE PROJECT STRUCTURAL ENGINEER. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
8. COMPLY WITH MANUFACTURER INSTRUCTIONS FOR PROTECTION FROM WEATHER PRIOR TO INSTALLATION.

DEFERRED SUBMITTALS:

1. PORTIONS OF THE STRUCTURE HAVE ELEMENTS OF PROPRIETARY DESIGN AND FABRICATION, WHICH SHALL BE SUBMITTED BY THE SUPPLIER FOR APPROVAL AFTER AWARD OF CONTRACT.
2. THESE ITEMS SHALL CONFORM TO THE LOAD, CAPACITY, SIZE, GEOMETRY, CONNECTION, AND SUPPORT CRITERIA NOTED ON THE STRUCTURAL DRAWINGS.
3. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN ENGINEER REGISTERED IN THE STATE OF COLORADO. FINAL SHOP DRAWING SUBMITTALS SHALL BE STAMPED AND SIGNED.
4. FURNISH DEFERRED SUBMITTALS FOR:
   - A. SUPPLIER ENGINEERED OPEN-WEB WOOD TRUSSES
5. SUBMITTALS WILL BE REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD FOR COMPLIANCE WITH THE SPECIFIED DESIGN REQUIREMENTS, STAMPED AS “REVIEWED,” AND FORWARDED TO THE LOCAL BUILDING AUTHORITY FOR REVIEW AS REQUIRED.
6. FINAL ISSUE OF THE BUILDING PERMIT MAY, AT THE APPROVAL AUTHORITY'S OPTION, BE CONTINGENT ON ITS APPROVAL OF THE DEFERRED SUBMITTAL DOCUMENTS.
7. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN CALCULATIONS AND DRAWINGS HAVE BEEN REVIEWED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND/OR LOCAL BUILDING AUTHORITY AS REQUIRED.

CONSTRUCTION ADMINISTRATION:

1. THE CONTRACTOR SHALL SUBMIT, IN WRITING, ANY REQUESTS TO MODIFY THE STRUCTURAL DRAWINGS.
2. SHOP DRAWINGS:
   - A. AN ELECTRONIC COPY OR (2) PRINTS OF SHOP & ERECTION DRAWINGS SHALL BE PROVIDED TO HIGH RIDGE STRUCTURAL PRIOR TO FABRICATION FOR:
     - a. DEFERRED SUBMITTALS NOTED ABOVE
     - b. REINFORCING STEEL
   - B. SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION FOR STRUCTURAL ENGINEER'S REVIEW. SHOP DRAWING SUBMITTALS NOT CHECKED BY GENERAL CONTRACTOR PRIOR TO THE SUBMISSION WILL BE RETURNED WITHOUT REVIEW.
   - C. SHOP DRAWINGS SHALL BE SUBMITTED IN A TIMELY MANNER TO ALLOW 10 WORKING DAYS, EXCLUDING HOLIDAYS AND WEEKENDS, FOR REVIEW BY THE STRUCTURAL ENGINEER.
   - D. REVISIONS TO THE STRUCTURAL PLANS INCLUDED IN SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN WRITING" UNLESS CLEARLY MARKED. IN ANY EVENT, CHANGES MADE BY MEANS OF THE SHOP DRAWING SUBMITTAL PROCESS BECOME THE RESPONSIBILITY OF THE PARTY WHO SUBMITTED THE SHOP DRAWINGS AND SHALL COMPENSATE HIGH RIDGE STRUCTURAL FOR TIME AND EXPENSE INCURRED FOR MAKING THE DESIRED MODIFICATIONS.
3. REQUESTS FOR INFORMATION (RFI'S):
   - A. RFI'S SHALL BE SUBMITTED IN A TIMELY MANNER TO ALLOW FOR 5 WORKING DAYS, EXCLUDING HOLIDAYS AND WEEKENDS, FOR REVIEW BY THE STRUCTURAL ENGINEER.
4. FIELD OBSERVATIONS:
   - A. CONTRACTOR SHALL PROVIDE 5 DAYS OF ADVANCE NOTICE FOR ALL FIELD OBSERVATIONS.

STRUCTURAL ERECTION & BRACING REQUIREMENTS:

1. THE STRUCTURAL DRAWINGS ILLUSTRATE THE COMPLETED STRUCTURE WITH ELEMENTS IN THEIR FINAL POSITIONS; PROPERLY SUPPORTED, CONNECTED, AND BRACED.
2. THE STRUCTURAL DRAWINGS ILLUSTRATE TYPICAL AND REPRESENTATIVE DETAILS TO ASSIST THE GENERAL CONTRACTOR. DETAIL SHOWN APPLY AT ALL SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
3. ALTHOUGH DUE DILIGENCE HAS BEEN APPLIED TO MAKE THE DRAWINGS AS COMPLETE AS POSSIBLE, NOT EVERY DETAIL IS ILLUSTRATED, NOR IS EVERY CONDITION ADDRESSED.
4. ALL PROPRIETARY CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.
5. ALL WORK SHALL BE ACCOMPLISHED IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE APPLICABLE CODES AND LOCAL ORDINANCES.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL WORK, INCLUDING LAYOUT AND DIMENSION VERIFICATION, MATERIALS COORDINATION, SHOP DRAWING REVIEW, AND THE WORK OF SUBCONTRACTORS. ANY DISCREPANCIES OR OMISSIONS DISCOVERED IN THE COURSE OF THE WORK SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR RESOLUTION. CONTINUATION OF WORK WITHOUT NOTIFICATION OF DISCREPANCIES RELIEVES THE ARCHITECT AND STRUCTURAL ENGINEER FROM ALL CONSEQUENCES.
7. UNLESS SPECIFICALLY INDICATED, THE STRUCTURAL DRAWINGS DO NOT DESCRIBE MEANS, METHODS, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION. THE CONTRACTOR, IN THE PROPER SEQUENCE, SHALL PERFORM OR SUPERVISE ALL WORK NECESSARY TO ACHIEVE THE FINAL COMPLETED STRUCTURE, AND TO PROTECT THE STRUCTURE, WORKMEN, AND OTHERS DURING CONSTRUCTION. SUCH WORK SHALL INCLUDE, BUT NOT BE LIMITED TO TEMPORARY BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR EXCAVATION, FORMWORK, SCAFFOLDING, SAFETY DEVICES AND PROGRAMS OF ALL KINDS, SUPPORT AND BRACING FOR CRANES AND OTHER ERECTION EQUIPMENT.
8. DO NOT BACKFILL AGAINST BASEMENT OR RETAINING WALLS UNTIL SUPPORTING SLABS AND FLOOR FRAMING ARE INSTALLED AND SECURELY ANCHORED, UNLESS ADEQUATE TEMPORARY BRACING IS INSTALLED.
9. STRUCTURAL STEEL FRAMES ARE "NON-SELF SUPPORTING" PER AISC CODE OF STANDARD PRACTICE.
10. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL ALL FLOORS, WALLS, ROOFS, AND ANY OTHER SUPPORTING ELEMENTS ARE IN PLACE.
11. THE ARCHITECT AND STRUCTURAL ENGINEER BEAR NO RESPONSIBILITY FOR THE ABOVE ITEMS, AND OBSERVATION VISITS TO THE SITE DO NOT IN ANY WAY INCLUDE INSPECTIONS OF THESE ITEMS. WHERE PERIODIC OR CONTINUOUS INSPECTION IS REQUIRED BY THESE DOCUMENTS, GOVERNING BUILDING CODE, LOCAL AMENDMENTS, OR LOCAL ORDINANCE, THE OWNER SHALL EMPLOY AN INDEPENDENT INSPECTOR CERTIFIED IN THE PARTICULAR AREA OF CONCERN. THE INSPECTOR SHALL BE RESPONSIBLE TO, AND REPORT TO THE THE ARCHITECT AND BUILDING DEPARTMENT.
12. THESE PLANS HAVE BEEN ENGINEERED FOR CONSTRUCTION AT ONE SPECIFIC BUILDING SITE. BUILDER ASSUMES ALL RESPONSIBILITY FOR USE OF THESE PLANS AT ANY OTHER BUILDING SITE. PLANS SHALL NOT BE USED FOR CONSTRUCTION AT ANY OTHER BUILDING SITE WITHOUT SPECIFIC REVIEW BY THE ENGINEER.

PRECAUTIONARY NOTES ON STRUCTURAL BEHAVIOR:

1. INTERIOR ARCHITECTURAL FINISH DETAILING MUST ACCOMMODATE THE RELATIVE DIFFERENTIAL MOVEMENTS OF SUPPORTING STRUCTURAL ELEMENTS.
2. WHERE THE ROOF FRAMING ELEMENT SPANS ARE LONG, APPLIED LOADING WILL NATURALLY CAUSE SUBSTANTIAL DEFLECTION. INTERIOR ELEMENTS HUNG FROM THE ROOF STRUCTURE WILL DEFLECT WITH THE ROOF.
3. THE FLOOR IS A FLOATING CONCRETE SLAB ON GRADE AND MAY EXPERIENCE MOVEMENTS INDEPENDENT OF THE STRUCTURAL FOUNDATIONS. INTERIOR ELEMENTS SUPPORTED ON THE SLAB ON GRADE FLOOR WILL MOVE WITH THE FLOOR. INTERIOR ELEMENTS SUPPORTED ON FOUNDATIONS AND COLUMNS WILL NOT EXPERIENCE SIMILAR OR MEASURABLE MOVEMENTS.
4. EXTERIOR/PERIMETER WALL ASSEMBLIES HUNG FROM THE EDGE OF THE BUILDING STRUCTURE WILL BE DIRECTLY AFFECTED (TO SOME DEGREE) BY CHANGES IN EXTERNAL TEMPERATURE AND FLOOR DEFLECTION.
5. EXTERIOR/PERIMETER AND INTERIOR ARCHITECTURAL FINISH DETAILS SHOULD ALLOW FOR RELATIVE MOVEMENTS BETWEEN ELEMENTS WITH DIFFERENT SUPPORT CONDITIONS.
6. THE FOUNDATION DESIGN SHOWN ASSUMES THAT THE OWNER/BUILDER IS AWARE OF THE PRESENCE OF EXPANSIVE SOILS, AND THAT HE HAS READ THE PREVIOUSLY REFERENCED SOILS REPORT. USE OF THESE PLANS IS INDICATION THAT THE OWNER/BUILDER ACCEPTS THE RISKS ASSOCIATED WITH BUILDING ON THIS SITE, ESPECIALLY THOSE RELATED TO SLAB ON GRADE CONSTRUCTION IN FINISHED AREAS. HIGH RIDGE STRUCTURAL WILL NOT BE HELD LIABLE FOR DAMAGES CAUSED BY SLAB MOVEMENT.

FIELD VERIFICATION OF EXISTING CONDITIONS:

1. THE GENERAL CONTRACTOR SHALL THOROUGHLY INSPECT AND SURVEY THE EXISTING STRUCTURE TO VERIFY CONDITIONS THAT AFFECT THE WORK SHOWN ON THE DRAWINGS.
2. THE GENERAL CONTRACTOR SHALL REPORT ANY VARIATIONS OR DISCREPANCIES TO THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING.

LETTERS OF CONSTRUCTION COMPLIANCE:

1. THE GENERAL CONTRACTOR SHALL DETERMINE FROM THE AHJ, AT THE TIME THE BUILDING PERMIT IS OBTAINED, WHETHER ANY LETTERS OF CONSTRUCTION COMPLIANCE WILL BE REQUESTED FROM THE STRUCTURAL ENGINEER.
2. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ALL SUCH REQUIREMENTS IN WRITING PRIOR TO THE START OF CONSTRUCTION.
3. FIVE DAY ADVANCE NOTICE SHALL BE GIVEN WHEN REQUESTING SITE VISITS NECESSARY AS THE BASIS FOR THE COMPLIANCE LETTER.
4. THE GENERAL CONTRACTOR SHALL PROVIDE COPIES OF ALL THIRD-PARTY TESTING AND INSPECTION REPORTS TO THE ARCHITECT AND STRUCTURAL ENGINEER A MINIMUM OF ONE WEEK PRIOR TO THE DATE THAT THE COMPLIANCE LETTER IS NEEDED.

INSPECTIONS:

1. INSPECTIONS AND TESTING SHALL BE PERFORMED BY A QUALIFIED INSPECTOR IN ACCORDANCE WITH IRC SECTION R109.
2. THE INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING INSPECTION.
3. EXCEPT AS NOTED, THE INSPECTIONS OUTLINED IN THE IRC ARE IN ADDITION TO, AND BEYOND THE SCOPE OF, PERIODIC STRUCTURAL OBSERVATIONS PROVIDED BY HIGH RIDGE.

ABBREVIATION LIST

A.B.	ANCHOR BOLT
A.V.	ARCHITECT VERIFY
ADD'L	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ARCH	ARCHITECT
AVG	AVERAGE
B.C.	BOTTOM OF CONCRETE
B.P.	BASE PLATE, BEAM POCKET
BLKG	BLOCKING
BOT.	BOTTOM
BRG	BEARING
BTWN	BETWEEN
(C), CONT	CONTINUOUS
C.F.	COUNTERFORT
C.I.P.	CAST-IN-PLACE
C.J.	CONTROL JOINT
CANT	CANTILEVER
CFS	COLD FORMED STEEL
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
CLT	CROSS LAMINATED TIMBER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONXN	CONNECTION
D	DEPTH
D.T.	PRE-ENGINEERED DRAG TRUSS
DEMO	DEMOLITION
DIA, Ø	DIAMETER
DIM	DIMENSION
DWG	DRAWING
(E)	EXISTING
E.F.	EACH FACE
E.J.	EXPANSION JOINT
E.W.	EACH WAY
EA.	EACH
ELEV.	ELEVATION
EOR	ENGINEER OF RECORD
EQ	EQUAL
EQUIV.	EQUIVALENT
EXP	EXPANSION
EXT	EXTERIOR
F.T.	PRE-ENGINEERED FLOOR TRUSS
F.V.	FIELD VERIFY
FLR	FLOOR
FNDN	FOUNDATION
FTG	FOOTING
G.C.	GENERAL CONTRACTOR
G.L.	GLULAM
G.T.	PRE-ENGINEERED GIRDER TRUSS
Ga	GAUGE
GALV	GALVANIZED
GEN	GENERAL
GR	GRADE
GYP	GYPSUM WALLBOARD
H.A.S.	HEADED ANCHOR STUD
HD	HOLDOWN
HI	HIGH
HORIZ	HORIZONTAL
HT	HEIGHT
INS.	INSULATION
INT	INTERIOR
INV	INVERTED
k	KIPS (1,000 LBS)
klf	KIPS PER LINEAR FOOT
L	LENGTH
L.W.	LIGHTWEIGHT

ABBREVIATION LIST

LAT	LATERAL
Ld	REBAR DEVELOPMENT LENGTH
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LSL	LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
MAT'L	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MNFR	MANUFACTURER
(N)	NEW
N.W.	NORMAL WEIGHT
NOM	NOMINAL
NTS	NOT TO SCALE
o.c.	ON CENTER
O.R.	OUTRIGGER/OUTLOOKER
OPP	OPPOSITE HAND
OSB	ORIENTED STRAND BOARD
P.A.F.	POWDER ACTUATED FASTENER
P.E.	PRE-ENGINEERED
P.T.	PRESSURE TREATED
PERP	PERPENDICULAR
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
plf	POUNDS PER LINEAR FOOT
PLY	PLYWOOD
psf	POUNDS PER SQUARE FOOT
PSL	PARALLEL STRAND LUMBER
QTY	QUANTITY
(R)	REMOVED
R.O.	ROUGH OPENING
R.T.	PRE-ENGINEERED ROOF TRUSS
REINF	REINFORCE, REINFORCEMENT
REQ	REQUIRED
REQ'T	REQUIREMENT(S)
RET	RETAINING
S.C.	SLIP CRITICAL
S.F.	STRUCTURAL FASCIA
S.O.G.	SLAB ON GRADE, SLAB-ON-GROUND
S.S.	STAINLESS STEEL
S.W.	SHEAR WALL, SELF WEIGHT
SCHED	SCHEDULE
SHTG	SHEATHING
SIM	SIMILAR
SIP	STRUCTURAL INSULATED PANEL
SSLH	SHORT SLOTTED HORIZONTAL
SSLV	SHORT SLOTTED VERTICAL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUC	STRUCTURE, STRUCTURAL
t	THICKNESS
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
T.C.	TOP OF CONCRETE
T.L.	TOP OF LEDGE
T.O.	TOP OF
T.S.	TOP OF STEEL
T/K	TRIMMER & KING STUD
TRANS	TRANSVERSE
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WIDTH
W.P.	WORKING POINT
W/I	WITHIN
WWF	WELDED WIRE FABRIC

LEGEND

	CONCRETE		EARTH
	WOOD BEARING WALL		POROUS FILL/GRAVEL
	WOOD SHEAR WALL	▶	TOP OF CONCRETE STEP
	BEARING/SHEAR WALL ABOVE	FXX (XX'-XX")	STRIP FOOTING (TOP OF FOOTING ELEVATION)
	CMU	FX.X (XX'-XX")	ISOLATED/PAD FOOTING (TOP OF FOOTING ELEVATION)
(_)XxX ☒	COLUMN SUPPORTING THE LEVEL SHOWN	BFXX [XX'-XX"]	BIGFOOT SYSTEM FOOTING W/ Ø [BOTTOM OF FOOTING ELEVATION]
C ☒	COLUMN CONTINUOUS THROUGH THE LEVEL SHOWN	W_x_ (XX'-XX")	STEEL BEAM (TOP OF STEEL BEAM ELEVATION)
☐	COLUMN ABOVE LEVEL SHOWN. PROVIDE SQUASH BLKG & COL BELOW TO MATCH COL ABOVE	HDX	HOLDOWN. TRIANGLE POINTS TO COLUMN SIDE TO BE INSTALLED
_T,_K	TRIMMER & KING BUILT UP POST AT EDGE OF OPENING. STUDS TO MATCH WALL THICKNESS	SWX	SPECIAL SHEAR WALL. SEE PLAN NOTES & SCHEDULE FOR SHEATHING & FASTENING
	FLUSH BEAM OR HEADER	X	KEYNOTE. SEE SCHEDULE ON SHEET FOR NOTES
	DROPPED BEAM OR HEADER	BPX CPX	STEEL BASE PLATE STEEL-TO-WOOD CAP PLATE
	BEARING SUPPORT FOR JOIST, RAFTER, OR TRUSS	BPX/CPX BPX CPX	BASE PLATE/CAP PLATE
	HANGER SUPPORT FOR JOIST, RAFTER, BEAM, TRUSS, OR GIRDER TRUSS	B.P. _x_ [XX'-XX"]	BEAM POCKET AT T.O. WALL. DxW [B.O. POCKET ELEV]
	CONCEALED FLANGE HANGER SUPPORT FOR JOIST, RAFTER, BEAM, TRUSS, OR GIRDER TRUSS	B.P. _x_x_ [XX'-XX"]	BEAM POCKET IN WALL. DxWxH [B.O. POCKET ELEV]
	STEEL BEAM MOMENT CONNECTION		

