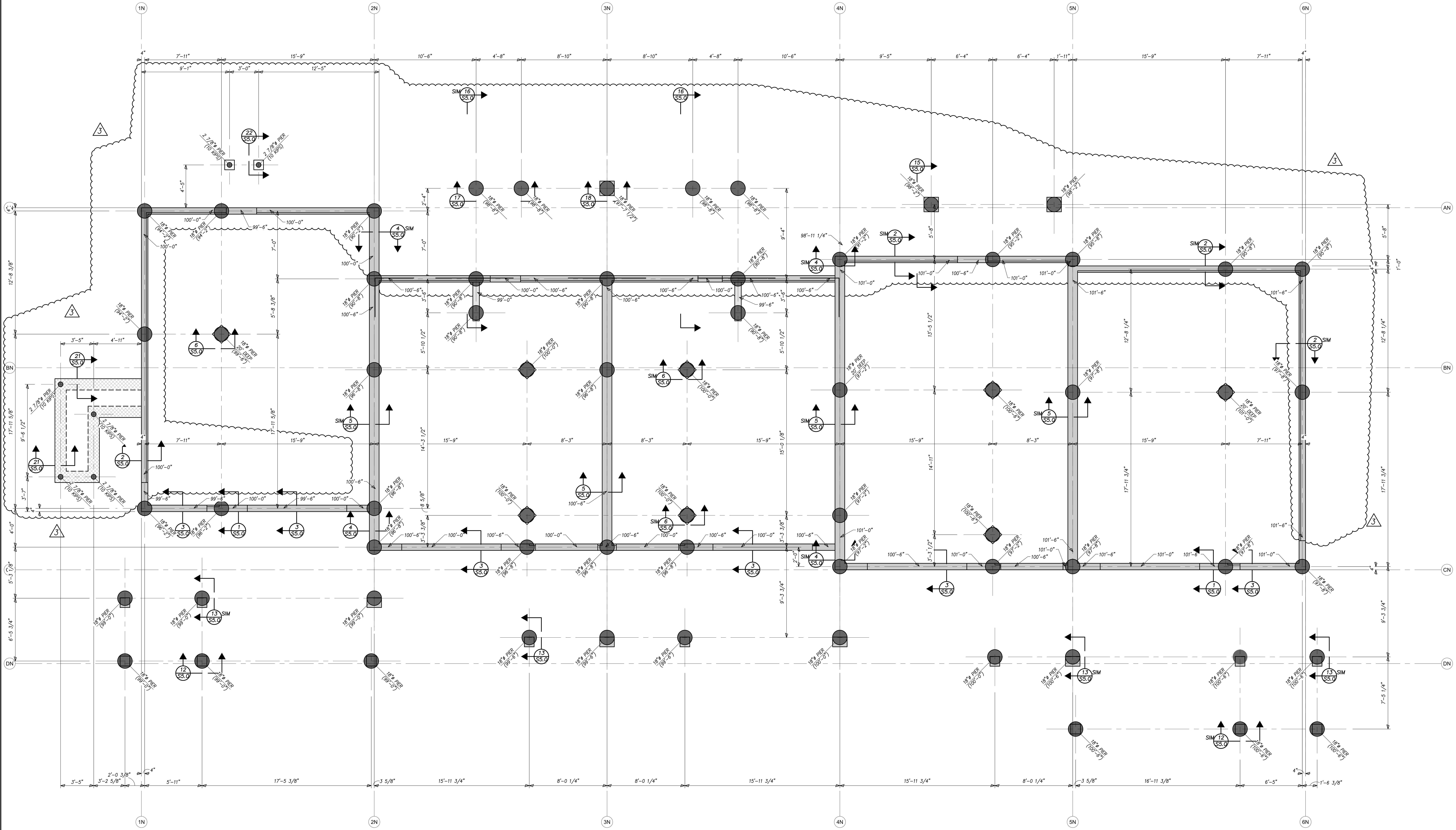

NORTH BUILDING PIER PLACEMENT PLAN

NORTH

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

ELEVATION TOP OF CONCRETE WALL INDICATED THUS ELEV.

DRILLED PIER LOCATIONS, DIAMETER, AND TOP OF CONCRETE PIER ELEVATION INDICATED THUS — PIER DIAMETER (ELEVATION)

HELICAL SCREW PILE LOCATION, SHAFT SIZE, AND MINIMUM SERVICE LOAD REQUIREMENT FOR HELICAL SCREW PILE, DEAD LOAD PLUS LIVE LOAD IN KIPS (1 KIP = 1000 lbs) INDICATED THUS — SHAFT SIZE (TOTAL LOAD)

3

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DRAWN BY: CAS
PROJECT# 21-059
NORTH PIER PLAN

COLORADO LICENSED BENJAMIN F. SCHUTT 40325 PROFESSIONAL ENGINEER

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steamboat springs, co. 80477

STEAMBOAT ARCHITECTURAL ASSOCIATES

A Townhouse Development for
Walton Cr Rd / Village Dr
1805 Walton Creek Road, Steamboat Springs, Colorado 80487

Date	Revision	No.
22 AUG 25	ADDENDUM 1 RE-ISSUE DECK, COLUMN, ROOF AND MECH ROOM REVISIONS	3
23 OCT 23	LANDSCAPE WALL AND FRAMING REVISIONS	2
7 SEP 22	FRAMING REVISIONS	1
24 JUN 22		

S2.01

19-37

Benjamin Schutt

Digitally signed by Benjamin Schutt
Date: 2025.09.10 15:08:09 -06'00'

A Townhouse Development for
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S2.02

19-37

24 JUN 22

10 SEP 25	MECH ROOM REVISIONS 4
22 AUG 25	ADDENDUM 1 RE-ISSUE DECK, COLUMN, ROOF AND MECH ROOM REVISIONS 3
23 OCT 23	LANDSCAPE WALL AND FRAMING REVISIONS 2
7 SEP 22	FRAMING REVISIONS 1

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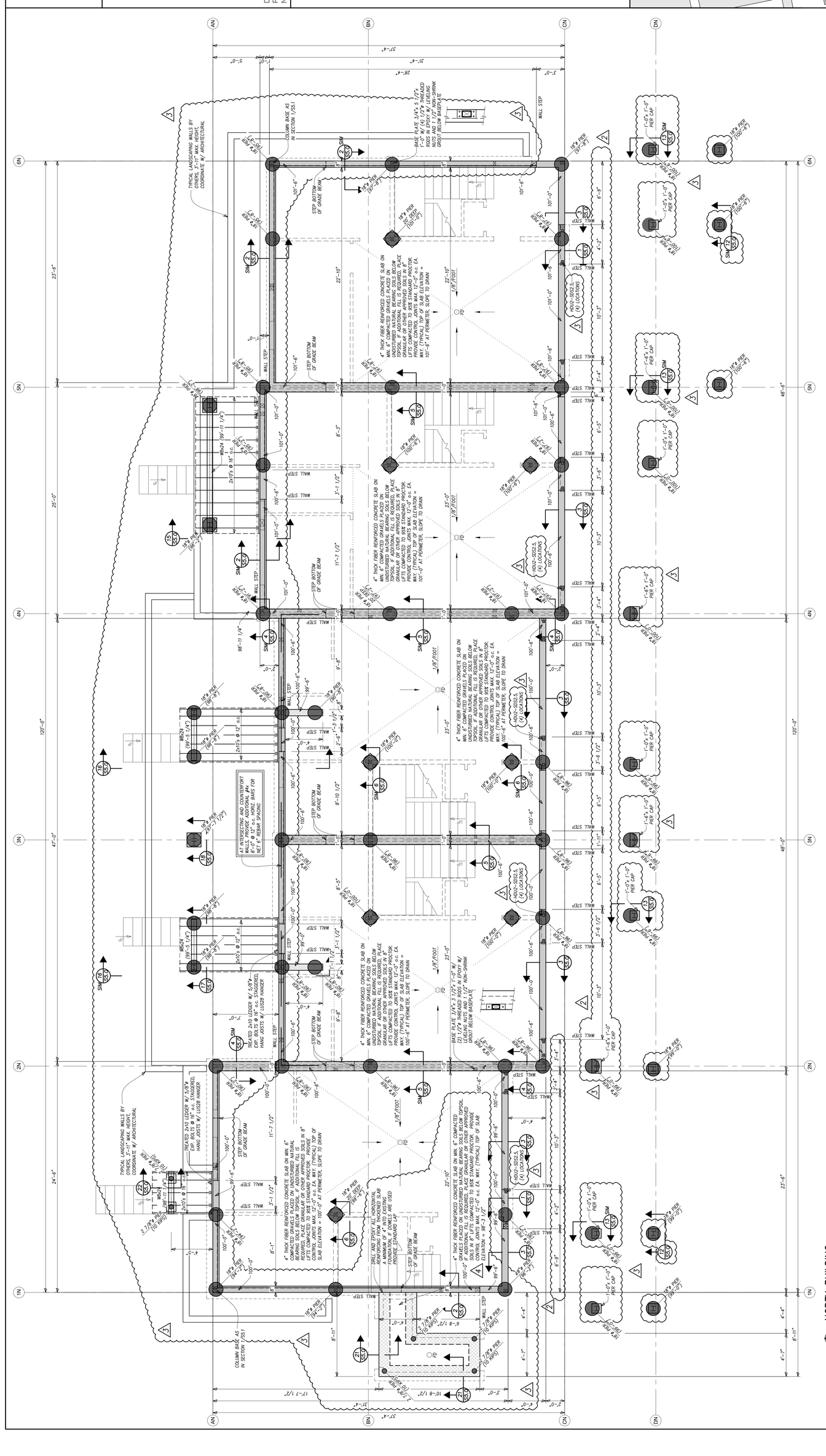
DRAWN BY: CAS
PROJECT #: 21-059
NORTH FOUNDATION

COLORADO REGISTERED SCHUYLER J. SCHUTT 40325 PROFESSIONAL ENGINEER

THESE DRAWINGS DO NOT INCLUDE THE COMPONENTS NECESSARY FOR CONSTRUCTION SAFETY.


