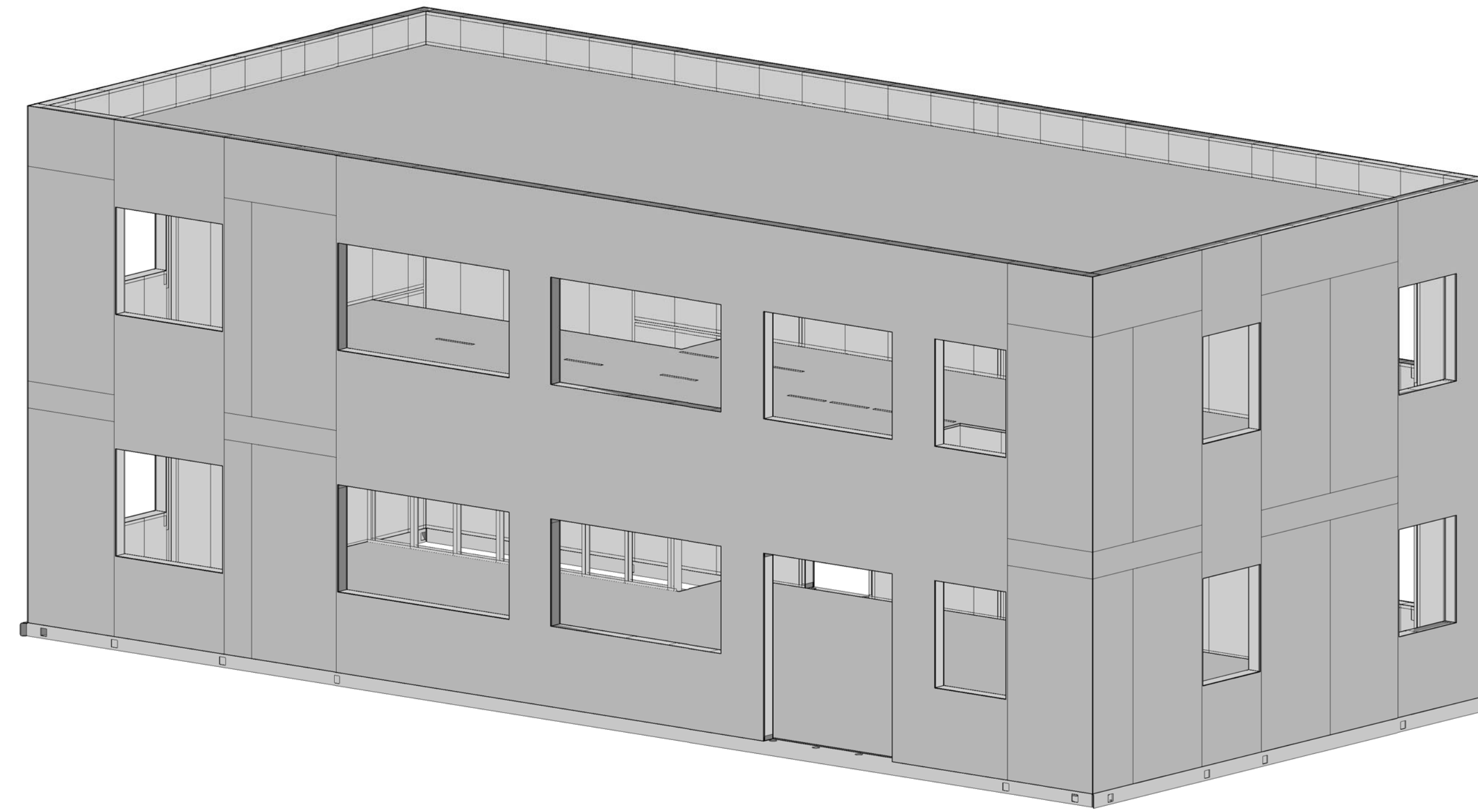


CFS NEES

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PHASE 2a

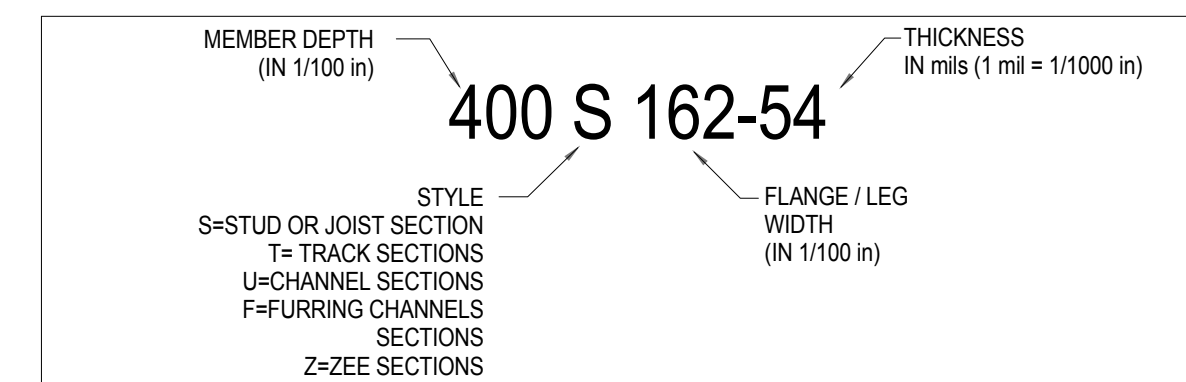


ABBREVIATIONS FOR COLD-FORMED GENERAL NOTES

A.D. - ARCHITECTURAL DRAWINGS	L.V.F. - LOW VELOCITY FASTENER (SEE GENERAL NOTES FOR SIZE & TYPE)
ADD'L - ADDITIONAL	LVL - LEVEL
ALT. - ALTERNATE	LWC - LIGHT WEIGHT CONCRETE
BM - BEAM	MAX - MAXIMUM
B.O. - BOTTOM OF	MFG - MANUFACTURER
BLDG - BUILDING	MIN - MINIMUM
BLKG - BLOCKING	(N) - NEW
BTWN - BETWEEN	N.B.D. - NOT BY DEVCO
CL OR CLR. - CLEAR	N.T.S. - NOT TO SCALE
CLG. - CEILING	N/A - NOT APPLICABLE
COL. - COLUMN	N.S. - NEAR SIDE
CONC. - CONCRETE	NWC - NORMAL WEIGHT CONCRETE
CONN. - CONNECTION	O' - OVER
CONT. - CONTINUOUS	O.C. - ON CENTER
CRC - COLD ROLLED CHANNEL	O.H. - OPPOSITE HAND
C.W. - CURTAINWALL	O.H.D. - OVERHEAD DOOR
DBL. - DOUBLE	OPNG - OPENING
DEFL. - DEFLECTION	OPWJ - OPEN WEB JOIST
DIAG. - DIAGONAL	PC. - PIECE
DIM - DIMENSION	PERP. - PERPENDICULAR
DIV ANG OR DA - DIVERTER ANGLE	PT - POINT
DWG - DRAWING	REINF. - REINFORCING
EA - EACH	REF. - REFERENCE
E.D. - EDGE DISTANCE	REQD - REQUIRED
EL OR ELEV. - ELEVATION	R.F.I. - REQUEST FOR INFORMATION
(E) - EXISTING	R.O. - ROUGH OPENING
E.O.D. - EDGE OF DECK	S.D. - STRUCTURAL DRAWINGS
E.O.R. - ENGINEER OF RECORD	SECT. - SECTION
E.O.S. - EDGE OF SLAB	SIM. - SIMILAR
EQ. - EQUAL	SPL BRK - SPECIAL BRAKE
F.O. - FACE OF	SQ. - SQUARE
FLG - FLANGE	STL - STEEL
FLR. - FLOOR	SW - SHEARWALL
F.S. - FAR SIDE	T&B - TOP & BOTTOM
GA - GAUGE	T.O. - TOP OF
G.C. - GENERAL CONTRACTOR	TYP. - TYPICAL
HDR - HEADER	U.N.O. - UNLESS NOTED OTHERWISE
HGT. - HEIGHT	VERT. - VERTICAL
HORIZ OR HOR. - HORIZONTAL	W.B. - WEDGE BOLT
HSS - HOLLOW STRUCTURAL SECTION	WDW. - WINDOW
HWC - HIGH WIND CORNER. PER UBC, AREA EXTENDING FROM BUILDING CORNERS 10 FEET OR 0.1 TIMES THE LEAST WIDTH OF THE BUILDING, WHICHEVER IS LESS.	WF - WIDE FLANGE
I.L.O. - IN LIEU OF	W - WITH
INV. - INVERTED	WIN - WITHIN
JT. - JOINT	W/O - WITHOUT
LG. - LONG	W.P. - WORK POINT
LOCN - LOCATION	
LLH - LONG LEG HORIZONTAL	
LLV - LONG LEG VERTICAL	

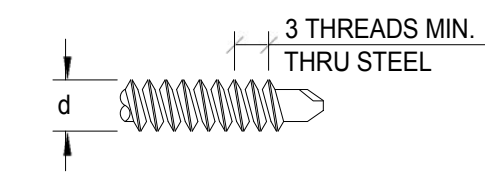
COLD-FORMED STEEL GENERAL NOTES

- DESIGN CRITERIA**
2009 IBC
OCCUPANCY CATEGORY II
WIND: 85 MPH (3 SECOND GUST), EXP. B, I=1.0
SEISMIC: $S_{ps} = 0.93$
SEISMIC SITE CLASS D, IE=1.0
SEISMIC DESIGN CATEGORY D
 $S_s = 1.33$
 $S_1 = 0.50$
 $R = 6.5$
 $C_u = 4$
 $W_q = 3$
- DEFL. LIMITS:** FLOOR = L/360 LL; L/240 DL + LL
O.C. - ON CENTER
ROOF = L/240 LL; L/180 DL + LL
- DESIGN LIVE LOADS:**
FLOOR: OFFICES = 50 psf
OFFICE CORRIDORS ABOVE 1ST FLOOR = 80 psf
PARTITIONS = 15 psf
ROOF: ROOF LIVE = 20 psf
- ALL COLD FORMED STEEL STUDS, JOIST, TRACK & MISC. SHAPES MILL CERTIFIED STEEL TO MEET:**
A. ASTM A1003 ST GRADE 50, TYPE H 54-97 mil GALV. STEEL
B. ASTM A1003 ST GRADE 33, TYPE H 18-43 mil GALV. STEEL
EXTERIOR MEMBERS - G60 MINIMUM
- ALL STEEL STUDS, JOIST & TRACK SHALL HAVE A LEGIBLE LABEL, STAMP OR EMBOSSEMENT, AT A MAXIMUM OF 48" O.C., INDICATING THE MANUFACTURER'S NAME, LOGO OR INITIALS, ICC EVALUATION SERVICE REPORT NUMBER, THE MATERIAL BASE METAL THICKNESS (UNCOATED) IN .001 in. AND THE YIELD STRENGTH IF DIFFERENT THAN 33 ksi.**
- MILL CERTIFICATES FROM THE COIL PRODUCER SHALL BE MADE AVAILABLE IF REQUESTED. MILL CERTIFICATE TO INCLUDE AS A MINIMUM THE CHEMICAL COMPOSITION, YIELD STRENGTH, TENSILE STRENGTH, ELONGATION, AND COATING THICKNESS.**
- MINIMUM SECTION PROPERTIES: (PER SSMA, ICC ER-4943-P)**



MINIMUM DELIVERABLE THICKNESS (MILS)	GAUGE	DESIGN THICKNESS (INCHES)
33	20	.0346
43	18	.0451
54	16	.0556
68	14	.0713
97	12	.1017
118	10	.1242

- STUDS AND TRACKS THAT COMPRISE A HEADER, STRONGBACK OR SILL SHALL NOT BE SPLICED.
- SCREW VALUES USED IN DESIGN MEET 2007 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" (ASI S100-07) SECTION E4 FOR SCREW CONNECTIONS. SCREWS TO CONFORM TO SAE J78.



THE NOMINAL STRENGTH OF THE SCREWS TESTED IN ACCORDANCE WITH SECTION F1.1(a) OF THE ASI S100-07, SHALL NOT BE LESS THAN:

SHEAR			TENSION		
#8	#10	1/4"	#8	#10	1/4"
1860	2003	2440	641	743	4580

- STUDS SHALL BE SEATED SQUARELY WITH MAX. 1/8" GAP BETWEEN END OF STUDS AND WEB OF TOP AND BOTTOM TRACKS TYPICAL AT ALL BEARING WALLS.

SHEET INDEX

SF 1.00A	COVER SHEET - PHASE 2a
SF 4.00	FOUNDATION PLAN - PHASE 1
SF 4.00A	FOUNDATION PLAN - PHASE 2a
SF 4.01A	LEVEL 1 LAYOUT PLAN - PHASE 2a
SF 4.02A	FLOOR JOIST LAYOUT PLAN - PHASE 2a
SF 4.03A	ROOF JOIST LAYOUT PLAN - PHASE 2a
SF 4.10	ELEVATIONS
SF 4.11	ELEVATIONS
SF 4.20	WALL SECTIONS
SF 4.30	SHEAR WALL ELEVATIONS
SF 4.40	DETAILS
SF 4.50	FRAMED OPENING DETAILS
SF 5.10	SHEATHING ELEVATIONS
SF 5.11	SHEATHING ELEVATIONS
SF 6.00	LEVEL 1 SENSOR PLANS
SF 6.01	LEVEL 2 SENSOR PLANS
SF 6.02	ROOF SENSOR PLANS

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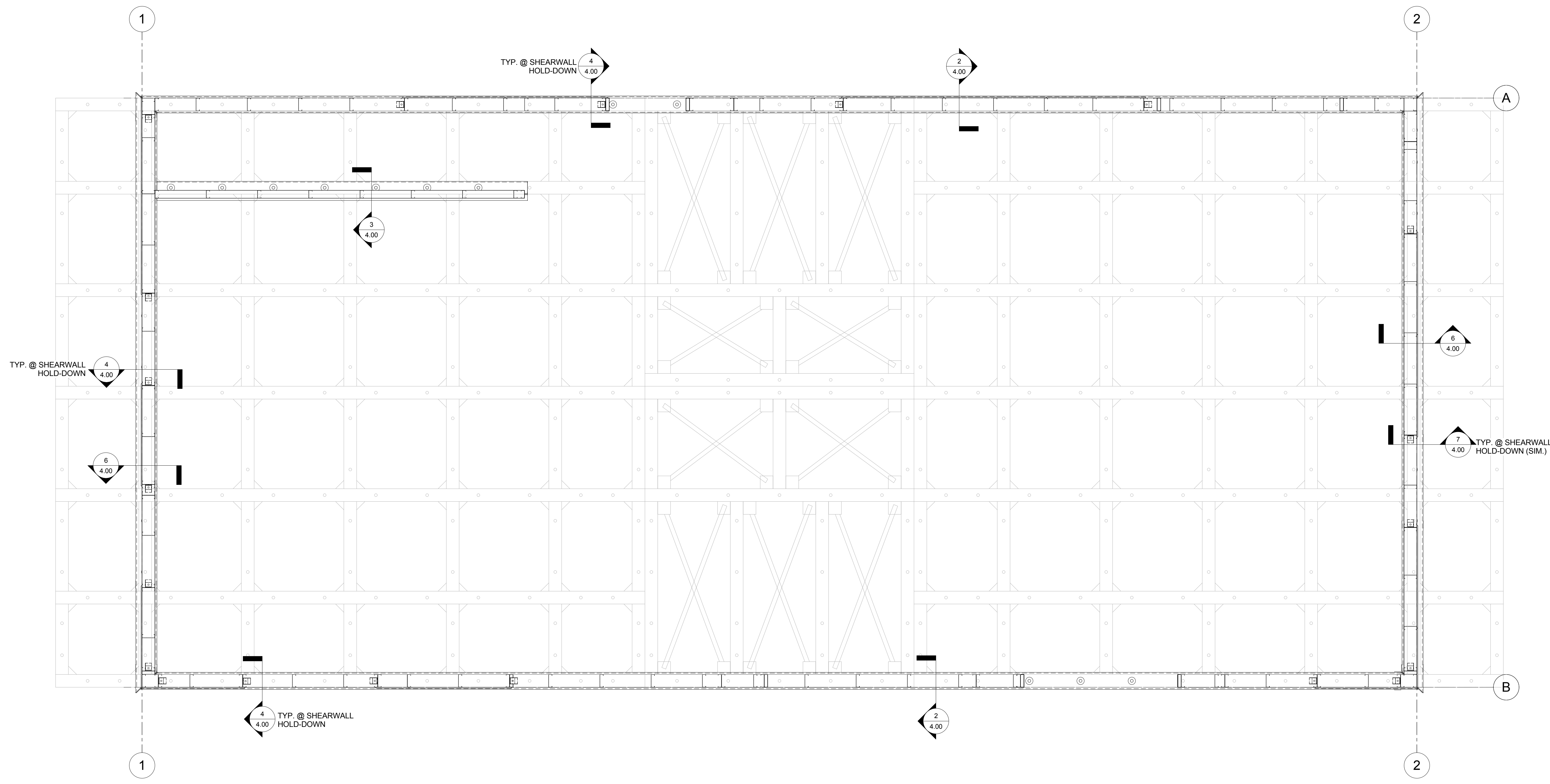
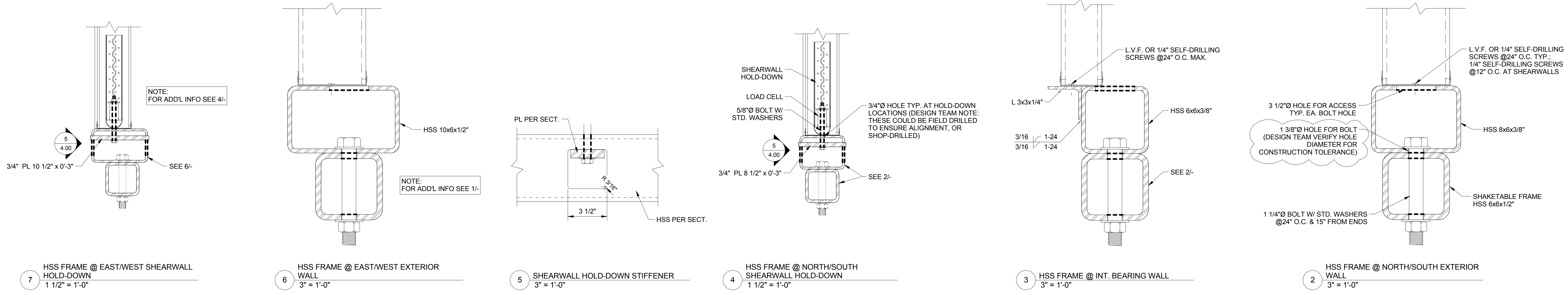
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PROJECT LOCATION: JOHN HOPKINS UNIVERSITY

SHEET TITLE: COVER SHEET - PHASE 2a

JOB NO. 10-277
DRAWN BY: DEVCO
DRAWING: SF 1.00A



1 FOUNDATION PLAN
1/2" = 1'-0"

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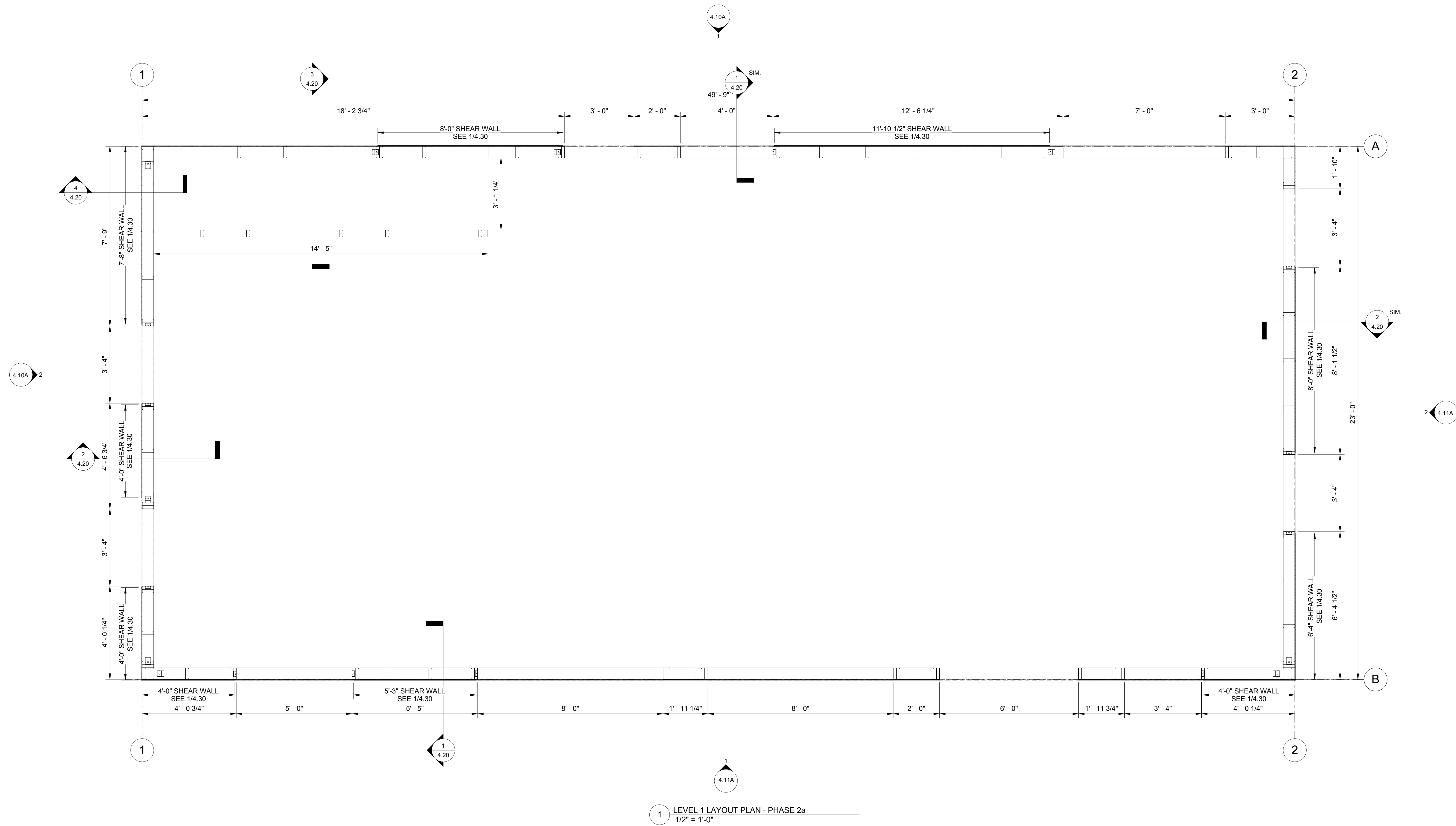
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PROJECT LOCATION:
CLIENT: JOHNS HOPKINS UNIVERSITY

SHEET TITLE:
FOUNDATION PLAN

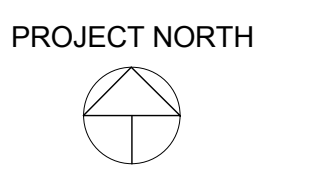
JOB NO. 10-277
DRAWN BY: DEVCO
DRAWING:
SF 4.00