SHEET LIST

SHEET NUMBER	SHEET NAME
S0.00	GENERAL NOTES, ABBREVIATIONS, & LEGENDS
S0.10	3D VIEWS
S0.20	TYPICAL DETAILS & SCHEDULES
S1.00	FOUNDATION PLAN
S1.10	FLOOR 2 & GARAGE ROOF FRAMING PLAN
S5.00	FOUNDATION DETAILS
S5.10	FRAMING DETAILS

HIGH RIDGE Structural
970-333-6721 www.hrstruc.com

STEVEN CAAN TAYLOR
54383
05/04/2026

De Residence

104 Alpine Dr
Frisco, CO

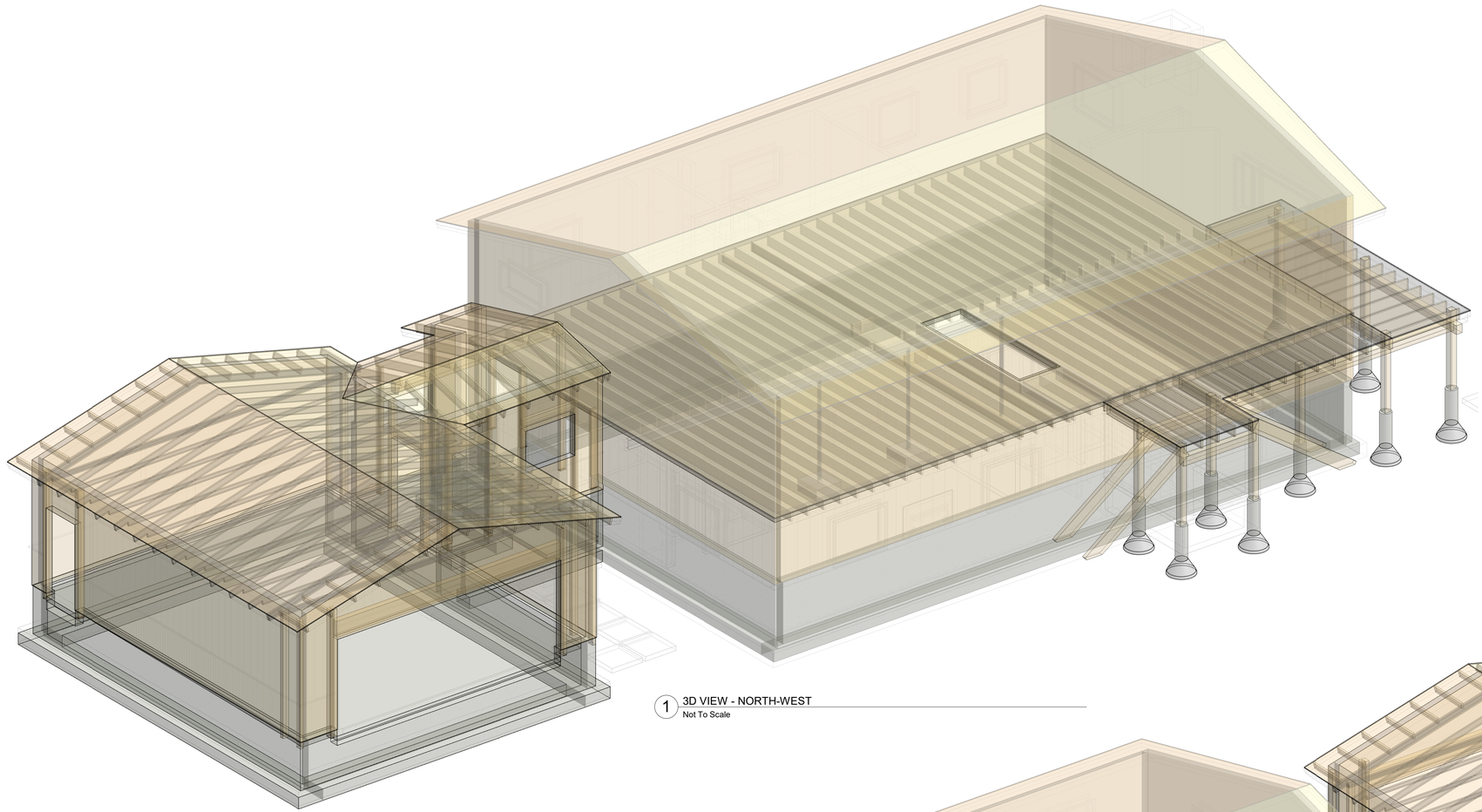
#	Description	Date
	Permit	05.04.2026

Project Number	2604
Date	03.02.2026
Drawn By	SCT
Checked By	SCT

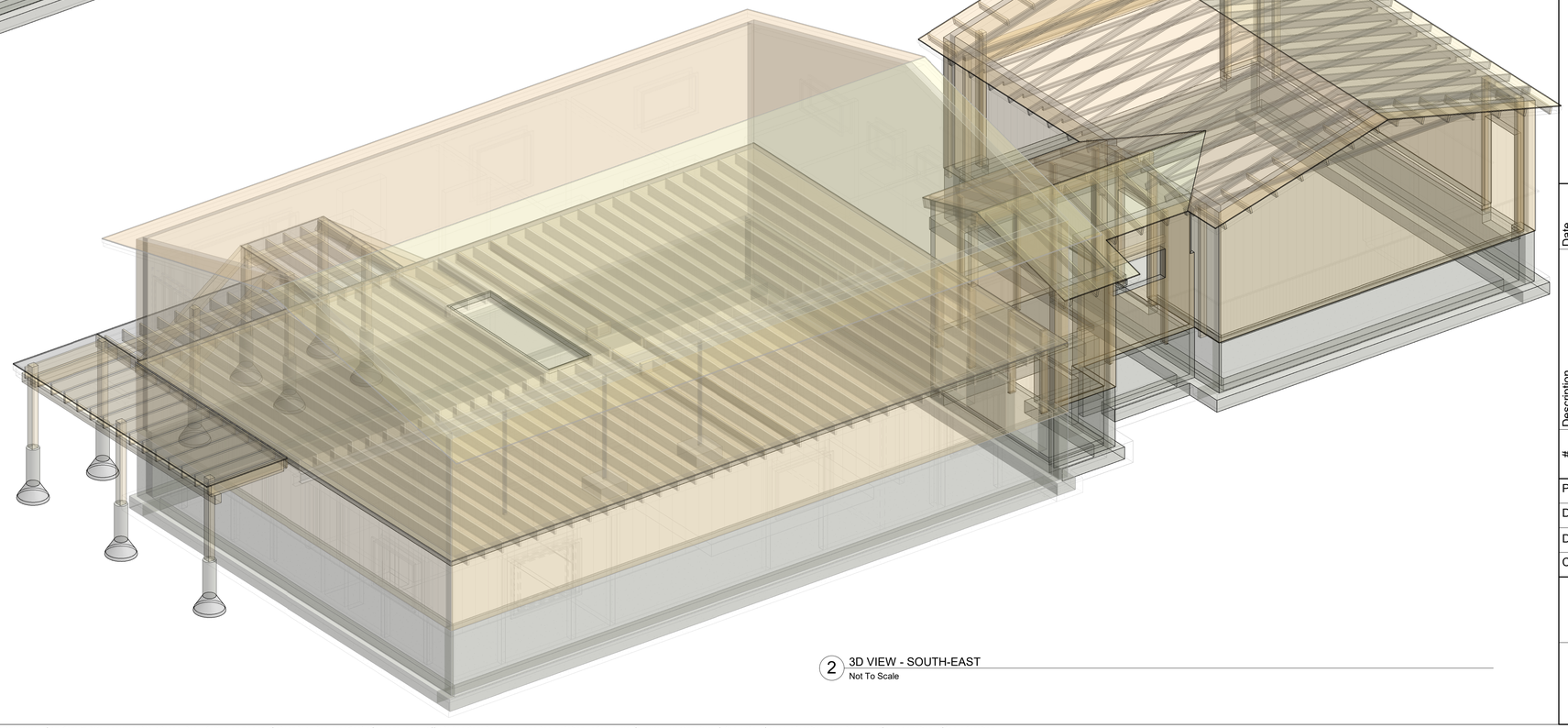
GENERAL NOTES, ABBREVIATIONS, & LEGENDS

S0.00

5/4/2026 9:28:25 PM



1 3D VIEW - NORTH-WEST
Not To Scale



2 3D VIEW - SOUTH-EAST
Not To Scale

HIGH RIDGE Structural
970-333-6721 www.hrstruc.com

COLORADO LICENSED
STEVEN CAAN TAYLOR
54383
05/04/2026
PROFESSIONAL ENGINEER

De Residence

104 Alpine Dr
Frisco, CO

#	Description	Date
	Permit	05.04.2026

Project Number	2604
Date	03.02.2026
Drawn By	SCT
Checked By	SCT

3D VIEWS

S0.10

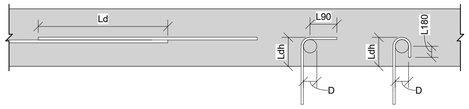
5/4/2026 9:28:27 PM

REBAR SCHEDULE (3,000PSI MIN)

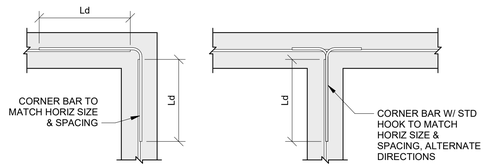
NOTES:

1. VALUES LISTED ARE FOR ASTM A615, GRADE 60 STEEL.
2. WHEN SPLICING DIFFERENT SIZE BARS, USE LAP LENGTH OF LARGER BAR.
3. LAP SPLICES ARE TO BE IN CONTACT & WIRED TIED. STAGGER SPLICES SO THAT NO MORE THAN 50% OF REINFORCING IS SPLICED AT ONE LOCATION.
4. LIGHTWEIGHT CONCRETE: MULTIPLY ALL TABLE VALUES BY 1.3.
5. EPOXY COATED REBAR: MULTIPLY ALL TABLE VALUES BY 1.5.
6. TOP LAP LENGTH SHALL BE USED ANYWHERE WHERE THERE IS GREATER THAN 12" OF POURED CONCRETE BELOW THE BARS.
7. TOP LAP LENGTH SHALL BE USED FOR VERTICAL BARS.

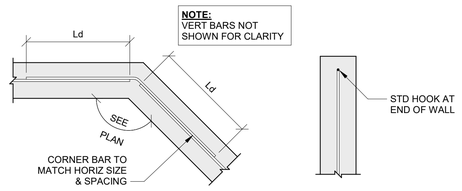
BAR SIZE	LAP LENGTH, BOT (Ld)	LAP LENGTH, TOP (Ld)	EMBEDMENT HOOK LENGTH (Ldh)	BEND DIAMETER (D)	90° BEND EXTENSION (L90)	180° BEND EXTENSION (L180)
#3	17"	22"	9"	2 1/4"	4 1/2"	2 1/2"
#4	22"	29"	11"	3"	6"	2 1/2"
#5	28"	36"	14"	3 3/4"	7 1/2"	2 1/2"
#6	33"	43"	17"	4 1/2"	9"	3"
#7	48"	63"	20"	5 1/4"	10 1/2"	3 1/2"
#8	55"	72"	22"	6"	12"	4"
#9	62"	81"	25"	9"	13 1/2"	4 1/2"
#10	69"	90"	28"	10"	15"	5"
#11	76"	98"	31"	11"	16.5"	5 1/2"
#14	96"	125"	39"	17 1/2"	21"	7"



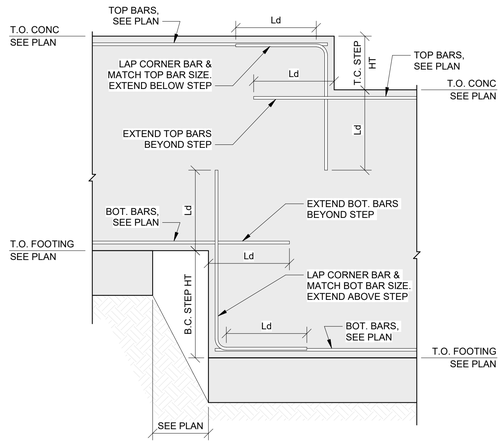
SPLICE/LAP LENGTH | 90° HOOK | 180° HOOK

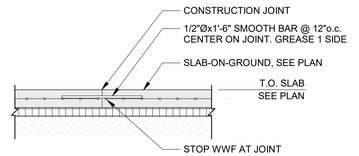


90° CORNER **WALL INTERSECTION**

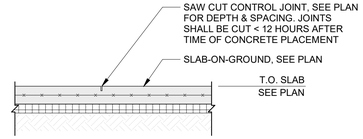


ANGLED CORNER **WALL END**



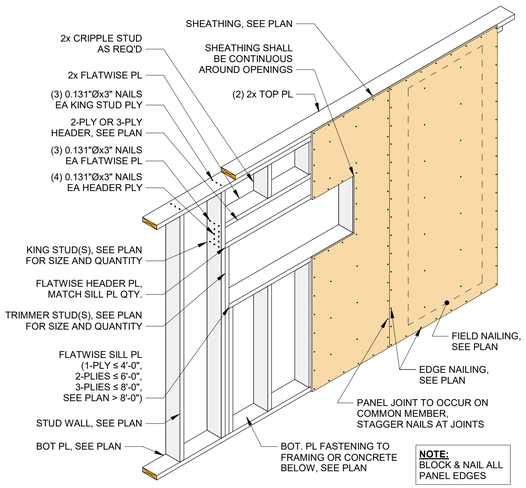


CONSTRUCTION JOINT

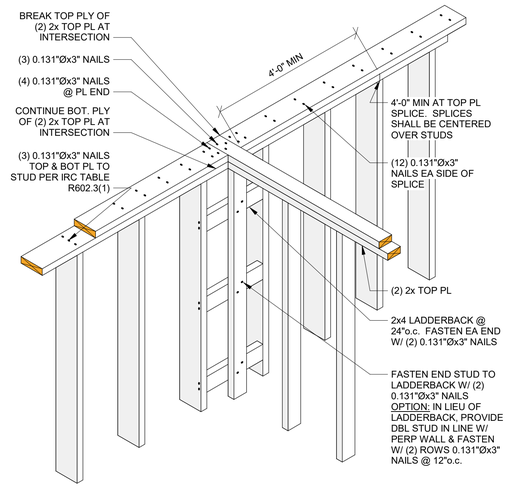


CONTROL JOINTS

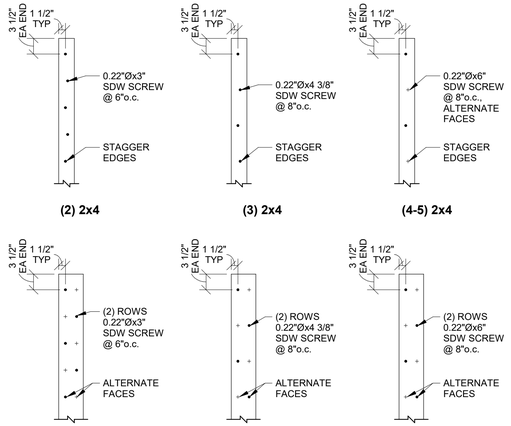
1 CONCRETE REBAR LAP LENGTH SCHEDULE
Not To Scale



2 WALL CORNER, INTERSECTION, & END REINFORCEMENT
Not To Scale

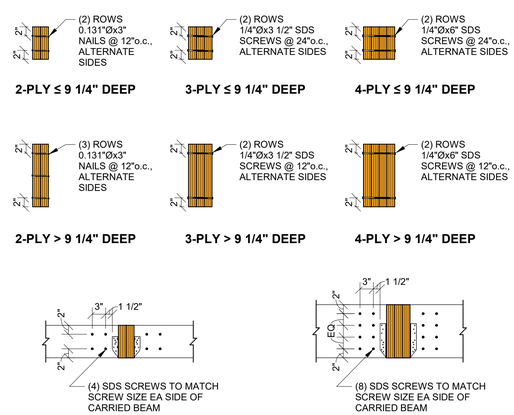


3 CONCRETE WALL TOP & BOTTOM STEPS
Not To Scale



OPTION:
SEE NDS, FIGURES 15C & 15D FOR ALTERNATIVE PLY NAILING & BOLTING FASTENING

4 SLAB-ON-GROUND JOINTS
Not To Scale



5 WALL FRAMING & OPENING
Not To Scale

6 WALL TOP PLATE SPLICE & INTERSECTION
Not To Scale

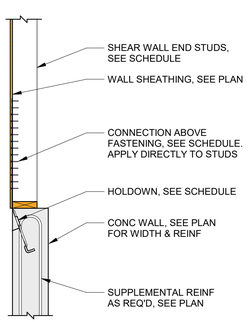
7 BUILT-UP 2x COLUMN PLY FASTENING
Not To Scale

8 MULTI-PLY BEAM FASTENING
Not To Scale

HOLDOWN SCHEDULE

1. ALL HOLDOWNS SHALL BE INSTALLED TO MATCH THE TYPE DETAIL SHOWN. ANY MODIFICATION TO THE HOLDOWNS SHALL BE SUBMITTED IN WRITING TO HIGH RIDGE FOR REVIEW PRIOR TO CONCRETE INSTALLATION FOR FOUNDATION HOLDOWNS OR INSTALLATION OF THE HOLDOWN FOR FRAMING HOLDOWNS.
2. ALL HOLDOWNS SHALL BE INSTALLED WITH THE NUMBER & SIZE OF FASTENERS SPECIFIED BY THE MNFR.
3. APPLY HOLDOWN TO FACE INDICTED ON PLAN.
4. PROVIDE EDGE NAILING PER PLAN OR SHEARWALL SCHEDULE FROM SHEATHING TO HOLDOWN END STUDS.