NORTH BUILDING FOUNDATION PLAN
Scale: 1/4" = 1'-0"
NORTH
ELEVATION TOP OF CONCRETE WALL INDICATED THUS ELEV.
INDICATES SIZE OF COLUMN BELOW BEAM AT INDICATED LOCATION
DRILLED PIER LOCATIONS, DIAMETER, AND TOP OF CONCRETE PIER ELEVATION INDICATED THUS
PIER DIAMETER (ELEVATION)
HELICAL SCREW PILE LOCATION, SHAFT SIZE, AND MINIMUM SERVICE LOAD REQUIREMENT FOR HELICAL SCREW PILE DEAD LOAD PLUS LIVE LOAD IN KIPS (1 KIP = 1000 lbs) INDICATED THUS
SHAFT SIZE (TOTAL LOAD)
GENERAL NOTES FOR HELICAL PILES
FOUNDATION DESIGN
a. Design of helical screw piles is based upon the specifications for the PierTech Systems helical pile. Piles are to be installed as specified and as required by the soils engineer and the professional installer to carry the required loads as noted on the plan.
b. The contractor shall submit shop drawings for all helical pile components, including manufacturer's cut sheets, to the engineer and Regional Building Department for review and approval.
c. The contractor shall provide the Engineer and Regional Building Department copies of the installation logs for each pile.
d. Special inspection of helical pier installation is required and inspectors shall be employed by the owner or agent of the owner and not by the contractor.
e. Soils report 19-31700 by Northwest Colorado Consultants, Inc.
DETAIL 1/4" = 1'-0" 1 S2.02
SECTION 1/2" = 1'-0" 3 S2.02
DETAIL 1/4" = 1'-0" 2 S2.02
SIDE WALL
SHEAR BLOCKING BETWEEN JOISTS AT BEARING WALL
DOUBLE TOP PLATE W/ BEVELED BEARING BLOCK, SEE PLAN
LVL PORTAL FRAME TIGHT TO UNDERSIDE OF SINGLE TOP PLATE
8'-10 3/4"
119'-2 3/8"
120'-4"
120'-1"
119'-1 7/8"
7/8"
1/4"
(2) 2x6
(4) 2x6
(3) 2x6
1 3/4"x 11 7/8" LVL'S
STRAP CANTILEVERED BEAM TO CONTINUOUS HEADER W/ LSTA24
LSTA24, (4) LOCATIONS
MIDSPAN BLOCKING
ATTACH FRAME TO STEEL BEAM W/ HDU2-SDS2.5, (4) LOCATIONS
2'-6 1/2"
6'-10"
3'-5"
25'-11 1/2"
FLUSH WIDAD
AT CROSS HATCHED AREAS FASTEN 7/16" APA RATED SHEATHING TO FRAMING MEMBERS W/ 8d's @ 3" o.c IN A AND TO HEADER @ 3" o.c IN A GRID PATTERN
HSS4.5x4.5x1/4
ATTACH FLUSH BEAM TO CONTINUOUS SOB FASCIA W/ (2) LSSI's EA. SIDE
ECO366 COLUMN CAP
(2) 1 3/4"x 9 1/2" LVL HEADER BEYOND, ATTACH TO COLUMN AS IN SECTION 1/S5.02
1/2"x4"x6"-0" COLUMN BASE, ATTACH TO BEAM W/ 1/4" FILLET WELD, (2) SIDES
CANTILEVERED FLUSH LVL BEAM AS IN SECTION 2/S2.03
CONTINUOUS DOUBLE TOP PLATE UNDER FLUSH LVL BEAM
(2) 1 3/4"x 11 7/8" LVL's
CONTINUOUS (2) 1 3/4"x 11 7/8" LVL's
109'-1 3/4"
109'-0 1/4"
108'-0 3/8"
8'-0 3/8"
1/2"
LSTA24, (4) LOCATIONS
16'-8 1/2"
10'-0"
7'-0"
4'-0 1/2"
5 1/2"x 5 1/4" PSL
HDU2-SDS2.5, (4) LOCATIONS
PORTAL FRAME DIMENSIONS VARY FOR EA. UNIT
ATTACH RAFTERS TO RIDGE BEAM W/ LSSI12.1 HANGERS
14'-0, SEE PLAN
120'-4"
(2) 1 3/4"x 9 1/2" LVL HEADER
1/4"x8"x0'-8" PLATE WELDED TO COLUMN AND LAG W/ (4) 1/2" LAG'S W/ (2) 5/8"ø THRU BOLTS
WINDOW
CANTILEVERED FLUSH LVL BEAM AS IN SECTION 2/S2.03
DOUBLE TOP PLATE
STRAP CANTILEVERED BEAM TO HEADER AS IN SECTION 2/S2.02
(3) 1 3/4"x 11 7/8" LVL HEADER
STEEL COLUMN AND CAP AS IN SECTION 2/S2.02
SECTION 1/2" = 1'-0" 3 S2.02
TYPICAL LANDSCAPING WALLS BY OTHERS, 2'-0" MAX. HEIGHT, COORDINATE W/ ARCHITECTURAL
TREATED 2x10 LEDGER W/ 5/8"ø EXP. BOLTS @ 16" o.c. STAGGERED, HANG JOISTS W/ LUS28 HANGER
STEP BOTTOM OF GRADE BEAM
WALL STEP
WALL STRIP
4" THICK FIBER REINFORCED CONCRETE SLAB ON MIN. 6" COMPACTED GRAVELS PLACED ON UNDISTURBED NATURAL BEARING SOILS BELOW TOPSOIL. IF ADDITIONAL FILL IS REQUIRED, PLACE GRANULAR OR OTHER APPROVED SOILS IN 8" LIFTS COMPACTED TO 95% STANDARD PROCTOR. PROVIDE CONTROL JOINTS MAX. 12'-0" o.c. EA. WAY. (TYPICAL) TOP OF SLAB ELEVATION = 100'-0" AT PERIMETER, SLOPE TO DRAIN
4" THICK FIBER REINFORCED CONCRETE SLAB ON MIN. 6" COMPACTED GRAVELS PLACED ON UNDISTURBED NATURAL BEARING SOILS BELOW TOPSOIL. IF ADDITIONAL FILL IS REQUIRED, PLACE GRANULAR OR OTHER APPROVED SOILS IN 8" LIFTS COMPACTED TO 95% STANDARD PROCTOR. PROVIDE CONTROL JOINTS MAX. 12'-0" o.c. EA. WAY. (TYPICAL) TOP OF SLAB ELEVATION = 99'-6" AT PERIMETER, SLOPE TO DRAIN
4" THICK FIBER REINFORCED CONCRETE SLAB ON MIN. 6" COMPACTED GRAVELS PLACED ON UNDISTURBED NATURAL BEARING SOILS BELOW TOPSOIL. IF ADDITIONAL FILL IS REQUIRED, PLACE GRANULAR OR OTHER APPROVED SOILS IN 8" LIFTS COMPACTED TO 95% STANDARD PROCTOR. PROVIDE CONTROL JOINTS MAX. 12'-0" o.c. EA. WAY. (TYPICAL) TOP OF SLAB ELEVATION = 100'-0" AT PERIMETER, SLOPE TO DRAIN
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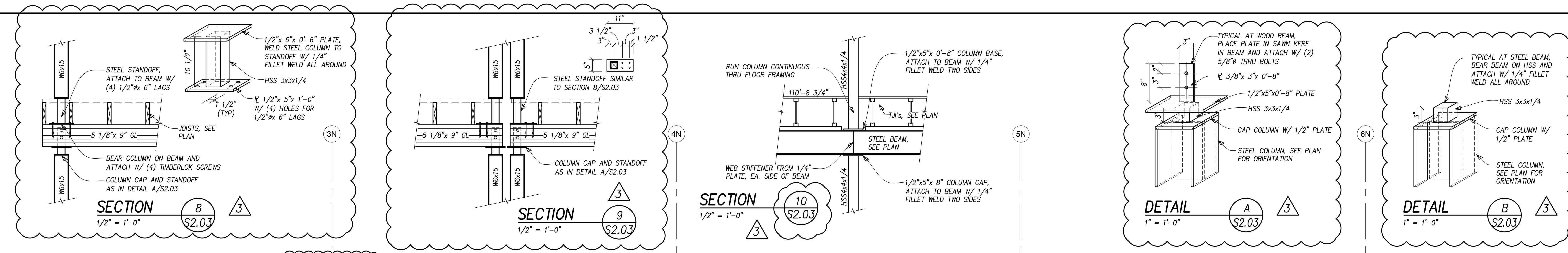
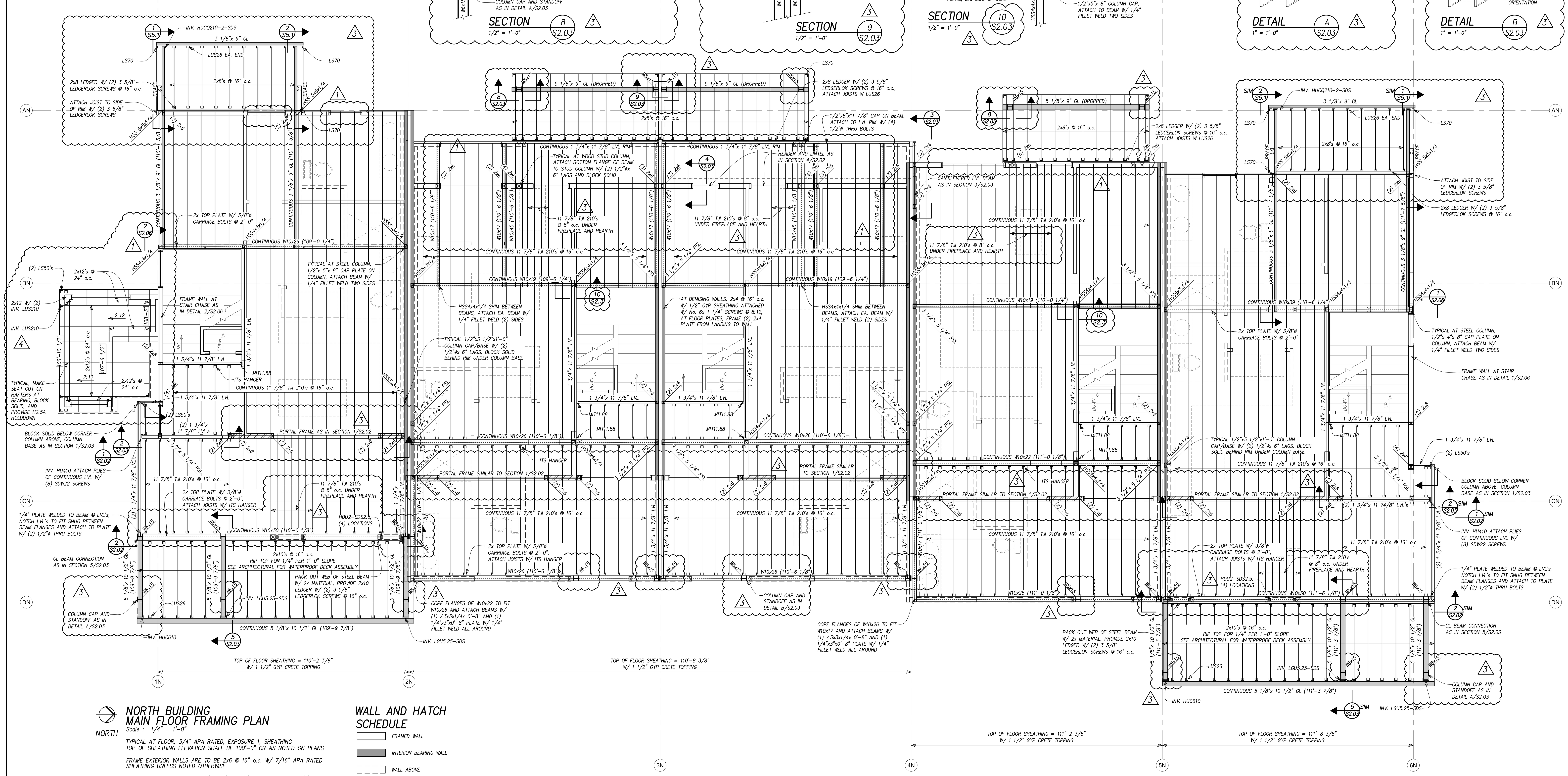
4" THICK FIBER REINFORCED CONCRETE SLAB ON MIN. 6" COMPACTED GRAVELS PLACED ON UNDISTURBED NATURAL BEARING SOILS BELOW TOPSOIL. IF ADDITIONAL FILL IS REQUIRED, PLACE GRANULAR OR OTHER APPROVED SOILS IN 8" LIFTS COMPACTED TO 95% STANDARD PROCTOR. PROVIDE CONTROL JOINTS MAX. 12'-0" o.c. EA. WAY. (TYPICAL) TOP OF SLAB ELEVATION = 100'-0" AT PERIMETER, SLOPE TO DRAIN





NORTH BUILDING MAIN FLOOR FRAMING PLAN

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

NORTH

TYPICAL AT FLOOR, 3/4" APA RATED, EXPOSURE 1, SHEATHING TOP OF SHEATHING ELEVATION SHALL BE 100'-0" OR AS NOTED ON PLANS

FRAME EXTERIOR WALLS ARE TO BE 2x6 @ 16" o.c. W/ 7/16" APA RATED SHEATHING UNLESS NOTED OTHERWISE

TYPICAL HEADER THIS PLAN, (3) 2x10's W/ (1) 2x6 TRIMMER AND (1) 2x6 KING STUD EACH END UNLESS NOTED OTHERWISE

TOP OF PLATE ELEVATION ON FRAME BEARING WALL SHALL BE INDICATED BY (XX'-XX")

(XX'-XX") INDICATES ELEVATION TOP OF STEEL OR TIMBER BEAM

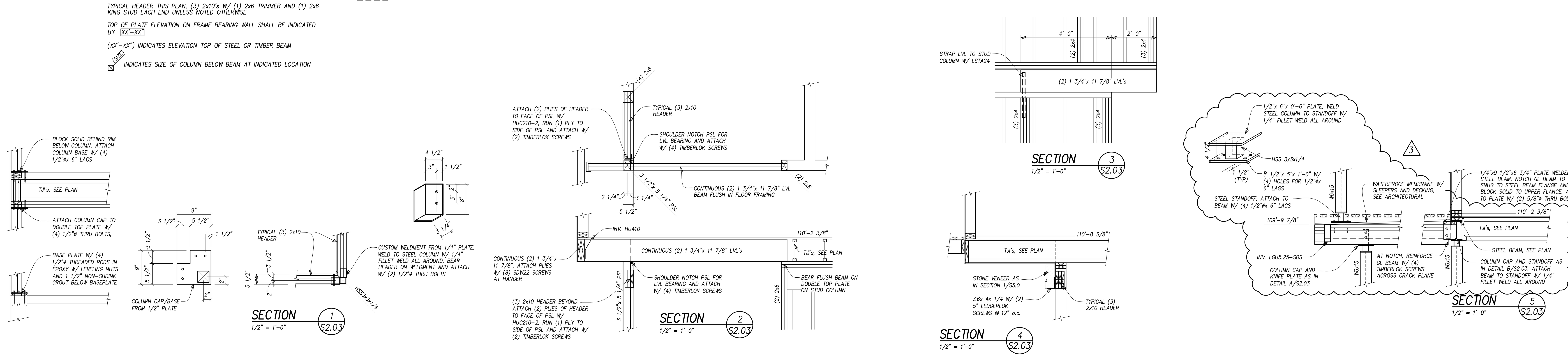
INDICATES SIZE OF COLUMN BELOW BEAM AT INDICATED LOCATION

WALL AND HATCH SCHEDULE

FRAMED WALL

INTERIOR BEARING WALL

WALL ABOVE



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DRAWN BY: CAS
PROJECT# 21-059
NORTH LOWER FLOOR

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steamboat springs, co. 80477

STEAMBOAT ARCHITECTURAL ASSOCIATES

A Townhouse Development for
Walton Cr Rd / Village Dr
1805 Walton Creek Road, Steamboat Springs, Colorado 80487

10 SEP 25	MECH ROOM REVISIONS	4
22 AUG 25	ADDENDUM 1 RE-ISSUE DECK, COLUMN, ROOF AND MECH ROOM REVISIONS	3
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7 SEP 22	FRAMING REVISIONS	1
24 JUN 22		