6/19/2013 10:34:07 AM



1 LEVEL 1 LAYOUT PLAN - PHASE 2a
1/2" = 1'-0"



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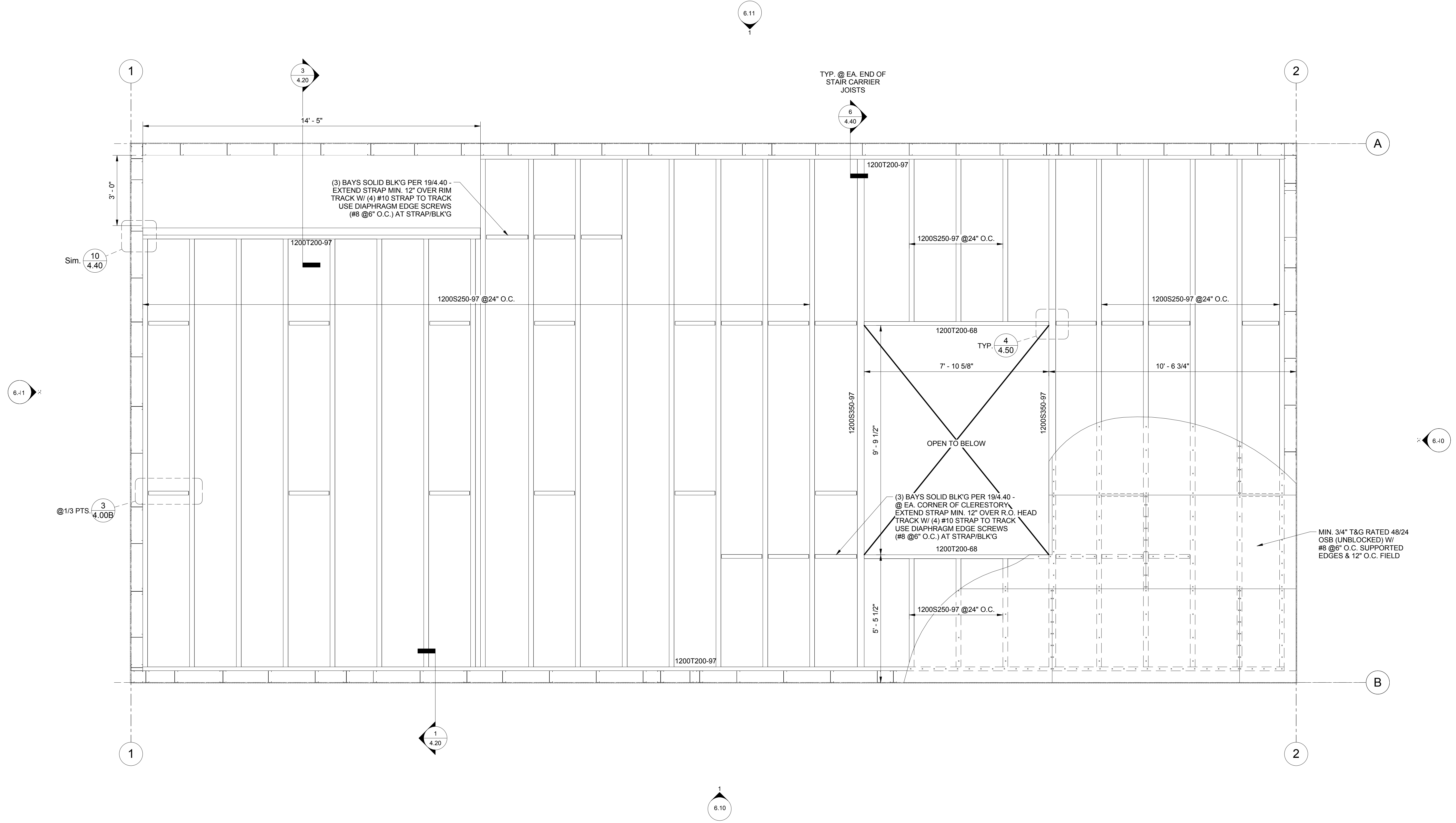
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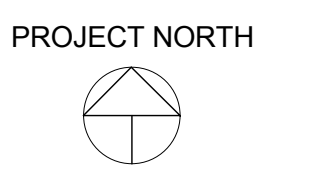
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JOB NO. 10-277
 DRAWN BY: DEVCO
 DRAWING: SF 4.01A

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1 FLOOR JOISTS LAYOUT - PHASE 2a
1/2" = 1'-0"



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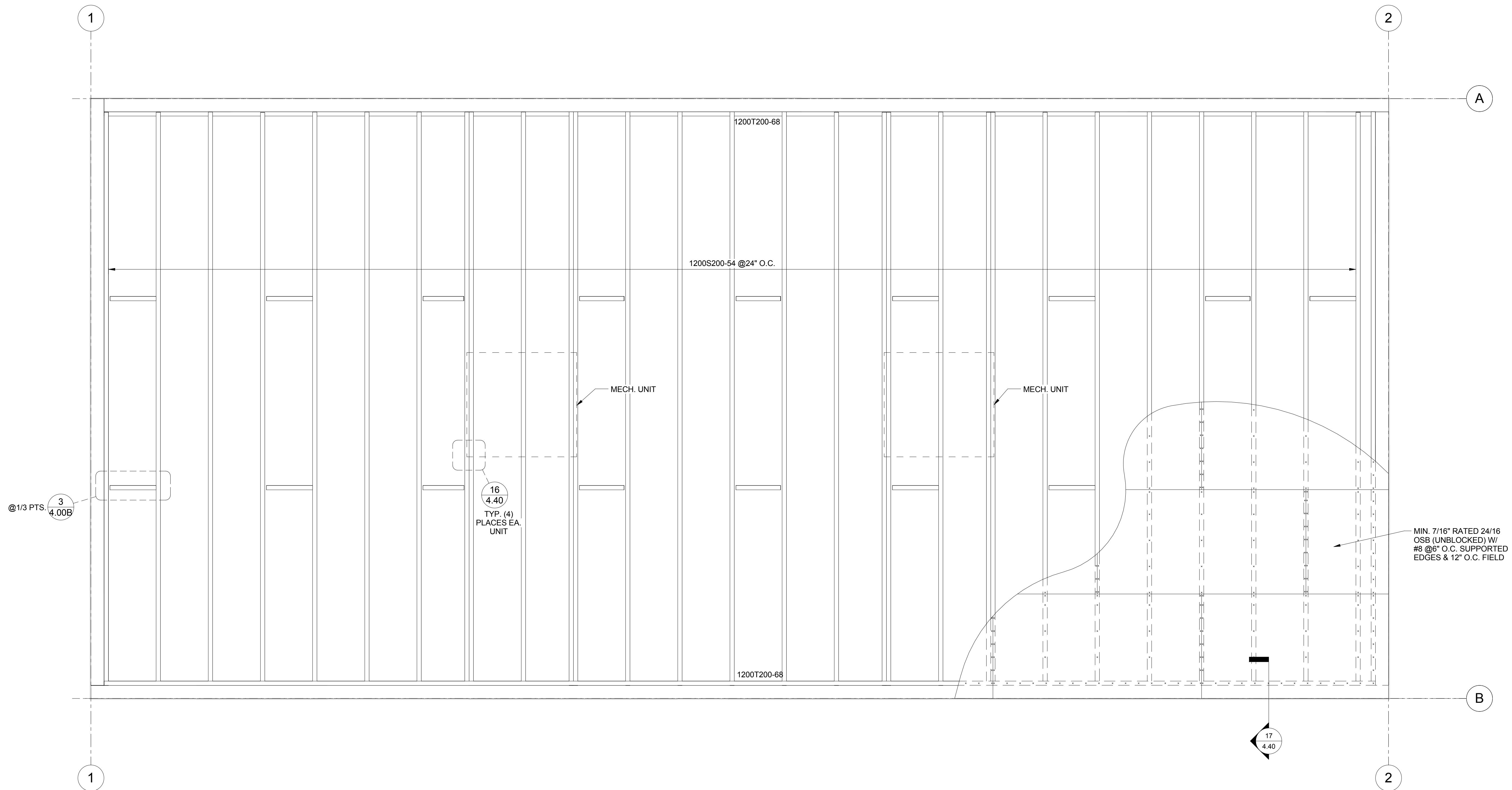
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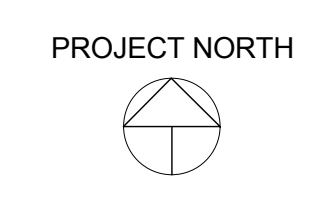
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SHEET TITLE:
FLOOR JOIST LAYOUT PLAN - PHASE 2a

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DRAWING: SF 4.02A



1 ROOF JOISTS LAYOUT - PHASE 2a
1/2" = 1'-0"



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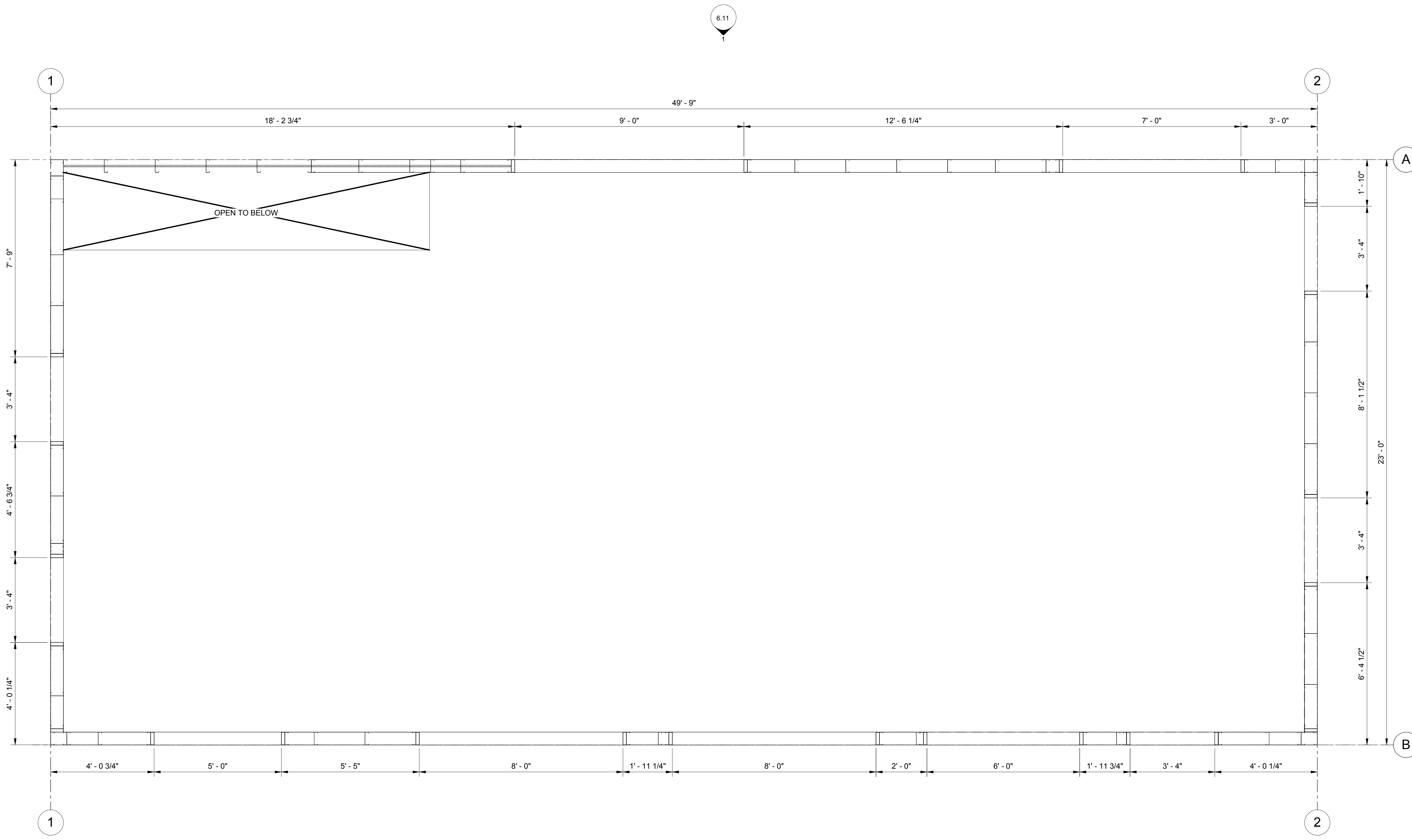
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SHEET TITLE:
ROOF JOIST LAYOUT PLAN - PHASE 2a

JOB NO. 10-277
DRAWN BY: DEVCO
DRAWING:
SF 4.03A

6.41



6.11

6.40

6.10

1 LEVEL 2 LAYOUT PLAN - PHASE 2a
1/2" = 1'-0"

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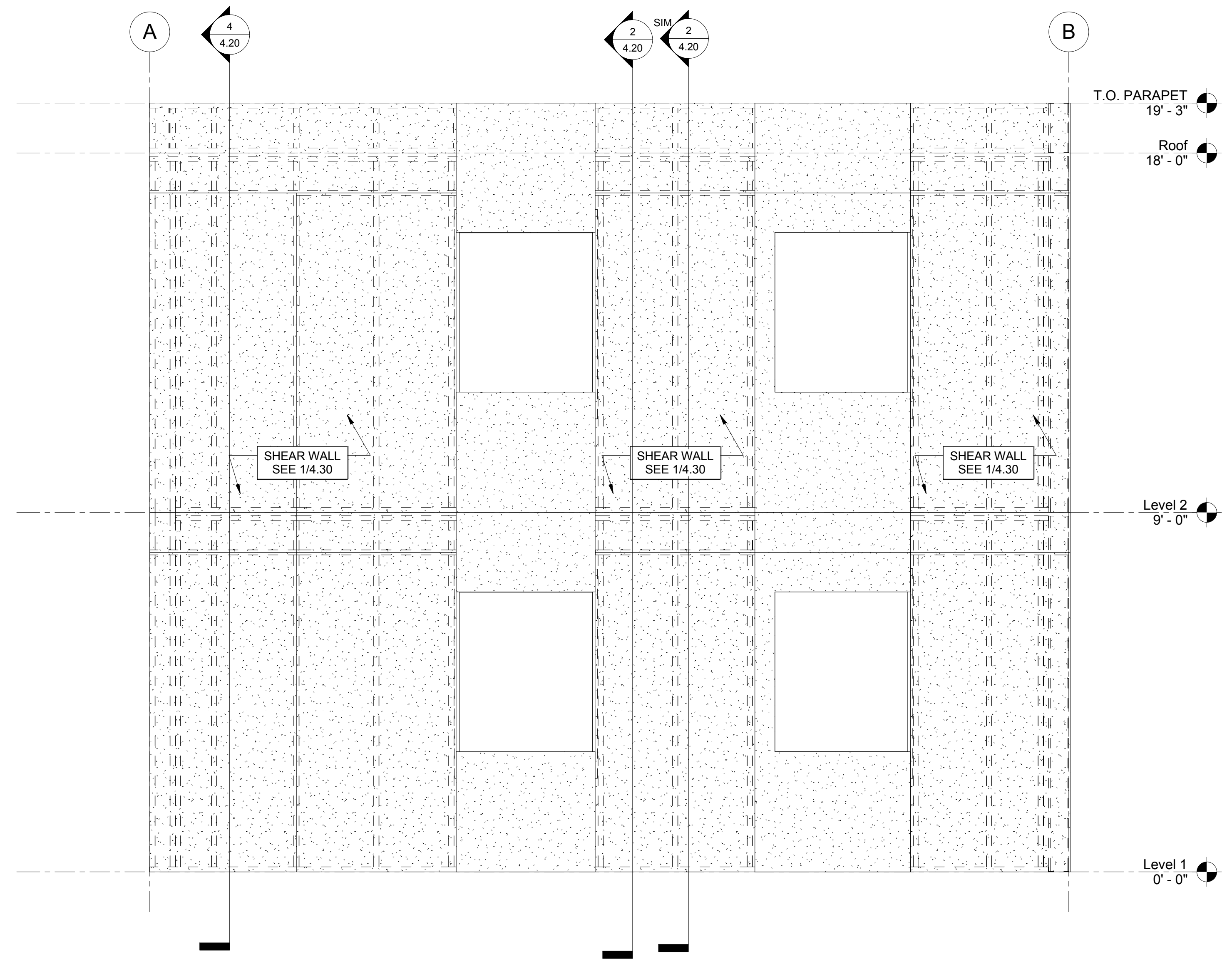
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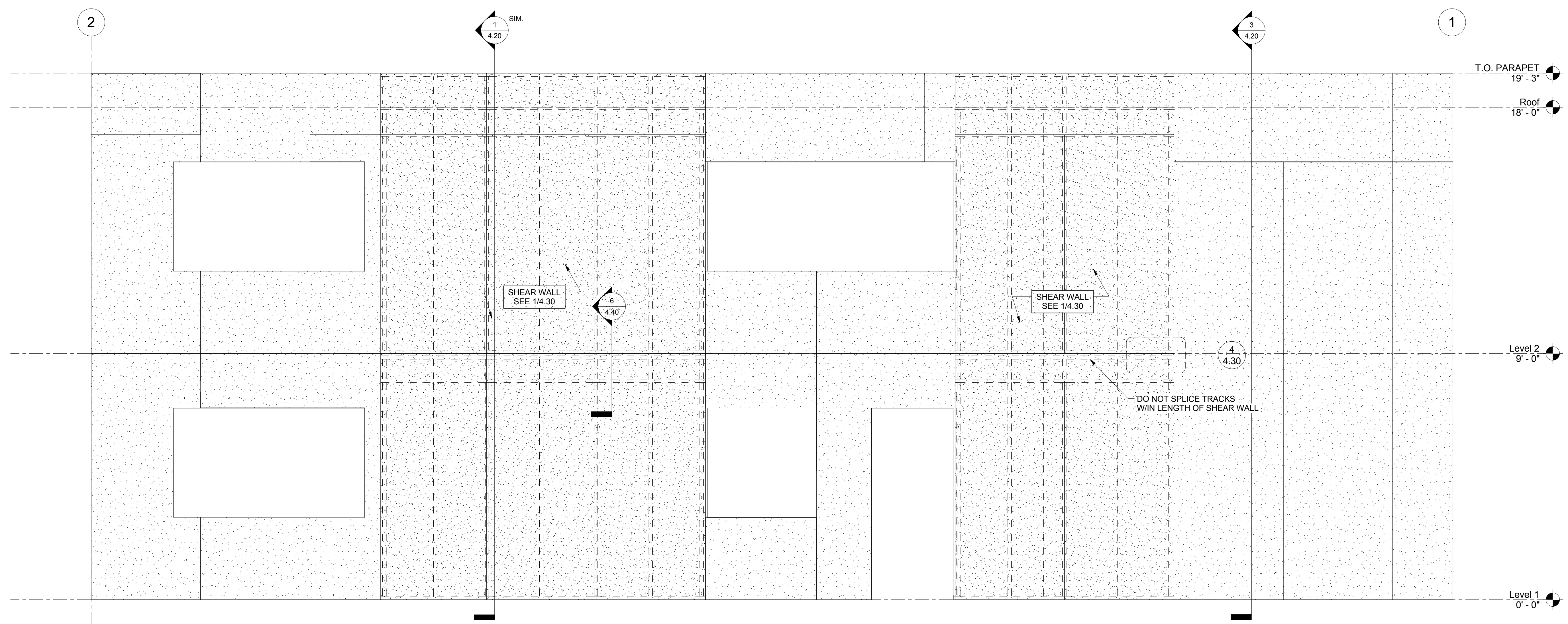
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LEVEL 2 LAYOUT PLAN - PHASE 2a

JOB NO. 10-277
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SF 4.04A



2 WEST ELEVATION WITH SHEATHING
1/2" = 1'-0"



1 NORTH ELEVATION WITH SHEATHING
1/2" = 1'-0"

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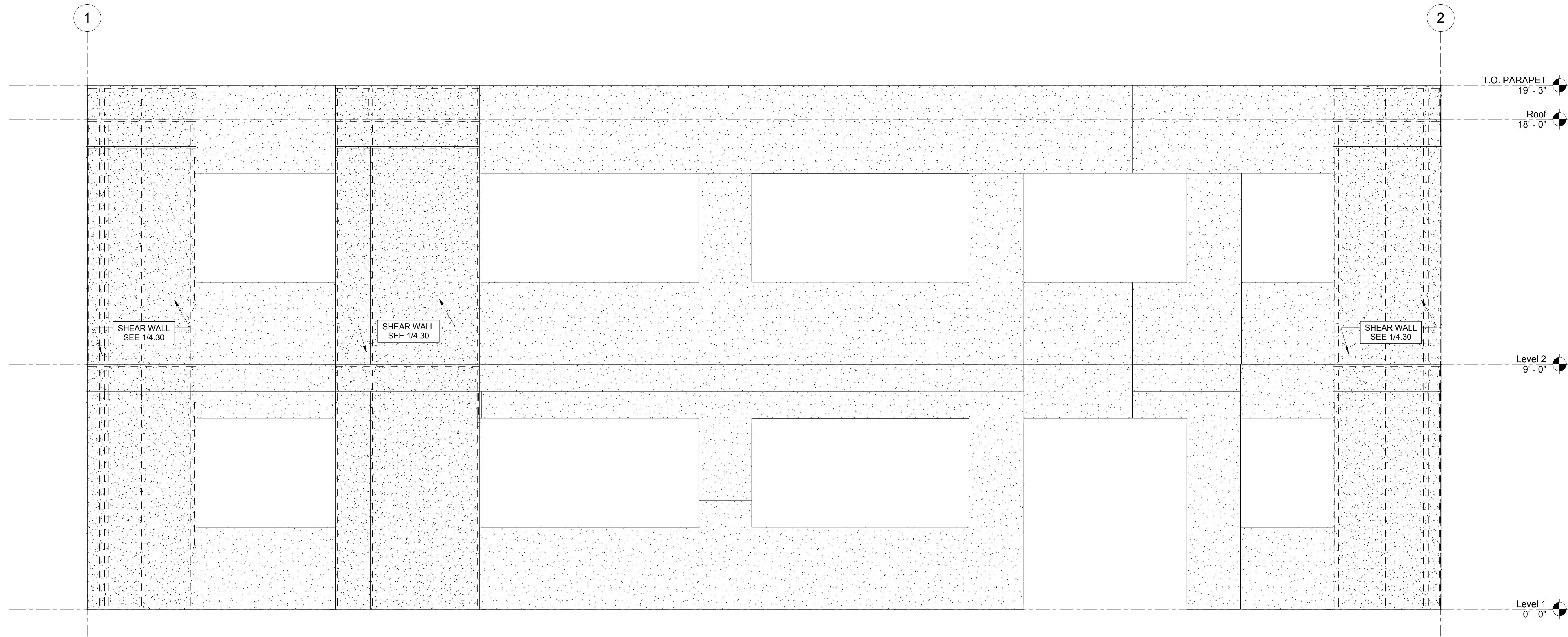