HDX	DESCRIPTION	TYPE	CONNECTION ABOVE	CONNECTION / ANCHOR BELOW	MIN. END STUDS
HD1	LSTHD8	C.I.P. STRAP	(20) 0.148"Øx3 1/4" NAILS	N/A	(2) 2x



C.I.P. STRAP

HIGH RIDGE Structural
970-333-6721 www.hrstruc.com

COLORADO LICENSED STRUCTURAL ENGINEER
54383
05/04/2026
PROFESSIONAL ENGINEER

De Residence

104 Alpine Dr
Frisco, CO

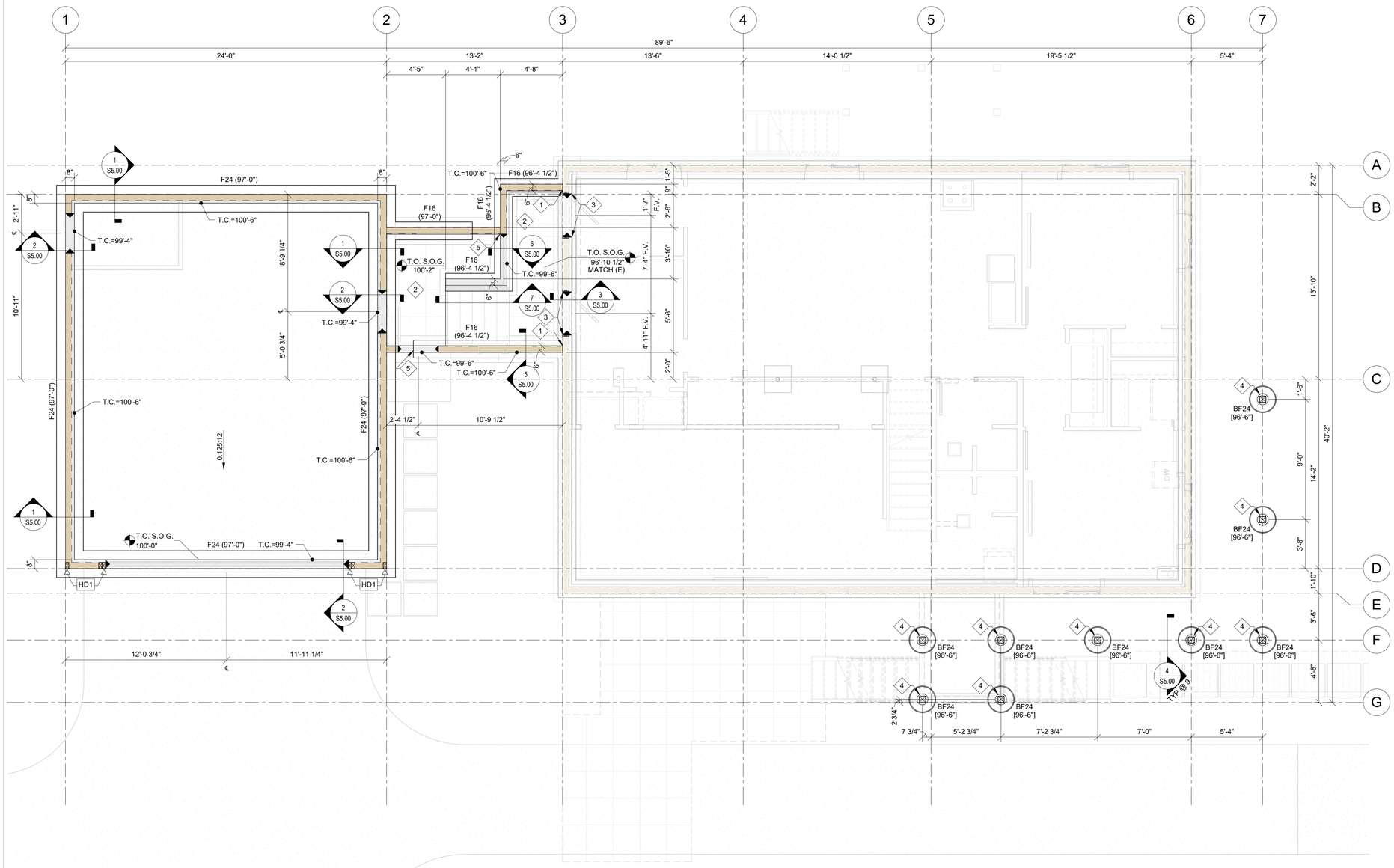
#	Description	Date
	Permit	05.04.2026

Project Number	2604
Date	03.02.2026
Drawn By	SCT
Checked By	SCT

TYPICAL DETAILS & SCHEDULES

S0.20

5/4/2026 9:28:28 PM



FOUNDATION PLAN
1/4" = 1'-0"

FOUNDATION PLAN NOTES

1. SEE S0.00 FOR STRUCTURAL GENERAL NOTES, LEGENDS, ABBREVIATIONS, & SPECIAL INSPECTION REQUIREMENTS.
2. SEE S0.10 FOR 3D VIEWS.
3. SEE S0.20 FOR TYPICAL DETAILS & SCHEDULES.
4. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS, ROUGH OPENINGS, LOCATIONS OF RAMPS, SLAB SLOPES, STEPPED SLAB LOCATIONS, PARTITION WALLS, AND OTHER ADDITIONAL INFORMATION. ANY ARCHITECTURAL INFORMATION SHOWN ON PLAN IS APPROXIMATE AND SHALL BE CONFIRMED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
5. F.V. EXISTING CONDITIONS PRIOR TO NEW CONSTRUCTION & NOTIFY HIGH RIDGE OF ANY DISCREPANCIES.
6. ARCHITECTURAL ELEVATION 100'-0" = 9076'-2" USGS.
7. FOOTINGS SHALL BEAR ON APPROVED SUBGRADE PER GEOTECH ENGINEER AT OPEN PIT INSPECTION. SEE GENERAL NOTES.
8. **FOOTING DOWELS:** MATCH SIZE & SPACING OF VERT WALL REINFORCING, NOTED BELOW. PROVIDE STANDARD HOOK AT BOTTOM & EXTEND MINIMUM (1) LAP LENGTH (Ld) ABOVE FOOTING PER TYPICAL DETAILS. OPTION: PROVIDE FULL HEIGHT FOOTING DOWELS IN LIEU OF SEPARATE VERTS PER NOTES 9 & 10.
9. **6" CONCRETE WALL (U.N.O.):** #4 @ 12"o.c. EACH WAY, CENTERED IN WALL: (2) #5 HORIZ T&B.
10. **8" CONCRETE WALL (U.N.O.):** #4 @ 12"o.c. EACH WAY, CENTERED IN WALL: (2) #5 HORIZ T&B.
11. **ANCHOR BOLTS:** 1/2"Ø x12" W/ 5" PROJECTION @ 32"o.c. ANCHOR BOLTS & WASHERS TO FASTEN TO WOOD SILL PLATE ABOVE.
12. **UFER:** LOCATE UFER GROUNDING BAR AS CLOSE TO ELECTRICAL PANEL AS POSSIBLE. INSTALL PER THE NATIONAL ELECTRICAL CODE REQUIREMENTS:
    A. #4 OR #5 BAR W/ 2" MINIMUM CLEAR COVER.
    B. EXTEND 20'-0" HORIZONTALLY INTO FOOTING OR EXTEND 3-0" HORIZONTALLY & TIE TO FOOTING BOTTOM BAR W/ (5) REBAR TIES.
    C. EXTEND 1'-0" ABOVE TOP OF CONCRETE WALL.
13. **DROPPED TOP OF CONCRETE AT OPENINGS:** CONFIRM ROUGH OPENING DIMENSIONS PRIOR TO CONCRETE POUR. SEE TYPICAL DETAILS FOR TOP OF CONCRETE STEP.
14. **4" SLAB ON GRADE (U.N.O.):**
    A. CONCRETE SLAB TO BEAR ON PREPARED SUB-GRADE PER GEOTECH RECOMMENDATIONS.
    B. REINFORCE W/ 6x6 W5xW5 (D5) WWF OR #4 @ 12"o.c. EA WAY AT MID DEPTH.
    C. SAW CUT OR TOOLED CONTROL JOINTS AT 10'-0" MAX EACH WAY. CONTROL JOINTS TO BE INSTALLED 12 HOURS MAX, TEMPERATURE DEPENDENT, AFTER CONCRETE IS POURED.
    D. INSTALL (3) #4x5'-0" DIAGONAL BARS AT MID-DEPTH OF SLAB AT ALL RE-ENTRANT CORNERS.
15. HDX **HOLDOWN:** SHALL BE INSTALLED AT THE TOP OF FOUNDATION WALL, U.N.O. SEE SCHEDULE FOR TYPE AND MINIMUM STUD REQUIREMENTS.

KEYNOTE SCHEDULE - FOUNDATION

X	NOTES:
1	EPOXY DOWEL (N) CONC WALL INTO (E) CONC WALL W/ 4" EMBED & SIMPSON AT-3G EPOXY. SPACE TO MATCH (N) WALL REINFORCEMENT.
2	4" S.O.G. SEE PLAN NOTES.
3	SAW CUT (E) CONC WALL TO ALLOW FOR NEW DOOR INSTALLATION. SEE ARCH FOR DIM'S & R.O. REQUIREMENTS. COVER ALL EXPOSED REINFORCEMENT W/ (2) LAYERS ASPHALTIC BASED PAINT OR ALTERNATE CORROSION RESISTANCE.
4	T.O. PIER ELEV = 100'-6".
5	STEP B.O. WALL.

STRIP FOOTING SCHEDULE

TYPE	WIDTH	THICK-NESS	CONT REINF	TRANS REINF
F16	1'-4"	10"	(2) #5 BOT	N/A
F24	2'-0"	10"	(2) #5 BOT	N/A

ISOLATED FOOTING SCHEDULE

TYPE	LENGTH OR Ø	WIDTH	THICK-NESS	LONG. REINF	TRANS REINF
BF24	2'-0"			SEE SECTION	SEE SECTION

HIGH RIDGE Structural
970-333-6721 www.hrstruc.com

COLORADO LICENSED STEVEN C. CAAN WINTON 54383 05/04/2026 PROFESSIONAL ENGINEER

De Residence

104 Alpine Dr
Frisco, CO

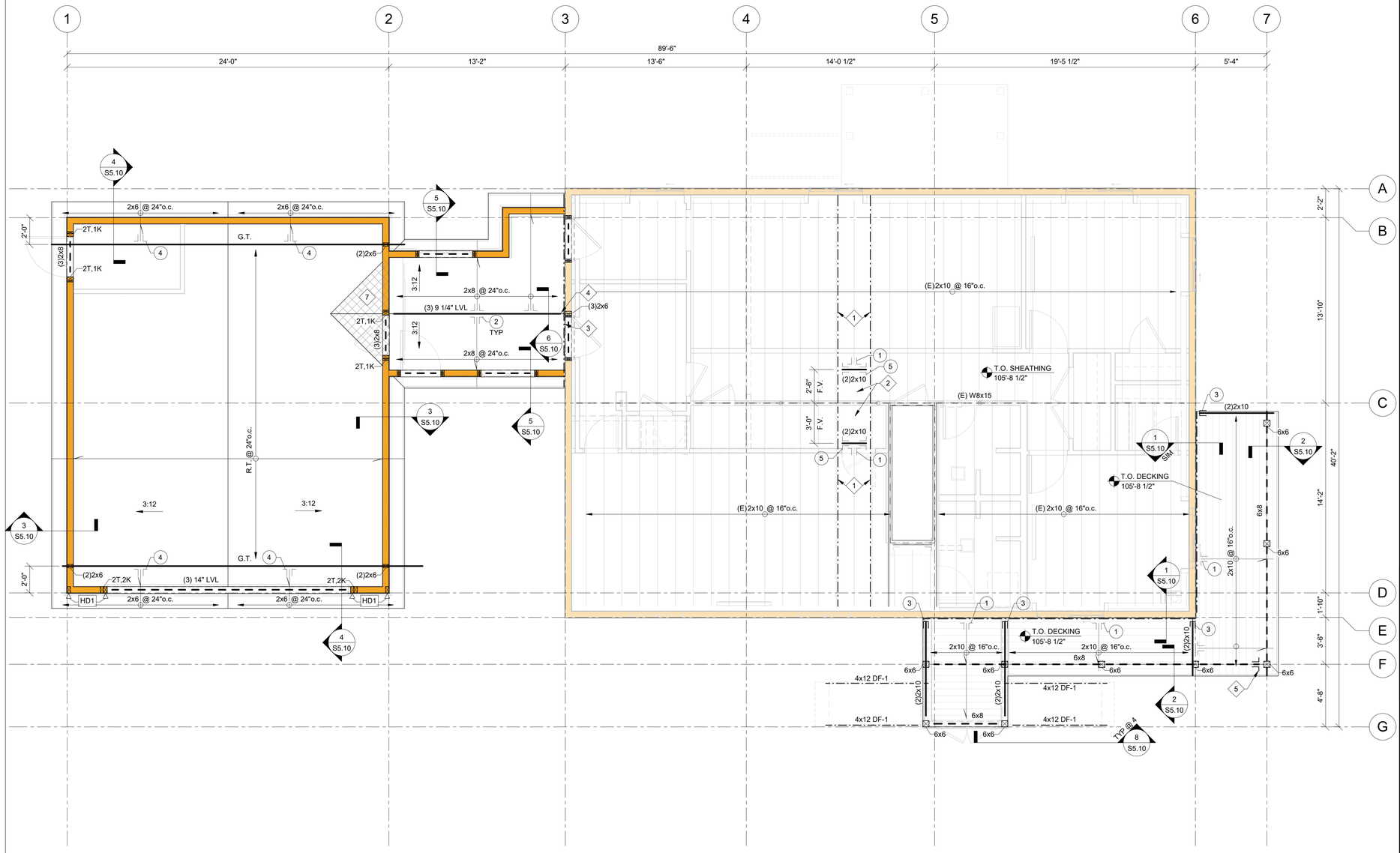
#	Description	Date
	Permit	05.04.2026

Project Number	2604
Date	03.02.2026
Drawn By	SCT
Checked By	SCT

FOUNDATION PLAN

S1.00

5/4/2026 9:28:28 PM



FLOOR 2 FRAMING PLAN
1/4" = 1'-0"

FLOOR 2 FRAMING PLAN NOTES

1. SEE S0.00 FOR STRUCTURAL GENERAL NOTES, LEGENDS, ABBREVIATIONS, & SPECIAL INSPECTION REQUIREMENTS.
2. SEE S0.10 FOR 3D VIEWS.
3. SEE S0.20 FOR TYPICAL DETAILS & SCHEDULES.
4. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS, STEPPED FRAMING LOCATIONS, PARTITION WALLS, AND OTHER ADDITIONAL INFORMATION. ANY ARCHITECTURAL INFORMATION SHOWN ON PLAN IS APPROXIMATE AND SHALL BE CONFIRMED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
5. F.V. EXISTING CONDITIONS PRIOR TO NEW CONSTRUCTION & NOTIFY HIGH RIDGE OF ANY DISCREPANCIES.
6. TOP OF FLOOR SHEATHING = 105'-8 1/2" U.N.O.
7. TOP OF PLATE HEIGHT = SEE ARCH.
8. **EXTERIOR WALL FRAMING (U.N.O.):**
   - A. STUDS: 2x6 STUDS @ 16"o.c.
   - B. SHEATHING:
     - a. EXTERIOR FACE: 7/16"OSB, APA 24/16. FASTEN W/ 0.131"Øx3" NAILS @ 6"o.c. AT PANEL EDGE & 12"o.c. IN PANEL FIELD.
     - b. INTERIOR FACE: 5/8" GYPSUM WALLBOARD. FASTEN W/ #6x1 1/4" TYPE W DRYWALL SCREWS @ 8"o.c. AT PANEL EDGE & 12"o.c. IN PANEL FIELD.
   - C. BLOCK & NAIL ALL PANEL EDGES BETWEEN STUDS.
9. **ROOF FRAMING (U.N.O.):**
   - A. TOPPING: SEE ARCH.
   - B. SHEATHING: 5/8" APA RATED 40/20 SHEATHING, ORIENTED LONG DIRECTION PERP TO FRAMING, WITH STAGGERED PANEL JOINTS.
   - C. FRAMING: ROOF TRUSSES
   - D. FASTENING: FASTEN SHEATHING TO FRAMING MEMBERS W/ 0.131"Øx3" NAILS @ 6"o.c. AT PANEL EDGE & 12"o.c. IN PANEL FIELD.
   - E. TIEDOWNS:
     - a. H2.5T TIE AT EACH TRUSS BEARING LOCATION ≥ 8' FROM CORNER.
     - b. (2) H2.5T TIES AT EACH TRUSS BEARING LOCATION < 8' FROM CORNER.
     - c. (2) H6 TIES AT EACH GIRDER TRUSS BEARING LOCATION.
10. **COLUMNS:** COLUMNS SHOWN, BUT NOT TAGGED ARE (2) 2x TO MATCH WALL STUD WIDTH.
11. **DRIP THROUGH DECK FRAMING (U.N.O.):** 1x COMPOSITE DECKING ORIENTED PERP TO JOISTS. FASTEN DECKING TO JOISTS PER MANUFACTURER INSTRUCTIONS. FLASH TOP OF MULTI-PLY JOISTS & BEAMS.
12. **DECK TIE:** MIN (2) DTT2Z PER DECK, (1) EACH END, INSTALLED TO SIDE OF DECK JOIST W/ 1/2"Ø THREADED ROD PENETRATING THROUGH LEDGER & RIM PER IRC SECTION R507. FASTEN INTERIOR DTT2Z TO SIDE OF BLOCKING OR PARALLEL JOIST. PACK JOIST WEB PER MANUFACTURER AS REQUIRED.
13. HDX **HOLDOWN:** SHALL BE INSTALLED AT THE BASE OF SHEARWALL SHOWN/TOP OF WALL BELOW. SEE SCHEDULE FOR TYPE AND MINIMUM STUD REQUIREMENTS.