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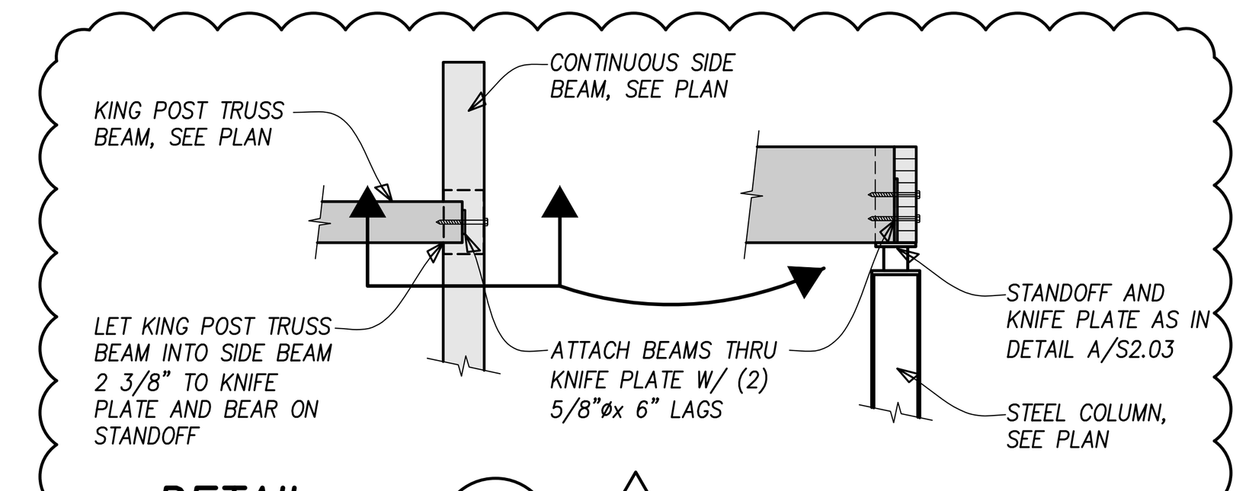
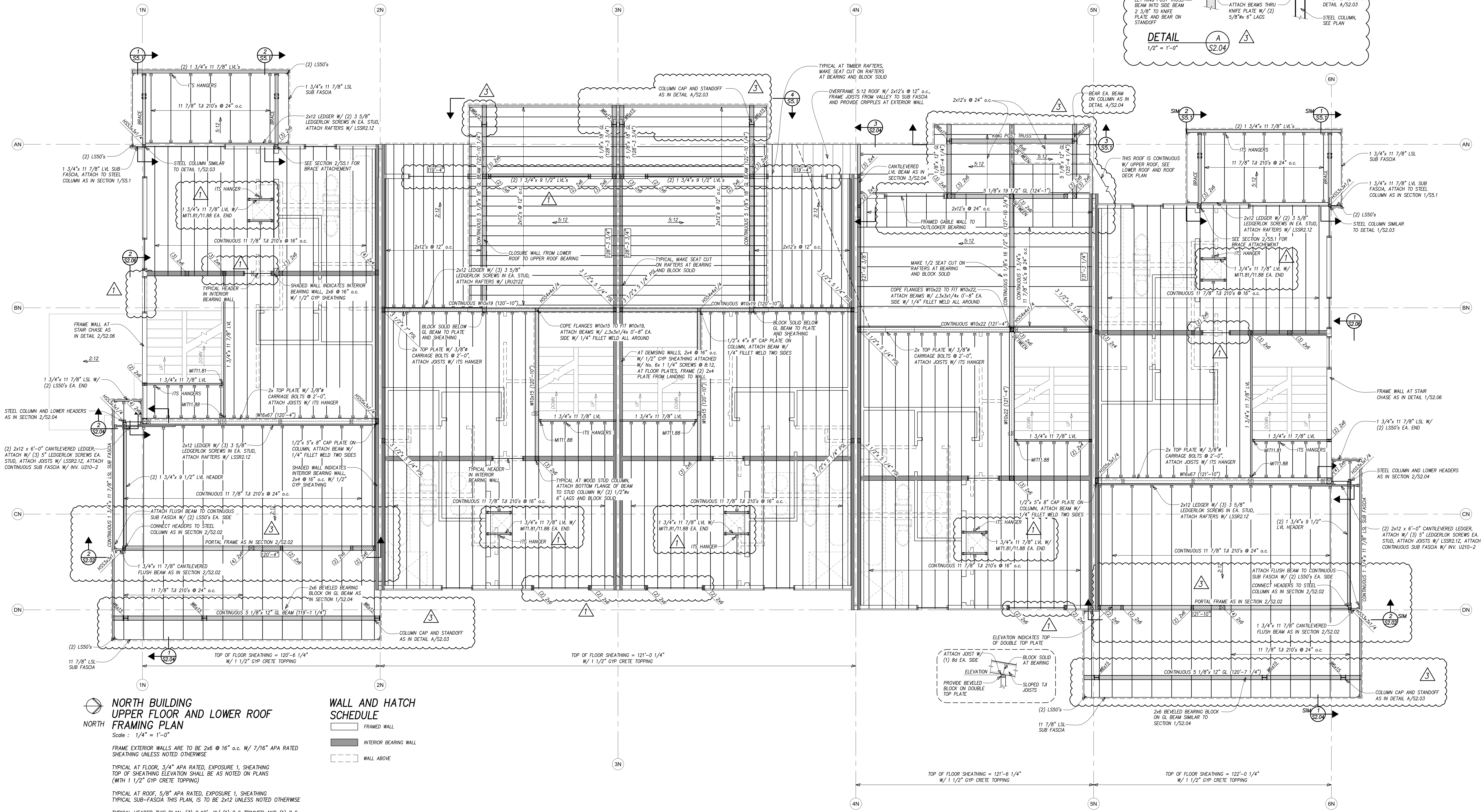
19-37



DETAIL A/S2.04
1/2" = 1'-0"



NORTH BUILDING UPPER FLOOR AND LOWER ROOF FRAMING PLAN

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

FRAME EXTERIOR WALLS ARE TO BE 2x6 @ 16" o.c. W/ 7/16" APA RATED SHEATHING UNLESS NOTED OTHERWISE

TYPICAL AT FLOOR, 3/4" APA RATED, EXPOSURE 1, SHEATHING TOP OF SHEATHING ELEVATION SHALL BE AS NOTED ON PLANS (WITH 1 1/2" GYP CRETE TOPPING)

TYPICAL AT ROOF, 5/8" APA RATED, EXPOSURE 1, SHEATHING TYPICAL SUB-FASCIA THIS PLAN, IS TO BE 2x12 UNLESS NOTED OTHERWISE

TYPICAL HEADER THIS PLAN, (3) 2x10's W/ (1) 2x6 TRIMMER AND (1) 2x6 KING STUD EACH END UNLESS NOTED OTHERWISE

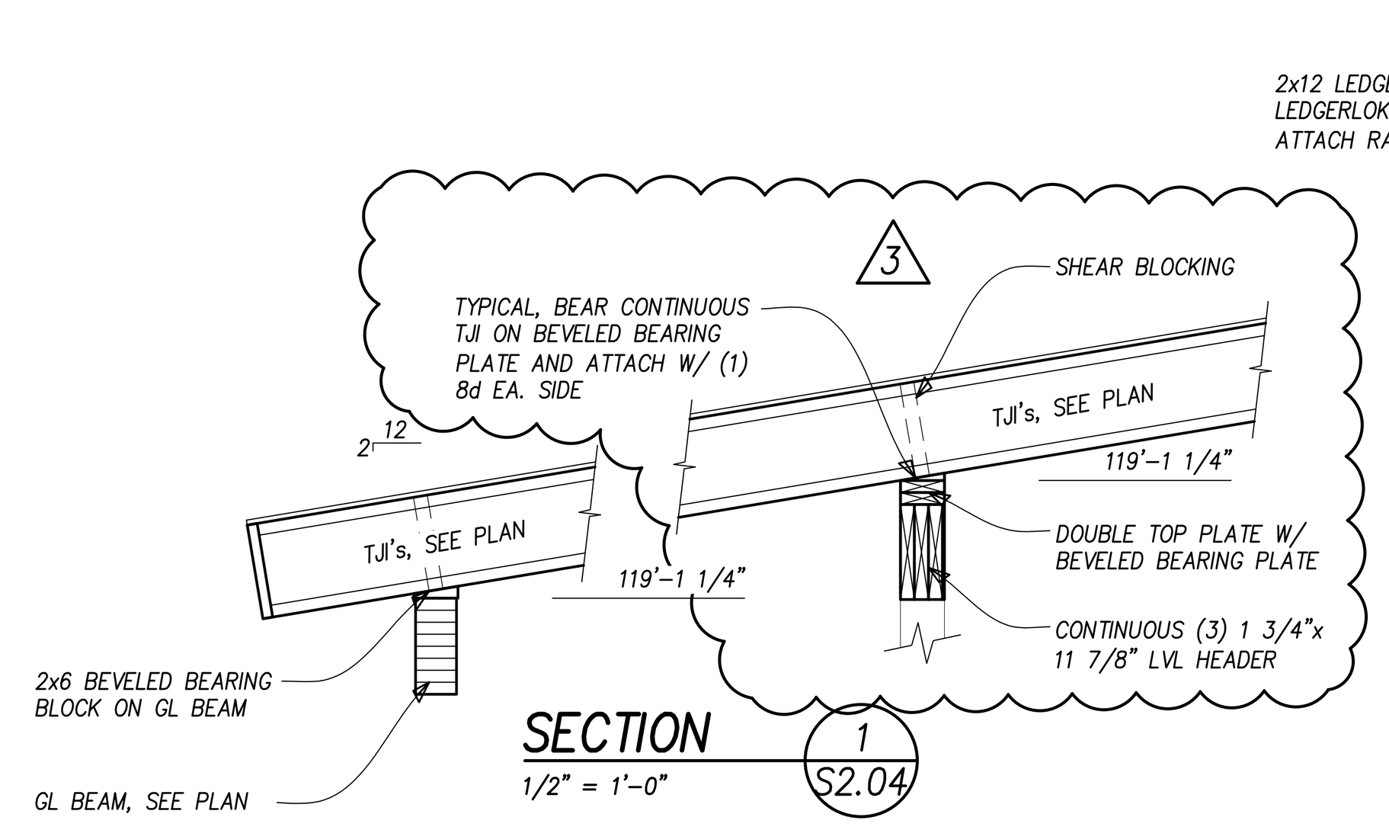
TOP OF PLATE ELEVATION ON FRAME BEARING WALL SHALL BE INDICATED BY XX'-XX"