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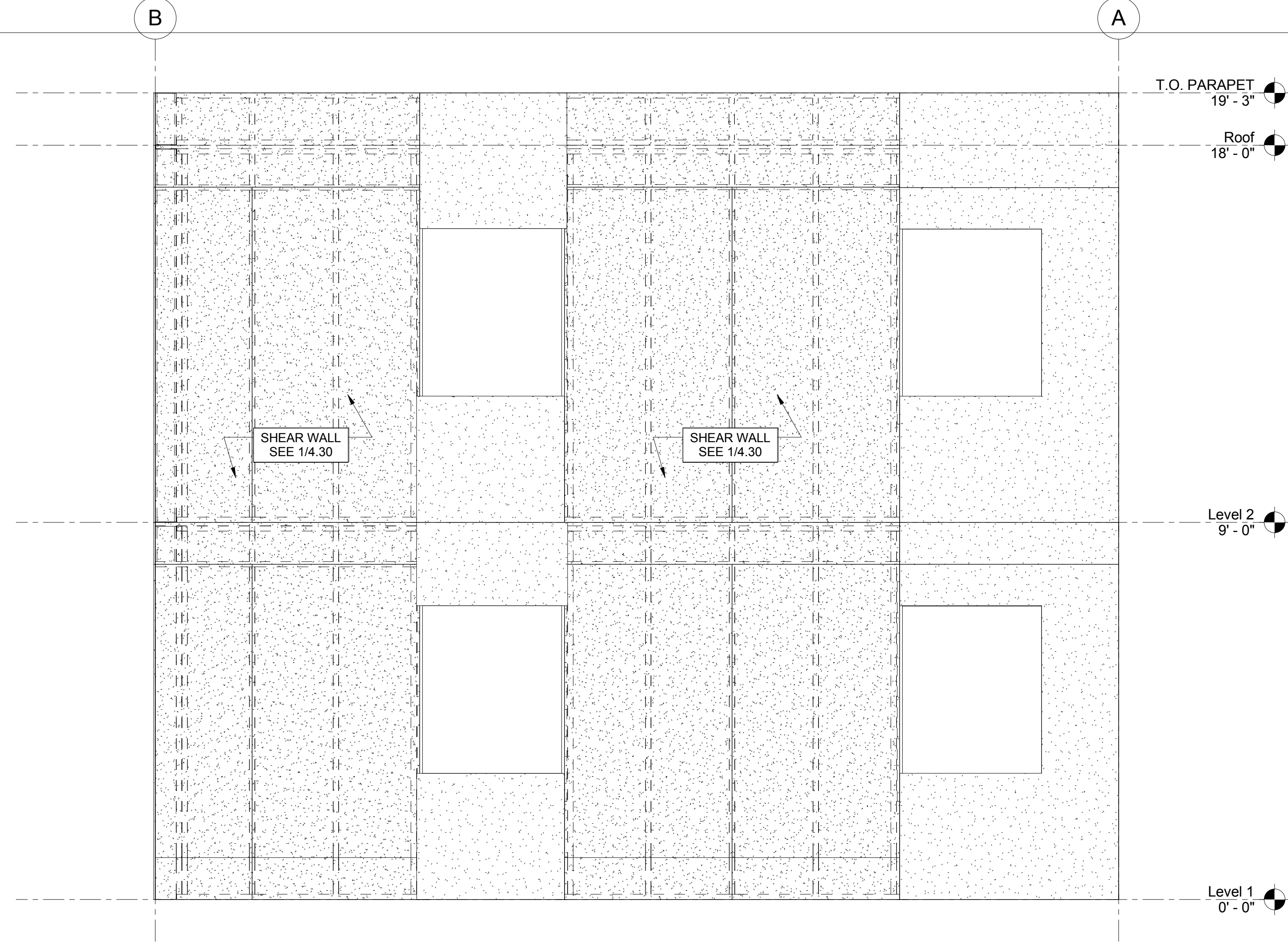
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 ELEVATIONS - PHASE 2

JOB NO. 10-277
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 DRAWING:
 SF 4.10A

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1 SOUTH ELEVATION WITH SHEATHING
1/2" = 1'-0"



2 EAST ELEVATION WITH SHEATHING
1/2" = 1'-0"

SHEET TITLE:

ELEVATIONS - PHASE 2

JOB NO. 10-277

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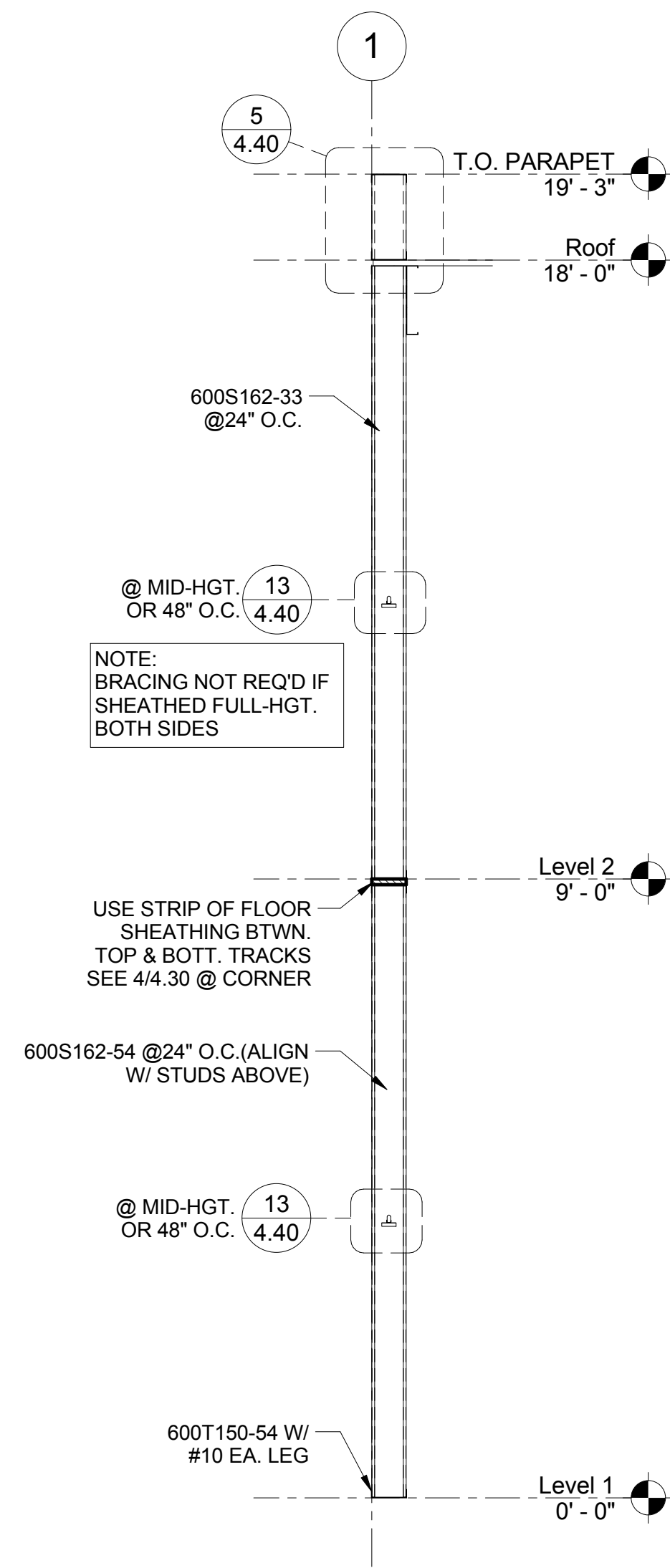
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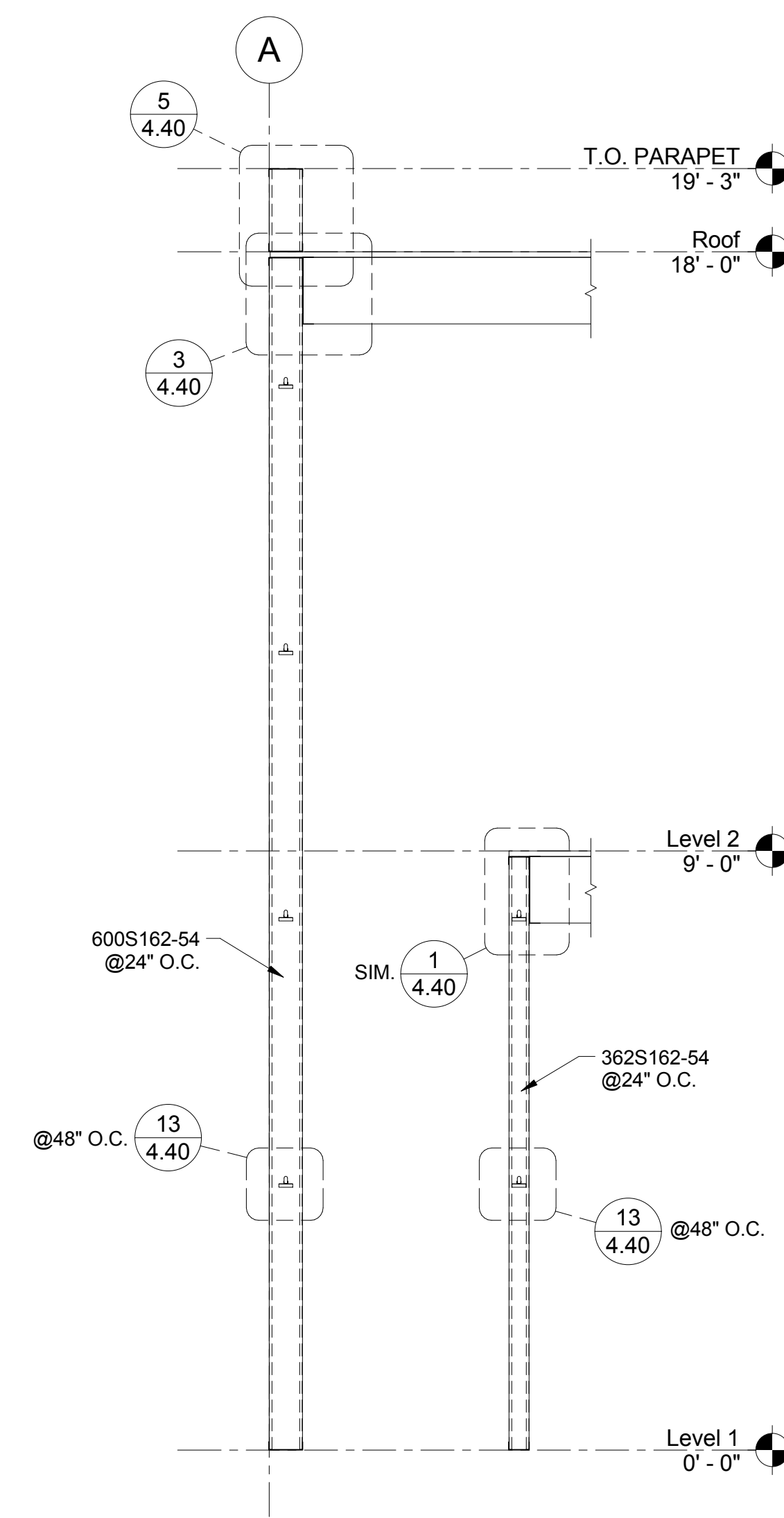
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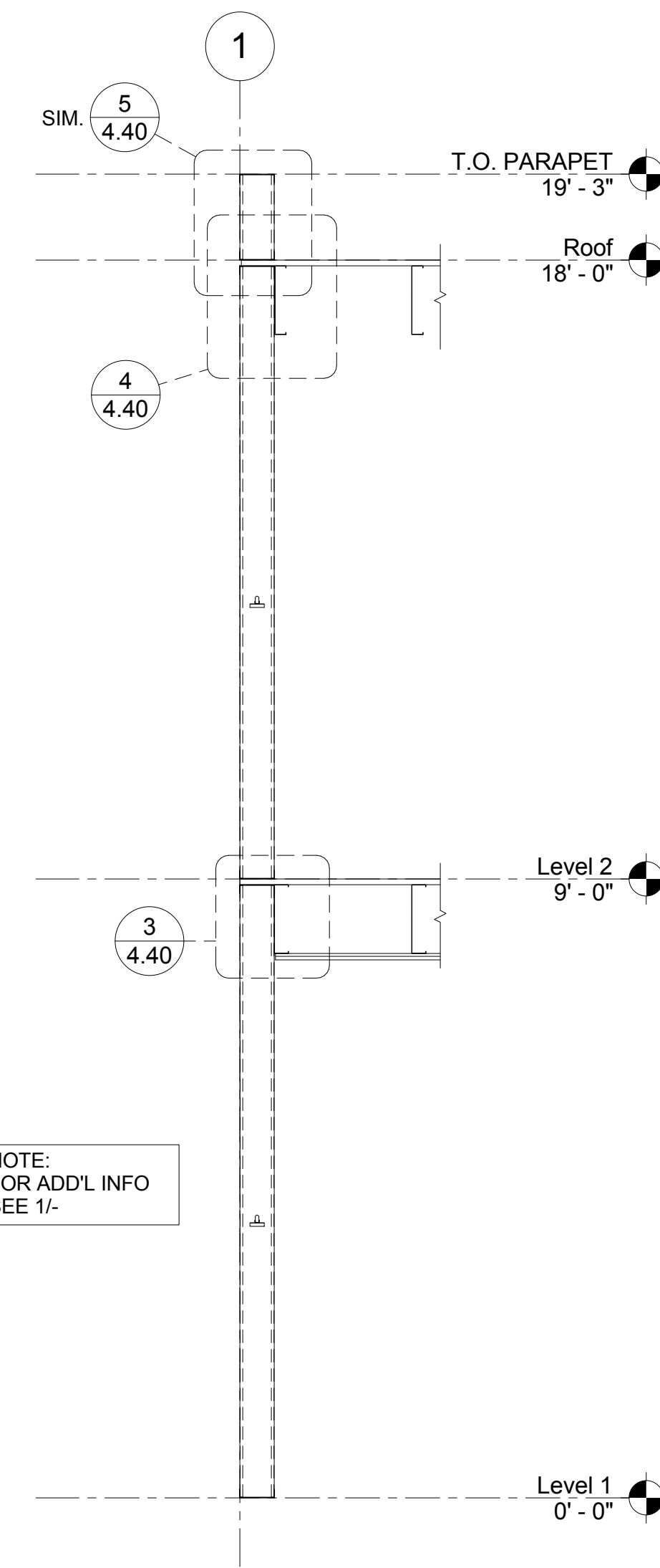
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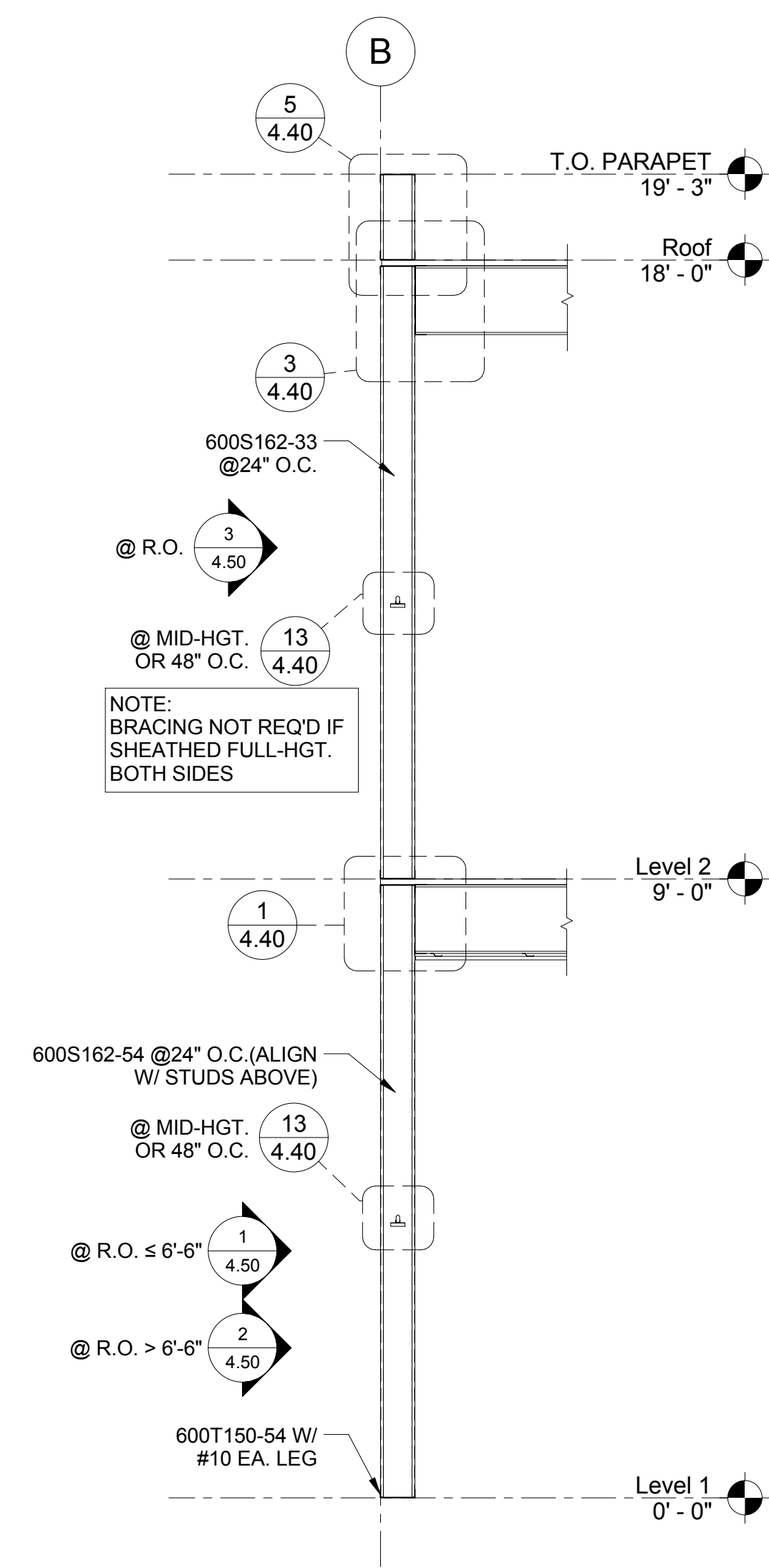
4 WALL SECTION 4
1/2" = 1'-0"



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



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



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

SHEET TITLE:

WALL SECTIONS

PROJECT:
CFS - NEES

PROJECT LOCATION:

CLIENT:
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JOB NO. 10-277

DRAWN BY: DEVCO

DRAWING:

SF 4.20

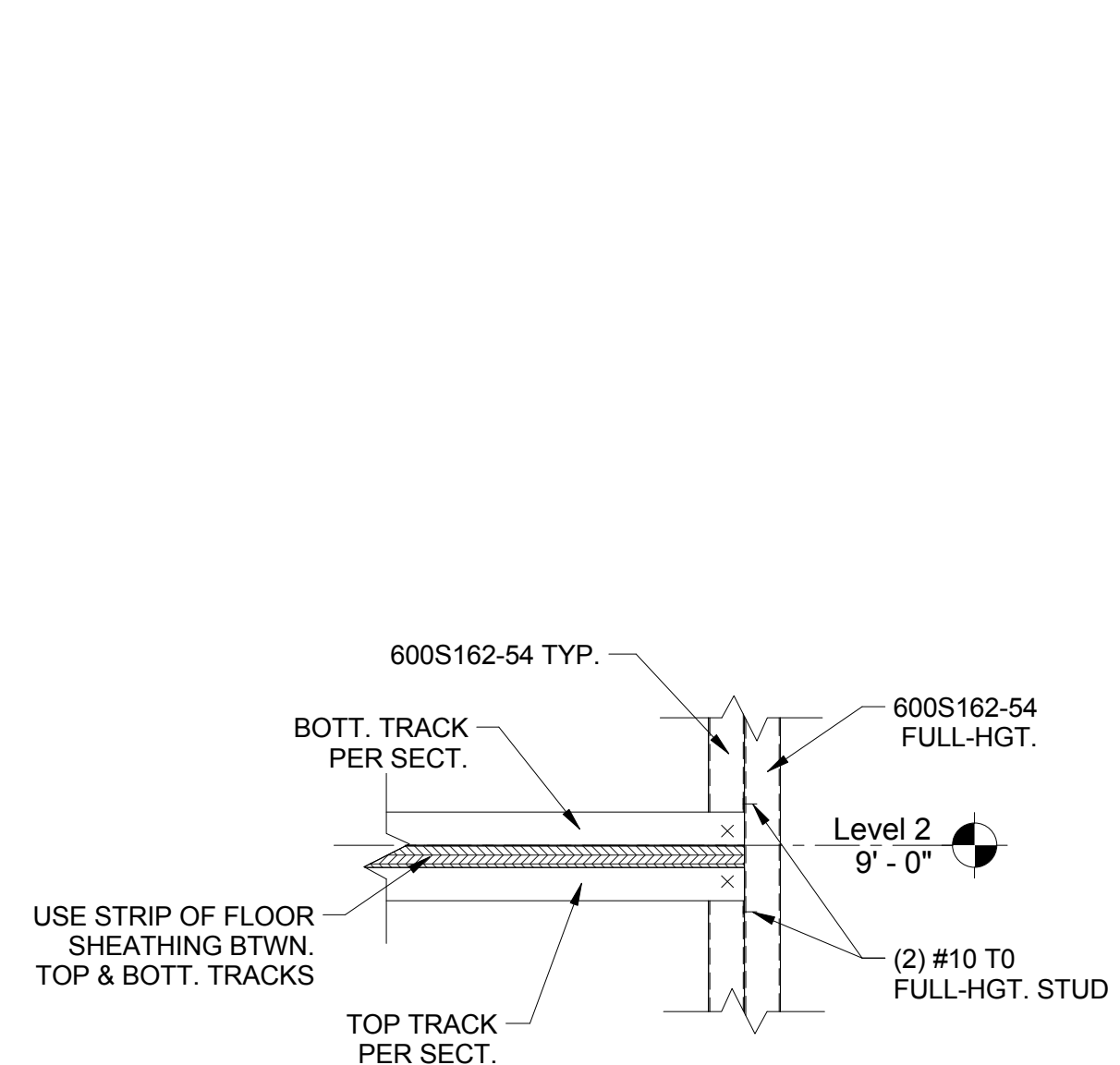
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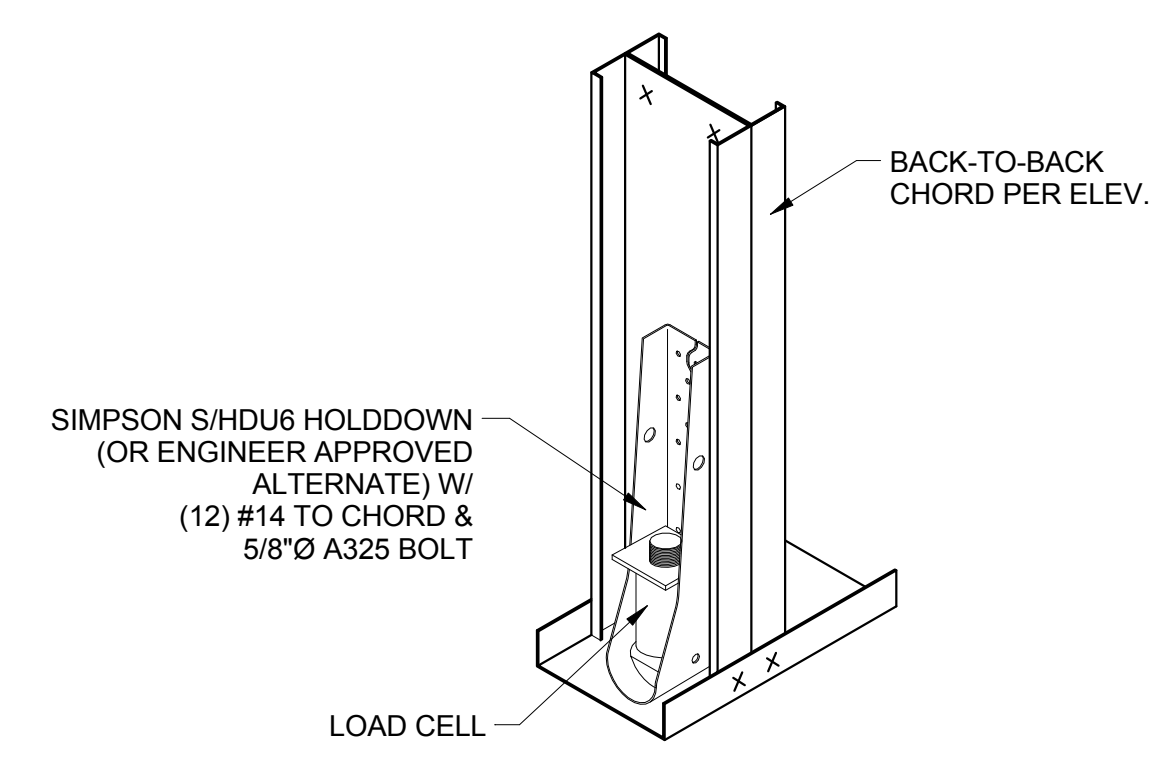
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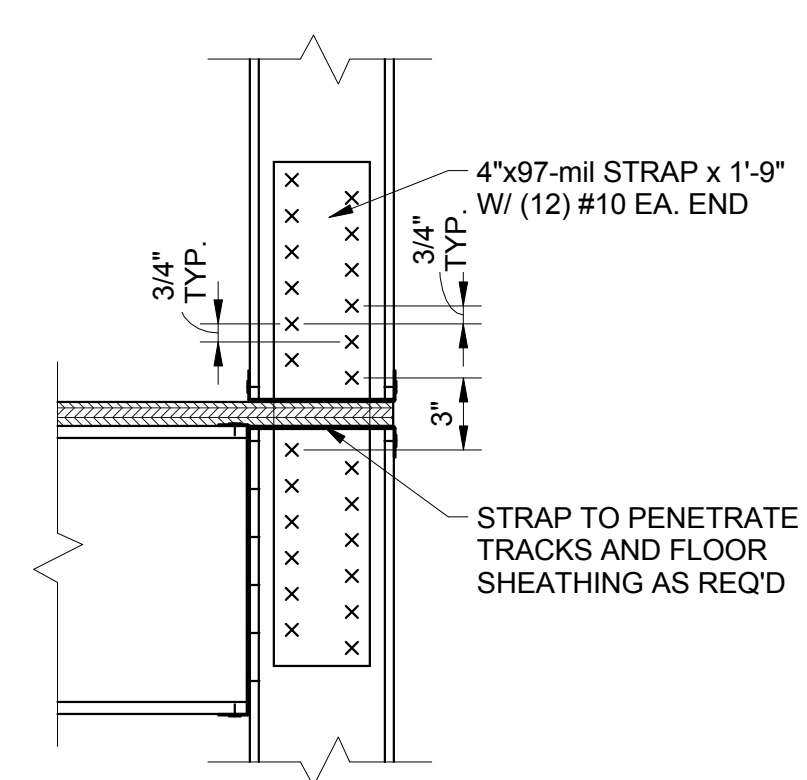
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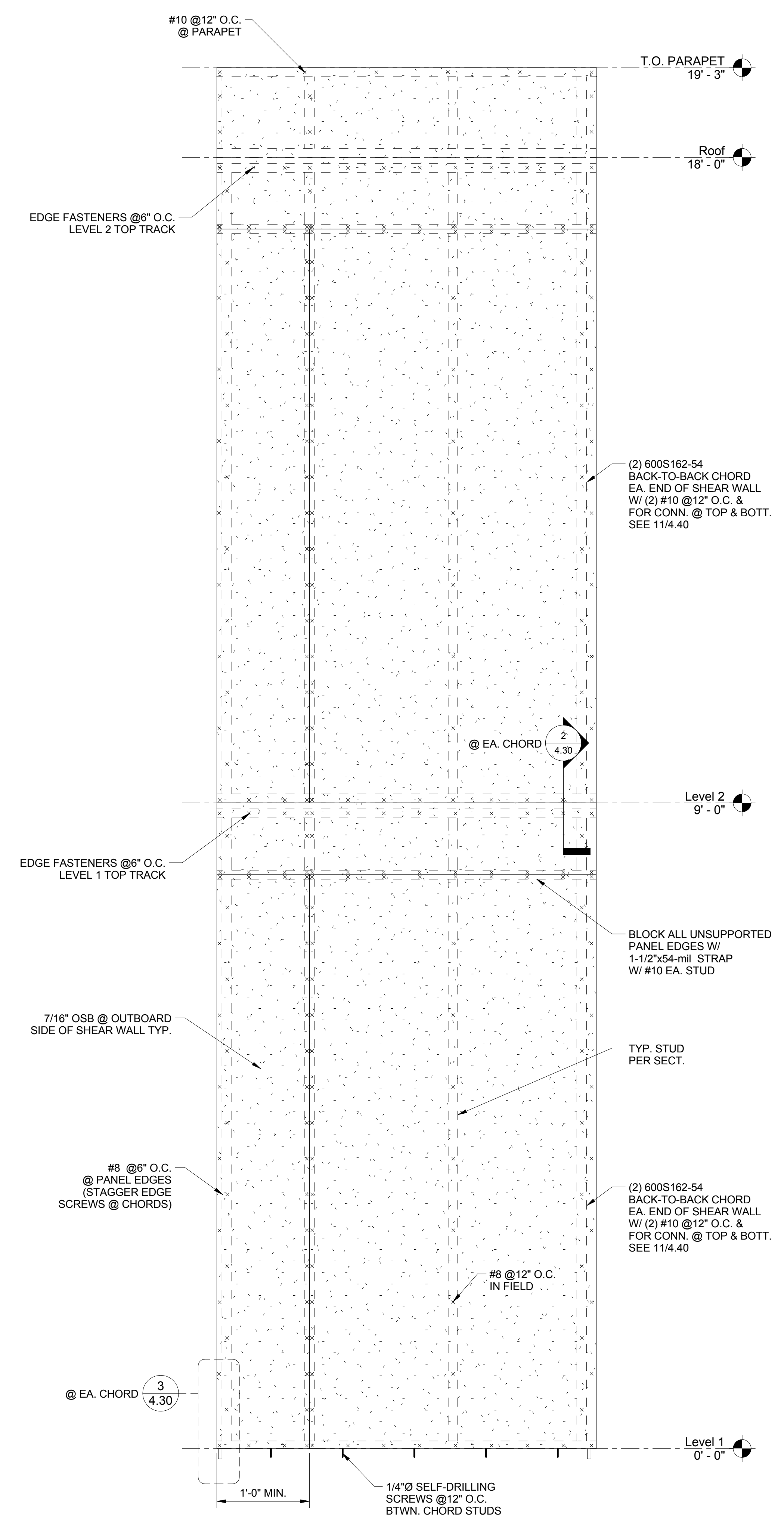
4 ENLARGED VIEW @ SHEAR WALL
 1 1/2" = 1'-0"



3 SHEAR WALL HOLDOWNS
 1 1/2" = 1'-0"



2 SHEAR WALL LEVEL 2 TIE
 1 1/2" = 1'-0"



1 SHEAR WALL TYPE I ELEVATION
 1" = 1'-0"

PRELIMINARY

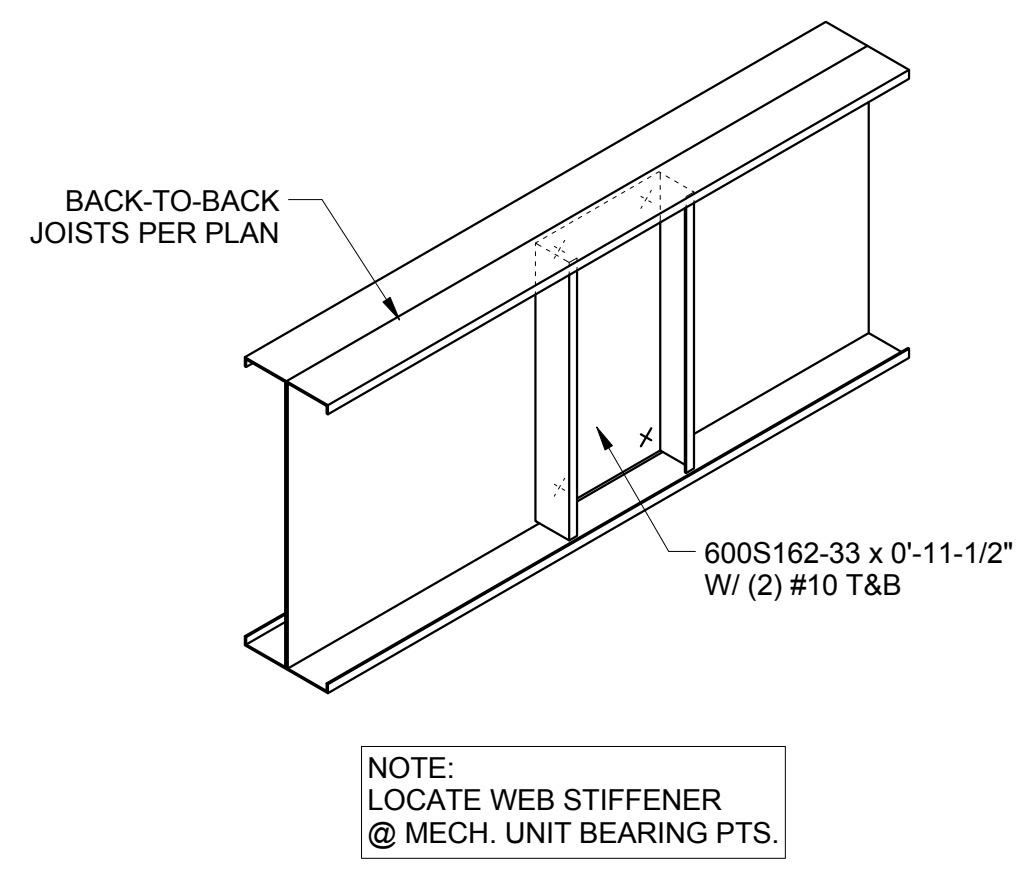
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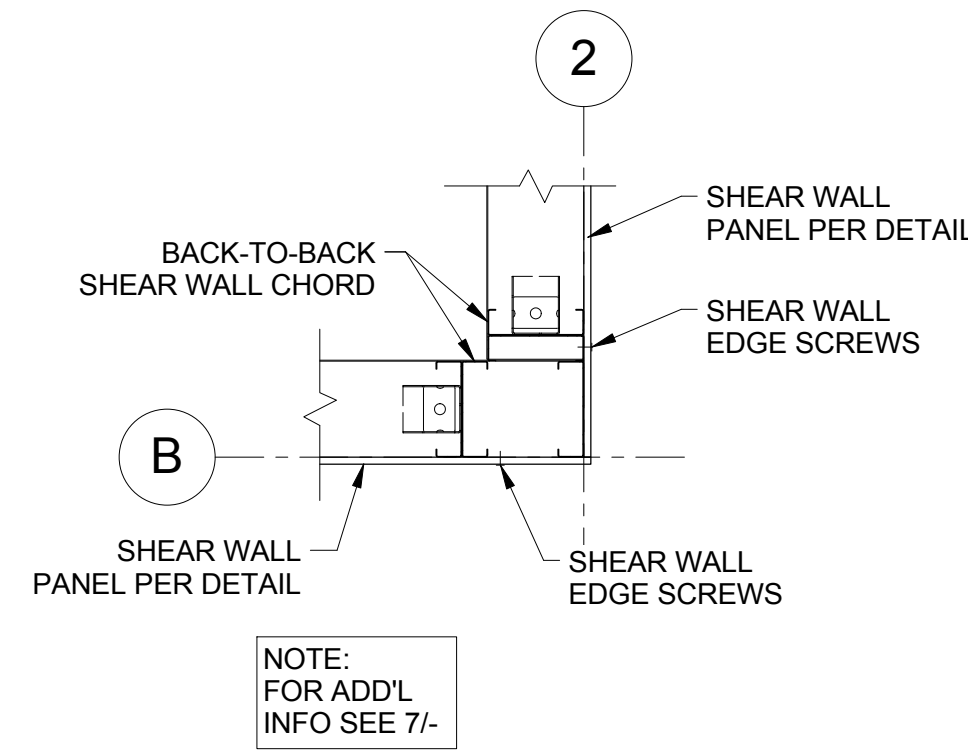
PROJECT: CFS - NEES
 PROJECT LOCATION:
 CLIENT: JOHNS HOPKINS UNIVERSITY

SHEET TITLE:
SHEAR WALL ELEVATIONS

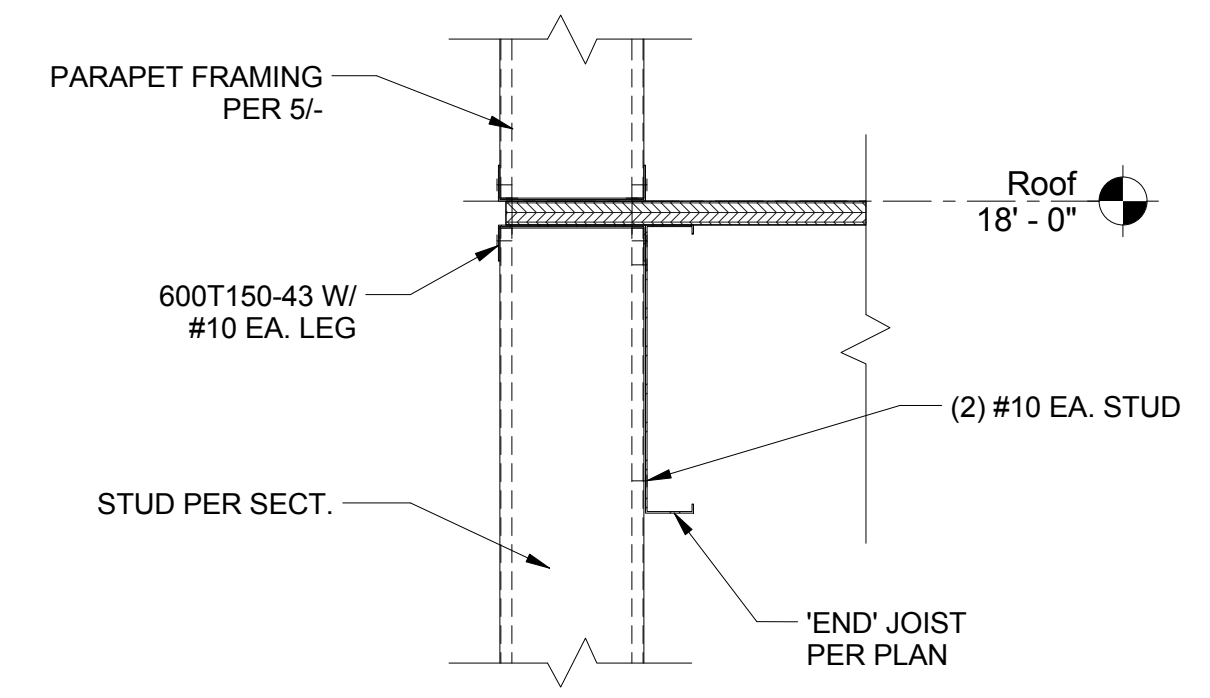
JOB NO. 10-277
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 DRAWING:
SF 4.30



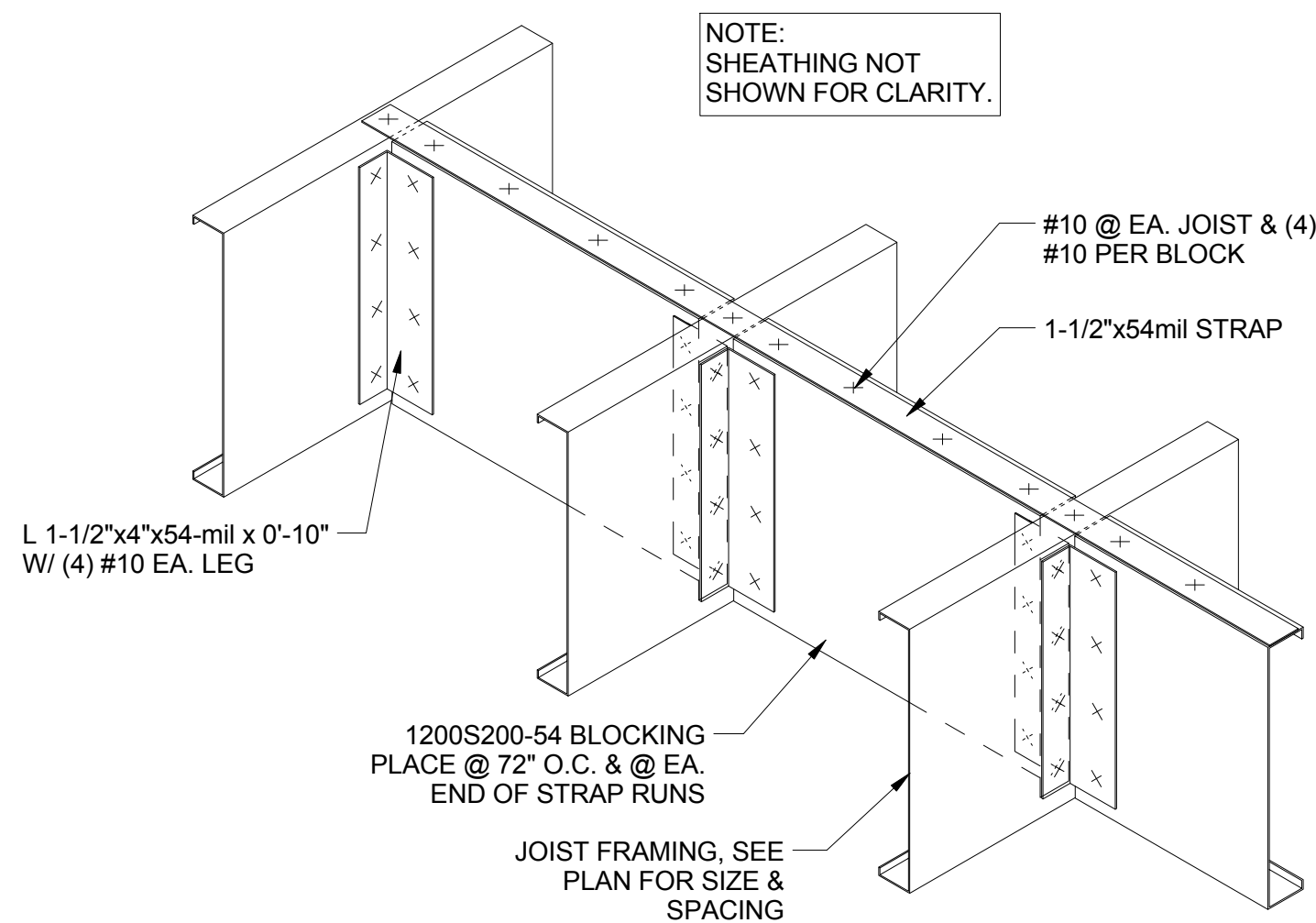
16 JOIST WEB STIFFENER @ MECH. UNIT
1 1/2" = 1'-0"



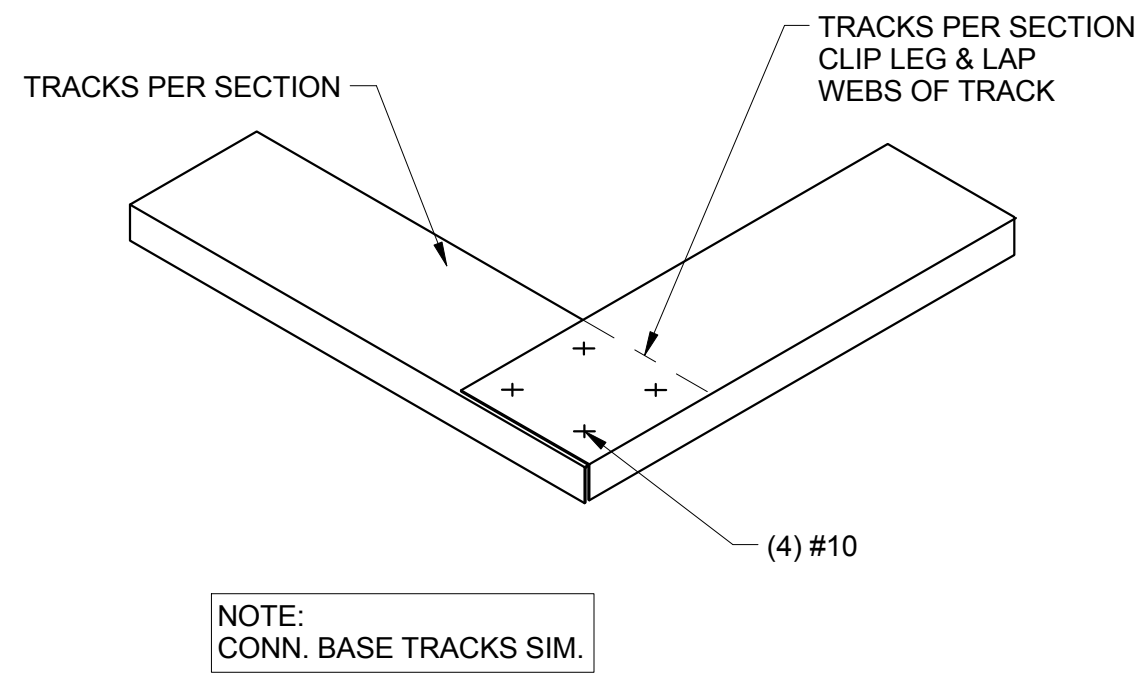
8 CORNER LAYOUT - SE CORNER
1" = 1'-0"