KEYNOTE SCHEDULE - FLOOR 2 FRAMING

X	NOTES:
1	SISTER (N) 2x10 TO (E) 2x10 FLOOR JOISTS W/ (2) ROWS #10x3" WOOD SCREWS @ 12"o.c.
2	PROVIDE 2x6 FLATWISE BLOCKING AT UNDERSIDE OF SHEATHING @ 12"o.c.
3	2x8 LEDGER. FASTEN TO (E) WALL STUDS/RIM W/ (2) 1/4"Øx3 1/2" SDS SCREWS @ 24"o.c.
4	POCKET (N) RIDGE BEAM INTO (E) WALL & BEAR ON (N) COLUMN BELOW.
5	KNIFE PL PER SECTION 9/S5.10.
7	HATCH INDICATES OVERFRAMING.

HANGER SCHEDULE

1. ALL HANGERS SHALL BE INSTALLED WITH THE NUMBER & SIZE OF FASTENERS SPECIFIED IN THIS SCHEDULE. ANY SUBSTITUTIONS SHALL BE REVIEWED & APPROVED BY HIGH RIDGE PRIOR TO INSTALLATION.

2. HANGER CALLOUTS SHOWN APPLY AT BOTH ENDS OF MEMBER, U.N.O.

X	HANGER	SUPPORTED MEMBER FASTENERS	SUPPORTING MEMBER FASTENERS
1	LUS28	(4) 0.148"x3" NAILS	(6) 0.148"x3" NAILS
2	LSSR26Z	(7) 0.148"x1 1/2" NAILS	(11) 0.148"x1 1/2" NAILS
3	HUC210-2	(6) 0.148"x3" NAILS	(14) 0.148"x3" NAILS
4	LUS26	(4) 0.148"x3" NAILS	(4) 0.148"x3" NAILS
5	LUS28-2	(4) 0.148"x3" NAILS	(6) 0.148"x3" NAILS

ROOF TRUSS SUPPLIER NOTES

1. DESIGN LOADS:
   - A. SUPERIMPOSED DEAD LOADS:
     - a. TOP CHORD: 15psf
     - b. BOTTOM CHORD: 5psf
   - B. ROOF LIVE LOADS:
     - a. TOP CHORD: 20psf
   - C. SNOW LOADS:
     - a. TOP CHORD: 80psf
   - D. ADDITIONAL DRAG, POINT, LINE, & AREA LOADS AS SHOWN ON PLAN.
2. DEFLECTION LIMITS:
   - A. LIVE LOAD (LESSER OF):
     - a. SPAN LENGTH / 360
     - b. 3/4" MAX
   - B. TOTAL LOAD (LESSER OF):
     - a. SPAN LENGTH / 240
     - b. 1" MAX
3. BEARING:
   - A. AT BEARING WALLS, DESIGN SHALL ASSUME DOUG-FIR TOP PLATES ($F_{c\perp}$ = 625psi).
   - B. AT BEAMS OR OTHER SUPPORTS, SEE PLAN & GENERAL NOTES FOR MATERIAL BEARING STRENGTH.
   - C. PROVIDE ADD'L PLIES, BEARING ENHANCERS, OR BEARING BLOCKS IF REQ'D FOR BEARING TO MEET CAPACITY.
4. DO NOT ALTER TRUSS LAYOUT WITHOUT WRITTEN APPROVAL BY HIGH RIDGE PRIOR TO SHOP DRAWINGS.
5. REFER TO ARCHITECTURAL DRAWINGS FOR TRUSS HEEL HEIGHTS & BOTTOM/TOP CHORD PROFILES.
6. AT GIRDER TRUSSES, PROVIDE VERTICALS SUFFICIENT TO FASTEN FACE MOUNT HANGERS WHERE SPECIFIED ON PLAN.

HIGH RIDGE Structural
970-333-6721 www.hrstruc.com

COLORADO LICENSED STEVEN CAAN WINTER 54383 05/04/2026 PROFESSIONAL ENGINEER

De Residence

104 Alpine Dr
Frisco, CO

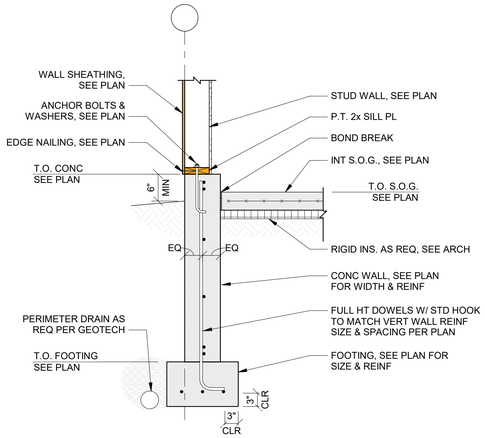
#	Description	Date
	Permit	05.04.2026

Project Number	2604
Date	03.02.2026
Drawn By	SCT
Checked By	SCT

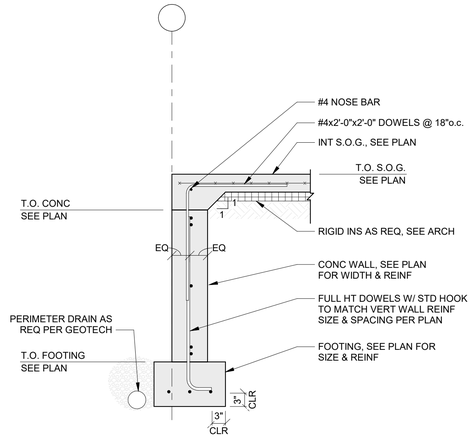
FLOOR 2 & GARAGE ROOF FRAMING PLAN

S1.10

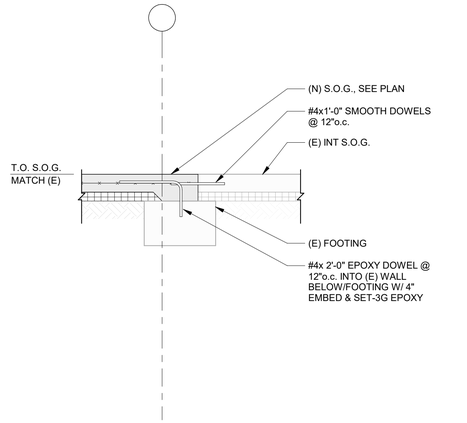
5/4/2026 9:28:29 PM



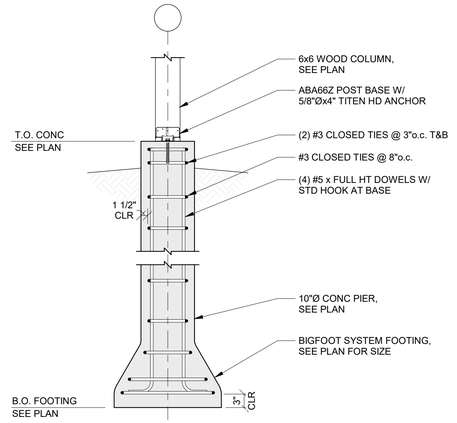
1 STEM WALL WITH CURB
3/4" = 1'-0"



2 OVERPOUR AT OPENING
3/4" = 1'-0"



3 NEW OPENING AT EXISTING HOUSE
3/4" = 1'-0"



4 CONCRETE PIER ON BIGFOOT
3/4" = 1'-0"

5 6" STEM WALL
3/4" = 1'-0"

6 OVERPOUR AT INTERIOR
3/4" = 1'-0"

7 CONCRETE STAIRS ON GRADE
3/4" = 1'-0"

HIGH RIDGE Structural
970-333-6721 www.hrstruc.com

COLORADO LICENSED STRUCTURAL ENGINEER 54383 05/04/2026 PROFESSIONAL ENGINEER

De Res Residence

104 Alpine Dr
Frisco, CO

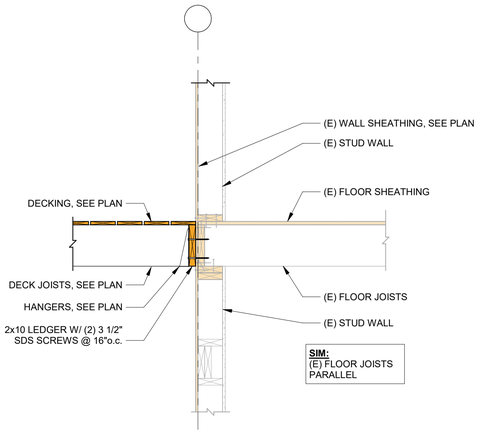
#	Description	Date
	Permit	05.04.2026

Project Number	2604
Date	03.02.2026
Drawn By	SCT
Checked By	SCT

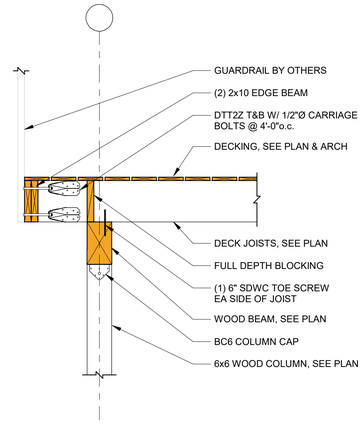
FOUNDATION DETAILS

S5.00

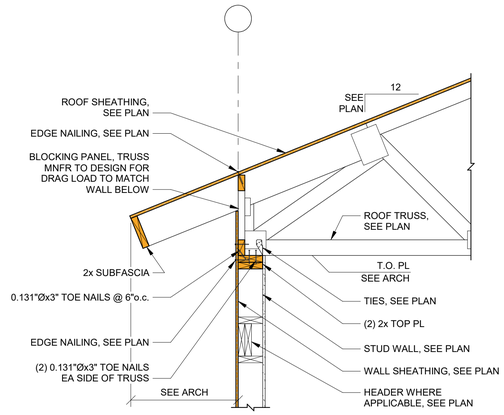
5/4/2026 9:28:29 PM



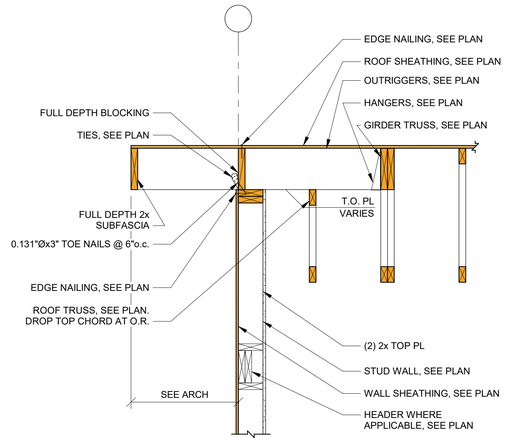
1 DECK JOISTS HANGING FROM EXTERIOR WALL
3/4" = 1'-0"



2 DECK EDGE OVER DROPPED BEAM
3/4" = 1'-0"



3 TRUSS BEARING ON EXTERIOR WALL
3/4" = 1'-0"



4 TRUSS PARALLEL TO EXTERIOR WALL
3/4" = 1'-0"

5 RAFTER BEARING ON TIMBER BEAM
3/4" = 1'-0"

6 FLUSH WOOD RIDGE BEAM
3/4" = 1'-0"

7 KNIFE PL
1 1/2" = 1'-0"

8 STAIR STRINGER
3/4" = 1'-0"

HIGH RIDGE Structural
970-333-6721 www.hrstruc.com

COLORADO LICENSED STEVEN CAAN WINTON 54383 05/04/2026 PROFESSIONAL ENGINEER

De Res Residence

104 Alpine Dr
Frisco, CO

#	Description	Date
	Permit	05.04.2026

Project Number	2604
Date	03.02.2026
Drawn By	SCT
Checked By	SCT

FRAMING DETAILS

S5.10

5/4/2026 9:28:29 PM

☑ Electric Reset Text

Xcel Energy Non-Gratuitous Billing Sheet

☐ Gas

☐ Paid Up Front on WO#_____

Bill To: CATAMOUNT INC
PBH BREAKERS LLC
777 BRICKELL AVE #1200

Instructions: Version 11/05/2024
DC/RC UG XMFR #89/14 FOR MPU 200A

Address of Work to be done:
104 ALPINE DR
FRISCO CO 80443
SUMMIT COUNTY
MTN

Below - Person responsible for payment:
Cust Sig/Date:
Print Name:
Phone Number:

Non-Gratuitous Description	Basic Cost		Hours		Cost	
Trip Charge - CRS - Elec 8006, Gas 8007	Elec $61.00 / Gas $61.00			=	$0.00	Reset
Holding Poles - Minimum 4 hours - 8001	$1206.00			=	$0.00	Reset
Each additional hour CRS Code 8079	$301.00	x		=	$0.00	
Line Covering-Primary,Minimum 3 hours - 8033	$1285.00			=	$0.00	Reset
Each additional hour CRS Code 8080	$428.00	x		=	$0.00	
Line Covering-Secondary,Minimum 2 hours - 8034	$566.00			=	$0.00	Reset
Each additional hour CRS Code 8081	$283.00	x		=	$0.00	
Relocate Overhead Loop,minimum 2 hours - 8031	$327.00			=	$0.00	Reset
Each additional hour CRS Code 8088	$163.00	x		=	$0.00	
Connect/Reconnect Loop Charge,minimum 2 hours - 8032	$242.00			=	$242.00	Reset
Each additional hour CRS Code 8219	$121.00	x		=	$0.00	
Transformer Opening, minimum 1 hour - 8000	$134.00			=	$0.00	Reset
Each additional hour CRS Code 8150	$134.00	x		=	$0.00	
Institute Elec Svc within 12 hrs CRS Code 2494 Requiring a premise visit	$92.00			=	$0.00	Reset
Institute Elec -Gas Svc within 12 hrs CRS Code 2469 Requiring a premise visit	157.00			=	$0.00	Reset
Institute/ReinstituteGasSvc-within24hrs-premise visit req 2470	$93.00			=	$0.00	Reset
Institute/ReinstituteElecSvc-within24hrs-premise visit req 1393	$49.00			=	$0.00	Reset
Institute or reinstitute both gas and electric service - within 24hrs Requiring a premise visit CRS 1965	$112.00			=	$0.00	Reset

Additional Instructions / Comments:

This cost is only an estimate. You will be billed for actual time which includes travel and materials.

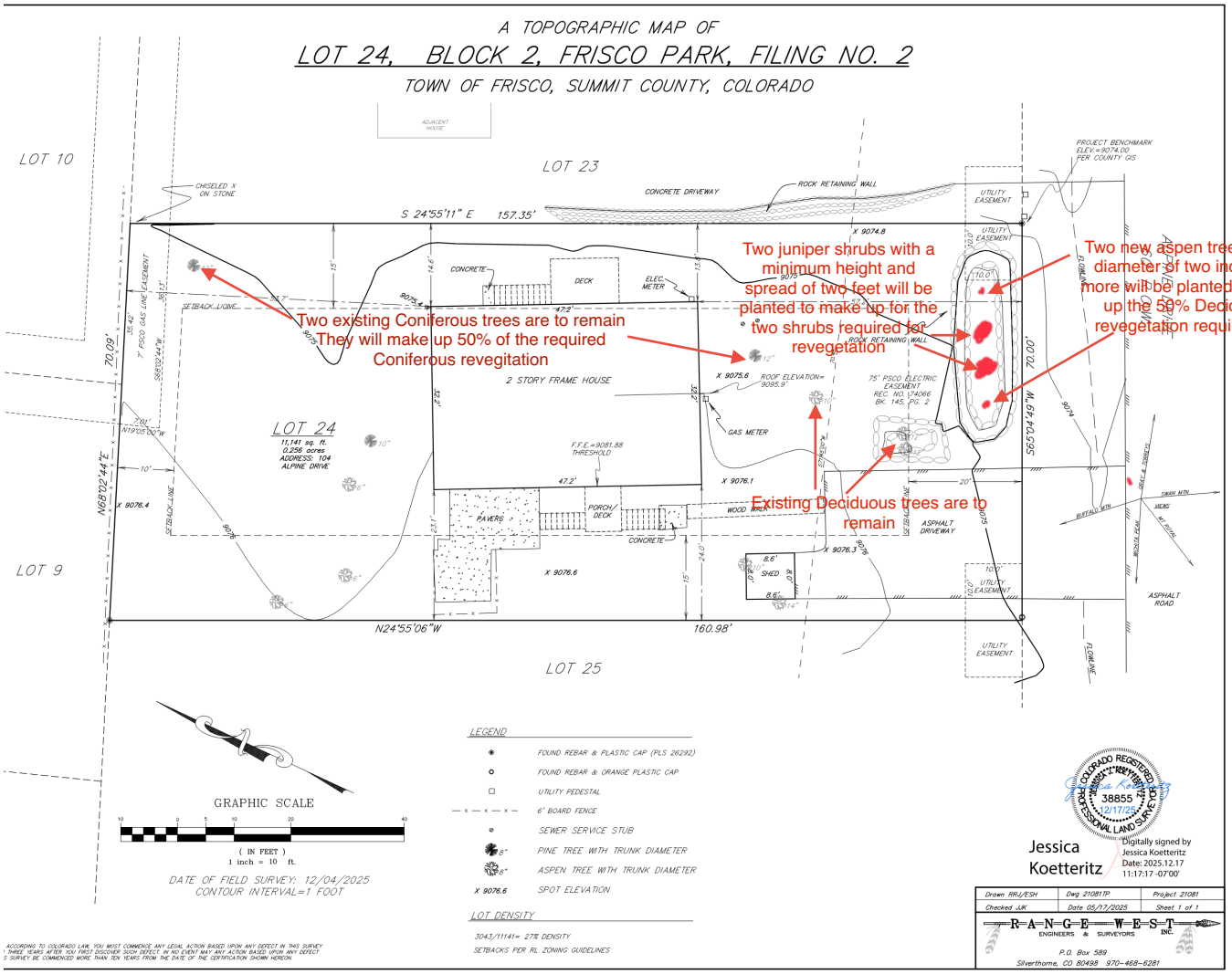
Originator ALEXANDER KING / 720-415-0027
Full Name and Phone #

Date Requested: 12/02/25 **Time:**

Foreman: **Date Completed:** **Time:**

RESET TEXT RESET SHEET

Total Non-Gratuitous Cost = $242.00



PODIUM
ARCHITECTURE & DESIGN GROUP
PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4781
WWW.PODIUMARCH.COM

CLIENT:
NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:
PERMIT SET 04 MAY 2026

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE
ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

PROJECT NO: 1016.00

SHEET TITLE:
SURVEY - BY OTHERS

SHEET NO:
A0.01

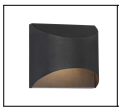
LOT COVERAGE

LOT AREA	11,141 SF	100%
EXISTING PAVED AREA	1,3040 SF	12%
EXISTING BUILDING	1,512 SF	14%
PROPOSED ASPHALT DRIVE	1,080 SF	10%
PROPOSED GARAGE & BREEZEWAY	768 SF	7%
TOTAL PROPOSED BUILDING FOOTPRINT	309 SF	42%

The above, is the lot coverage calculation that is on the architectural plans. The proposed deck and the existing deck that will remain are not on this sheet. The proposed deck will will cover 278 sq ft and the existing deck that will remain covers 112 sq ft. I have provided updated calculations below. The total footprint of the new deck, garage, foyer, asphalt and pavers totals 2,216 sq ft. I added 15% to that total to calculate the total amount of disturbed earth during construction. That number rounded up is 2,550 sq ft. That requires us to plant three trees and two shrubs according to the landscaping requirements. I have provide pictures and drawings detailing the landscaping plan.