(XX'-XX") INDICATES ELEVATION TOP OF STEEL OR TIMBER BEAM

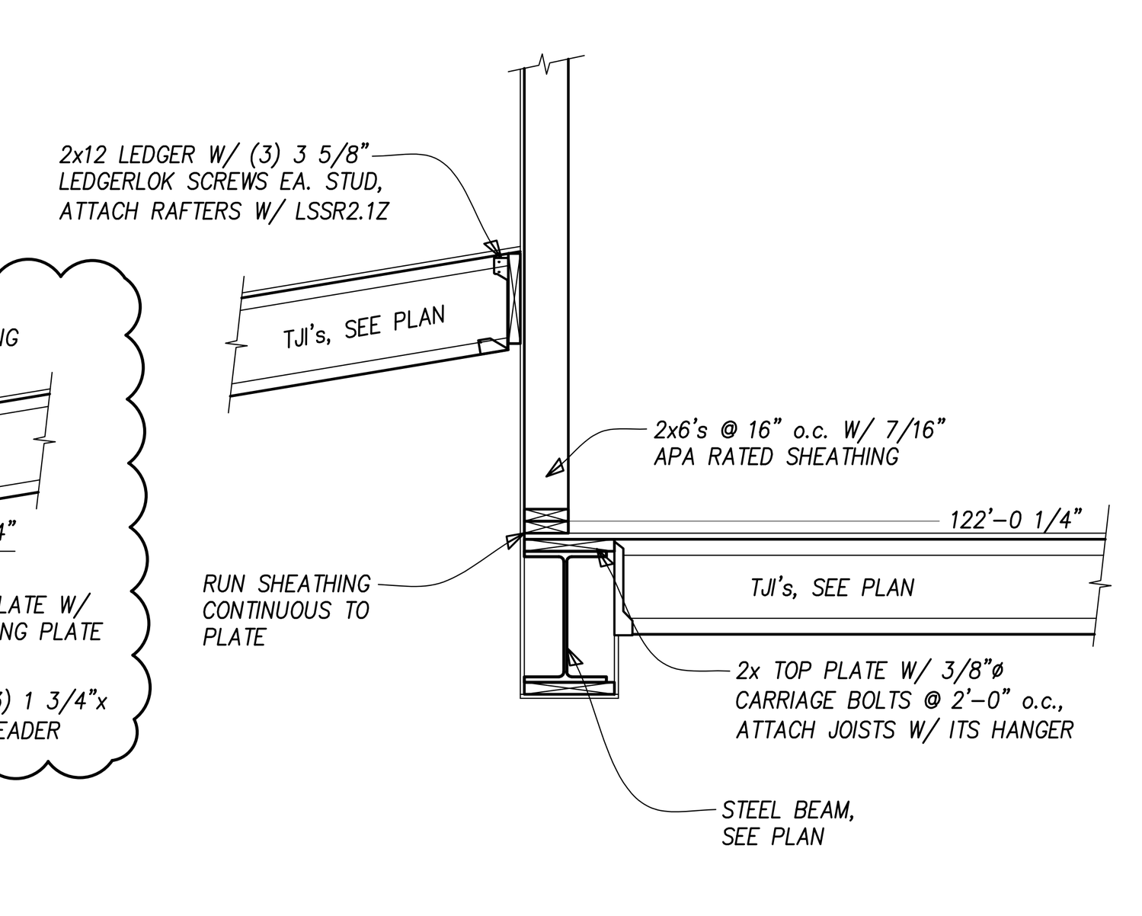
INDICATES SIZE OF COLUMN BELOW BEAM AT INDICATED LOCATION

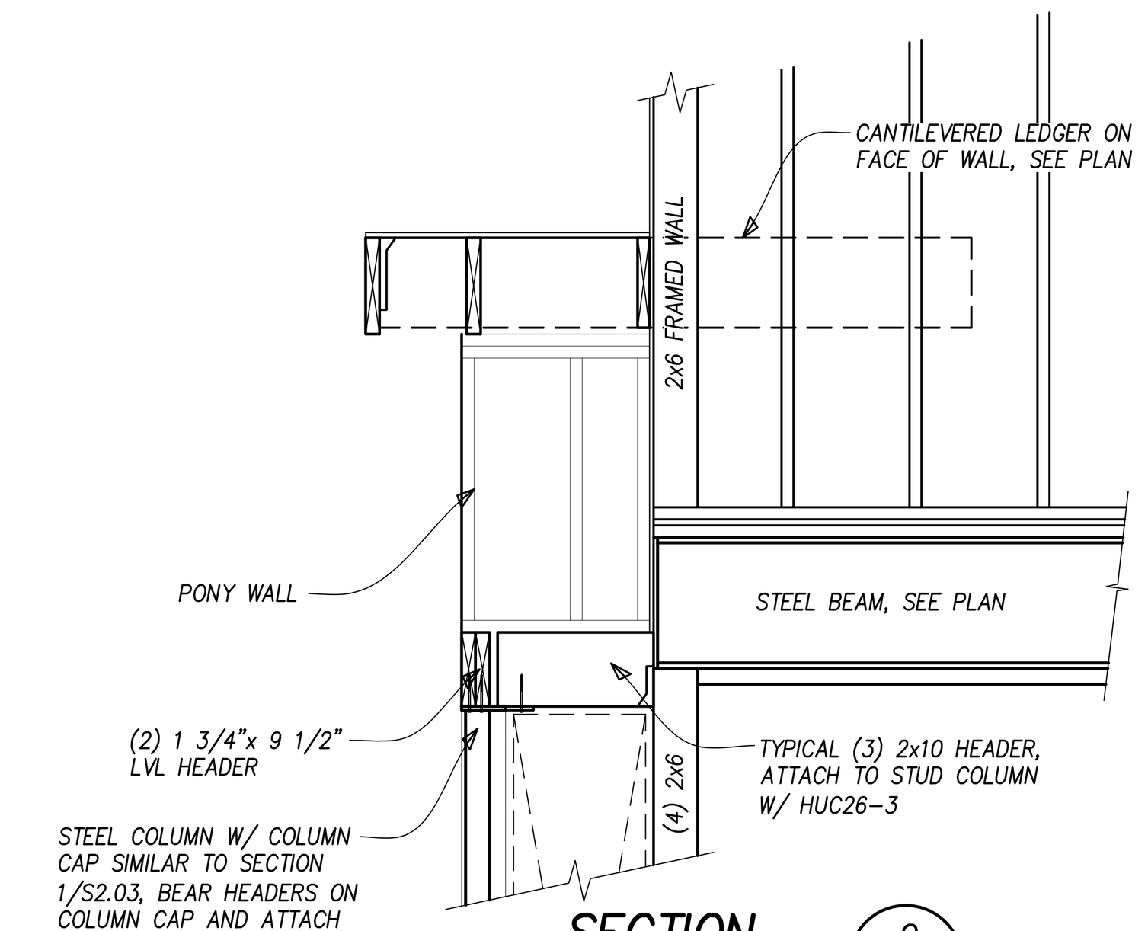
WALL AND HATCH SCHEDULE

- FRAMED WALL
- INTERIOR BEARING WALL
- WALL ABOVE

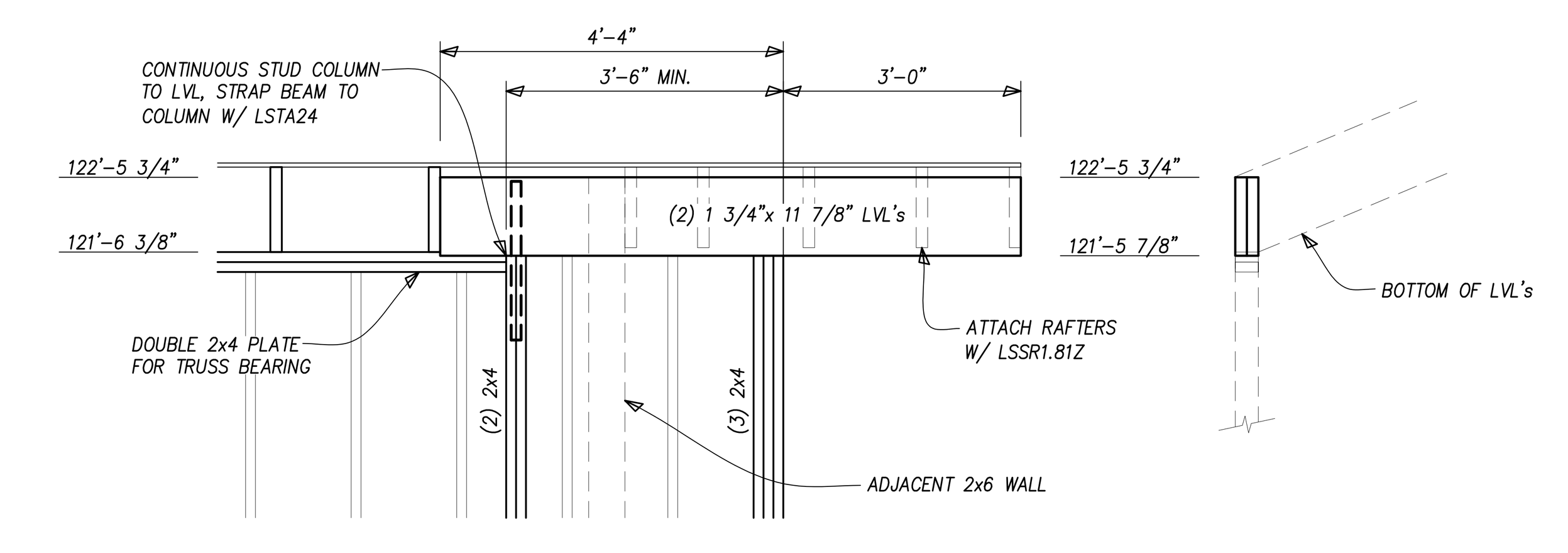


SECTION 1/S2.04
1/2" = 1'-0"





SECTION 2/S2.04
1/2" = 1'-0"



SECTION 3/S2.04
1/2" = 1'-0"

THESE DRAWINGS DO NOT INCLUDE THE COMPONENTS NECESSARY FOR CONSTRUCTION SAFETY.

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DRAWN BY: CAS
PROJECT# 21-059
NORTH UPPER FLOOR

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STEAMBOAT ARCHITECTURAL ASSOCIATES

A Townhouse Development for
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22 AUG 25	ADDENDUM 1 RE-ISSUE DECK, COLUMN, ROOF AND MECH ROOM REVISIONS	3
23 OCT 23	LANDSCAPE WALL AND FRAMING REVISIONS	2
7 SEP 22	FRAMING REVISIONS	1
24 JUN 22		

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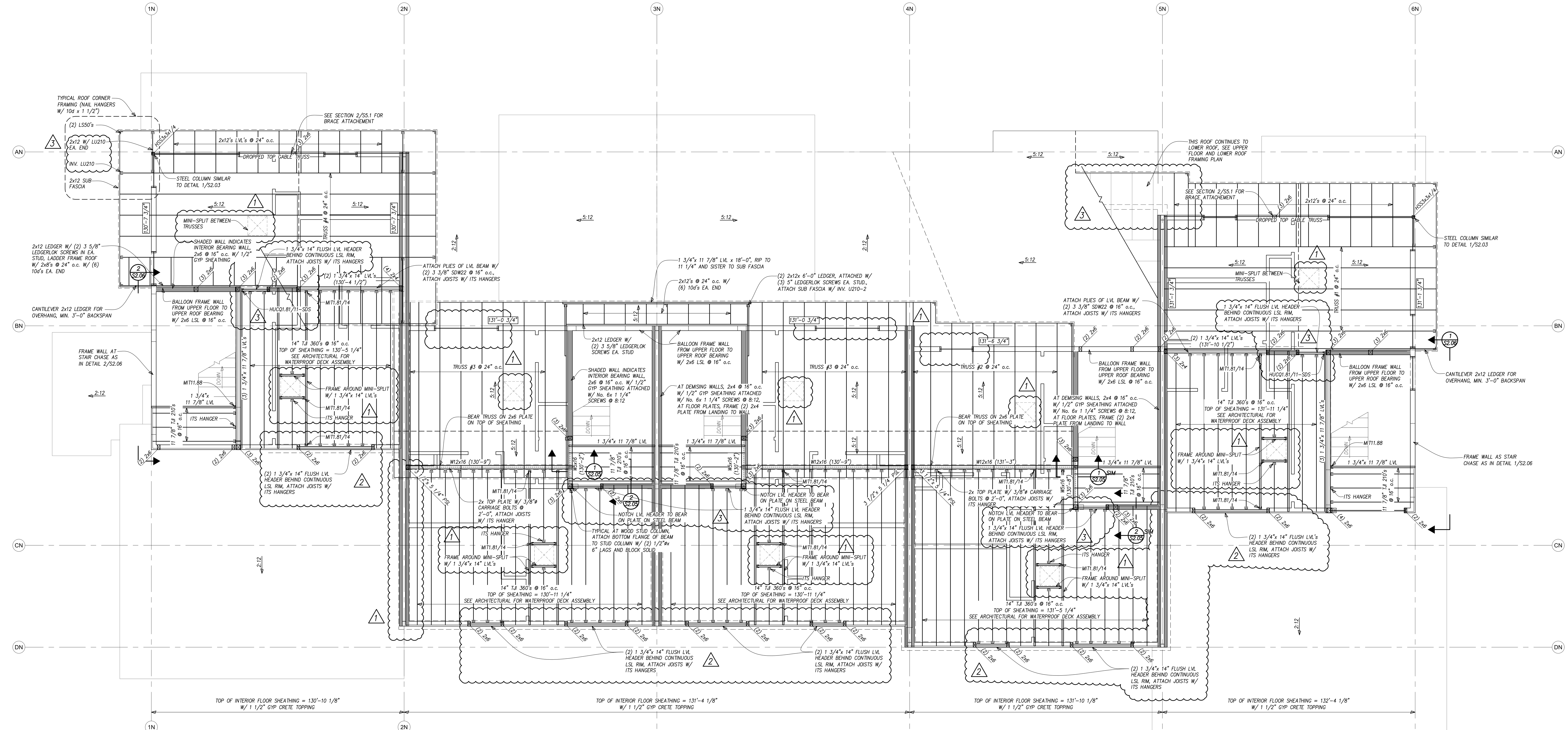
19-37



NORTH BUILDING LOWER ROOF AND ROOF DECK FRAMING PLAN

NORTH

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

FRAME EXTERIOR WALLS ARE TO BE 2x6 @ 16" o.c. W/ 7/16" APA RATED SHEATHING UNLESS NOTED OTHERWISE

TYPICAL AT FLOOR, 3/4" APA RATED, EXPOSURE 1, SHEATHING TOP OF SHEATHING ELEVATION SHALL BE AS NOTED ON PLANS (WITH 1 1/2" GYP CRETE TOPPING)

TYPICAL AT ROOF, 5/8" APA RATED, EXPOSURE 1, SHEATHING TYPICAL SUB-FASCIA THIS PLAN, IS TO BE 11 7/8" LSL

TYPICAL HEADER THIS PLAN, (3) 2x10's W/ (1) 2x6 TRIMMER AND (1) 2x6 KING STUD EACH END UNLESS NOTED OTHERWISE

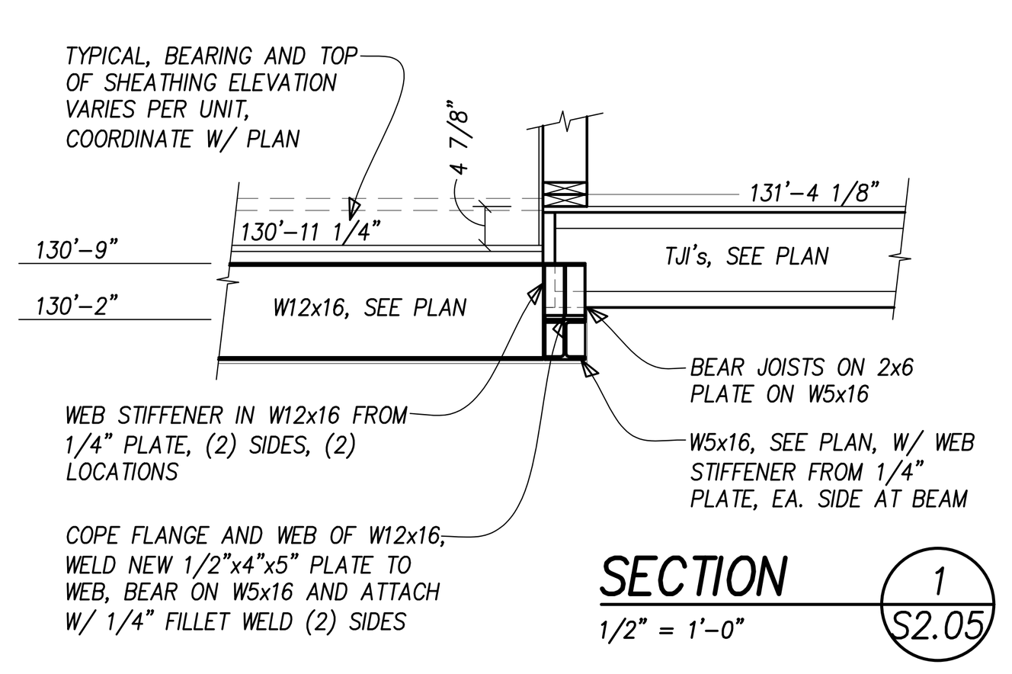
TOP OF PLATE ELEVATION ON FRAME BEARING WALL SHALL BE INDICATED BY XX'-XX"