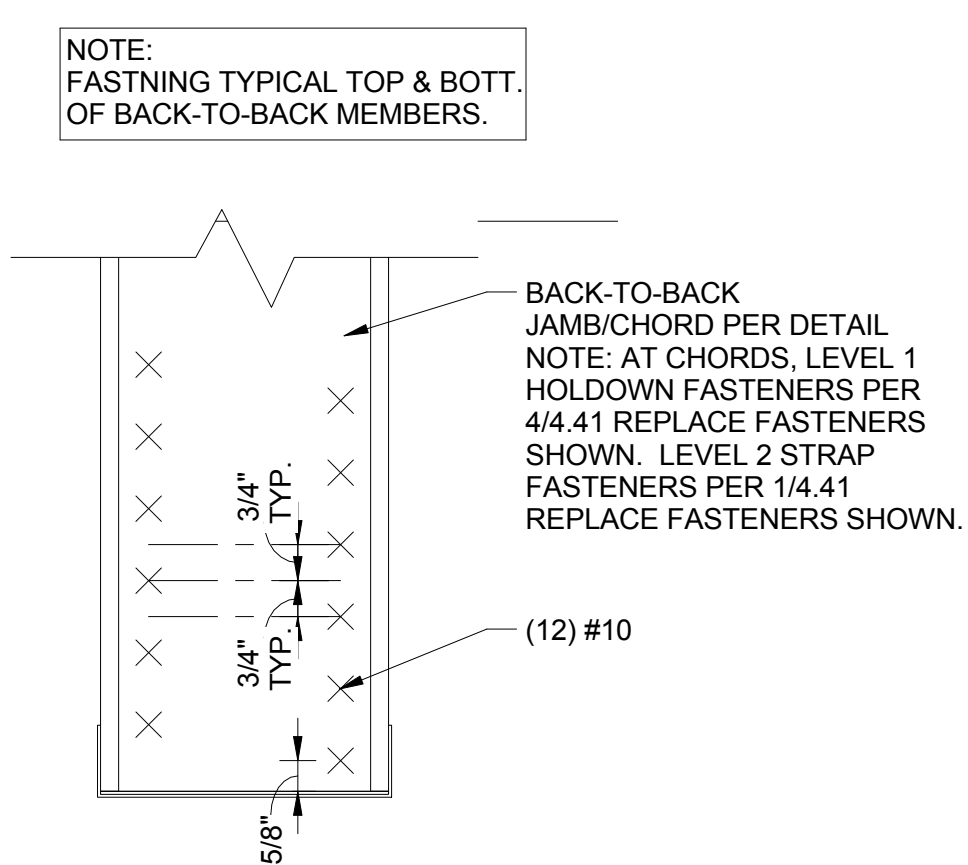
4 ENLARGED SECTION @ ROOF - JOIST PARALLEL
1 1/2" = 1'-0"



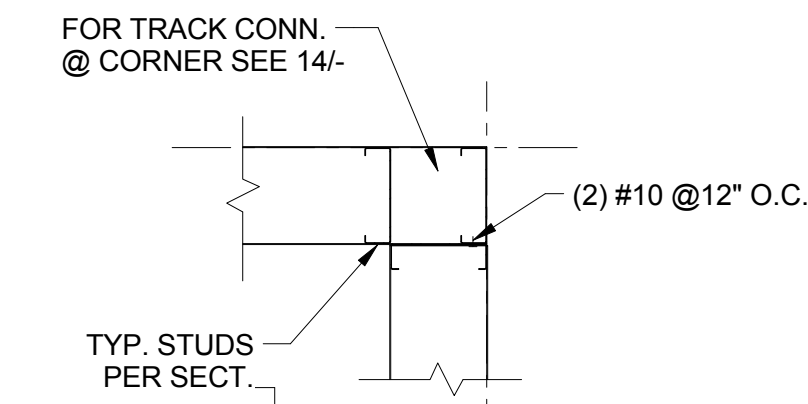
19 JOIST SOLID BLOCKING DETAIL
1 1/2" = 1'-0"



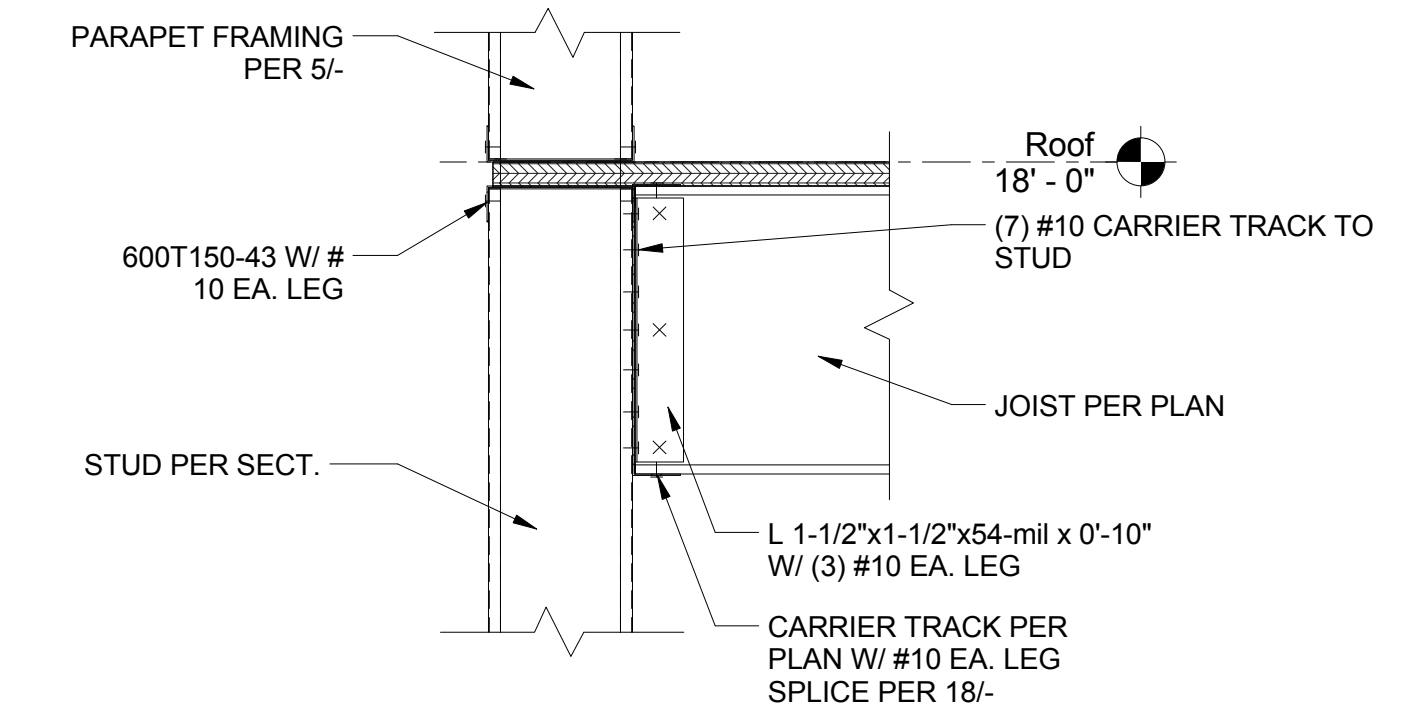
15 TRACK LAP @ CORNER
N.T.S.



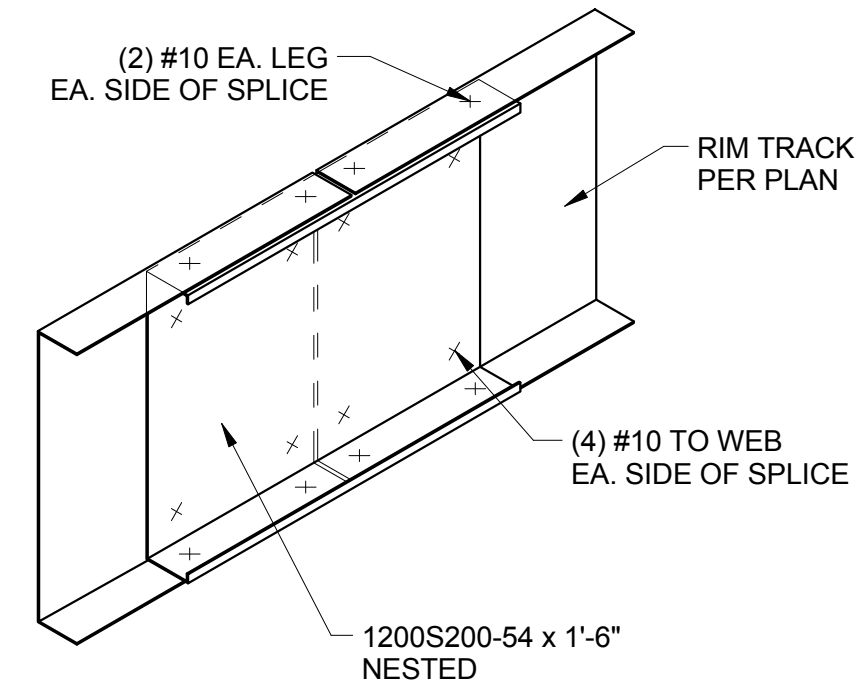
11 JAMB / SHEAR WALL CHORD ENDS
3" = 1'-0"



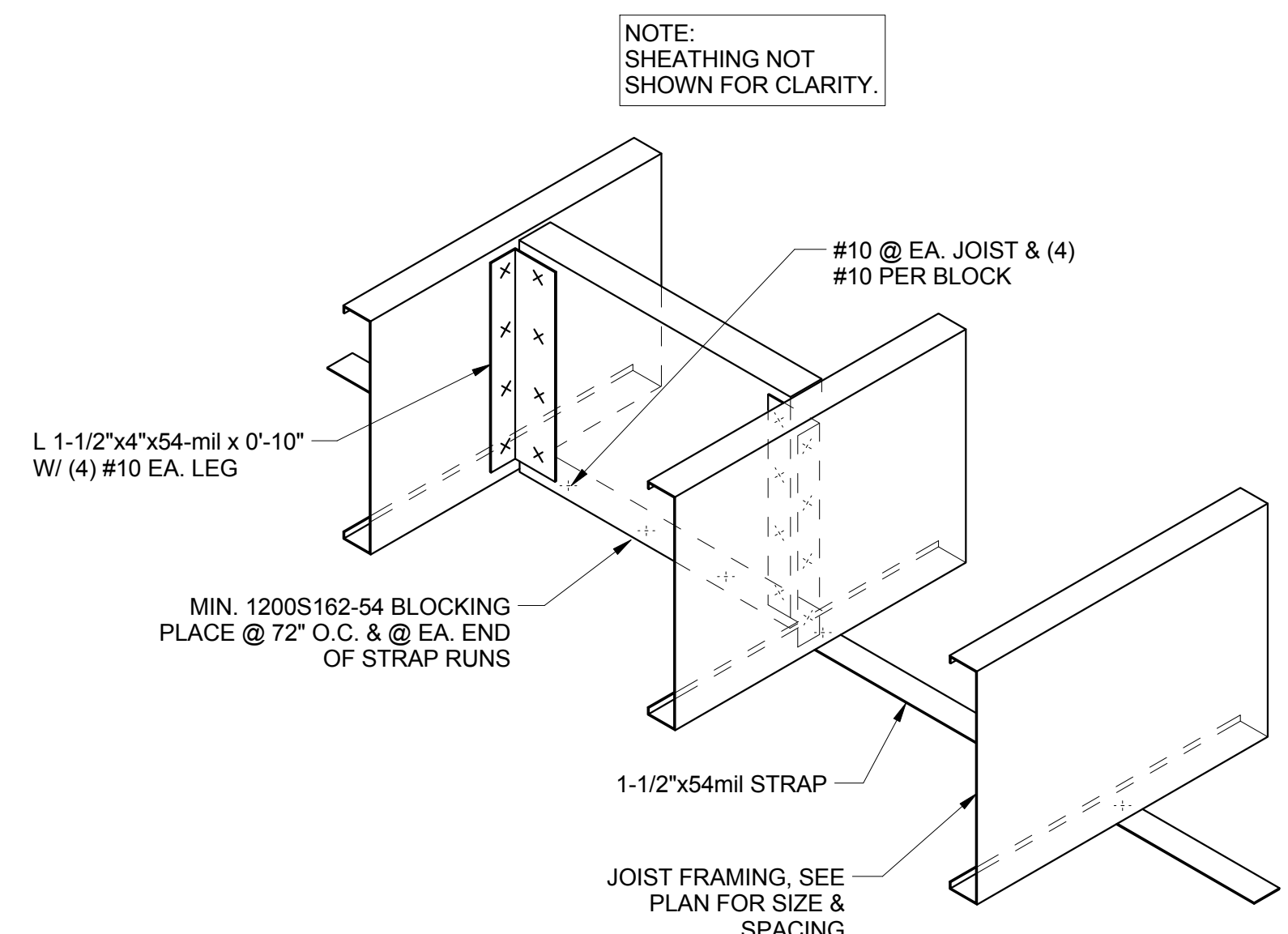
7 CORNER LAYOUT - TYP.
1" = 1'-0"



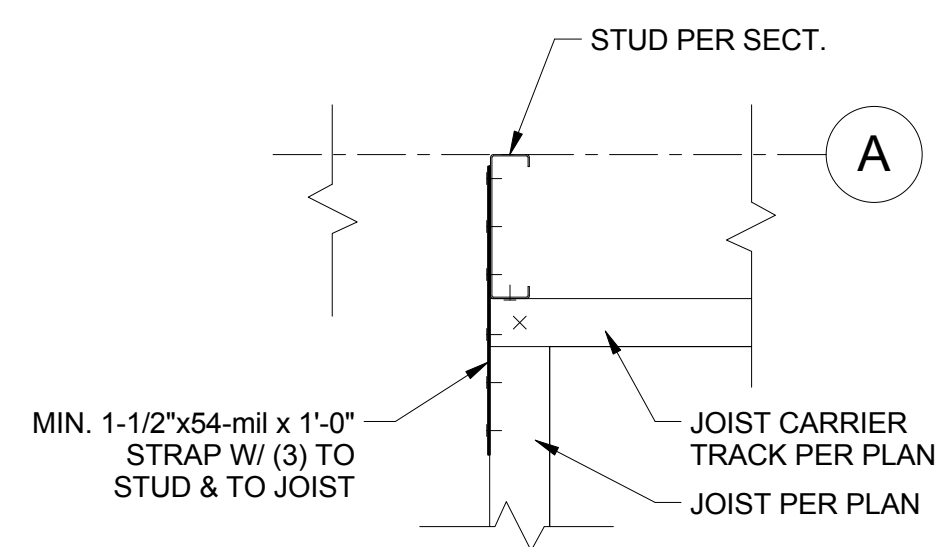
3 ENLARGED SECTION @ ROOF - JOIST PERP.
1 1/2" = 1'-0"



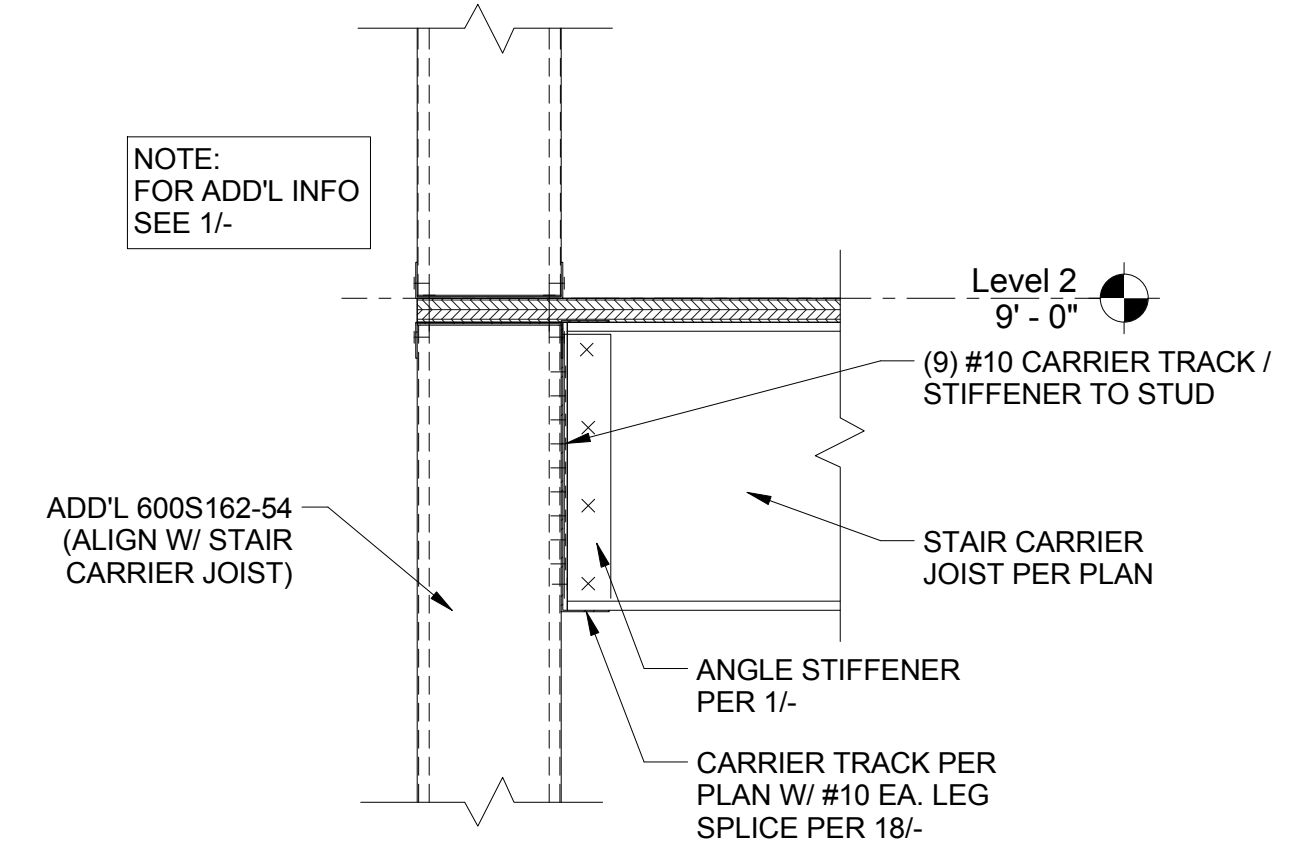
18 RIM TRACK SPLICE
1 1/2" = 1'-0"



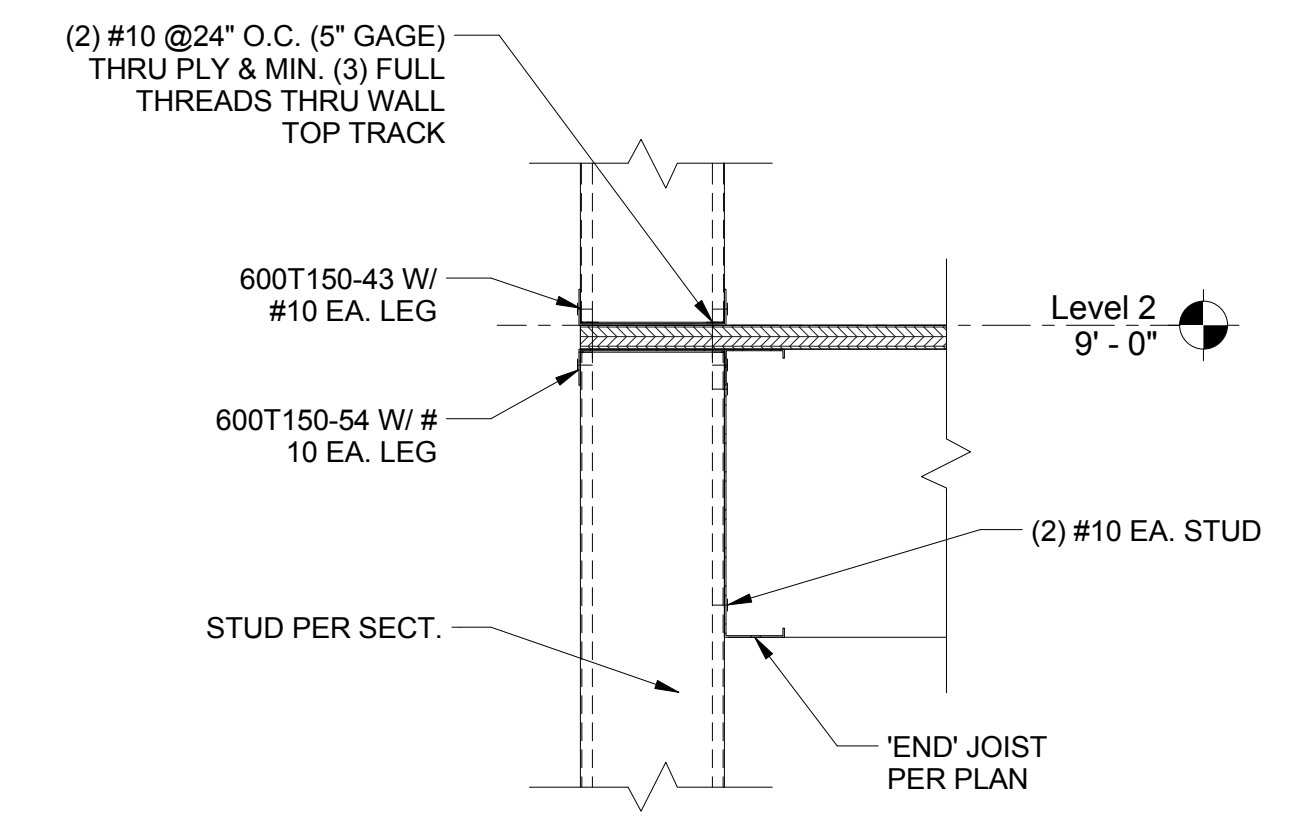
14 JOIST BLOCKING DETAIL
1 1/2" = 1'-0"



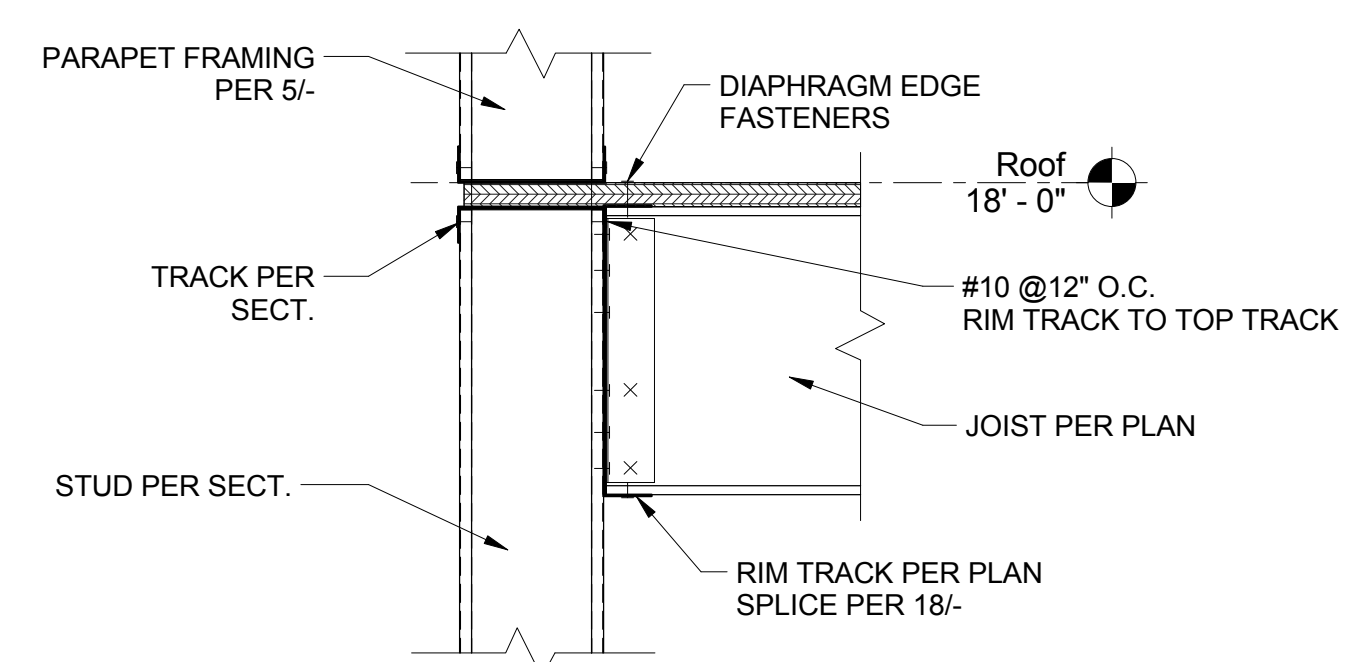
10 JOIST TIE @ EDGE OF CLERESTORY
1 1/2" = 1'-0"