Lot Area	11,141 sf
Existing Paved Area	1,304 sf
Existing Building, back deck, front porch/deck	1,725 sf
Proposed Asphalt Dr	1,080 sf
Proposed Garage and Foyer	768 sf
Total Proposed Deck Footprint	278 sf
Total Proposed Paver Footprint	90 sf
Total amount of disturbed earth during construction	2,550 sf

EXTERIOR LIGHT FIXTURE



POSSINI EURO RATNER 5 1/2" HIGH BLACK MODERN LED OUTDOOR WALL LIGHT

6" WIDE X 5 1/2" HIGH. EXTENDS 6" FROM THE WALL.

DARK SKY COMPLIANT - LED

SNOW STORAGE REQUIREMENT

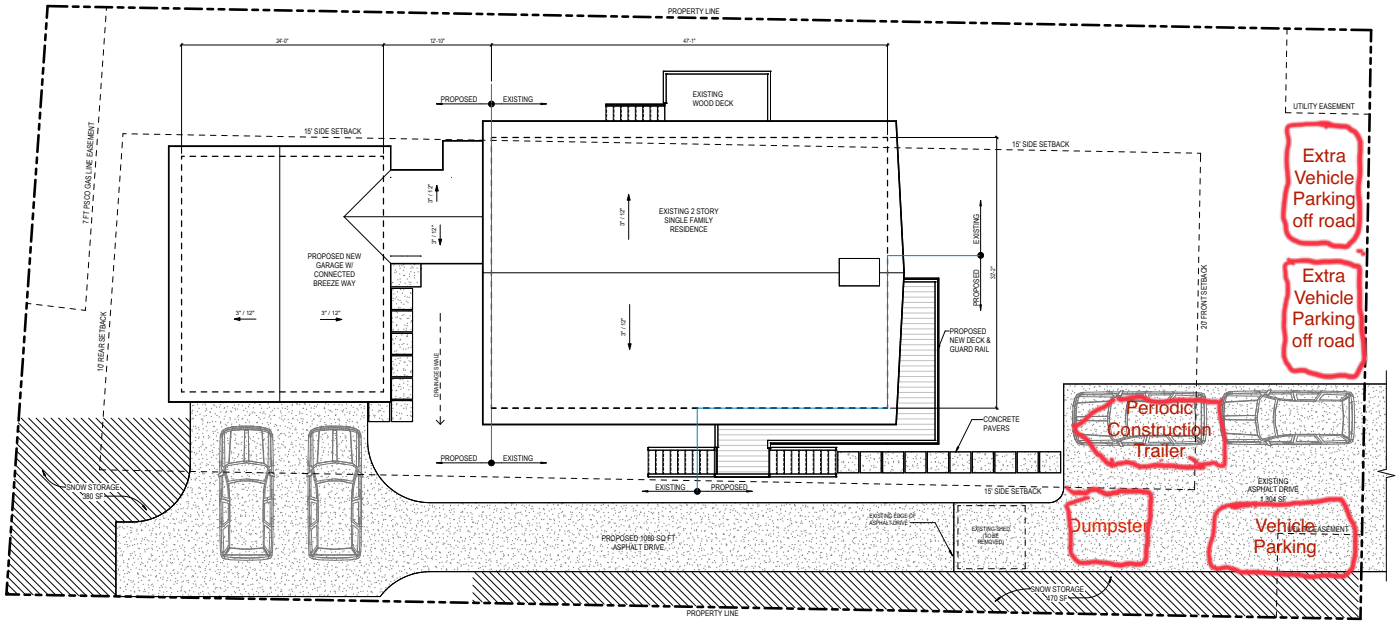
PAVED SURFACE (NEW)	1,080 SF
SNOW STORAGE PROVIDED (NEW)	380 SF
SNOW STORAGE REQUIRED (1005F PER 350 SF)	309 SF

EXISTING

PAVED SURFACE (EXISTING)	1,304 SF
SNOW STORAGE PROVIDED	470 SF
SNOW STORAGE REQUIRED (1005F PER 350 SF)	373 SF

LOT COVERAGE

LOT AREA	11,141 SF	100%
EXISTING PAVED AREA	1,3040 SF	12%
EXISTING BUILDING	1,512 SF	14%
PROPOSED ASPHALT DRIVE	1,080 SF	10%
PROPOSED GARAGE & BREEZEWAY	768 SF	7%
TOTAL PROPOSED BUILDING FOOTPRINT	309 SF	42%



1 SITE PLAN - PROPOSED
SCALE: 3/16" = 1'-0"

5/5/2026 7:12:52 AM

PODIUM
ARCHITECTURE & DESIGN GROUP
PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4181
WWW.PODIUMARCH.COM

CLIENT:
NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:
PERMIT SET — 04 MAY 2026

PROJECT NAME & ADDRESS:
104 ALPINE DRIVE
ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

PROJECT NO: 1016.00

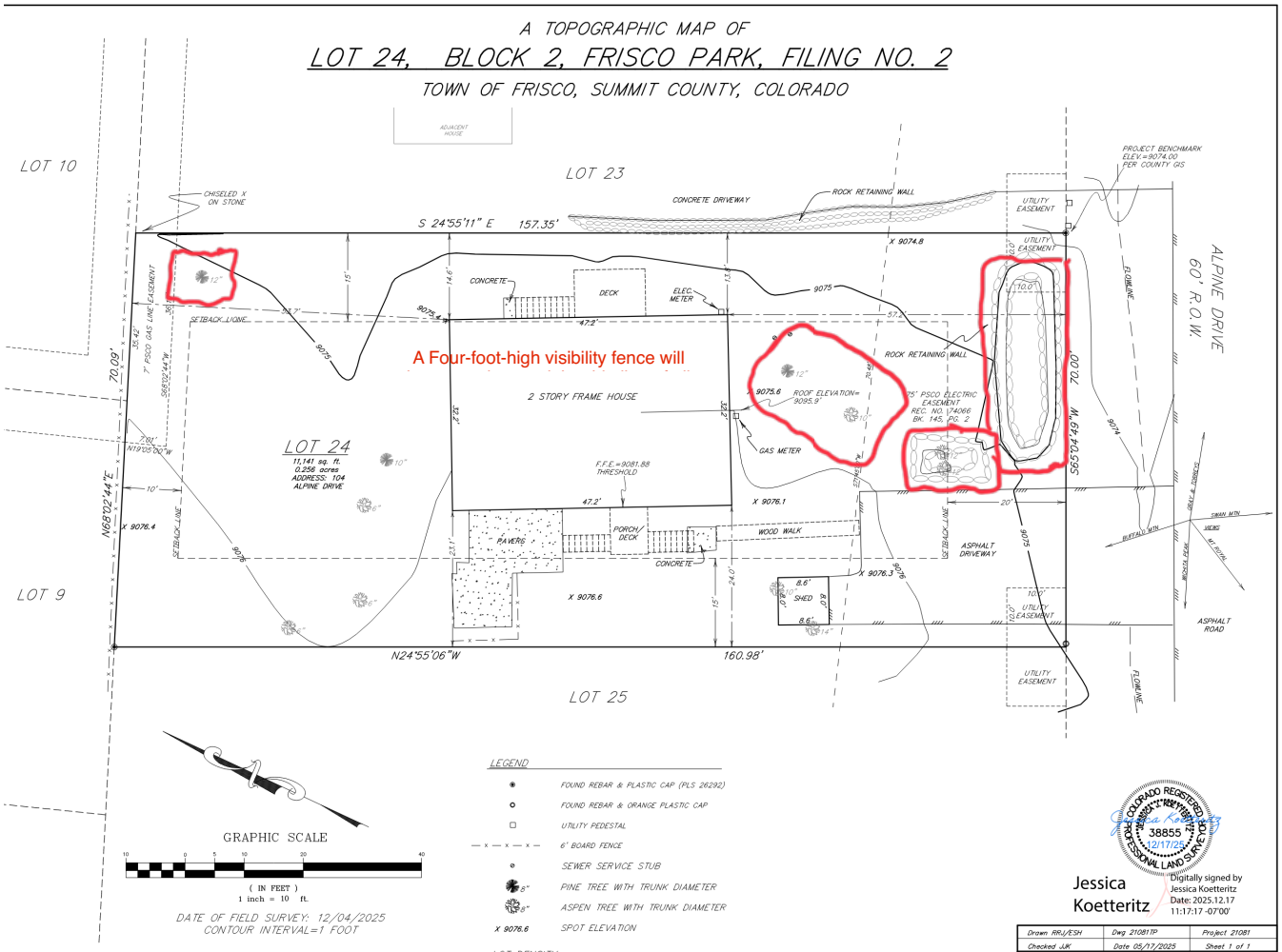
SHEET TITLE:
OVERALL SITE PLAN - PROPOSED

SHEET NO:
A0.03

A TOPOGRAPHIC MAP OF

LOT 24, BLOCK 2, FRISCO PARK, FILING NO. 2

TOWN OF FRISCO, SUMMIT COUNTY, COLORADO



GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.

DATE OF FIELD SURVEY: 12/04/2025
CONTOUR INTERVAL=1 FOOT

LEGEND

- FOUND REBAR & PLASTIC CAP (PLS 26292)
- FOUND REBAR & ORANGE PLASTIC CAP
- UTILITY PEDESTAL
- 6' BOARD FENCE
- SEWER SERVICE STUB
- PINE TREE WITH TRUNK DIAMETER
- ASPEN TREE WITH TRUNK DIAMETER
- X 9076.6 SPOT ELEVATION

LOT DENSITY

3043/11141= 27% DENSITY

SETBACKS PER RL ZONING GUIDELINES

COLORADO REGISTERED PROFESSIONAL LAND SURVEYOR 38855 12/17/25

Jessica Koetteritz

Digitally signed by Jessica Koetteritz
Date: 2025.12.17 11:17:17 -07'00'

Drawn RRJ/ESH	Dwg 21081TP	Project 21081
Checked JJK	Date 05/17/2025	Sheet 1 of 1

RANGE WEST INC.
ENGINEERS & SURVEYORS
P.O. Box 589
Silverthorne, CO 80498 970-468-6281

PODIUM
ARCHITECTURE & DESIGN GROUP
PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4781
WWW.PODIUMARCH.COM

CLIENT:
NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:
PERMIT SET 04 MAY 2026

PROJECT NAME & ADDRESS:

104 ALPINE DRIVE
ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

PROJECT NO: 1016.00

SHEET TITLE:
SURVEY - BY OTHERS

SHEET NO:
A0.01

EXTERIOR LIGHT FIXTURE

POSSINI EURO RATNER 5 1/2" HIGH BLACK MODERN LED OUTDOOR WALL LIGHT

6" WIDE X 5 1/2" HIGH. EXTENDS 6" FROM THE WALL.

DARK SKY COMPLIANT - LED

SNOW STORAGE REQUIREMENT

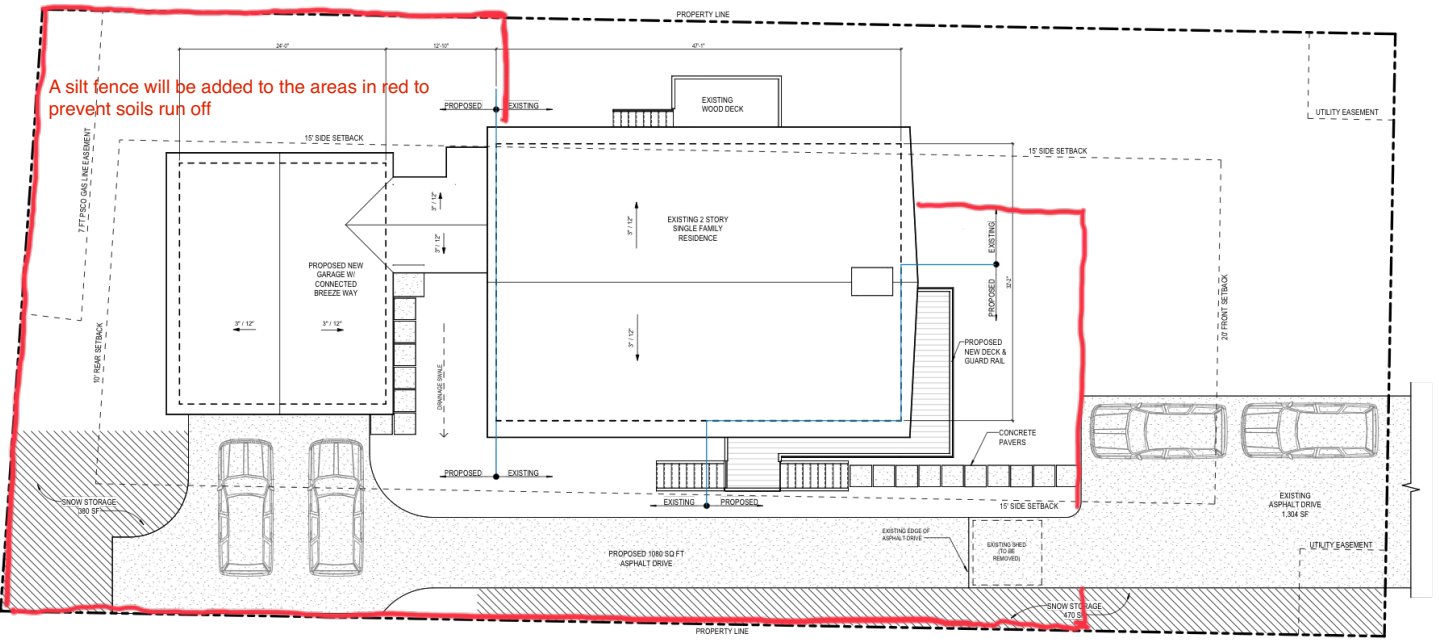
PAVED SURFACE (NEW)	1,080 SF
SNOW STORAGE PROVIDED (NEW)	360 SF
SNOW STORAGE REQUIRED (100SF PER 350 SF)	309 SF

EXISTING

PAVED SURFACE (EXISTING)	1,304 SF
SNOW STORAGE PROVIDED	470 SF
SNOW STORAGE REQUIRED (100SF PER 350 SF)	373 SF

LOT COVERAGE

LOT AREA	11,141 SF	100%
EXISTING PAVED AREA	1,3040 SF	12%
EXISTING BUILDING	1,512 SF	14%
PROPOSED ASPHALT DRIVE	1,080 SF	10%
PROPOSED GARAGE & BREEZEWAY	769 SF	7%
TOTAL PROPOSED BULDING FOOTPRINT	309 SF	42%



1 SITE PLAN - PROPOSED
SCALE: 3/16" = 1'-0"

PODIUM
ARCHITECTURE & DESIGN GROUP
PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE, ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM

CLIENT:
NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUE/ REVISION:
PERMIT SET — 04 MAY 2026

PROJECT NAME & ADDRESS:
104 ALPINE DRIVE
ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