(XX'-XX") INDICATES ELEVATION TOP OF STEEL OR TIMBER BEAM

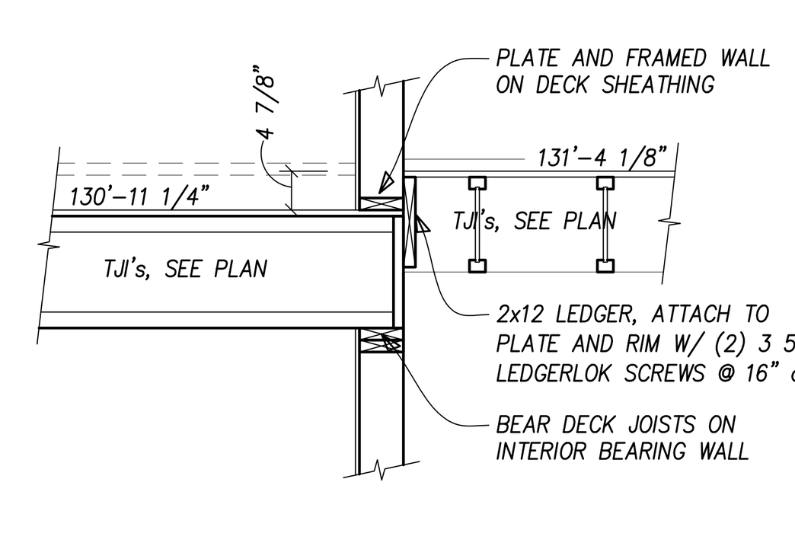
(SIZE) INDICATES SIZE OF COLUMN BELOW BEAM AT INDICATED LOCATION

WALL AND HATCH SCHEDULE

- FRAMED WALL
- INTERIOR BEARING WALL
- WALL ABOVE



SECTION 1/S2.05
1/2" = 1'-0"



SECTION 2/S2.05
1/2" = 1'-0"

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DRAWN BY: CAS
PROJECT# 21-059
NORTH ROOF DECK

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STEAMBOAT ARCHITECTURAL ASSOCIATES

A Townhouse Development for
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1805 Walton Creek Road, Steamboat Springs, Colorado 80487

Date	Revision	No.
22 AUG 25	ADDENDUM 1 RE-ISSUE DECK, COLUMN, ROOF AND MECH ROOM REVISIONS	3
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24 JUN 22		

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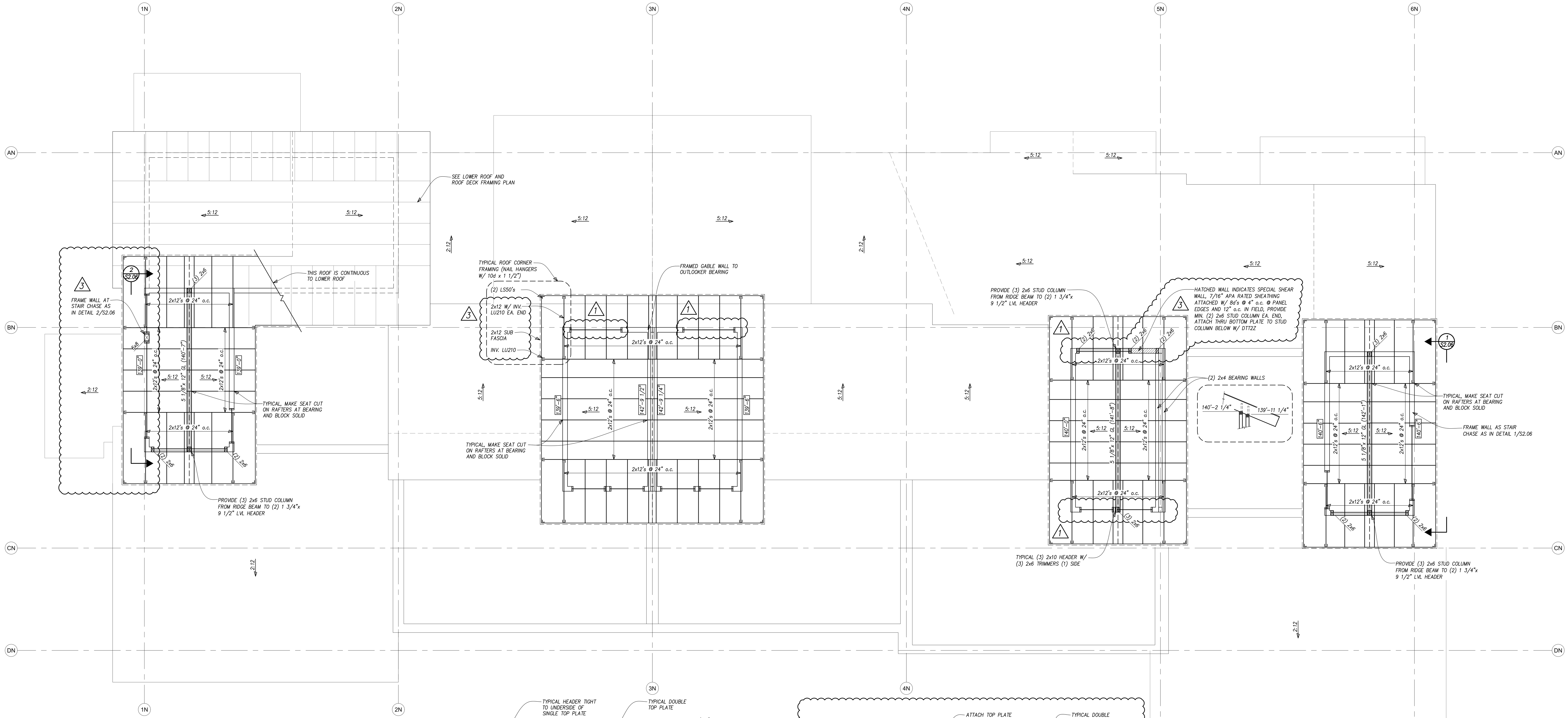


NORTH

NORTH BUILDING UPPER ROOF FRAMING PLAN

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

TYPICAL AT ROOF, 5/8" APA RATED, EXPOSURE 1, SHEATHING
TYPICAL SUB-FASCIA THIS PLAN, IS TO BE 2x12

FRAME EXTERIOR WALLS ARE TO BE 2x6 @ 16" o.c. W/ 7/16" APA RATED SHEATHING UNLESS NOTED OTHERWISE

TYPICAL HEADER THIS PLAN, (3) 2x10's W/ (1) 2x6 TRIMMER AND (1) 2x6 KING STUD EACH END UNLESS NOTED OTHERWISE

TOP OF PLATE ELEVATION ON FRAME BEARING WALL SHALL BE INDICATED BY XX'-XX"

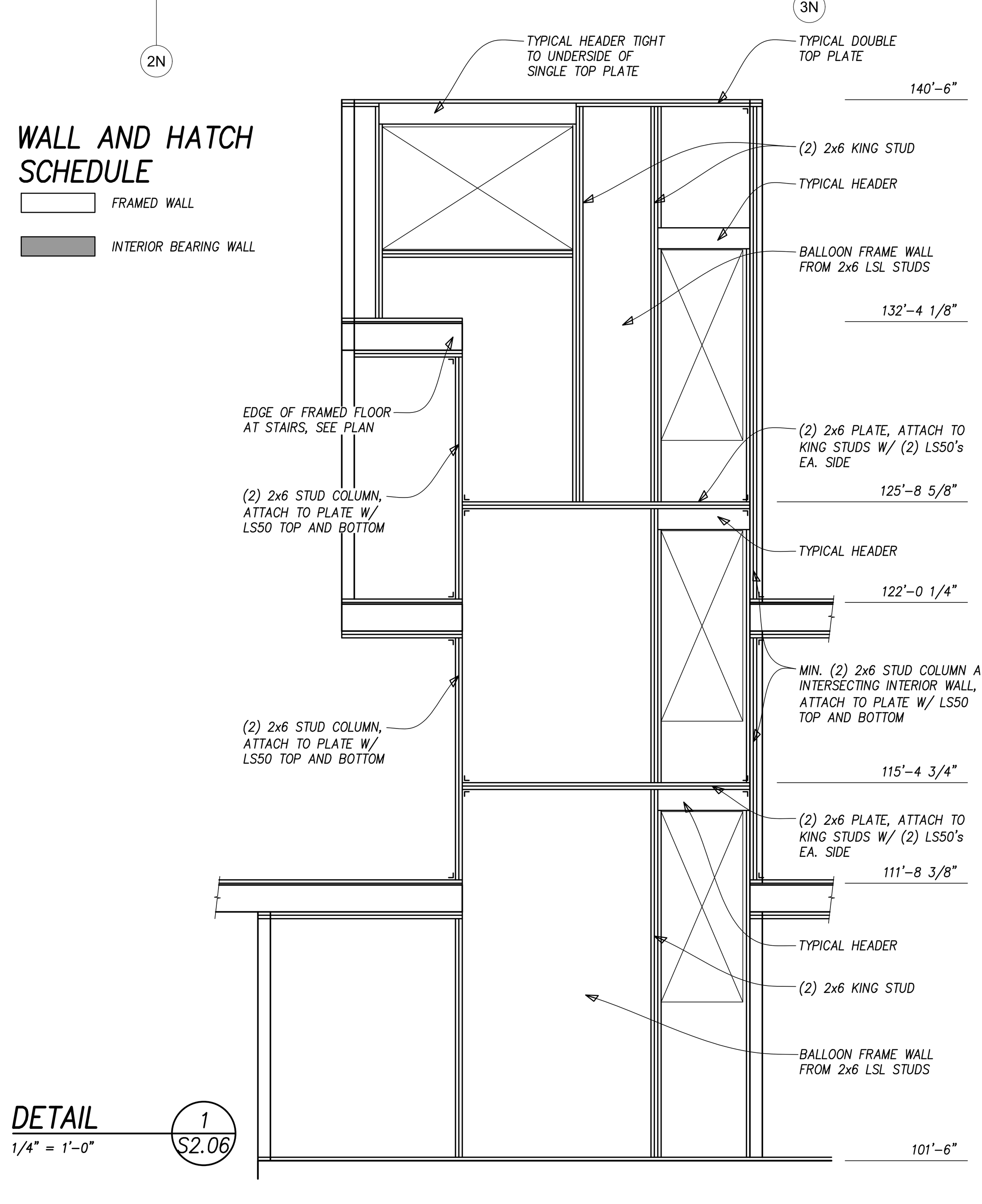
(XX'-XX") INDICATES ELEVATION TOP OF STEEL OR TIMBER BEAM

(SIZE) INDICATES SIZE OF COLUMN BELOW BEAM AT INDICATED LOCATION

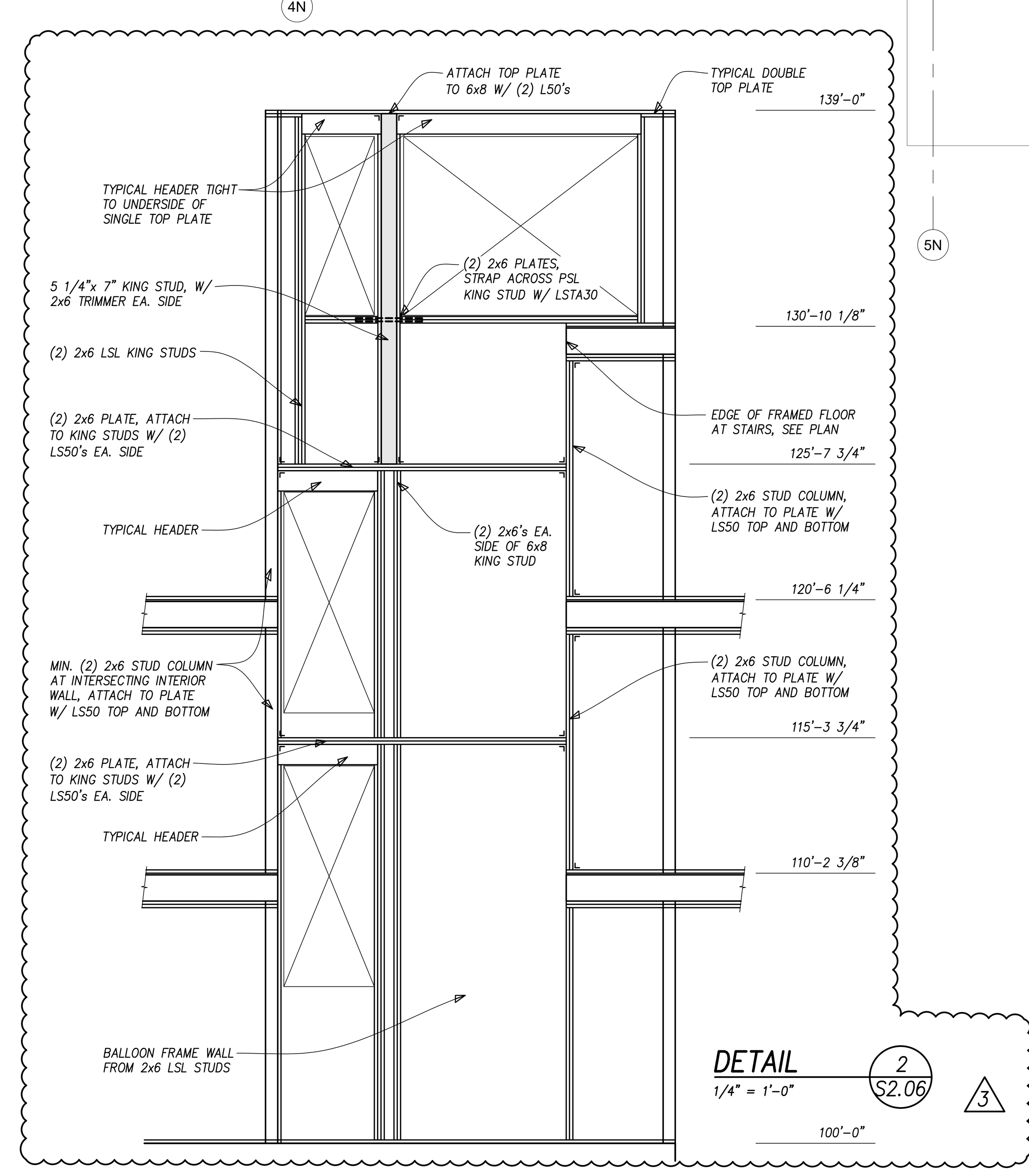
WALL AND HATCH SCHEDULE

FRAMED WALL

INTERIOR BEARING WALL



DETAIL 1/S2.06
1/4" = 1'-0"



DETAIL 2/S2.06
1/4" = 1'-0"

THESE DRAWINGS DO NOT INCLUDE THE COMPONENTS NECESSARY FOR CONSTRUCTION SAFETY.