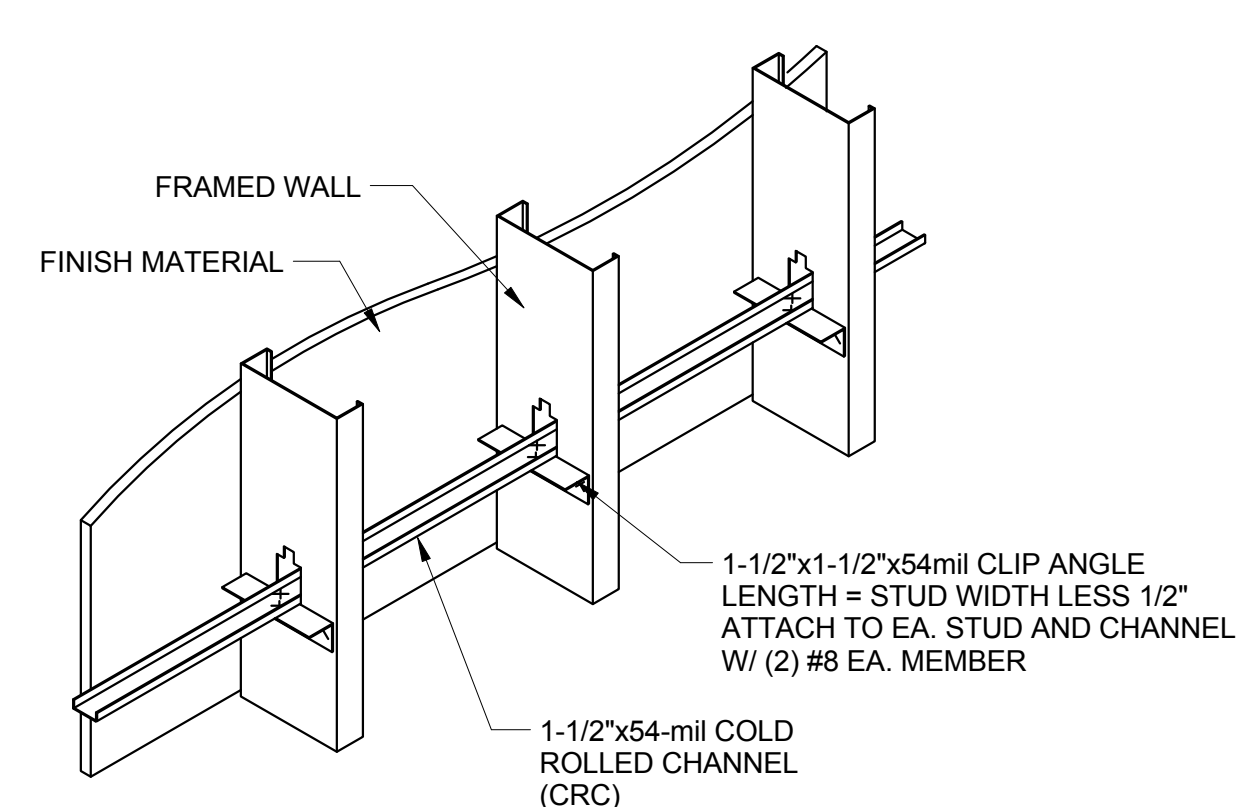
6 ENLARGED SECTION @ STAIR CARRIER
1 1/2" = 1'-0"



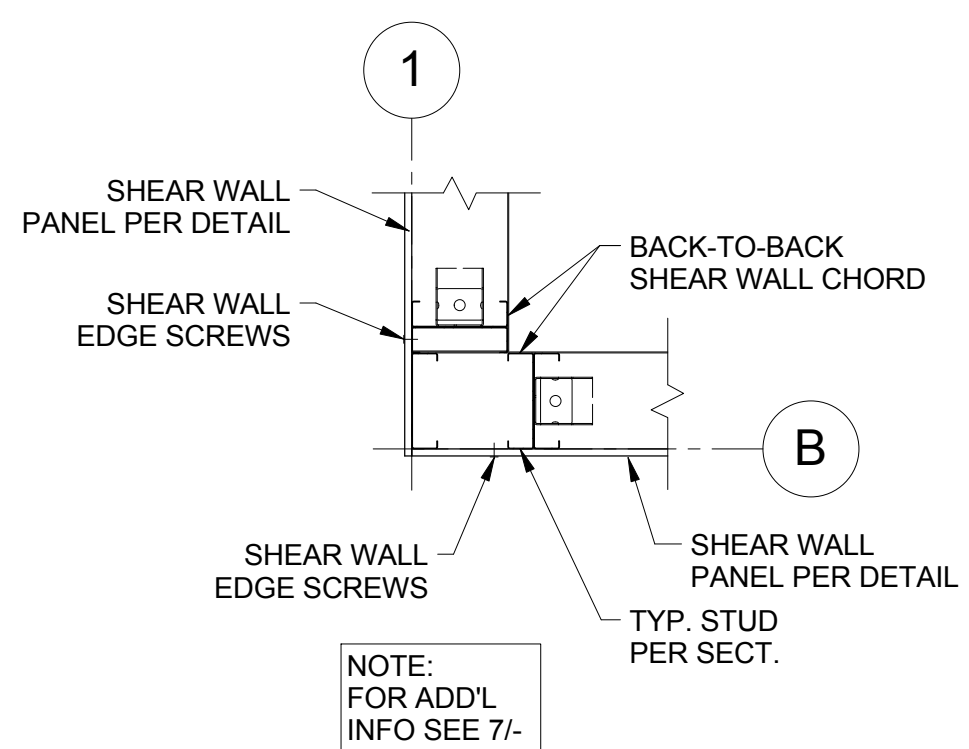
2 ENLARGED SECTION @ 2ND FLOOR - JOIST PARALLEL
1 1/2" = 1'-0"



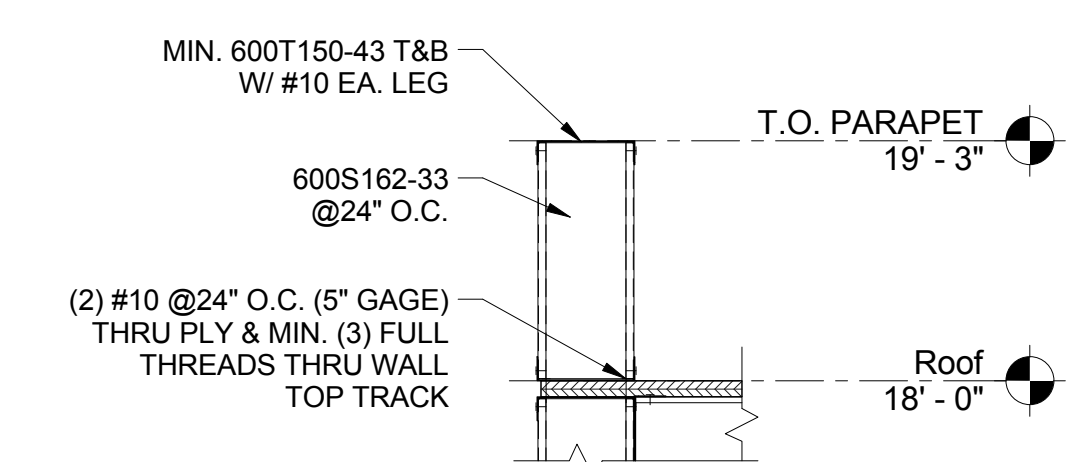
17 ENLARGED SECTION @ ROOF DIAPHRAGM EDGE
1 1/2" = 1'-0"



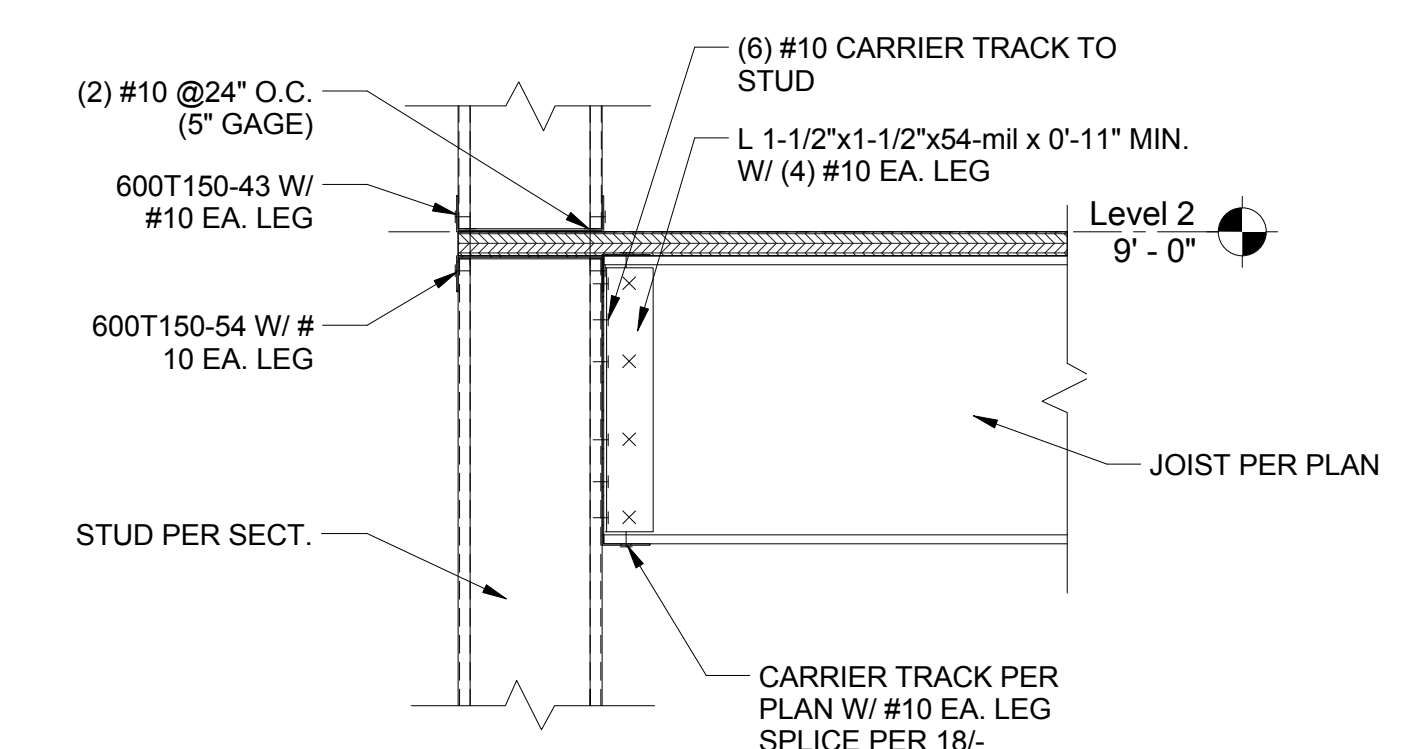
13 WALL BRACING - CRC
N.T.S.



9 CORNER LAYOUT - SW CORNER
1" = 1'-0"



5 ENLARGED SECTION @ PARAPET
1" = 1'-0"



1 ENLARGED SECTION @ 2ND FLOOR - JOIST PERP.
1 1/2" = 1'-0"

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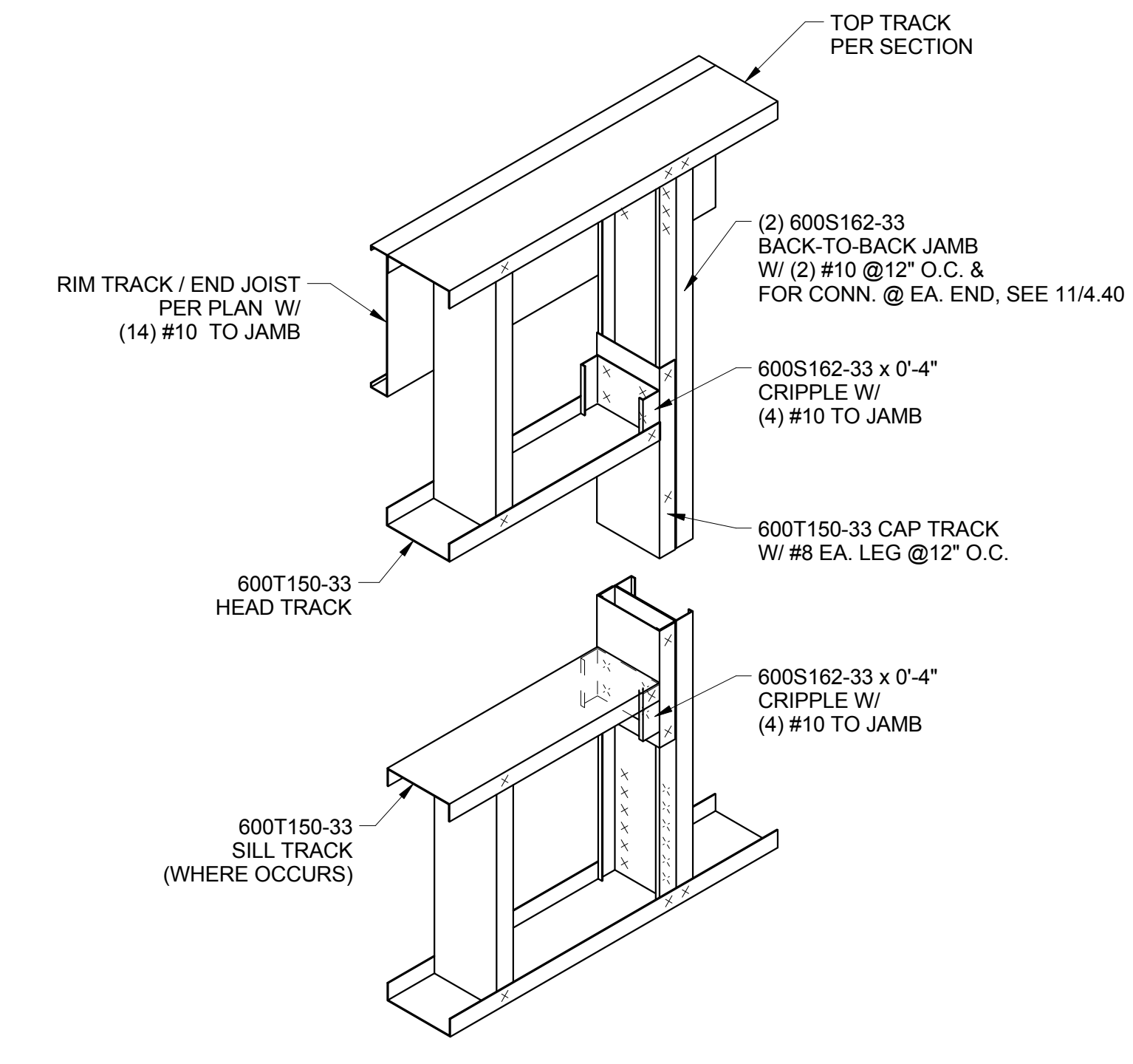
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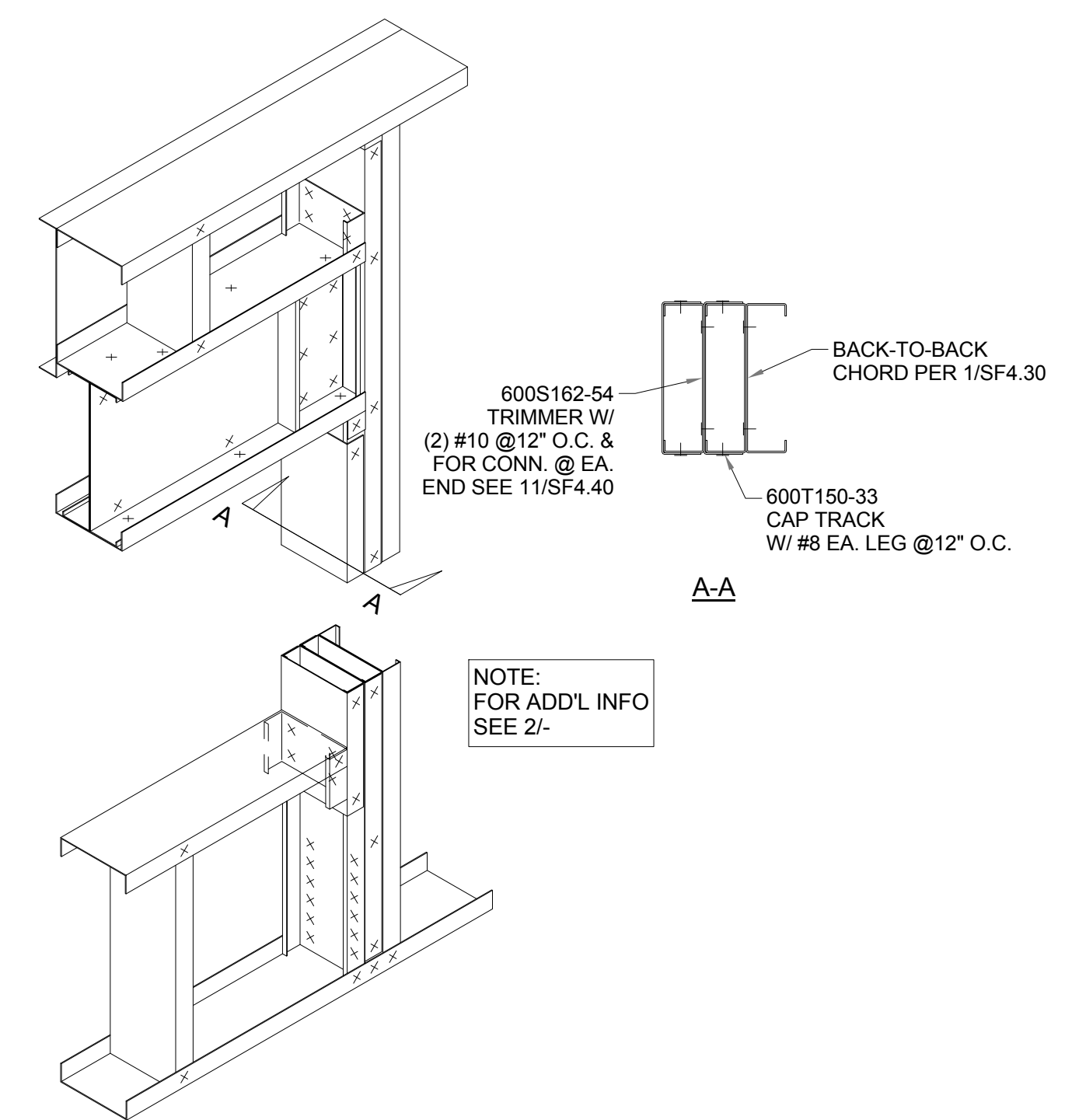
SHEET TITLE: DETAILS

JOB NO. 10-277
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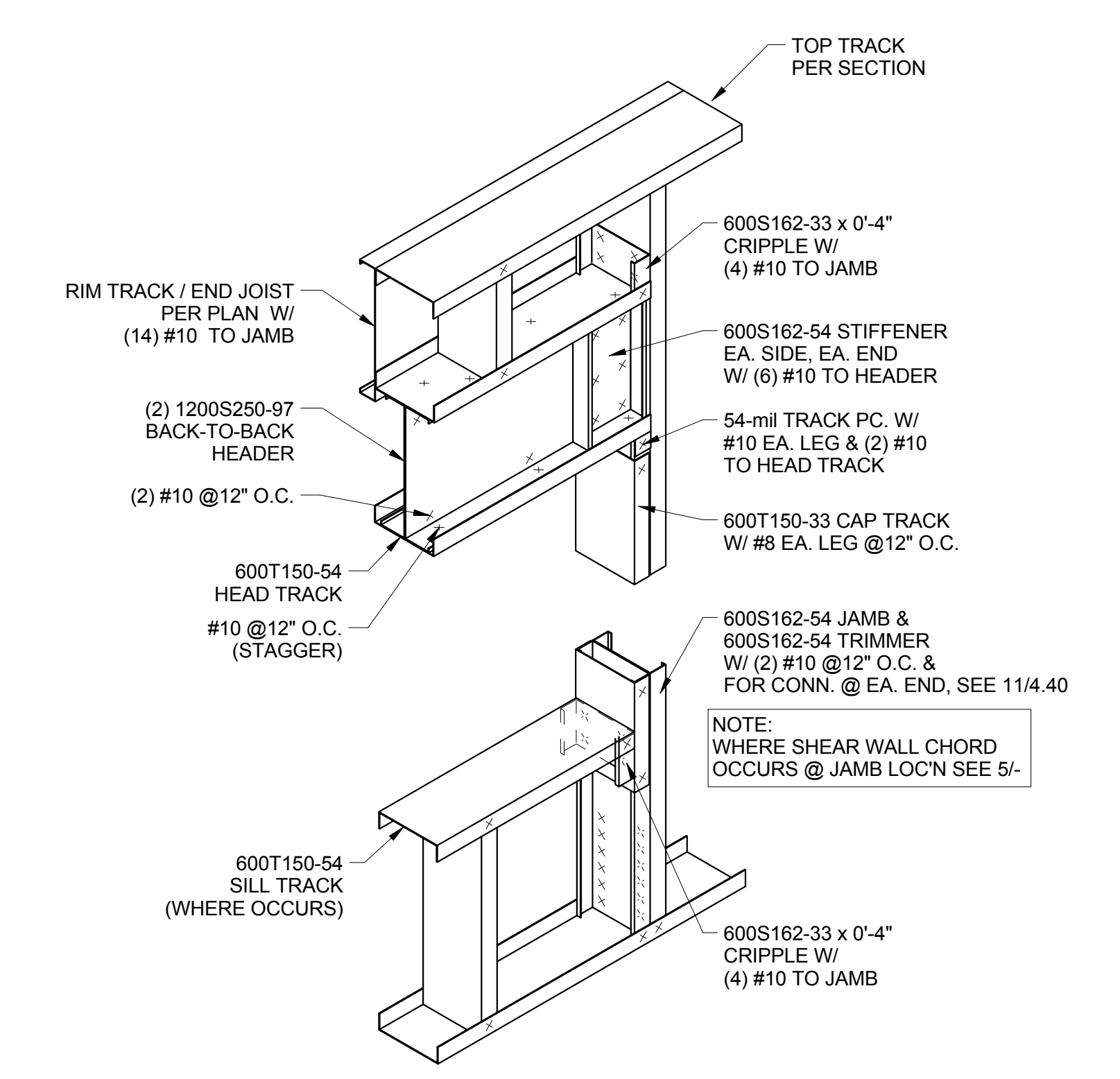
6/19/2013 10:34:31 AM