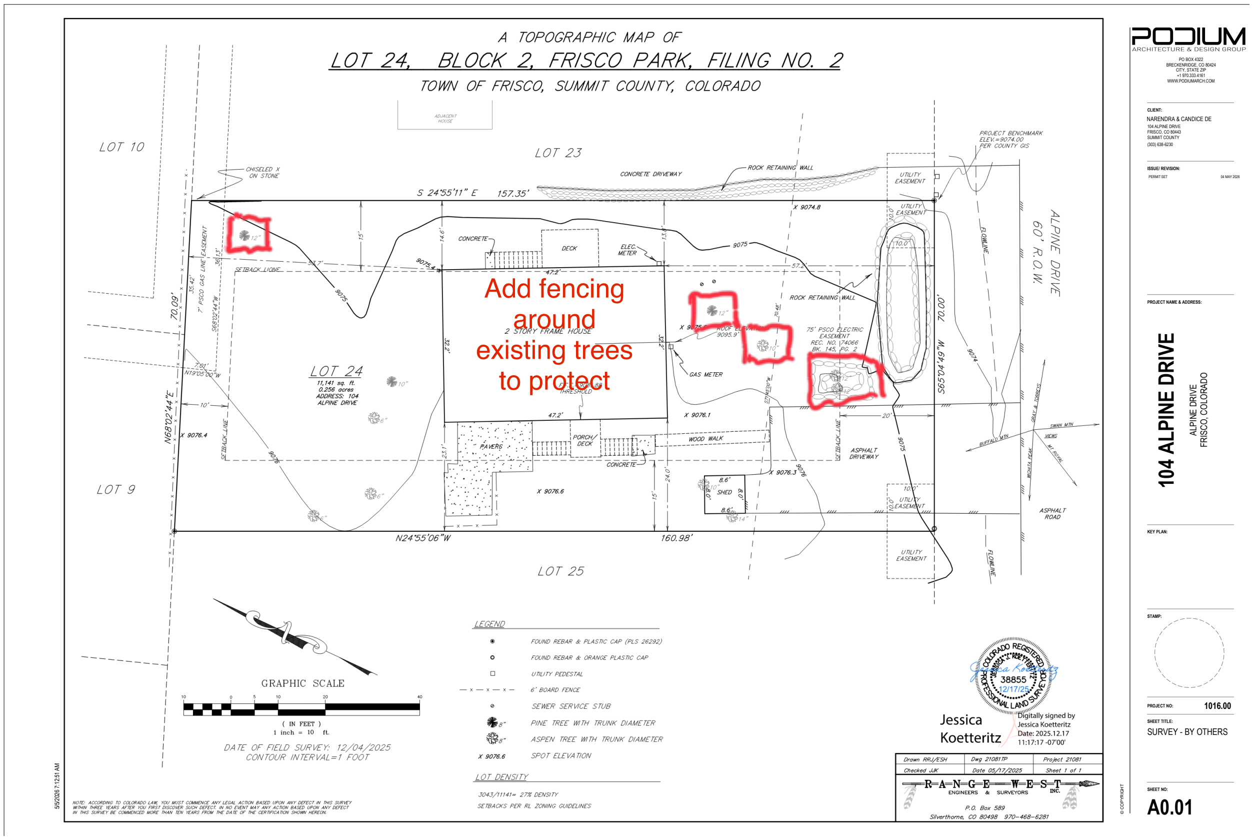
STAMP:

PROJECT NO: 1016.00

SHEET TITLE:
OVERALL SITE PLAN - PROPOSED

SHEET NO:
A0.03

5/5/2026 7:17:52 AM


A TOPOGRAPHIC MAP OF
LOT 24, BLOCK 2, FRISCO PARK, FILING NO. 2
TOWN OF FRISCO, SUMMIT COUNTY, COLORADO
LOT 10
LOT 23
LOT 9
LOT 25
LOT 24
11,141 sq. ft.
0.256 acres
ADDRESS: 104
ALPINE DRIVE
CHISELED X ON STONE
CONCRETE DRIVEWAY
ROCK RETAINING WALL
S 24°55'11" E 157.35'
N24°55'06"W 160.98'
70.09'
70.00'
N68°02'44"E
S65°04'49"W
7' PSCO GAS LINE EASEMENT
SETBACK LIONE
CONCRETE
DECK
ELEC. METER
2 STORY FRAME HOUSE
GAS METER
75' PSCO ELECTRIC EASEMENT REC. NO. 74066 BK. 145, PG. 2
UTILITY EASEMENT
PROJECT BENCHMARK ELEV.=9074.00 PER COUNTY GIS
ALPINE DRIVE
60' R.O.W.
FLOWLINE
ASPHALT DRIVEWAY
ASPHALT ROAD
PAVERS
PORCH/ DECK
WOOD WALK
SHED
X 9074.8
X 9076.1
X 9076.3
X 9076.4
X 9076.6
Add fencing around existing trees to protect
GRAPHIC SCALE
(IN FEET)
1 inch = 10 ft.
DATE OF FIELD SURVEY: 12/04/2025
CONTOUR INTERVAL=1 FOOT
NOTE: ACCORDING TO COLORADO LAW, YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.
LEGEND
FOUND REBAR & PLASTIC CAP (PLS 26292)
FOUND REBAR & ORANGE PLASTIC CAP
UTILITY PEDESTAL
6' BOARD FENCE
SEWER SERVICE STUB
PINE TREE WITH TRUNK DIAMETER
ASPEN TREE WITH TRUNK DIAMETER
X 9076.6 SPOT ELEVATION
LOT DENSITY
3043/11141= 27% DENSITY
SETBACKS PER RL ZONING GUIDELINES
COLORADO REGISTERED PROFESSIONAL LAND SURVEYOR
38855
12/17/25
Jessica Koetteritz
Digitally signed by Jessica Koetteritz
Date: 2025.12.17 11:17:17 -07'00'
Drawn RRJ/ESH
Dwg 21081TP
Project 21081
Checked JJK
Date 05/17/2025
Sheet 1 of 1
RANGE WEST INC.
ENGINEERS & SURVEYORS
P.O. Box 589
Silverthorne, CO 80498 970-468-6281
5/5/2026 7:12:51 AM
PODIUM
ARCHITECTURE & DESIGN GROUP
PO BOX 4322
BRECKENRIDGE, CO 80424
CITY, STATE ZIP
+1 970.333.4161
WWW.PODIUMARCH.COM
CLIENT:
NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230
ISSUE/ REVISION:
PERMIT SET
04 MAY 2026
PROJECT NAME & ADDRESS:
104 ALPINE DRIVE
ALPINE DRIVE
FRISCO, COLORADO
KEY PLAN:
STAMP:
PROJECT NO: 1016.00
SHEET TITLE:
SURVEY - BY OTHERS
SHEET NO:
A0.01
© COPYRIGHT

EXTERIOR LIGHT FIXTURE

POGGINI EURO ENTRIES 5 1/2" HIGH BLACK MODERN LED OUTDOOR WALL LIGHT

6" WIDE X 5 1/2" HIGH, EXTENDS 6" FROM THE WALL.

DARK SKY COMPLIANT - LED

SNOW STORAGE REQUIREMENT

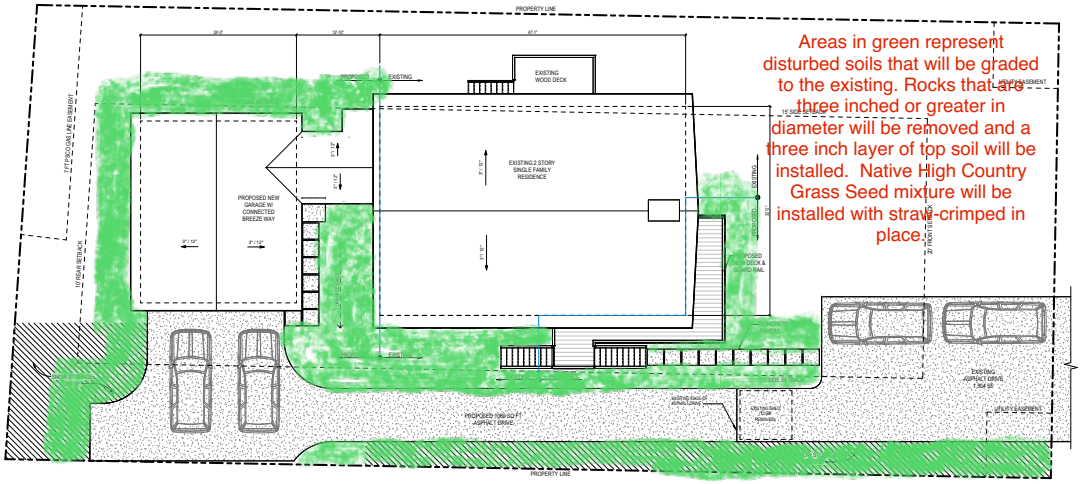
PAVED SURFACE (NEW)	1,080 SF
SNOW STORAGE PROVIDED (NEW)	360 SF
SNOW STORAGE REQUIRED (1/3SF PER 3SF SF)	359 SF

EXISTING

PAVED SURFACE (EXISTING)	1,304 SF
SNOW STORAGE PROVIDED	470 SF
SNOW STORAGE REQUIRED (1/3SF PER 3SF SF)	372 SF

LOT COVERAGE

LOT AREA	11,141 SF	100%
EXISTING PAVED AREA	1,3045 SF	12%
EXISTING BUILDING	1,572 SF	14%
PROPOSED ASPHALT DRIVE	1,080 SF	10%
PROPOSED GARAGE & BREEZEWAY	768 SF	7%
TOTAL PROPOSED BUILDING FOOTPRINT	3381 SF	43%



Areas in green represent disturbed soils that will be graded to the existing. Rocks that are three inched or greater in diameter will be removed and a three inch layer of top soil will be installed. Native High Country Grass Seed mixture will be installed with straw-crimped in place.

1 SITE PLAN - PROPOSED
SCALE: 1/16" = 1'-0"

PODIUM
ARCHITECTURE & DESIGN GROUP
PO BOX 4333
BRECKENRIDGE, CO 80424
CITY, STATE, ZIP
+1 970.333.4161
WWW.PODIUMDESIGN.COM

CLIENT:
NARENDRA & CANDICE DE
104 ALPINE DRIVE
FRISCO, CO 80443
SUMMIT COUNTY
(303) 638-6230

ISSUED/ REVISION:
PERMIT SET — 09 MAY 2026

PROJECT NAME & ADDRESS:
104 ALPINE DRIVE
ALPINE DRIVE
FRISCO, COLORADO

KEY PLAN:

STAMP:

PROJECT NO: 1016.00

SHEET TITLE:
OVERALL SITE PLAN - PROPOSED

SHEET NO:
A0.03

5/13/2026 7:12:52 AM

METAL WALL PANELS, CEILINGS, FASCIA, AND SOFFITS

T-Groove®-2.0 is a one inch deep metal wall panel that has concealed fasteners. The "2.0" stands for 2" reveal which means there's there's a 2" gap between the panel side laps. The reveal gives the panels depth and it looks similar to board and batten panels.

T-Groove® - 2.0

Dimensions

DOWNLOAD DIMENSIONS

Part No.: TG12-2	Part No.: TG14-2
• **Face:** 12" • **Reveal:** 2" • **Coverage:** 14"	• **Face:** 14" • **Reveal:** 2" • **Coverage:** 16"
Part No.: TG16-2	**Part No.: TG18-2**
• **Face:** 16" • **Reveal:** 2" • **Coverage:** 18"	• **Face:** 18" • **Reveal:** 2" • **Coverage:** 20"

Product Data

Material Type:
T-Groove® - 2.0
Metal Fascia, Soffit, And Wall Panel

Available Gauges: 22, 24

Fastening Type: Concealed

Overall Coverage: 12"-20”

Standard Face Sizes: 12", 14", 16", 18”, 20"

Custom Face Sizes: 13", 15", 17", 19”

Panel Length: 1' to 45' max

Reveal: 2"

Rib Height: 1"

Substrate: AZ50 Minimum (AKA Galvalume®/Zincalume®)

Stiffening Ribs or Pencil Ribs: Available Upon Request

Single or Double Vent Strips: Available Upon Request

Product Documents

- Trim And Flashings
- 3D Textures/E-Samples
- Installation Guide
- CAD Details
- Panel Sizes/Line Drawings
- Care & Maintenance
- Field Cutting & Touch Up Paint
- Paint Warranties
- Product Data Sheets
- Product Specifications
- Solar Reflectivity Index
- Stiffening Ribs & Vent Strips
- Accessories

SCROLL TO TOP

Paint Warranties

Standard Colors (PVDF)

Colors represented on this chart may not exactly match actual material. All colors should be verified using actual metal samples.

† This material is batch sensitive and directional. Do not mix batches or coil lots. Premium color. Slightly higher prices.

Click the dropdown menu to explore more color options for this panel type.

Standard Colors (PVDF)

DOWNLOAD COLOR CARD

SCROLL TO TOP

LP SmartSide®
TRIM & SIDING

540 Series Trim - Cedar Texture

1" Nominal Thickness
Primed: 2" | 3" | 4" | 6" | 8" | 10" | 12"

TRIM

Cedar Texture

Products:

LP® SmartSide® 540 Series Trim
LP® SmartSide® ExpertFinish® 540 Series Trim

DESIGNED & RATED FOR EXTERIOR USE

Cedar Texture

Substrate:

- Features engineered wood strand technology with precisely-sized, shaped, and layered wood strands from Aspen logs
- Made using LP's proprietary SmartGuard® process, which includes industrial-grade resins, water-resistant waxes, zinc borate, and a resin-saturated overlay

TREATED WITH SMART GUARD ZINC BORATE-BASED PROCESS

Application Instructions:

LPCorp.com/Literature

Sustainability Info:

- ASTM-Verified Carbon Negative
- Made with wood, a renewable resource, vetted through strict Sustainable Forestry Initiative® (SFI®) standards

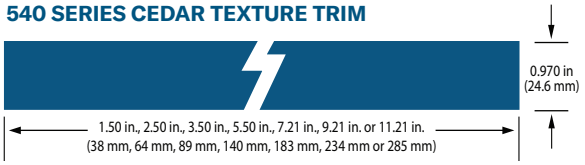
SUSTAINABLE FORESTRY INITIATIVE
SFI-00003

LP® SmartSide®
5/50 YEAR PRORATED LIMITED WARRANTY

LP® SmartSide® ExpertFinish®
5/15/50 YEAR PRORATED LIMITED WARRANTY

Primed Specifications and PIDs:

540 SERIES CEDAR TEXTURE TRIM



PRODUCT	LENGTH	ACTUAL WIDTH	THICKNESS	WEIGHT	PID
540 Series Cedar Texture Trim	16 ft. (192 in.) (4.9 m)	1.50 in. (38 mm)	0.970 in. (24.6 mm)	3 PSF	25886*
	16 ft. (192 in.) (4.9 m)	2.50 in. (64 mm)	0.970 in. (24.6 mm)	3 PSF	25887*
	16 ft. (192 in.) (4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	3 PSF	25888
	16 ft. (192 in.) (4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	3 PSF	25890
	16 ft. (192 in.) (4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	3 PSF	25891
	16 ft. (192 in.) (4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	3 PSF	25892
	16 ft. (192 in.) (4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	3 PSF	25893

*Special order item; Requires minimum quantity and extended lead times.
See LPCorp.com for product, warranty, and installation details. Metric units are rounded. PSF = Pounds Per Square Foot

LP SmartSide®
ExpertFinish® TRIM & SIDING

540 Series Trim - Cedar Texture

1" Nominal Thickness
Prefinished: Varies by color

ExpertFinish® Color Specifications and PIDs:

COLOR	LENGTH	THICKNESS	WEIGHT
All colors	16 ft. (192 in.) (4.9 m)	0.970 in. (24.6 mm)	3 PSF

COLOR	ACTUAL WIDTH	PID
Snowscape White	3.50 in. (89 mm)	42312
	5.50 in. (140 mm)	42316
	7.21 in. (183 mm)	46316
	9.21 in. (234 mm)	46332
	11.21 in. (285 mm)	46348
Sand Dunes	3.50 in. (89 mm)	46283
	5.50 in. (140 mm)	46299
	7.21 in. (183 mm)	46315
	9.21 in. (234 mm)	46331
	11.21 in. (285 mm)	46347
Desert Stone	3.50 in. (89 mm)	46275
	5.50 in. (140 mm)	46291
	7.21 in. (183 mm)	46307
	9.21 in. (234 mm)	46323
	11.21 in. (285 mm)	46339
Quarry Gray	3.50 in. (89 mm)	46280
	5.50 in. (140 mm)	46296
	7.21 in. (183 mm)	46312
	9.21 in. (234 mm)	46328
	11.21 in. (285 mm)	46344
Prairie Clay	3.50 in. (89 mm)	46279
	5.50 in. (140 mm)	46295
	7.21 in. (183 mm)	46311
	9.21 in. (234 mm)	46327
	11.21 in. (285 mm)	46343
Terra Brown	3.50 in. (89 mm)	46286
	5.50 in. (140 mm)	46302
	7.21 in. (183 mm)	46318
	9.21 in. (234 mm)	46334
	11.21 in. (285 mm)	46350
Harvest Honey	3.50 in. (89 mm)	46277
	5.50 in. (140 mm)	46293
	7.21 in. (183 mm)	46309
	9.21 in. (234 mm)	46325
	11.21 in. (285 mm)	46341
Timberland Suede	3.50 in. (89 mm)	46287
	5.50 in. (140 mm)	46303
	7.21 in. (183 mm)	46319
	9.21 in. (234 mm)	46335
	11.21 in. (285 mm)	46351
Garden Sage	3.50 in. (89 mm)	46276
	5.50 in. (140 mm)	46292
	7.21 in. (183 mm)	46308
	9.21 in. (234 mm)	46324
	11.21 in. (285 mm)	46340

COLOR	ACTUAL WIDTH	PID
Redwood Red	3.50 in. (89 mm)	46282
	5.50 in. (140 mm)	46298
	7.21 in. (183 mm)	46314
	9.21 in. (234 mm)	46330
	11.21 in. (285 mm)	46346
Tundra Gray	3.50 in. (89 mm)	46288
	5.50 in. (140 mm)	46304
	7.21 in. (183 mm)	46320
	9.21 in. (234 mm)	46336
	11.21 in. (285 mm)	46352
Summit Blue	3.50 in. (89 mm)	46285
	5.50 in. (140 mm)	46301
	7.21 in. (183 mm)	46317
	9.21 in. (234 mm)	46333
	11.21 in. (285 mm)	46349
Rapids Blue	3.50 in. (89 mm)	46281
	5.50 in. (140 mm)	46297
	7.21 in. (183 mm)	46313
	9.21 in. (234 mm)	46329
	11.21 in. (285 mm)	46345
Cavern Steel	3.50 in. (89 mm)	46274
	5.50 in. (140 mm)	46290
	7.21 in. (183 mm)	46306
	9.21 in. (234 mm)	46322
	11.21 in. (285 mm)	46338
Midnight Shadow	3.50 in. (89 mm)	46278
	5.50 in. (140 mm)	46294
	7.21 in. (183 mm)	46310
	9.21 in. (234 mm)	46326
	11.21 in. (285 mm)	46342
Abyss Black	3.50 in. (89 mm)	46273
	5.50 in. (140 mm)	46289
	7.21 in. (183 mm)	46305
	9.21 in. (234 mm)	46321
	11.21 in. (285 mm)	46337
NEW NATURALS COLLECTION™ TRIM		
Washed White	3.50 in. (89 mm)	46803
	5.50 in. (140 mm)	46827
Smoky Slate	3.50 in. (89 mm)	46801
	5.50 in. (140 mm)	46825
Bonsai Black	3.50 in. (89 mm)	46799
	5.50 in. (140 mm)	46823
Weathered Walnut	3.50 in. (89 mm)	46797
	5.50 in. (140 mm)	46821
Aged Amber	3.50 in. (89 mm)	46795
	5.50 in. (140 mm)	46819
Saffron Cedar	3.50 in. (89 mm)	46793
	5.50 in. (140 mm)	46817

See LPCorp.com for product, warranty, and installation details. Metric units are rounded. PSF = Pounds Per Square Foot
Contact your LP Sales Rep for product availability.
All colors shown are representative and may not be an exact match.