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DRAWN BY: CAS
PROJECT# 21-059
NORTH ROOF FRAMING

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STEAMBOAT ARCHITECTURAL ASSOCIATES

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24 JUN 22		

S2.06

19-37

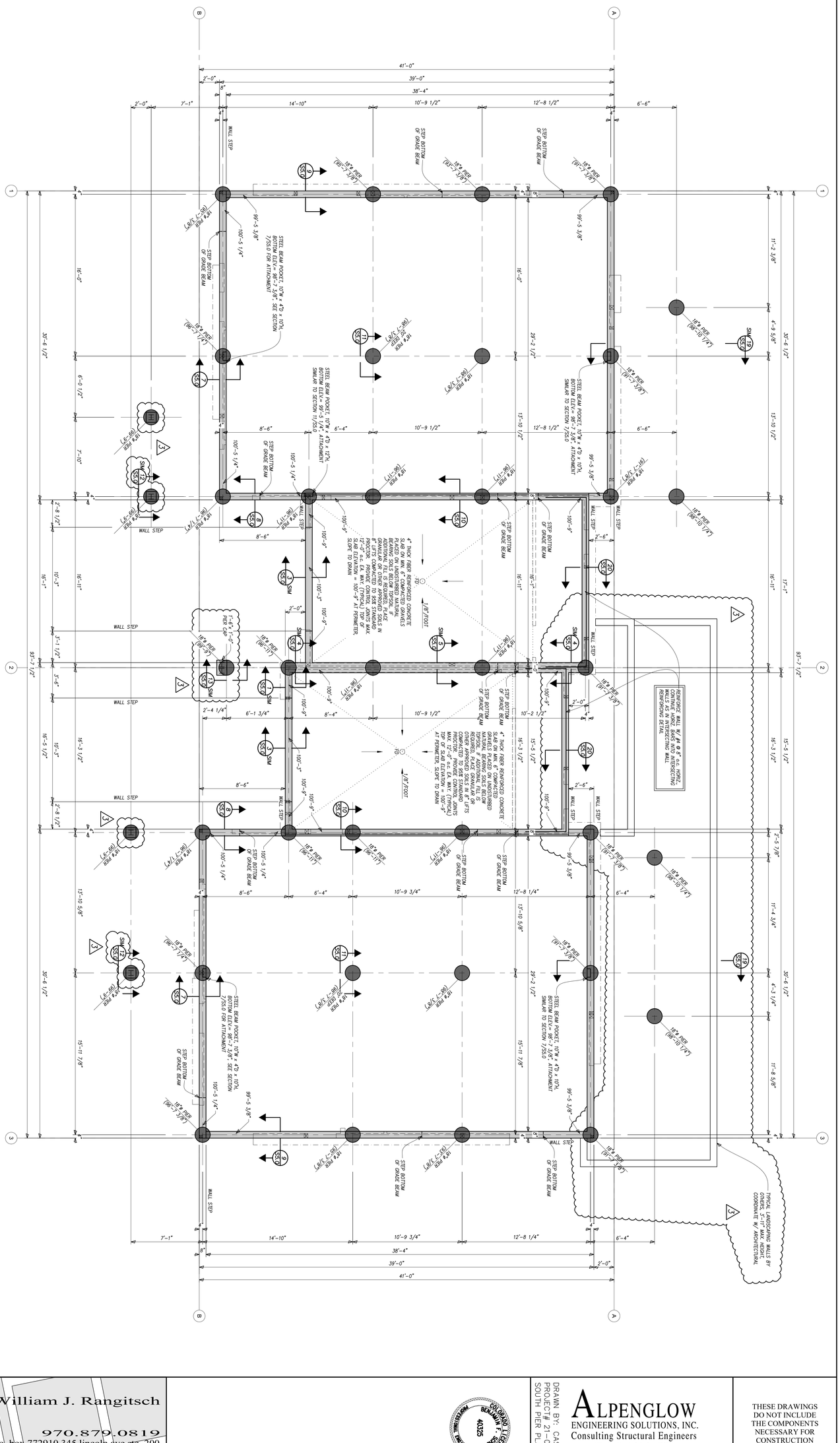
SOUTH BUILDING FOUNDATION AND PIER PLACEMENT PLAN

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

NORTH

ELEVATION TOP OF CONCRETE WALL INDICATED THUS ELEV.

DRILLED PIER LOCATION, DIAMETER, AND TOP OF CONCRETE PIER ELEVATION INDICATED THUS PIER DIAMETER (ELEVATION)



22 AUG 25	ADDENDUM 1 RE-ISSUE DECK, COLUMN, ROOF AND MECH ROOM REVISIONS	3
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7 SEP 22	FRAMING REVISIONS	1

24 JUN 22

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A Townhouse Development for

Walton Cr Rd / Village Dr

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DRAWN BY: CAS
PROJECT# 21-059
SOUTH PIER PLAN

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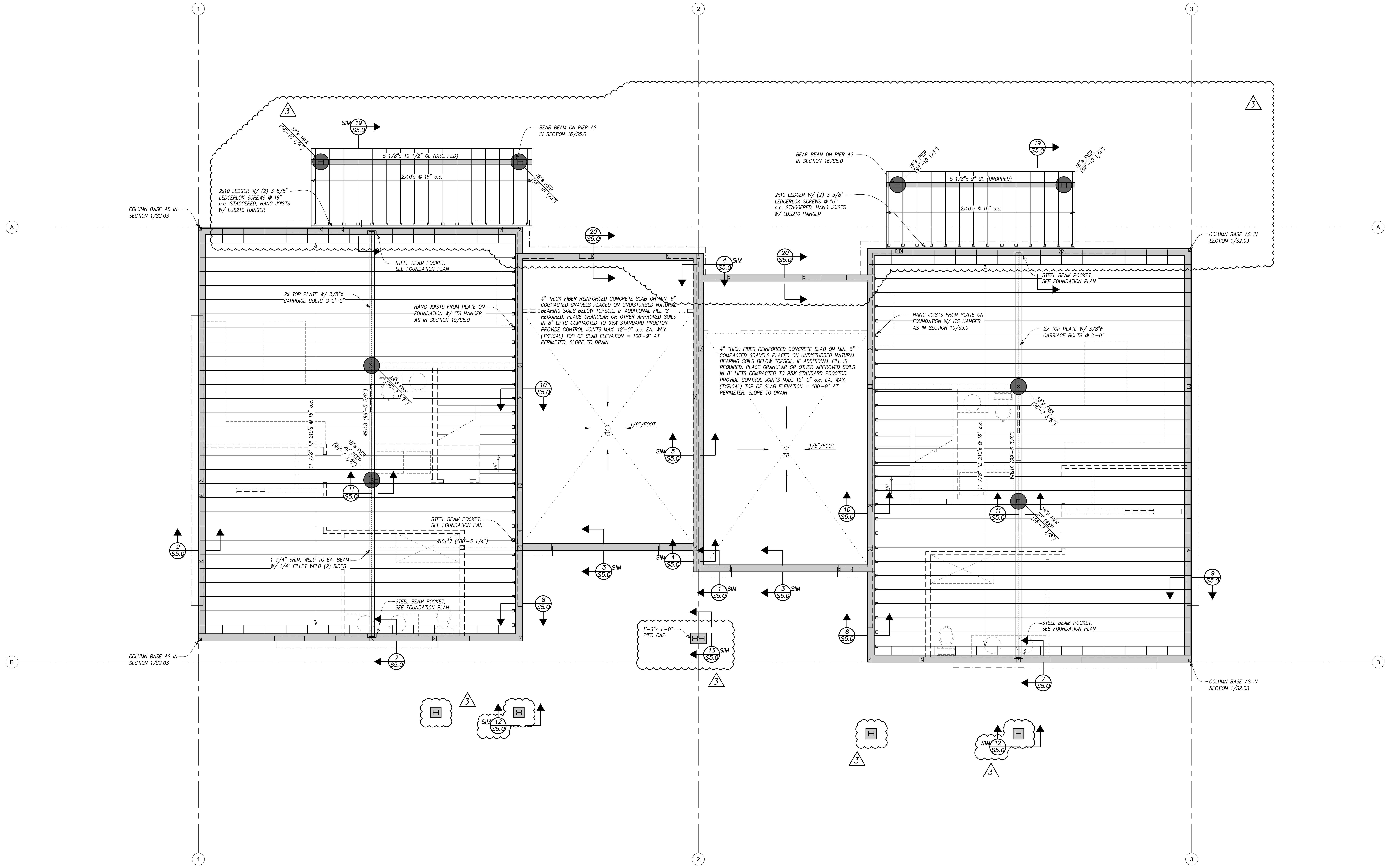

SOUTH BUILDING MAIN FLOOR FRAMING PLAN

NORTH

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

TYPICAL AT FLOOR, 3/4" APA RATED, EXPOSURE 1, SHEATHING
TOP OF SHEATHING ELEVATION SHALL BE 100'-7 1/2" UNLESS NOTED OTHERWISE
(TOP OF 1 1/2" GYP CRETE = 100'-9")

(XX'-XX") INDICATES ELEVATION TOP OF STEEL OR TIMBER BEAM

(SIZE) INDICATES SIZE OF COLUMN BELOW BEAM AT INDICATED LOCATION

DRILLED PIER LOCATIONS, DIAMETER, AND TOP OF CONCRETE PIER ELEVATION INDICATED THUS — PIER DIAMETER (ELEVATION)

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DRAWN BY: CAS
PROJECT# 21-059
SOUTH FOUNDATION

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STEAMBOAT ARCHITECTURAL ASSOCIATES

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A Townhouse Development for
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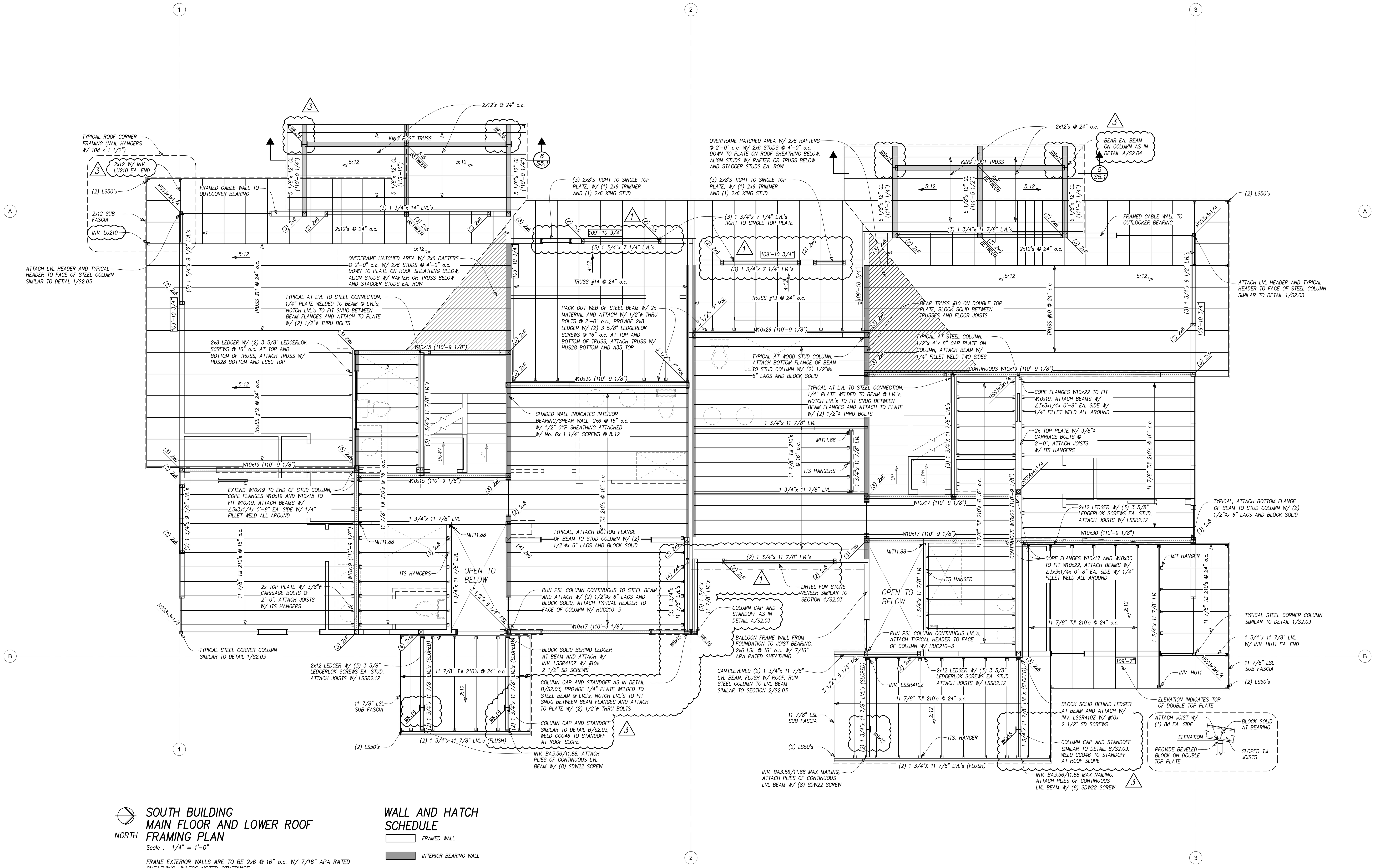

SOUTH BUILDING MAIN FLOOR AND LOWER ROOF FRAMING PLAN

NORTH

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

FRAME EXTERIOR WALLS ARE TO BE 2x6 @ 16" o.c. W/ 7/16" APA RATED SHEATHING UNLESS NOTED OTHERWISE

TYPICAL AT FLOOR, 3/4" APA RATED, EXPOSURE 1, SHEATHING
TOP OF SHEATHING ELEVATION SHALL BE 110'-11 3/8" OR AS NOTED ON PLANS
(TOP OF 1 1/2" GYP CRETE = 111'-0 7/8")