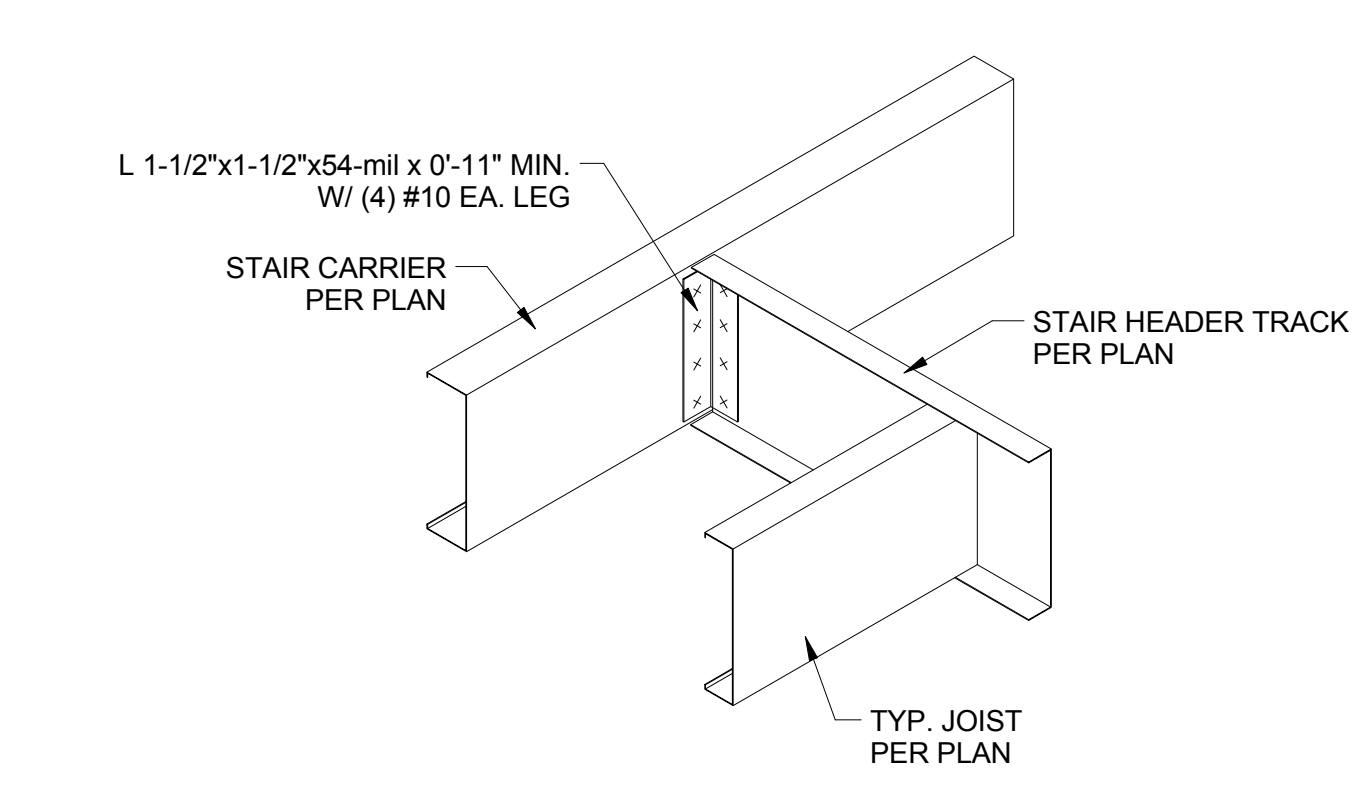
LEVEL 2 FRAMED OPENING (R.O. ≤ 8'-0" WIDE)
 3 1" = 1'-0"



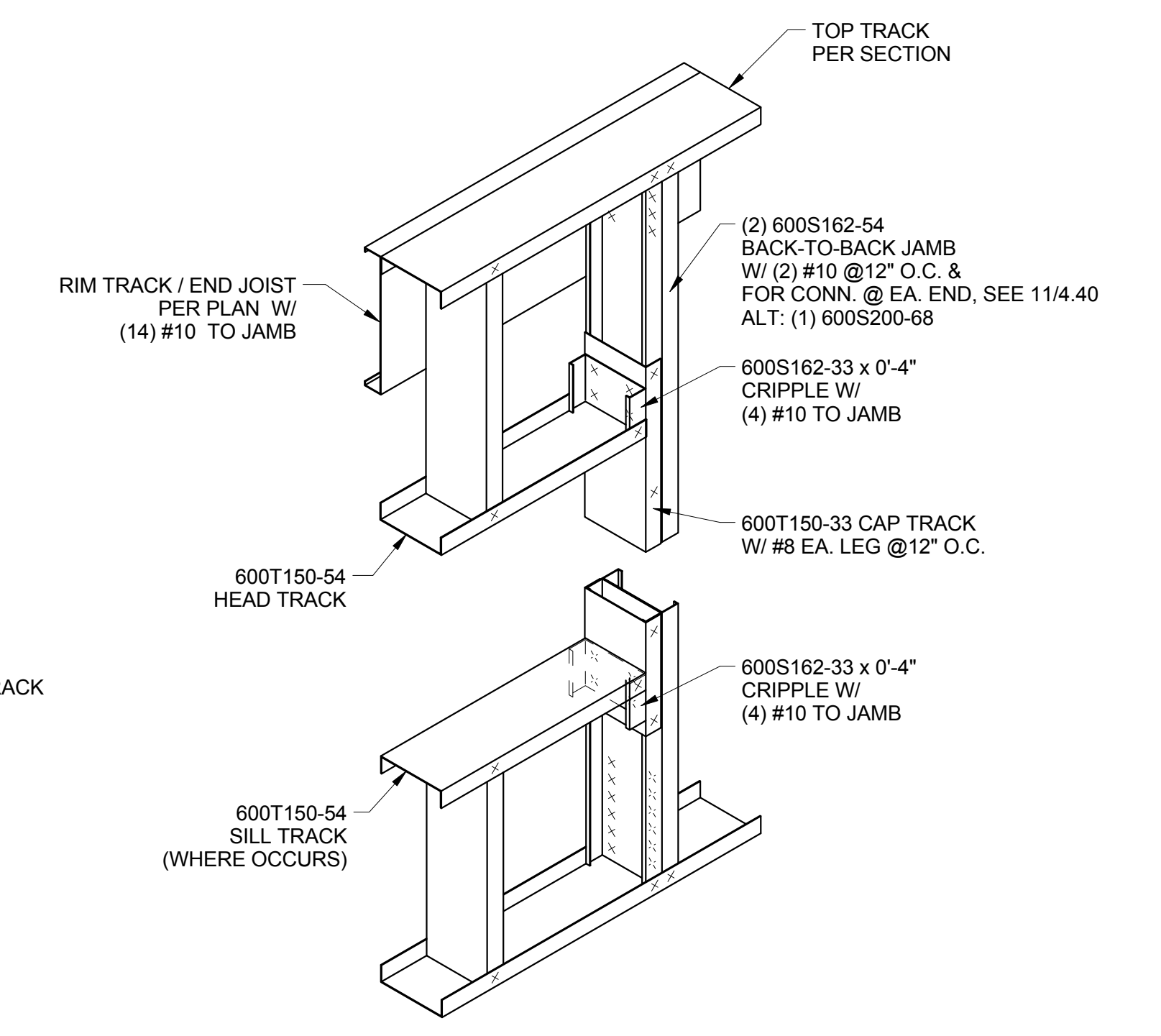
LEVEL 1 R.O. @ SHEAR WALL CHORD (R.O. > 6'-6" WIDE)
 5 1" = 1'-0"



LEVEL 1 FRAMED OPENING (R.O. > 6'-6" WIDE)
 2 1" = 1'-0"



STAIR HEADER CONN.
 4 1" = 1'-0"



LEVEL 1 FRAMED OPENING (R.O. ≤ 6'-6" WIDE)
 1 1" = 1'-0"

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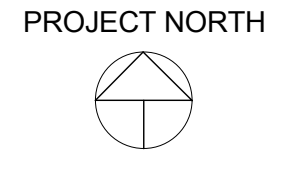
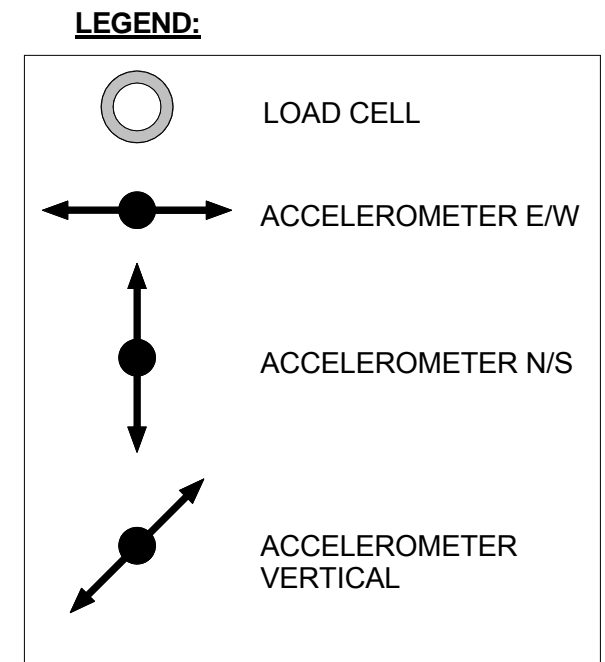
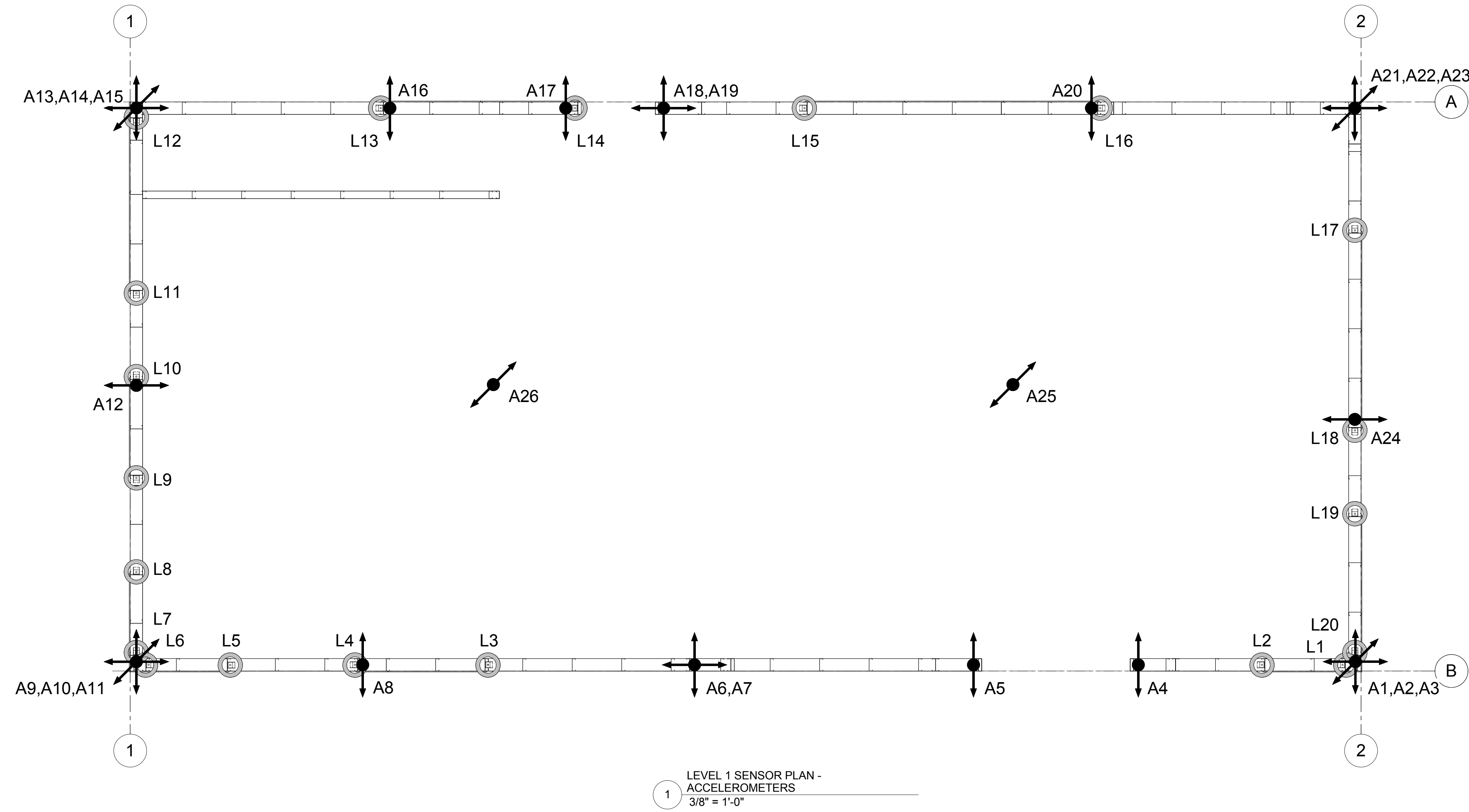
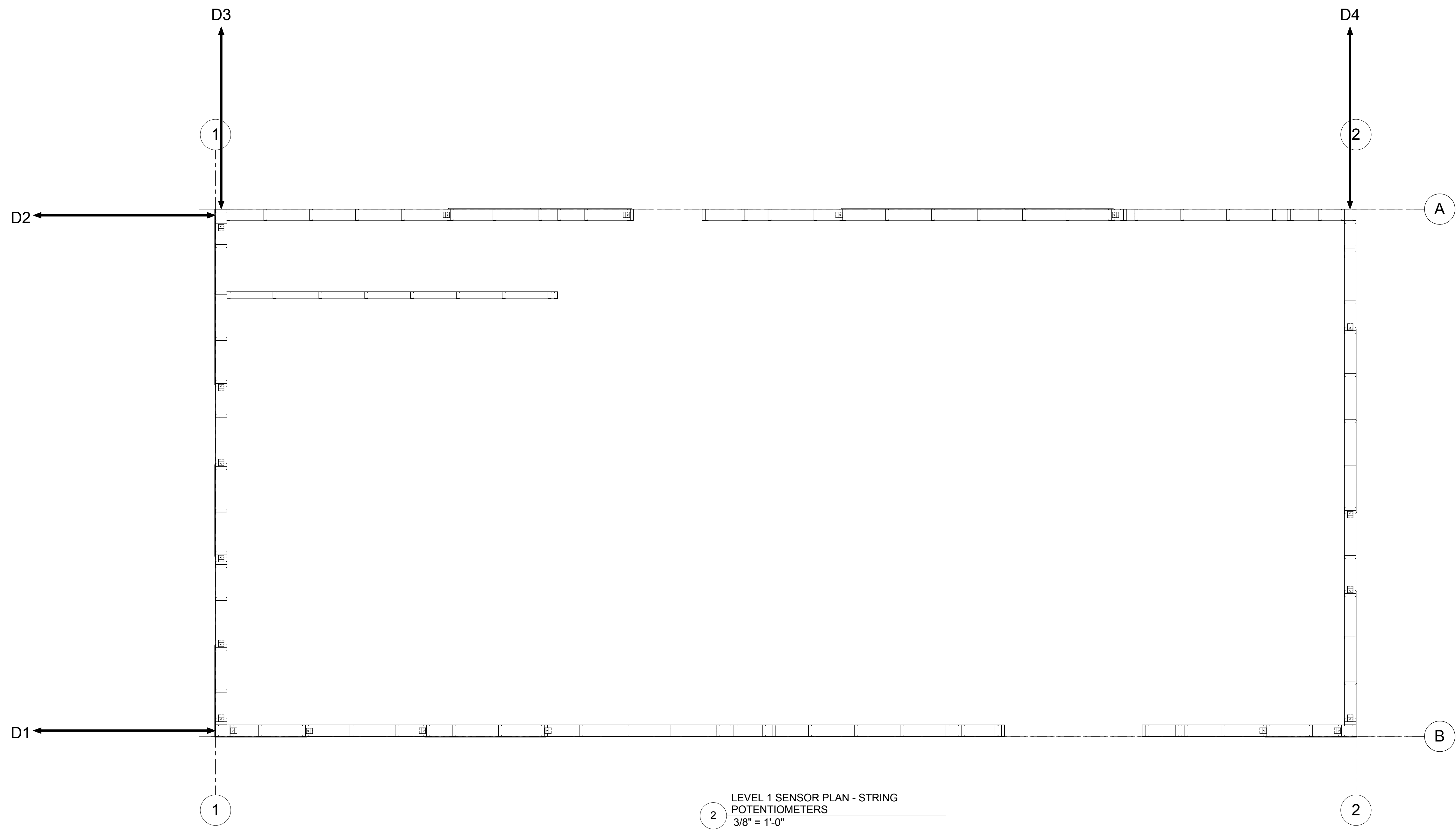
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SHEET TITLE:
 FRAMED OPENING DETAILS

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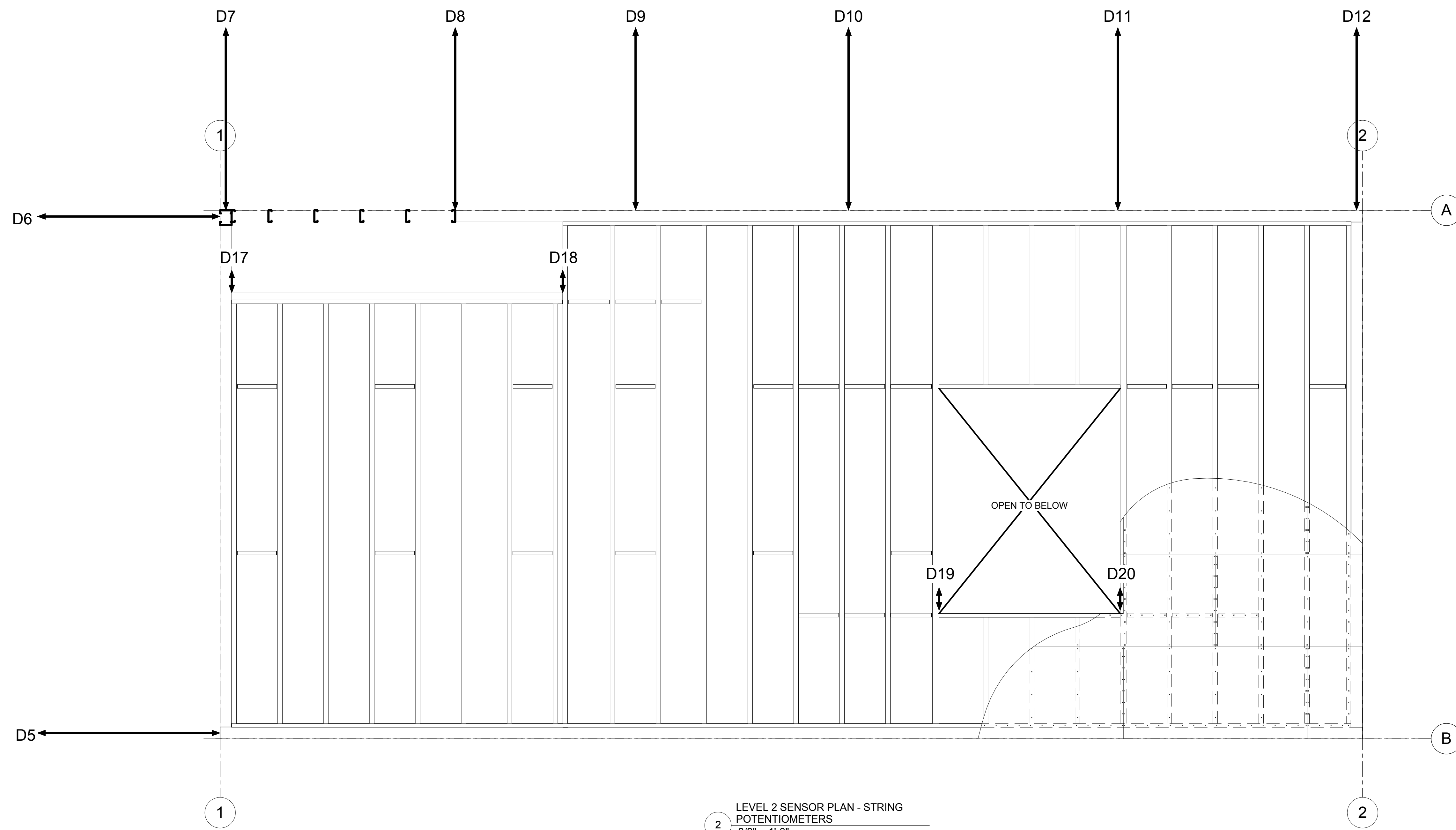
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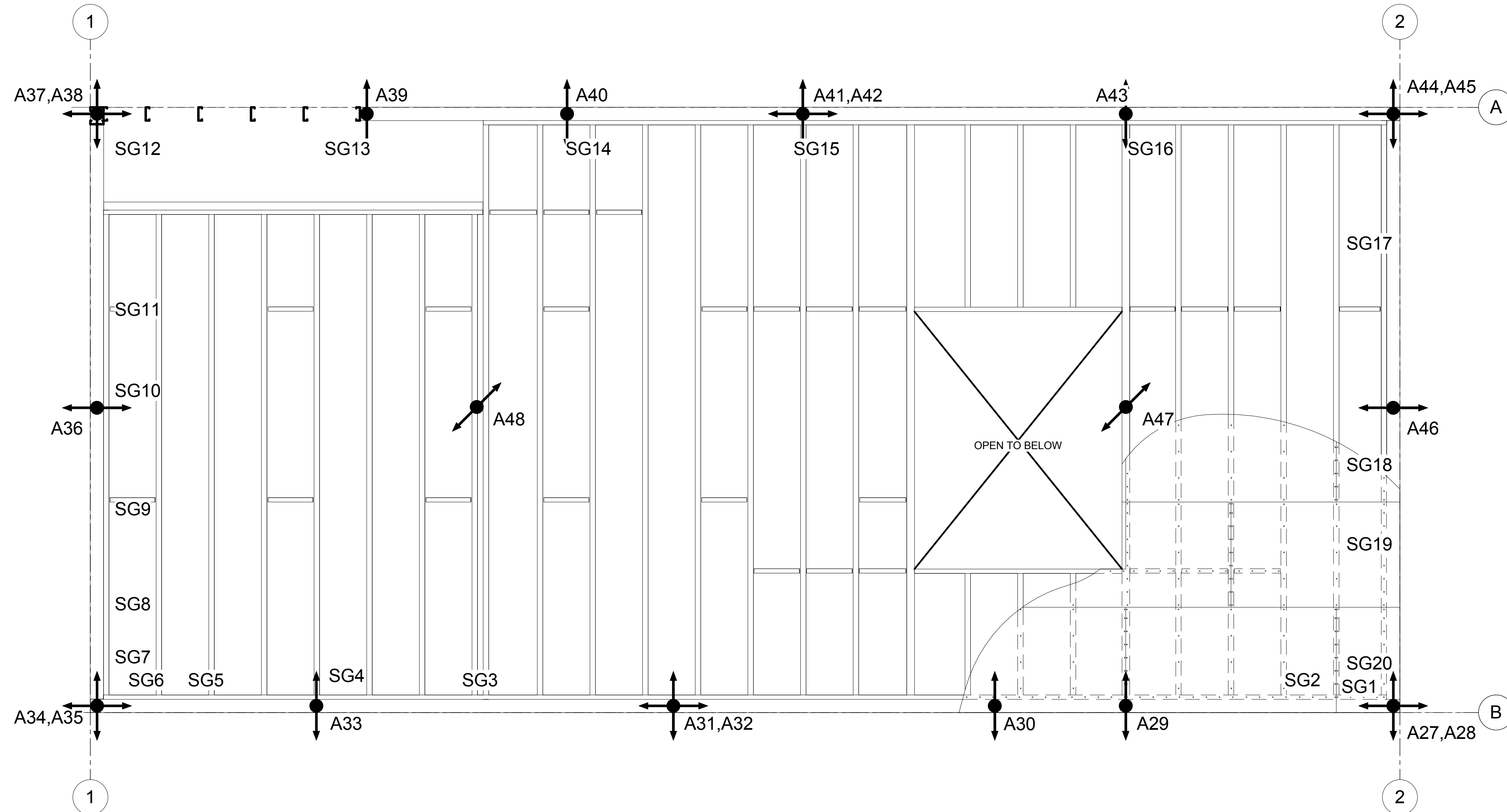
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PROJECT LOCATION:
CLIENT: JOHNS HOPKINS UNIVERSITY