For more information, contact your LP Sales Rep or visit LPCorp.com

LP SmartSide®
TRIM & SIDING

Nickel Gap Siding - Cedar Texture

1/2" Nominal Thickness
Primed & Prefinished: 8"

NICKEL GAP SIDING

Cedar Texture

Profile allows for "nickel-sized" horizontal spacing between boards, accommodating a gap range of 1/16" to 1/8" after installation.

Products:

LP® SmartSide® Nickel Gap Siding
LP® SmartSide® ExpertFinish® Nickel Gap Siding

DESIGNED & RATED FOR EXTERIOR USE

May be attached direct to studs; see application instructions for fastening and installation requirements

Substrate:

- Features engineered wood strand technology with precisely-sized, shaped, and layered wood strands from Aspen logs
- Made using LP's proprietary SmartGuard® process, which includes industrial-grade resins, water-resistant waxes, zinc borate, and a resin-saturated overlay

TREATED WITH SMART GUARD ZINC BORATE-BASED PROCESS

Application Instructions:

LPCorp.com/Literature

LP® SmartSide® 5/50 YEAR PRORATED LIMITED WARRANTY

LP® SmartSide® ExpertFinish® 5/15/50 YEAR PRORATED LIMITED WARRANTY

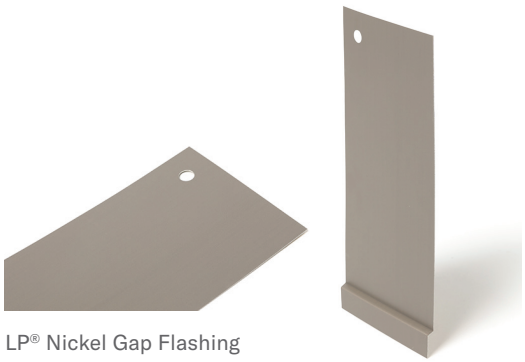
Sustainability Info:

- Made with wood, a renewable resource, vetted through strict Sustainable Forestry Initiative® (SFI®) standards

SUSTAINABLE FORESTRY INITIATIVE
SFI-00003

Additional Info:

- Tongue-and-groove design allows for siding to be stacked and tapped into place for easy installation
- Features include a nominal 1/2" thickness and 7" reveal
- Can be installed vertically or horizontally
- Install with LP® Nickel Gap Flashing (100 pcs/box; only available in primed) or comparable alternative to support a complete system



LP® Nickel Gap Flashing

Innovative Design

LP® SmartSide® Nickel Gap Siding features locking flanges with a fastener groove that hides nails.

Primed Specifications and PIDs:

LP SmartSide® TRIM & SIDING

PRODUCT	LENGTH	ACTUAL WIDTH	THICKNESS	MAX SPAN RATING	WEIGHT	PID
Cedar Texture Nickel Gap Siding	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	45545

ExpertFinish® Color Specifications and PIDs:

LP SmartSide® ExpertFinish® TRIM & SIDING

COLOR	LENGTH	ACTUAL WIDTH	THICKNESS	MAX SPAN RATING	WEIGHT	PID
Snowscape White	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46558
Sand Dunes	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46557
Desert Stone	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46549
Quarry Gray	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46554
Prairie Clay	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46553
Terra Brown	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46560
Harvest Honey	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46551
Timberland Suede	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46561
Garden Sage	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46550
Redwood Red	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46556
Tundra Gray	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46562
Summit Blue	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46559
Rapids Blue	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46555
Cavern Steel	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46548
Midnight Shadow	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46552
Abyss Black	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46547
Washed White	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46755
Smoky Slate	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46753
Bonsai Black	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46751
Weathered Walnut	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46749
Aged Amber	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46747
Saffron Cedar	16 ft. (192 in.) (4.9 m)	7.88 in (200 mm)	0.495 in. (12.6 mm)	24 in.	1.5 PSF	46745

NEW NATURALS COLLECTION™ NICKEL GAP SIDING

PRODUCT	LENGTH	ACTUAL WIDTH	THICKNESS	WEIGHT	PID
LP® Nickel Gap Flashing	10 in. (254 mm)	4 in. (101.6 mm)	0.024 in. (0.61 mm)	9.4 LBS 100 pcs/box	46180

See LPCorp.com for product, warranty, and installation details. Metric units are rounded. PSF = Pounds Per Square Foot
Contact your LP Sales Rep for product availability.
All colors shown are representative and may not be an exact match.

For more information, contact your LP Sales Rep or visit LPCorp.com

OAKRIDGE®

Shingles | Tejas

Brownwood[1]

STREAKGUARD® ALGAE PROTECTION

MORE THAN JUST A ROOF®
IT'S PROTECTION FOR YOUR HOME.

Your home is the center of your world—where your memories are made. And we see it as our job to make the world a better place. So, Owens Corning is relentless about reimagining and creating materials that help protect your biggest investment, your home.

When you choose Owens Corning® roofing products, you get products and systems that deliver a material difference—a difference that can be seen in the curb appeal of your roof and experienced through premium performance, protecting your home and family.

Our commitment to quality offers you peace of mind that your new roof will stand the test of time. At Owens Corning, we know that your roof does more than just cover your house, it helps protect your future memories.

PROUD TO BE CALLED THE BEST

For a decade, the Women's Choice Award has identified the best brands and companies, empowering women (and men!) to choose objectively evaluated products and services for themselves and their families. Owens Corning Roofing is proud to be named the Women's Choice Award as America's Most Recommended Roofing.

ES MUCHO MÁS QUE UN TECHO,™
ES PROTECCIÓN PARA SU HOGAR.

Su hogar es el centro de su mundo, el sitio donde nacen sus recuerdos. Nuestra tarea es hacer del mundo un lugar mejor. En Owens Corning no descansamos cuando se trata de redefinir y crear materiales que ayuden a proteger su inversión más importante: su hogar.

Al escoger productos para techos de Owens Corning®, usted recibe productos y sistemas que le ofrecen una diferencia sustancial, una diferencia que se ve en el aspecto espectacular del techo y que se siente mediante un desempeño superior que protege a su hogar y a su familia.

Nuestro compromiso con la calidad le da la tranquilidad de que su nuevo techo resistirá las pruebas del tiempo. En Owens Corning sabemos que su techo no solo cubre su casa, sino que también ayuda a resguardar sus recuerdos para el futuro.

ORGULLOSO DE NOS LLAMEN EL MEJOR

Durante una década, el Women's Choice Award ha identificado a las mejores marcas y compañías para que las mujeres (¡y los hombres!) puedan escoger para sí mismas y para sus familias productos y servicios que fueron evaluados concienzudamente. Owens Corning Roofing se enorgullece de haber recibido el Women's Choice Award como el Techo Más Recomendad de Estados Unidos.

Desert Tan[1]

HIGH PERFORMANCE
WITH BEAUTY TO MATCH

Oakridge® laminated shingles provide premium protection and impressive curb appeal. A full double layer in the nailing zone gives Oakridge® Shingles greater integrity and better holding power compared to shingles with single-layer nail zones. And the warm, inviting look in popular colors provides a step-up from traditional three-tab shingles.

Oakridge® Shingles are The Right Choice® for long-lasting performance and striking beauty.

Oakridge® Shingles offer:

- Limited Lifetime Warranty*/‡ (for as long as you own your home)
- 110/130 MPH Wind Resistance Limited Warranty*‡‡
- StreakGuard® Protection with a 25-year Algae Resistance Limited Warranty.[3/§]

STREAKGUARD® ALGAE PROTECTION

Don't let black streaks lower the value or curb appeal of your home.
Owens Corning blends specialized copper-lined granules, developed by 3M, a leading producer of roofing granules, into our colorful shingles. This helps resist blue-green algae growth.


Onyx Black[1]

DESEMPEÑO ELEVADO
Y ASPECTO SIN IGUAL

Las tejas laminadas Oakridge® proveen una protección superior y un aspecto espectacular. Una doble capa integral en el área de clavado provee a las tejas Oakridge® de mayor integridad y mejor poder de agarre respecto de las tejas con zonas de clavado de una sola capa. Además, el cálido y atractivo aspecto en una gama de colores populares añade un toque de elegancia respecto de las tejas comunes de tres lengüetas.

Las tejas Oakridge® son The Right Choice® para lograr un desempeño duradero y un aspecto espectacular.

Las tejas Oakridge® ofrecen:

- Garantía limitada de por vida*[/‡] (mientras sea propietario de la vivienda)
- Garantía limitada de resistencia al viento*[‡‡] de 177/209 km/h (110/130 mph)
- Protección StreakGuard® con una garantía limitada de 25 años de resistencia a las algas.[3/§]

No deje que las manchas de algas afecten el valor o aspecto de su vivienda.
En sus coloridas tejas, Owens Corning añade gránulos especiales con recubrimiento de cobre, desarrollados por 3M, un productor líder de gránulos para techos. Esto ayuda a prevenir la proliferación de algas azul-verdosas.

OAKRIDGE®

Shingles | Tejas

Black Walnut[1]

Brownwood[1]

Desert Tan[1]

Driftwood[1]

Estate Gray[1]

Onyx Black[1]

Sierra Gray[1]

Not available in Service Area 11 | No se puede obtener en el área de distribución 11

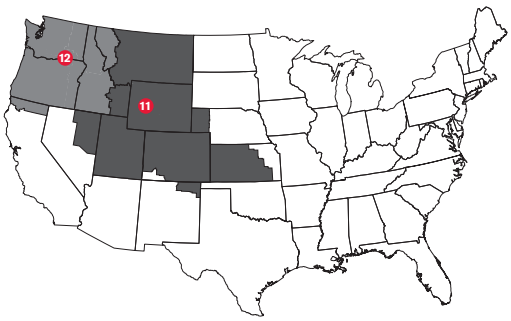
Teak[1]

Twilight Black[1]

Not available in Service Area 11 | No se puede obtener en el área de distribución 11

COLOR AVAILABILITY MAP

Disponibilidad de colores por zonas/región



THE FINISHING TOUCH

OWENS CORNING® HIP & RIDGE SHINGLES

Owens Corning® Hip & Ridge Shingles are uniquely color matched to Oakridge® Shingles. The multiple color blends are only available from Owens Corning® Roofing and offer a finished look for the roof.

EL TOQUE FINAL

TEJAS DE LIMATESA Y CUMBRERA DE OWENS CORNING®

Las tejas de limatesa y cumbrera de Owens Corning® se ofrecen en una exclusiva gama de colores para combinar con las tejas Oakridge®. Esta gran variedad de combinaciones de colores es una exclusividad de Owens Corning® Roofing para lograr techos con un acabado único.

COLOR DISCLAIMER

As color experts, we know getting the shingle color right is a big part of any roofing purchase. Due to printing color variations, in addition to viewing shingle literature, we suggest you request an actual shingle sample to see how it will appear on your home and with your home's exterior elements in various natural lighting conditions. Lastly, we recommend you verify your color choice by seeing it installed on an actual home; your roofing contractor or supplier can provide a sample and may be able to direct you to a local installation.

DESCARGO DE RESPONSABILIDAD SOBRE LOS COLORES

En tanto que especialistas en color, sabemos que obtener el color de teja perfecto es una parte importante en toda compra de techos. Debido a las variaciones en los colores impresos, además de mirar folletos de tejas, le sugerimos que solicite una muestra de la teja para ver como se verá en su hogar y con los elementos externos de la vivienda bajo distintas condiciones de luz natural. Finalmente, le recomendamos que para verificar su elección de colores, vea cómo lucen las tejas ya instaladas en una vivienda; su contratista de techos o su proveedor le pueden dar una muestra e incluso indicarle dónde ver un techo ya instalado.

PREMIUM PROTECTION

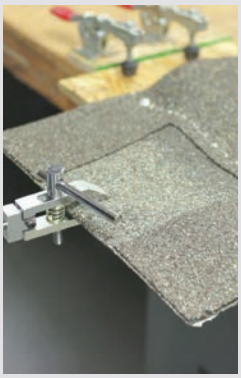
OAKRIDGE® SHINGLES

with a full common bond nail zone for Double Layer Protection

THE PROOF IS IN THE PERFORMANCE

Proven performance is what truly sets Owens Corning® architectural shingles above the rest. We brought our Oakridge® Shingles into the lab to test their performance against the two top competing wide, single-layer nailing zone shingles in three major tests. And in each test, the full double layer protection of Oakridge® Shingles outperformed the competition where it matters most—the nailing zone.

Oakridge Shingles vs. top two competitors†



NAIL PULL-THROUGH RESISTANCE

Up to

2X

BETTER

NAIL BLOW-THROUGH RESISTANCE

Up to

7X

BETTER

DELAMINATION RESISTANCE

Up to

1.5X

BETTER

PROTECIÓN PREMIUM

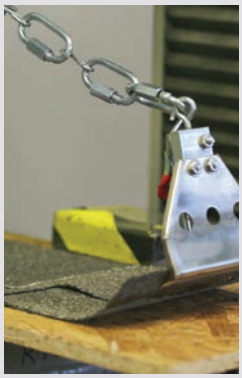
TEJAS OAKRIDGE®

con una zona de clavado de adhesión común total para una protección de dos capas

LA PRUEBA ESTÁ EN EL DESEMPEÑO

Su desempeño comprobado ubica a las tejas arquitectónicas de Owens Corning® por encima de la competencia. Llevamos las tejas Oakridge® al laboratorio para comparar su desempeño en tres puntos principales respecto de las dos mejores tejas con zonas de clavado ancho de una sola capa de la competencia. En cada prueba, la protección de las dos capas completas de la Tejas Oakridge® superó a la competencia en donde importa más: en la zona de clavado.

Las tejas de la serie Oakridge® vs dos de sus competidoras principales†



RESISTENCIA A LA TRACCIÓN DE LOS CLAVOS

Hasta

2

VECES MEJOR

RESISTENCIA AL DESPRENDIMIENTO DE LOS CLAVOS

Hasta

7

VECES MEJOR

RESISTENCIA A LA DELAMINACIÓN

Hasta

1.5

VECES MEJOR

REGISTER YOUR WARRANTY

Registering your Owens Corning® warranty ensures it's easily referenced should you ever need to access it. The process is easy—just have your installation date, shingle type, shingle color and number of squares ready. Then go online to www.owenscorning.com/roofingstandardwarranty or call 1-800-ROOFING (1-800-766-3464) to finish the process.

SCAN TO REGISTER YOUR WARRANTY

Escanee para registrar su garantía

REGISTRE SU GARANTÍA

Al registrar su garantía de Owens Corning® la podrá consultar rápidamente si fuera necesario acceder a ella. El proceso es simple: tenga a mano la fecha de instalación, el tipo y color de tejas y la cantidad de cuadrados. Luego, visite owenscorning.com/roofingstandardwarranty o llame al 1-800-ROOFING (1-800-766-3464) para completar el proceso.

TOTAL PROTECTION SIMPLIFIED®

It takes more than just shingles to protect a home. It takes an integrated system of components and layers designed to perform in three critical areas. The Owens Corning® Total Protection Roofing System®^ gives you the assurance that all of your Owens Corning® roofing components are working together to help increase the performance of your roof.

PROTECCIÓN TOTAL SIMPLIFICADA®

Se necesita más que simplemente tejas para proteger su vivienda. Se necesita un sistema integral de componentes y capas diseñadas para desempeñarse en tres áreas críticas. El Total Protection Roofing System® de Owens Corning® le garantiza que todos sus componentes para cubiertas de Owens Corning® funcionan en conjunto para mejorar el desempeño de su techo.

SEAL.

Helps create a waterproof barrier

Ayuda a crear una barrera impermeable

DEFEND.

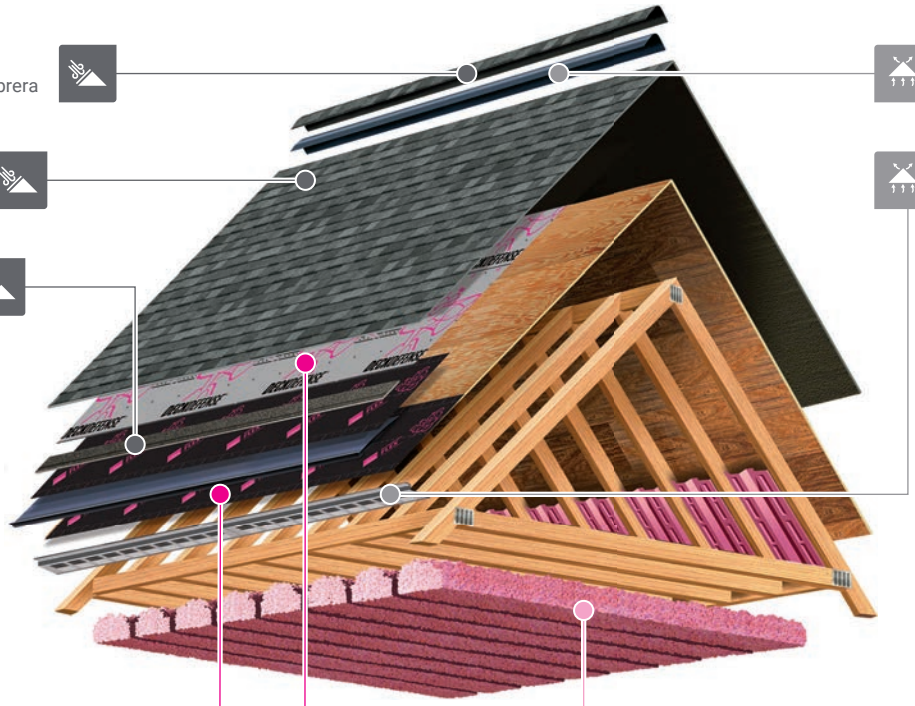
Helps protect against nature's elements

Protege contra los elementos climáticos

BREATHE.