TYPICAL AT ROOF, 5/8" APA RATED, EXPOSURE 1, SHEATHING
TYPICAL SUB-FASCIA THIS PLAN, IS TO BE 2x12 UNLESS NOTED OTHERWISE

TYPICAL HEADER THIS PLAN, (3) 2x10's W/ (1) 2x6 TRIMMER AND (1) 2x6 KING STUD EACH END UNLESS NOTED OTHERWISE

TOP OF PLATE ELEVATION ON FRAME BEARING WALL SHALL BE INDICATED BY XX'-XX"

(XX'-XX") INDICATES ELEVATION TOP OF STEEL OR TIMBER BEAM

INDICATES SIZE OF COLUMN BELOW BEAM AT INDICATED LOCATION

WALL AND HATCH SCHEDULE

FRAMED WALL

INTERIOR BEARING WALL

WALL ABOVE

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Consulting Structural Engineers

DRAWN BY: CAS
PROJECT# 21-059
SOUTH FLOOR FRAMING

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STEAMBOAT ARCHITECTURAL ASSOCIATES

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SOUTH BUILDING LOWER ROOF AND ROOF DECK FRAMING PLAN

NORTH

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

FRAME EXTERIOR WALLS ARE TO BE 2x6 @ 16" o.c. W/ 7/16" APA RATED SHEATHING UNLESS NOTED OTHERWISE

TYPICAL AT FLOOR, 3/4" APA RATED, EXPOSURE 1, SHEATHING TOP OF SHEATHING ELEVATION SHALL BE 121'-1 1/4" OR AS NOTED ON PLANS (TOP OF 1 1/2" CYP CRETE = 121'-4 3/4")

TYPICAL AT ROOF, 5/8" APA RATED, EXPOSURE 1, SHEATHING

TYPICAL SUB-FASCIA THIS PLAN, IS TO BE 2x12

TYPICAL HEADER THIS PLAN, (3) 2x10's W/ (1) 2x6 TRIMMER AND (1) 2x6 KING STUD EACH END UNLESS NOTED OTHERWISE

TOP OF PLATE ELEVATION ON FRAME BEARING WALL SHALL BE INDICATED BY XX'-XX"

(XX'-XX") INDICATES ELEVATION TOP OF STEEL OR TIMBER BEAM

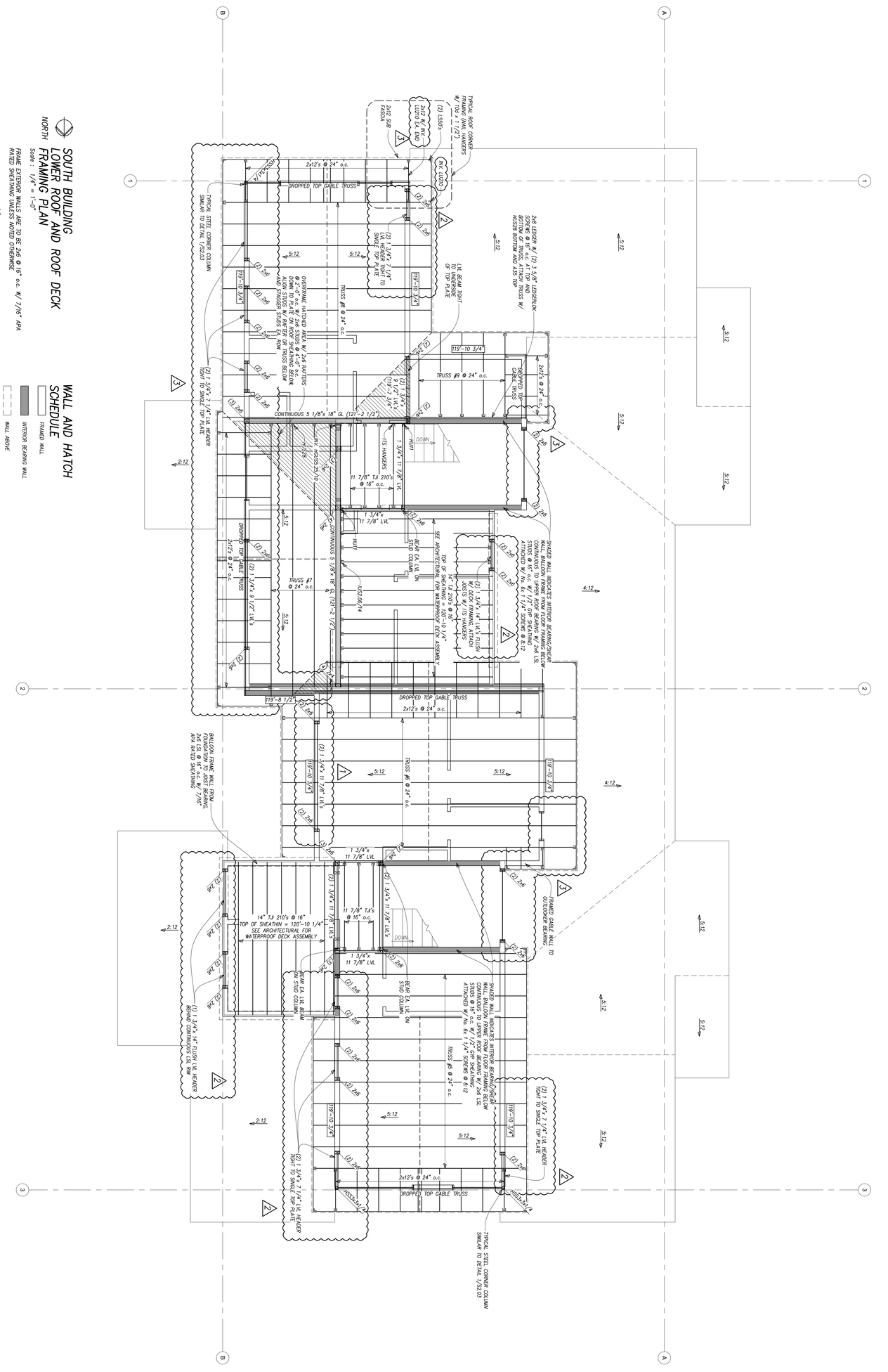
(XXX) INDICATES SIZE OF COLUMN BELOW BEAM AT INDICATED LOCATION

WALL AND HATCH SCHEDULE

FRAMED WALL

INTERIOR BEARING WALL

WALL ABOVE



22 AUG 25	ADDENDUM 1 RE-ISSUE DECK, COLUMN, ROOF AND MECH ROOM REVISIONS	3
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DRAWN BY: CAS
PROJECT# 21-059
SOUTH ROOF DECK

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SOUTH BUILDING UPPER ROOF FRAMING PLAN

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

TYPICAL ROOF SHEATHING: 7/16" APA RATED SHEATHING, EXPOSURE 1, SHEATHING TYPICAL SUB-FASCIA AT APA RATED SHEATHING: THIS PLAN IS TO BE 2x12

FRAME EXTERIOR WALLS ARE TO BE @ 16" o.c. W/ 7/16" APA RATED SHEATHING UNLESS NOTED OTHERWISE

TYPICAL HEADER THIS PLAN: (2) 2x10's W/ (1) 2x6 TRIMMER AND (1) 2x6 KING STUD EACH END UNLESS NOTED OTHERWISE

TOP OF PLATE ELEVATION ON FRAME BEARING WALL SHALL BE INDICATED BY XX'-XX"

(XX'-XX") INDICATES ELEVATION TOP OF STEEL OR TIMBER BEAM

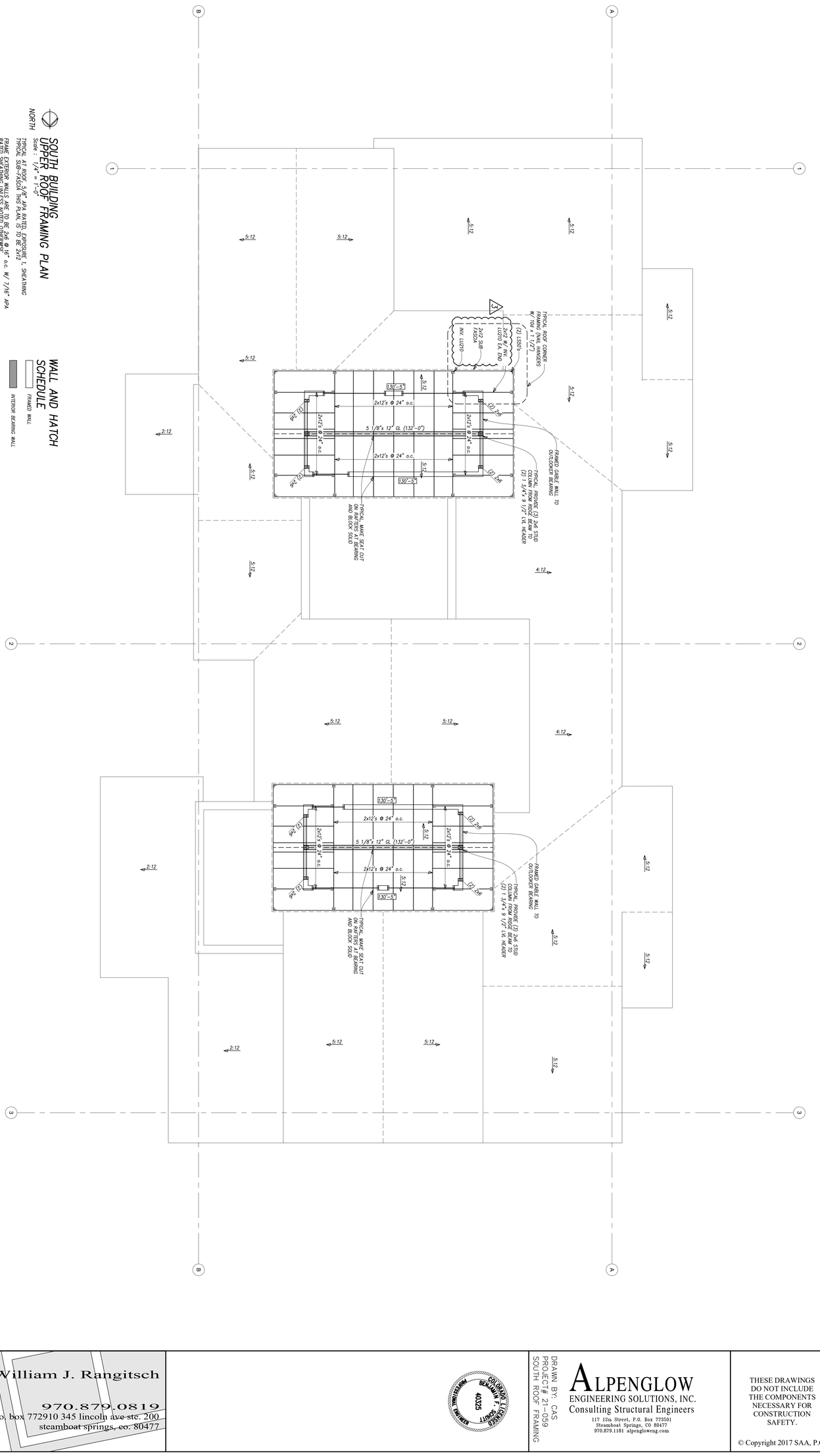
(GRID) INDICATES SIZE OF COLUMN BELOW BEAM AT INDICATED LOCATION

NORTH

WALL AND HATCH SCHEDULE

FRAMED WALL

INTERIOR BEARING WALL



22 AUG 25	ADDENDUM 1 RE-ISSUE DECK, COLUMN, ROOF AND MECH ROOM REVISIONS	3
24 JUN 22		

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COLORADO 40325 REGISTERED PROFESSIONAL ENGINEER WILLIAM J. RANGITSCH

DRAWN BY: CAS
PROJECT# 21-059
SOUTH ROOF FRAMING

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GENERAL NOTES

DESIGN LIVE LOADS

a. Roofs .... 75 psf
b. Floors.. 40 psf
c. Covered Porch............................ 60 psf
d. Wind.. Risk Category II, 115 mph Ultimate Wind Speed, Exposure "B"
e. Seismic.. IBC Design Category C

FOUNDATION DESIGN

a. Design of individual was based upon Subsoil and Foundation Investigation provided by Northwest Colorado Consultants, Inc. and all design values shall be field verified prior to construction.
b. Design of straight–shaft drilled piers is based on a maximum allowable skin friction value of 900 psf, neglecting the top 5'–0".
c. Soil report 19–11700 by Northwest Colorado Consultants, Inc.

REINFORCED CONCRETE

a. Structural concrete shall have a minimum 28 day compressive strength of 3000 psi Type I.
b. Reinforcing bars shall conform to ASTM Specification A615–79 and shall be Grade 60.
c. All anchor bolts are to meet ASTM Specification F1554 Grade 36.
d. At splices, lap bars 38 diameters. At corners and intersections, make horizontal bars continuous or provide matching corner bars. Around openings in walls and slabs, provide 2–#5, extending 2'–0" beyond edge of opening.

STRUCTURAL STEEL

a. Structural steel rolled shapes shall conform to ASTM A572, Grade 50. Plates and angles shall conform to ASTM A36. Tube shapes shall conform to ASTM A500 Grade B., 46 ksi yield. Pipe shapes shall conform to ASTM A53, Grade B.
b. All bolts shall conform to ASTM Specification A307.
c. Expansion bolts called for on the drawings shall be "HILTI" "WEG–IT", "RED HEAD", or approved wedge type, with the following minimum embedments: 5/8" diameter bolts – 2 3/4", 1/2" diameter bolts – 2 1/4".
d. All welding shall be done by a certified welder.