For balanced attic ventilation

Para una ventilación equilibrada del ático



Hip & Ridge shingles
Tejas de limatesa y cumbrera

Laminate shingles
Tejas laminadas

Starter shingles
Tejas de arranque

Exhaust vents
Salidas de aire

Intake vents
Entradas de aire

Self-adhered ice & water barrier
Barrera autoadhesiva contra el hielo y el agua

Synthetic underlayment
Membrana impermeabilizante sintética

+ COMFORT.

Add comfort and energy performance
Más confort y desempeño energético

PINK® Fiberglas™ blown-in attic insulation
Aislamiento para áticos PINK® Fiberglas™ aplicado por impulsión

Product Attributes

STREAKGUARD ALGAE PROTECTION

Algae resistance available in areas shown in white.

Warranty Length*

Limited Lifetime‡
(for as long as you own your home)

Wind Resistance Limited Warranty*

110/130 MPH‡‡

Algae Resistance Limited Warranty*/§

25 Years

TRU PROtection® Non-Prorated Limited Warranty* Period

10 Years

Product Specifications

Size	13¼" x 39⅜"
Application Exposure	5⅝"
Shingles per Bundle	Not less than 20
Average Shingle Count per 3 Bundles	64
Average Coverage per 3 Bundles	98.4 sq. ft.

Applicable Standards and Codes

- ASTM D3462
- ASTM D228
- ASTM D3018 (Type 1)
- ICC-ES AC438#
- ASTM D3161 (Class F Wind Resistance)
- ASTM D7158 (Class H Wind Resistance)
- ASTM E108/UL 790 (Class A Fire Resistance)
- PRI ER 1378E01

Características del producto

STREAKGUARD ALGAE PROTECTION

Las tejas resistentes a las algas están disponibles en las áreas marcadas en blanco.

Período de garantía*

Garantía limitada de por vida‡
(mientras sea propietario de la vivienda)

Garantía limitada de resistencia al viento*

177-209 km/h (110-130 mph)‡‡

Garantía limitada de resistencia a las algas*/§

25 años

Período no prorrateado de garantía limitada* TRU PROtection®

10 años

Especificaciones del producto

Tamaño	33.65 cm x 100 cm (13¼pulg x 39⅜pulg)
Exposición de aplicación	14.3 cm (5⅝pulg)
Tejas por paquete	20 tejas como mínimo
Cantidad promedio de tejas por 3 paquetes	64
Cobertura promedio por 3 paquetes	9.14 m² (98.4 pies²)

Normas y códigos pertinentes

- ASTM D3462
- ASTM D228
- ASTM D3018 (Tipo 1)
- ICC-ES AC438#
- ASTM D3161 (Resistencia al viento, Clase F)
- ASTM D7158 (Resistencia al viento Clase H)
- ASTM E108/UL 790 (Resistencia al fuego Clase A)
- PRI ER 1378E01

* See actual warranty for complete details, limitations and requirements.

‡ 40-Year Limited Warranty on commercial projects.

‡‡ 110 MPH is standard with 4-nail application. 130 MPH is applicable only with 6-nail application and Owens Corning® Starter Shingle products application along eaves and rakes in accordance with installation instructions.

† Owens Corning testing against competing products with wide, single-layer nailing zones when following manufacturers' installation instructions and nailing in the middle of the allowable nailing zone.

International Code Council Evaluation Services Acceptance Criteria for Alternative Asphalt Shingles.

^ Excludes non-Owens Corning® roofing products such as flashing, fasteners, pipe boots and wood decking.

1 See Color Disclaimer information on page 7 for additional details.

3 Shingles are algae resistant to control the growth of algae and discoloration.

§ This coverage is effective 1/1/2023; Installation must include use of an Owens Corning® Hip & Ridge product. See actual warranty for details.

StreakGuard® Algae Resistance Technology is not available in the Compton and Denver service area.

For Patent information, please visit owenscorning.com/patents.

* Consulte la garantía para obtener una lista completa de detalles, limitaciones y requisitos.

‡ Garantía limitada de 40 años para proyectos comerciales.

‡‡ La velocidad de 177 km/h (110 mph) es estándar con la aplicación de 4 clavos. La velocidad de 209 km/h (130 mph) solo se aplica cuando se usan 6 clavos y tejas de hilada inicial de Owens Corning® a lo largo de aleros y cornisas de acuerdo con las instrucciones de instalación.

† Ensayos comparativos de Owens Corning con productos de la competencia con zonas de clavado ancho de una sola capa cuando se siguen las instrucciones de instalación del fabricante y se clava en el medio de la zona de clavado permitida.

Criterios de aceptación de los servicios de evaluación del Consejo Internacional de Códigos para tejas asfálticas alternativas.

^ Se excluyen productos para techos no fabricados por Owens Corning®, como tapajuntas, sujetadores, bases de tubos y estructuras de soporte de madera.

1 Para obtener más información, consulte el Descargo de responsabilidad sobre los colores, en la página 7.

3 Las tejas son resistentes a las algas para controlar su desarrollo y la decoloración.

§ Esta cobertura entra en vigor el 1 de enero de 2023; la instalación debe incluir el uso de un producto para limatesa y cumbrera de Owens Corning®.

La tecnología resistente a las algas StreakGuard® no está disponible en las áreas de distribución de Compton y Dénver.

Para información sobre la patente, visite www.owenscorning.com/patents.

OWENS CORNING ROOFING AND ASPHALT, LLC
ONE OWENS CORNING PARKWAY
TOLEDO, OH 43659 USA

1-800-GET-PINK® | 1-800-438-7465
www.owenscorning.com

Pub. No. 10024182-B. Printed in U.S.A. May 2023.

(Denver, Portland)

OWENS CORNING ROOFING AND ASPHALT, LLC
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO, EE.UU. 43659

1-800-GET-PINK® | 1-800-438-7465
www.owenscorning.com

Pub. N.º 10024182-B. Impreso en EE.UU. Mayo de 2023.

(Denver, Portland)

Pella® Impervia®

Fiberglass windows and patio doors

Exceptional durability

Achieve commercial grade strength and lasting durability for your customers' long-term return on investment.

- Our proprietary fiberglass is the strongest fiberglass material for windows and patio doors.[1]
- Our fiberglass has, on average, 1.8x the tensile strength of conventional fiberglass.[2]
- Powder-coat finish meets AAMA 624, a highly-rated fiberglass coating.
- The baked on powder-coat finish resists chalking and fading and is more durable than conventional paint.
- Added strength, durability and reliable water performance including a durable three-way corner joint.

Glazing flexibility

Pella Impervia products are available with a variety of glazing options.

- Optional sound control and triple glazing for casement, awning and direct set windows and sliding patio doors.
- Optional louvers and spandrel.
- Available in large sizes with sleek profiles and more glass.
- Available with extruded aluminum grilles that are adhered to both sides of the insulating glass to provide the look of an aluminum storefront with the energy efficiency of fiberglass.[3]

Engineered structure

We offer several engineered options so you can meet the unique needs of your project.

- Fully factory joined or factory prepared joining kits for full flexibility in design and jobsite coordination.
- Structured mulls for commercial buildings are verified through rigorous engineering evaluation and testing to ensure your products are built to last.
- The sliding patio door features the industry's lowest standard sill design with high performance.[4]
- Optional sill filler adapter enables ADA specifications to be met on Pella Impervia sliding patio doors by reducing the change in height of the sill and achieving the necessary slope requirements.

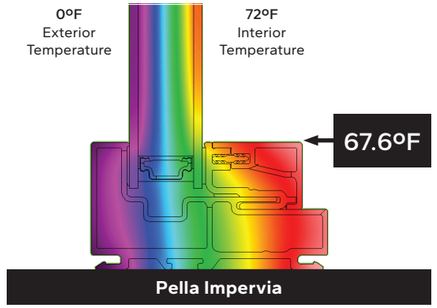
Available in these window and patio door styles:

Special shape windows also available.

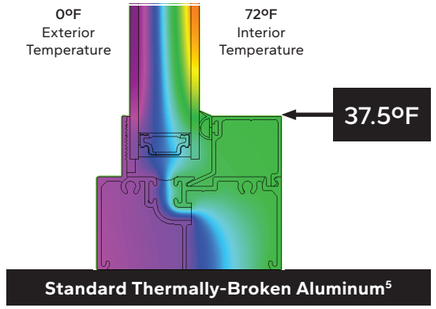
[1,2,3,4] See back cover for disclosures.

Pella® | Commercial

Pella® Impervia® vs. Aluminum



Fiberglass Insulated glazing unit: 1" Advanced Low-E, 3 mm/3 mm



Insulated glazing unit: 1" Advanced Low-E, 3 mm/3 mm

Commercial performance.
Engineered to meet the rigorous specification and performance requirements of a commercial building, Pella Impervia products provide outstanding resistance to water, wind and outside noises.[6] Pella Impervia windows and patio doors offer an incredible value for water and structural performance, energy efficiency and cost-effectiveness. Our engineers perform an engineering review of proposed windows and doors to verify performance requirements are met.

Commercial installation systems and support.
Our exclusive installation methods help save you time and reduce costly callbacks. From the latest construction trends in new buildings to existing buildings needing retrofits, we provide a comprehensive array of installation solutions and accessories to meet most low- to mid-rise commercial project requirements. And with our dedicated team of engineers, architects, drafters and installation experts, we are ready to collaborate with you, from initial concept to punch list.

Confidence of a strong warranty.[7]
We know your reputation matters and we're committed to doing things right – even if it means doing things a little differently. We stand behind our products with some of the strongest warranties in the business.

Product Specifications

Window & Patio Door Styles	Min. Width	Min. Height	Max. Width	Max. Height	Design Pressure	U-Factor	SHGC	HVHZ	FL #
Vent Awning	20"	17-1/2"	59-1/2"	59-1/2"	+50/-50	0.18-0.48	0.16-0.55	No	35281
Fixed Awning	13-1/2"	11-1/2"	71-1/2"	79-1/2"	+50/-50	0.16-0.49	0.18-0.63	No	35284
Vent Casement	17-1/2"	20"	37-1/2"[8]	79-1/2"	+50/-50	0.26-0.45	0.18-0.55	No	35278
Fixed Casement	13-1/2"	11-1/2"	71-1/2"	79-1/2"	+50/-50	0.22-0.48	0.20-0.62	No	35284
Vent Double-Hung	17-½"	29-½"	47-½"	77-½"	LC30-LC50	0.25-0.49	0.19-0.58	No	12600
Vent Single-Hung	17-½"	23-½"	47-½"	77-½"	LC40-LC50	0.24-0.51	0.19-0.59	No	12602
Sliding Window (OX, XO)	23-½"	11-½"	71-½"	71-½"	LC30-LC50	0.25-0.50	0.19-0.59	No	12604
Sliding Window (XOX)	47-½"	17-½"	107-½"	71-½"	LC30-LC50	0.25-0.50	0.19-0.59	No	12604
Fixed Frame Direct Set	11-1/2"	11-1/2"	143-1/2"	143-1/2"	+50/-55	0.14-0.46	0.18-0.69	No	26584
Sliding Patio Door (One Panel)	27"	71-1/2"	50.-5/8"	119-1/2"	+50/-50	0.17-0.48	0.19-0.59	No	39352
Sliding Patio Door (Two Panel)	59-1/4"	71-1/2"	95-1/4"	119-1/2"	+50/-50	0.17-0.48	0.19-0.59	No	39352
Sliding Patio Door (Three Panel)	91-7/8"	71-1/2"	145-7/8"	119-1/2"	+50/-50	0.17-0.48	0.19-0.59	No	39352

Window sizes available in 1/8" increments
Maximum square footage rules apply. Maximum width and height cannot exceed the maximum square footage. Special shapes available.
Two and three-panel sliding patio door configurations that are greater than or equal to 95.5" in height will come knock-down and require field assembly.
Knock-down will be optional for two and three-panel configurations until 95.5" in height.

5, 6, 7, 8 See back cover for disclosures.

Glass & Additional Energy Efficiency Upgrades

InsulShield® Low-E Glass[9]

Pella Impervia products offer energy-efficient options that will meet or exceed ENERGY STAR® guidelines in all 50 states.[10]

- Advanced Low-E insulating dual- or triple-pane glass with argon
- Advanced Comfort Low-E insulating dual-pane glass with argon
- Natural Sun Low-E insulating dual- or triple-pane glass with argon
- Natural Sun+ Low-E insulating dual-pane glass with argon
- SunDefense™ Low-E insulating dual- or triple-pane glass with argon
- SunDefense+™ Low-E insulating dual-pane glass with argon

Additional Glazing Options

- Clear insulating glass
- Tempered glass
- Tinted[11] or obscure glass
- STC (Sound Transmission Class) dual-pane and laminated (non-impact resistant) [12], sound control glass[13]
- Triple-pane[14]
- Insulated metal panels
- Louvers
- Spandrel glass
- Impact-resistant glass[8,15]

Foam Insulation Options

Optional foam-insulated frame and sash are available to increase energy efficiency.

Colors & Finishes

Frame Colors

Our long-lasting powder-coat finish resists chipping and fading and meets AAMA 624, which is a highly-rated fiberglass finish.

Solid-Color:

White | Brown | Black | Morning Sky Gray | Tan

Dual-Color:[16]

White Interior with Brown Exterior | White Interior with Black Exterior

Window Hardware

Casement & Awning

The Easy-Slide Operator is a patent-pending, revolutionary way to operate casement and awning windows. Simply slide to open, without the effort of cranking. With precision venting technology, the window will open to an exact location. Or select the fold-away crank, that folds neatly away, against the window frame. Neither solution will interfere with roomside window treatments.

Easy-Slide Operator | Fold-Away Crank

Color-Matched Finishes:

White | Brown | Matte Black | Morning Sky Gray | Tan

Additional Finish:[17]

Satin Nickel

Sliding, Single & Double-Hung

Pella's cam-action lock pulls the sashes against the weatherstripping for a tighter seal.

Cam-Action Lock

Color-Matched Finishes:

White | Brown | Matte Black | Morning Sky Gray | Tan

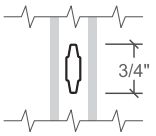
Additional Finish:

Satin Nickel

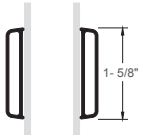
8, 9, 10, 11, 12, 13, 14, 15, 16, 17 See back cover for disclosures.

Grilles

Grilles are color-matched to window or patio door interior and exterior frame color.



Aluminum Grilles-Between-the-Glass ¾" [18]



Applied Grilles[19]

Patio Door Hardware

Sliding Patio Door

Elevate a home's style with sleek hardware selections.

Sliding Patio Door Handle

Color-Matched Finishes:

White

Brown

Matte Black

Morning Sky Gray

Tan

Additional Finish:

Satin Nickel

Secure Vent Lock

A secure vent lock comes standard on all Pella Impervia sliding doors and provides security in both the closed and venting positions. Secure vent lock is color-matched to the interior of the frame.

Secure Vent Lock

Color-Matched Finishes:

White

Brown

Matte Black

Morning Sky Gray

Tan

Patio Door Blinds

Blinds-Between-the-Glass[20]

Give your homeowners more privacy by adding blinds-between-the-glass. Located between panes of glass, blinds are protected from dust, dirt and damage.

White

Slate Gray

Espresso

NOTE: Product specifications may change without notice.
Actual colors may vary from those shown and products may vary slightly from illustrations and photos.

Interested in learning more? For additional information, visit pellacommercial.com.

[1] Pella's proprietary fiberglass material has displayed superior strength over wood, vinyl, aluminum, wood/plastic composites, and other fiberglass materials used by leading national brands in tensile and 3-point bend tests performed in accordance with ASTM D638 and D790 testing standards.
[2] Tensile testing performance based on testing 7 samples of each material using ASTM D638 test methodology.
[3] Not available on special shapes.
[4] Pella® Impervia® windows and patio doors have a performance grade of LC or higher. For information on product ratings see www.pella.com/performance.
[5] Based on a simulation created with THERM 7.4.3 and WINDOW 7.4.6
[6] Pella Impervia windows and patio doors have a performance class of LC or higher. For information on product ratings see www.pella.com/performance.
[7] See written limited warranties for complete details, including exceptions and limitations, at pella.com/warranty, or contact Pella Customer Service at 877-473-5527.
[8] Vent casement with impact glass max width is 35-1/2".
[9] Optional high-altitude Low-E insulating glass available with or without argon on select products.
[10] Some Pella products may not meet ENERGY STAR® guidelines in Canada. For more information, contact your local Pella sales representative or go to energystar.gc.ca.
[11] Available with Advanced Low-E insulating glass with argon with bronze, gray or green tint on select products.
[12] For best performance, the laminated glass may be in the interior or exterior pane of the insulating glass, depending on the product.
[13] Sound control glass consists of dissimilar glass thickness (3mm/5mm or 5mm/3mm).
[14] Available on direct set, awning and casement windows and sliding patio doors. Not available with Advanced Comfort Low-E glass.
[15] Available on direct set, casement and awning windows and sliding patio doors only. Not available with grilles-between-the-glass.
[16] Dual-color frames are available with a block frame or non-integrated nailing fin.
[17] Only available for fold-away crank.
[18] Appearance of exterior grille color may vary depending on the Low-E insulating glass selection.
[19] Available on direct set windows only.
[20] Available on all two-panel and select sizes for three-panel sliding patio doors only.