STRUCTURAL WOOD FRAMING

a. Except where noted otherwise, all 2" lumber shall be Douglas Fir–Larch S4S No.2 or better, and all solid timber beams and posts shall be Douglas Fir–Larch No. 1. All studs over 12'–0" in length shall be 1.3E LSL with allowable fiber stress in bending = 1700 psi, modulus of elasticity of 1.3x10(6) psi, and allowable shear stress = 425 psi.
b. Except as noted otherwise, minimum nailing shall be provided as specified in Table 2304.10.1 "Fastening Schedule" of the I.B.C., 2018 edition.
c. Floor and roof sheathing shall be APA rated Structural I sheathing with exterior glue and graded in accordance with APA standards. Panel identification and thickness shall be as noted on the drawings.
d. Where light gage framing anchors are shown or required, they shall be Simpson "Strong Tie" or equal ICC–ES approved connectors and shall be installed with the number and type of nails recommended by the manufacturer to develop the rated capacity.
e. Glued Laminated timber shall be of such stress grade to provide glued laminated beams with combination symbol 24F–V4.
f. Laminated Veneer Lumber shall be of such stress grade to provide members with allowable fiber stress in bending = 2600 psi, modulus of elasticity of 1.9x10(6) psi, and allowable shear stress parallel to the glue line = 285 psi.
g. Parallel Strand Lumber used in header or beam conditions shall be of such stress grade to provide member with allowable fiber stress in bending = 2900 psi, modulus of elasticity of 2.0x10(6) psi, and allowable shear stress parallel to the glue line = 290 psi. Parallel Strand Lumber used in column conditions shall be of such stress grade to provide members with allowable fiber stress in bending = 2400 psi, modulus of elasticity of 1.8x10(6) psi, and allowable shear stress parallel to the glue line = 190 psi.
h. Trussed rafters shall be designed by a Professional Engineer licensed in the state of Colorado to support the full dead and live loads of the roof, ceiling, and any other superimposed loads. Calculations and shop drawings, including member sizes, lumber species and grades, and substantiating data for connector capacities, shall be submitted to the Architect or Engineer for review and approval prior to fabrication.
i. Roof and floor joists shall be plant–fabricated I–series with LVL wood flanges and plywood or OSB webs, and carry ICBO approval for the composite section. Joists shall be designed to carry the full dead and live loads of the roof and floor and any other superimposed loads. Bridging and blocking shall be installed according to the fabricator's requirement.

BACK FILLING

a. Do not backfill against basement or retaining walls until supporting slabs and floor framing are in place and securely anchored.

EPOXY ADHESIVE ANCHORING SYSTEM

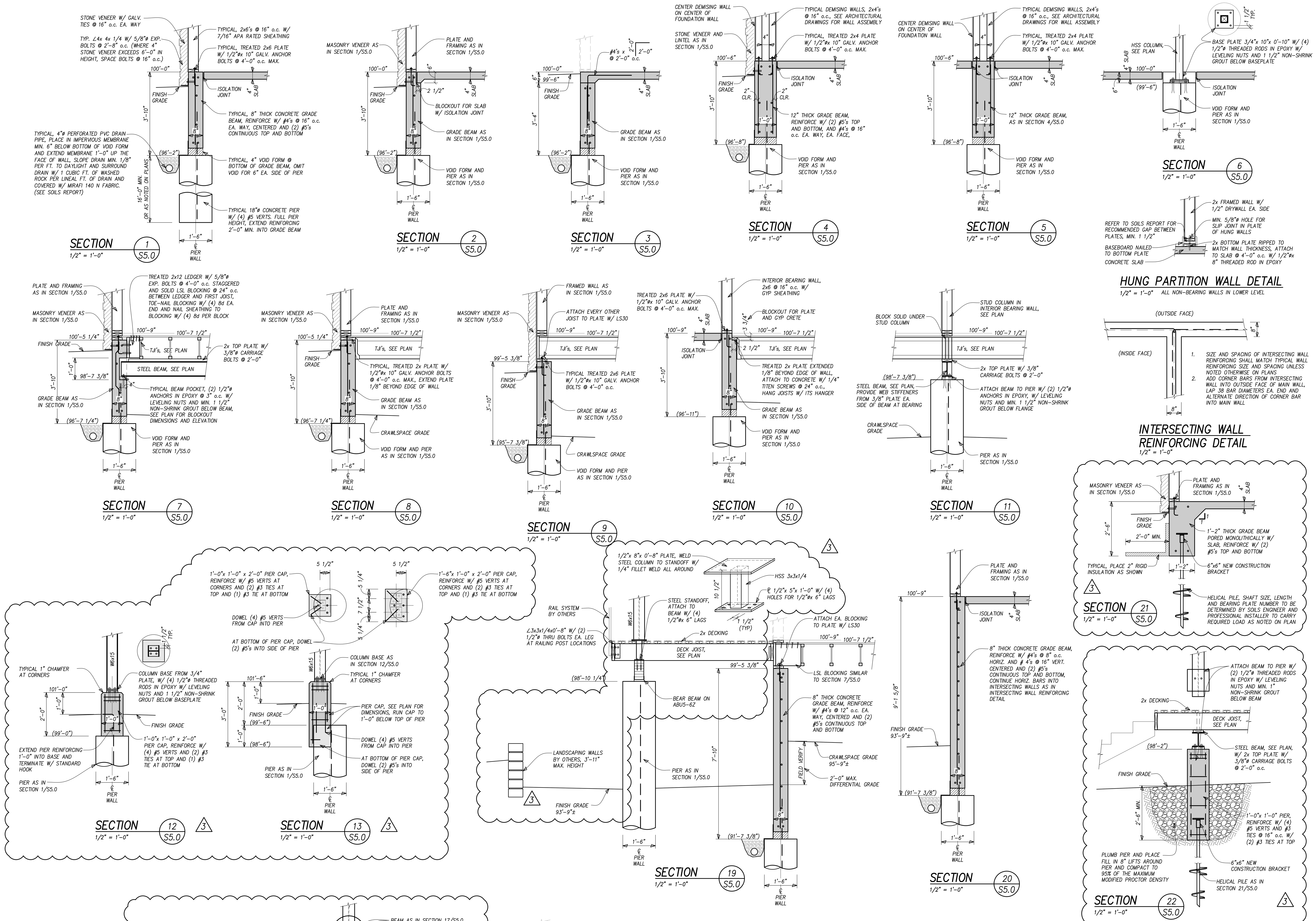
a. Epoxy adhesive anchoring system shall be Hilti HIT–RE 500 V3 or approved equal.
b. Anchor rods shall be furnished with chamfered ends so that either end will accept a nut and washer and meet the requirements of ISO 898 Class 5.8.
c. Anchors shall have the following minimum embedments: 3/4"ø – 6 3/4", 5/8"ø – 5 5/8", 1/2"ø – 4 1/2".

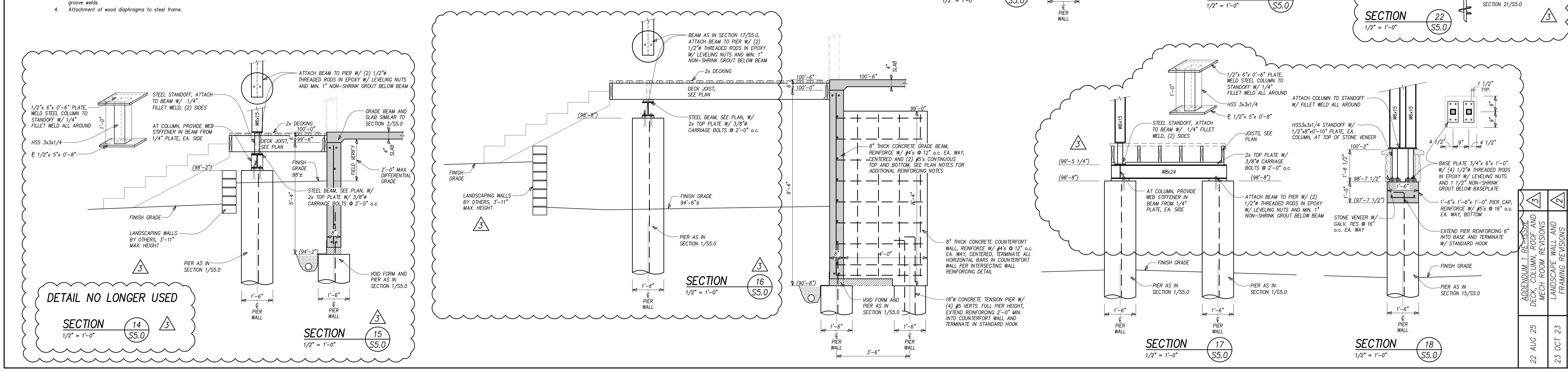
STRUCTURAL ERECTION AND BRACING REQUIREMENTS

a. The structural drawings illustrate the completed structure with all elements in their final positions, properly supported and braced.
b. The Contractor, in the proper sequence, shall provide proper shoring and bracing as may be required during construction to achieve the final completed structure.

SPECIAL INSPECTIONS

a. All special inspections shall comply with chapter 17 of the International Building Code (IBC). These inspections are in addition to the inspections specified in Section 109 of the IBC.
b. The Special Inspector and testing agent shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work.
c. The Special 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 special inspection.
d. The credentials of all inspectors, administrators and testing technicians shall be provided if requested.
e. The Special Inspector shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge.
f. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge.
g. The Special Inspection program does not relieve the Contractor of his or her responsibilities.
h. A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.
i. Job site safety and means and methods of construction are solely the responsibility of the Contractor.
j. The Special Inspection program does not relieve the Contractor or any other entity of any contractual duties, including quality control, quality assurance, or safety.
k. The Contractor is solely responsible for construction means, methods, and job site safety.
l. Special inspection is required for the off site fabrication of structural steel load–bearing members and assemblies unless the work is done on the premises of a fabricator registered and approved to perform such work without special inspection.
m. In addition to special inspections required by chapter 17 of the IBC and those required by the Building Official the following site specific inspections are required:
   1. Installation of Epoxy Adhesive Anchors.
   2. Installation and tightening of high strength bolts.
   3. Visual inspection of all welds and continuous inspection of all complete and partial penetration groove welds.
   4. Attachment of wood diaphragms to steel frame.





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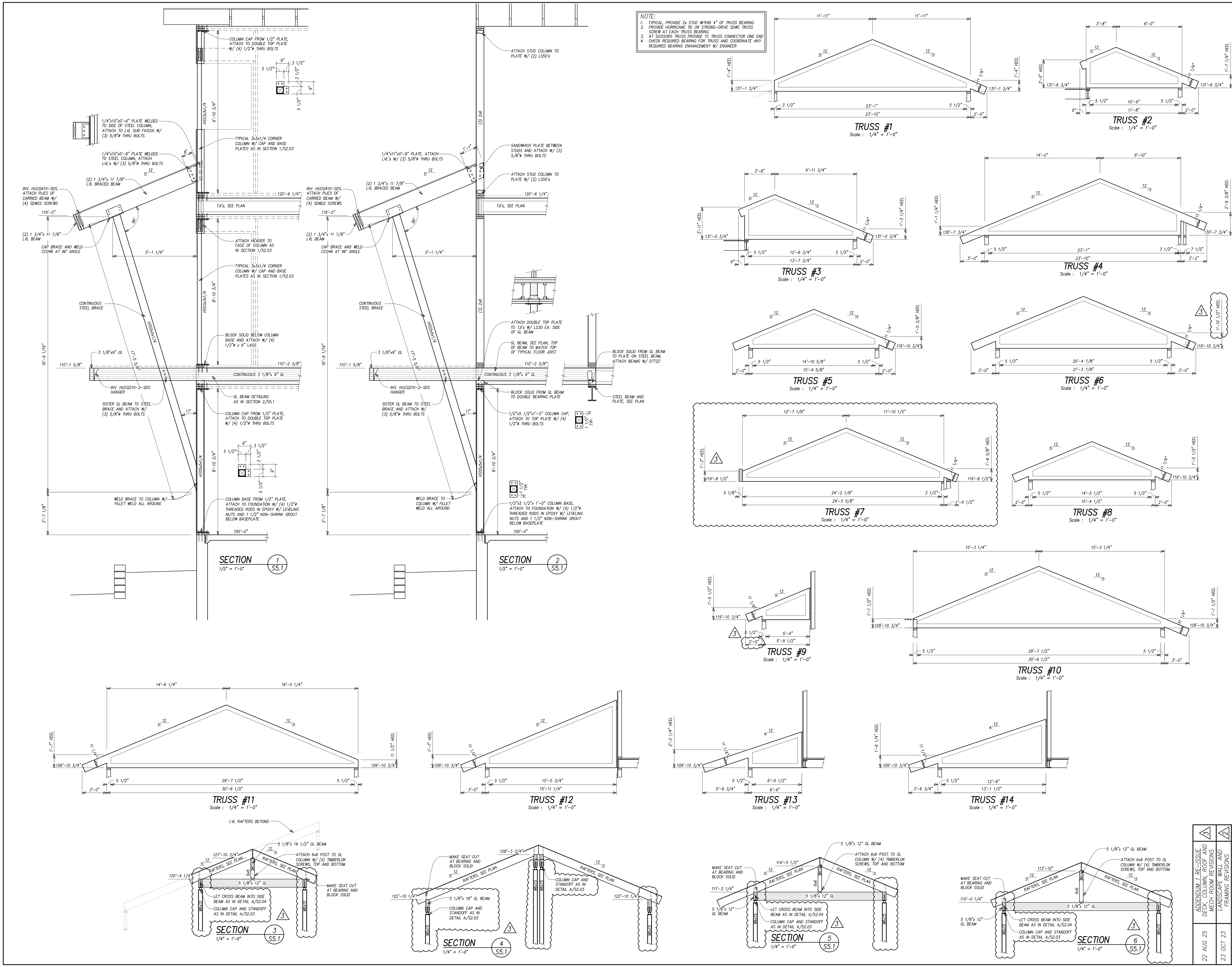

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