SHEET TITLE:
LEVEL 1 SENSOR PLANS

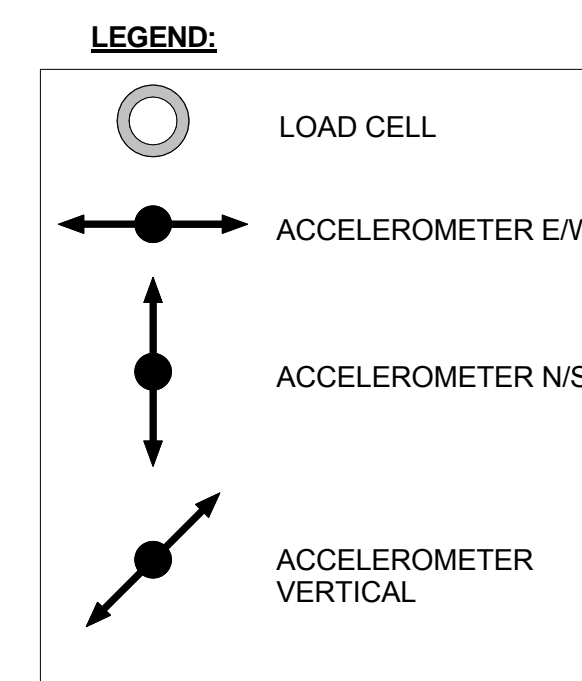
JOB NO. 10-277
DRAWN BY: DEVCO
DRAWING:
SF 6.00



2 LEVEL 2 SENSOR PLAN - STRING POTENTIOMETERS
3/8" = 1'-0"



1 LEVEL 2 SENSOR PLAN - ACCELEROMETERS
3/8" = 1'-0"



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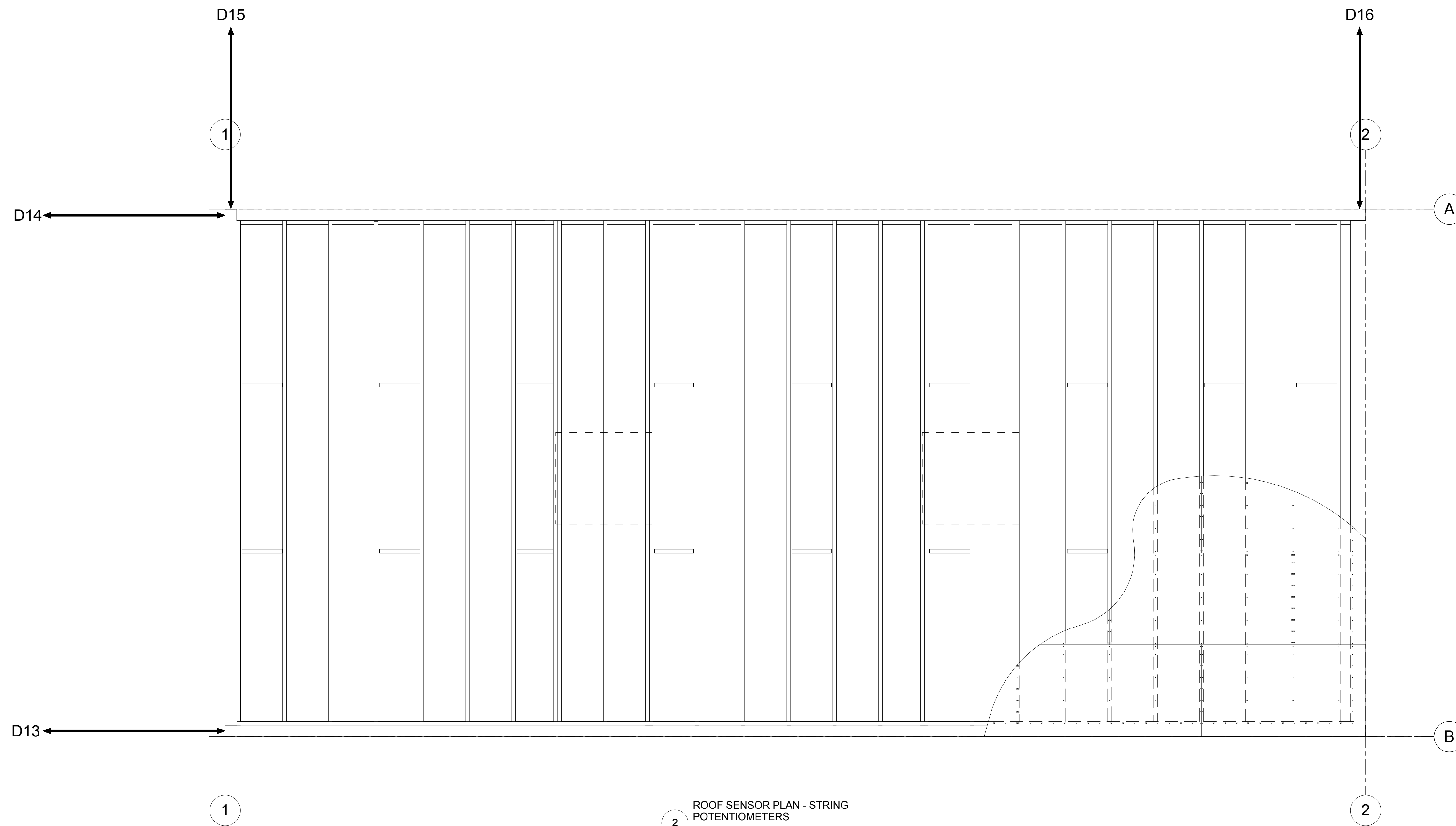
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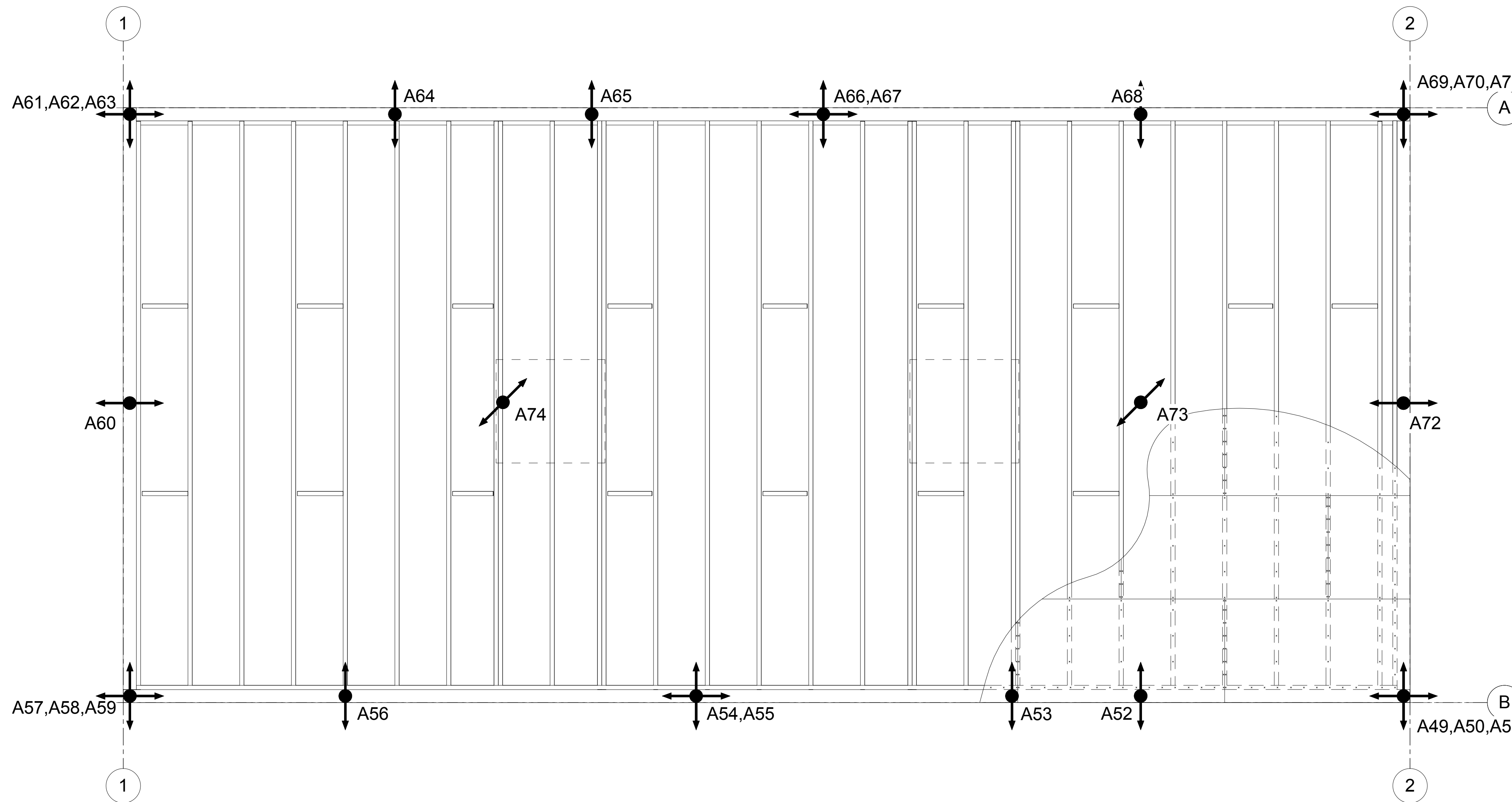
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JOB NO. 10-277
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 DRAWING: SF 6.01

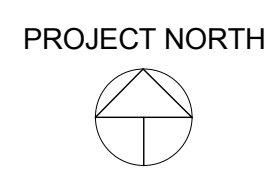
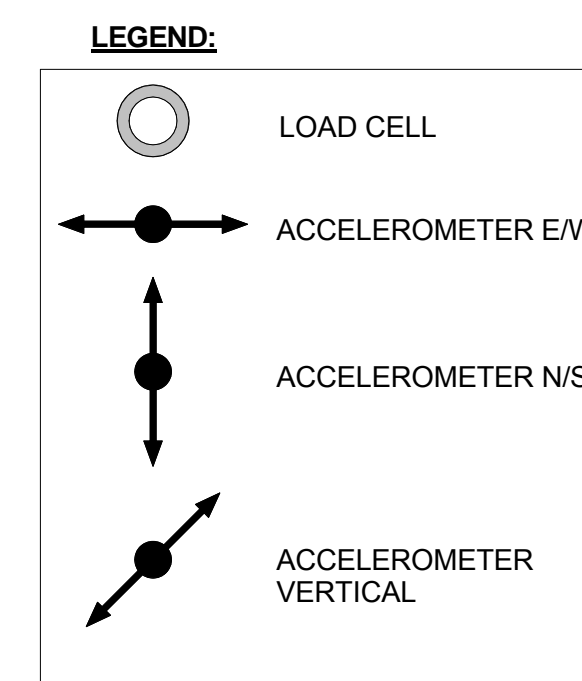
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2 ROOF SENSOR PLAN - STRING POTENTIOMETERS
3/8" = 1'-0"



1 ROOF SENSOR PLAN - ACCELEROMETERS
3/8" = 1'-0"



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SHEET TITLE:
ROOF SENSOR PLANS

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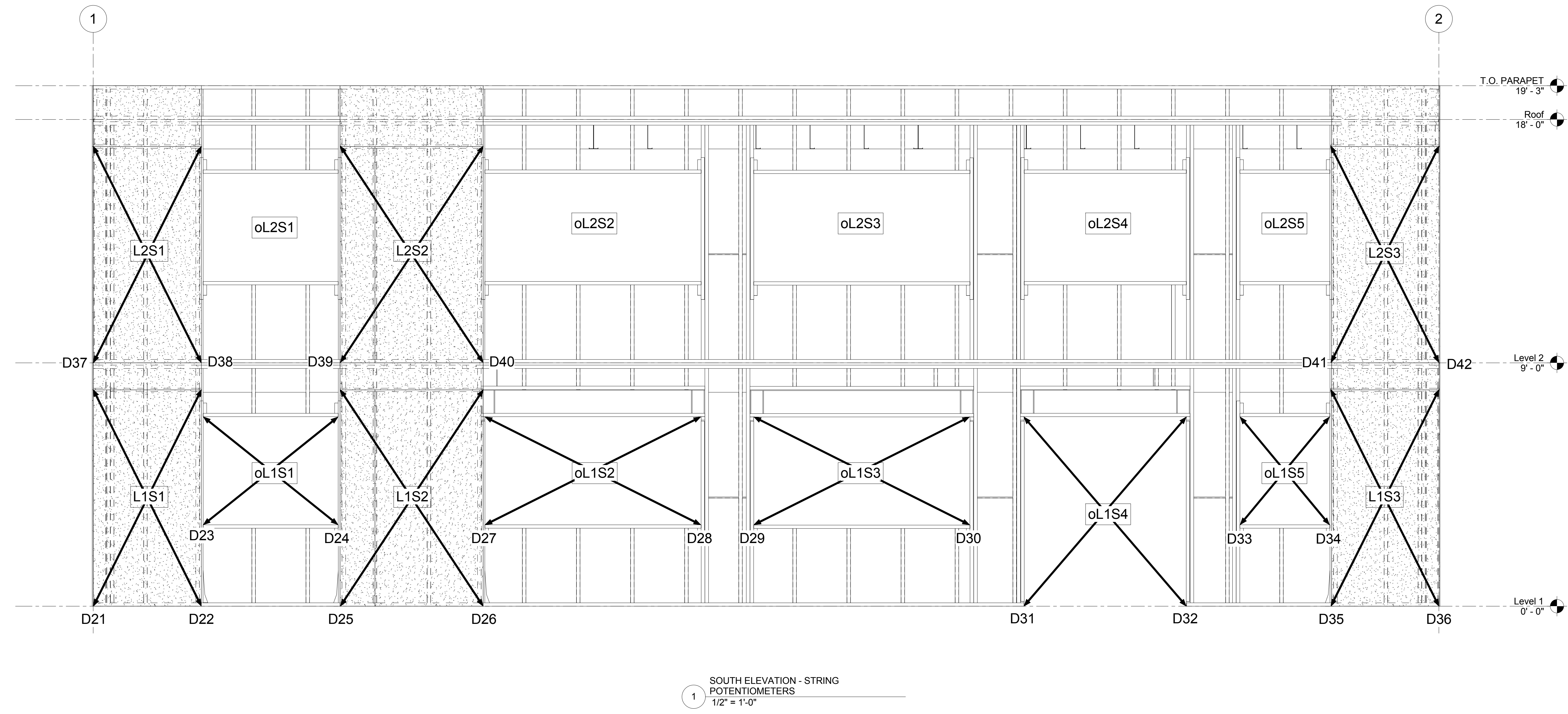
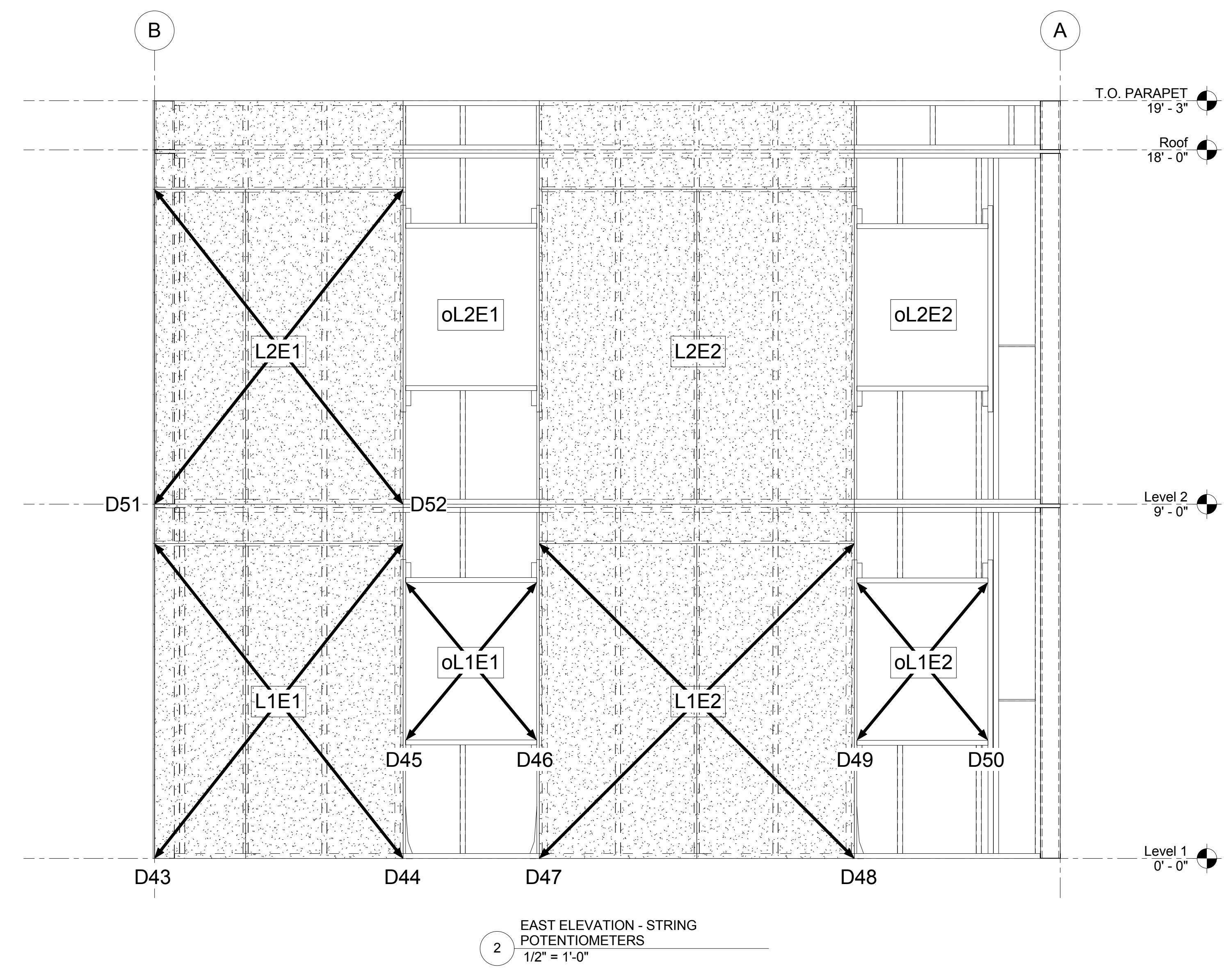
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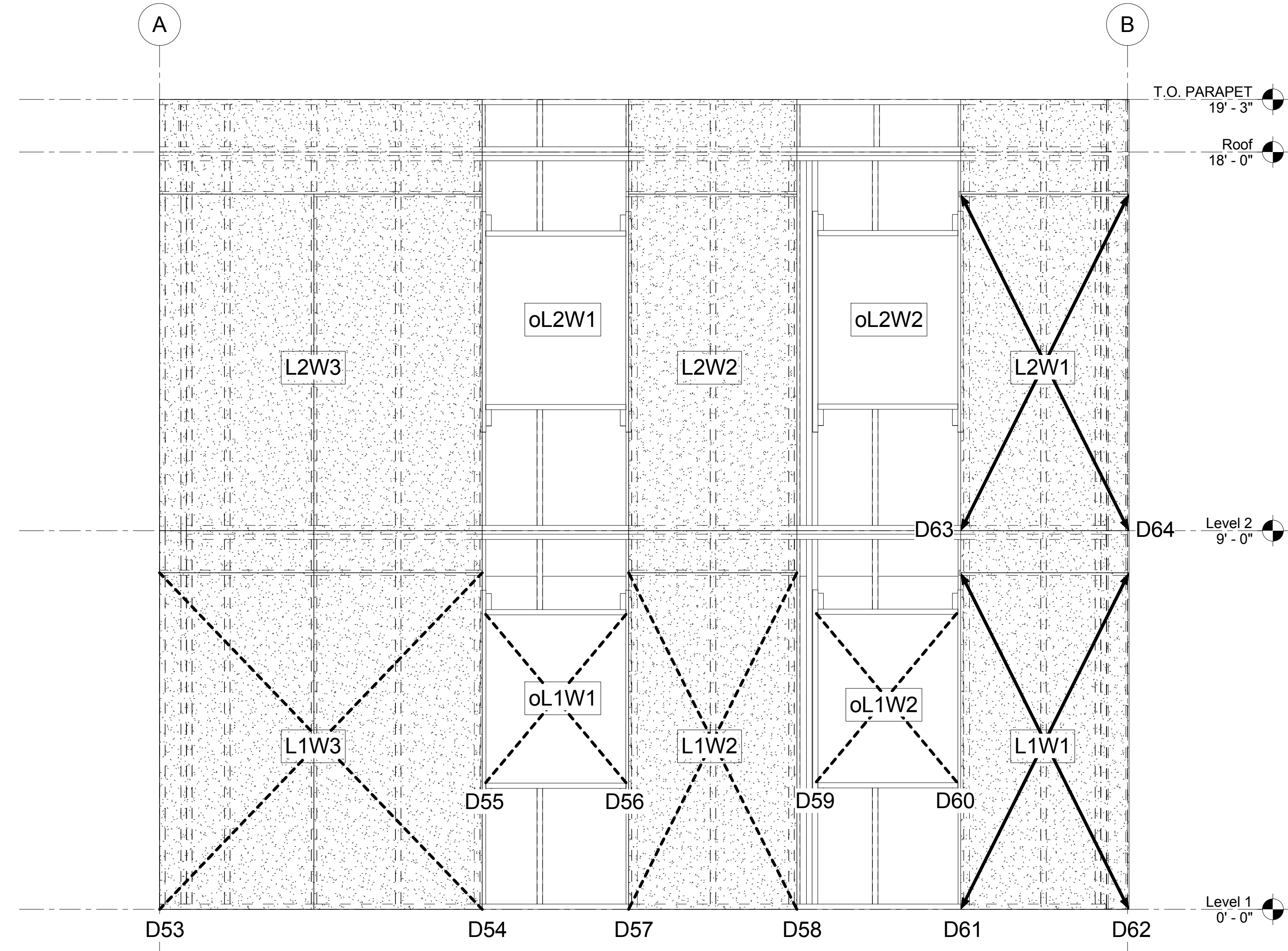
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SHEET TITLE:
SENSOR ELEVATIONS

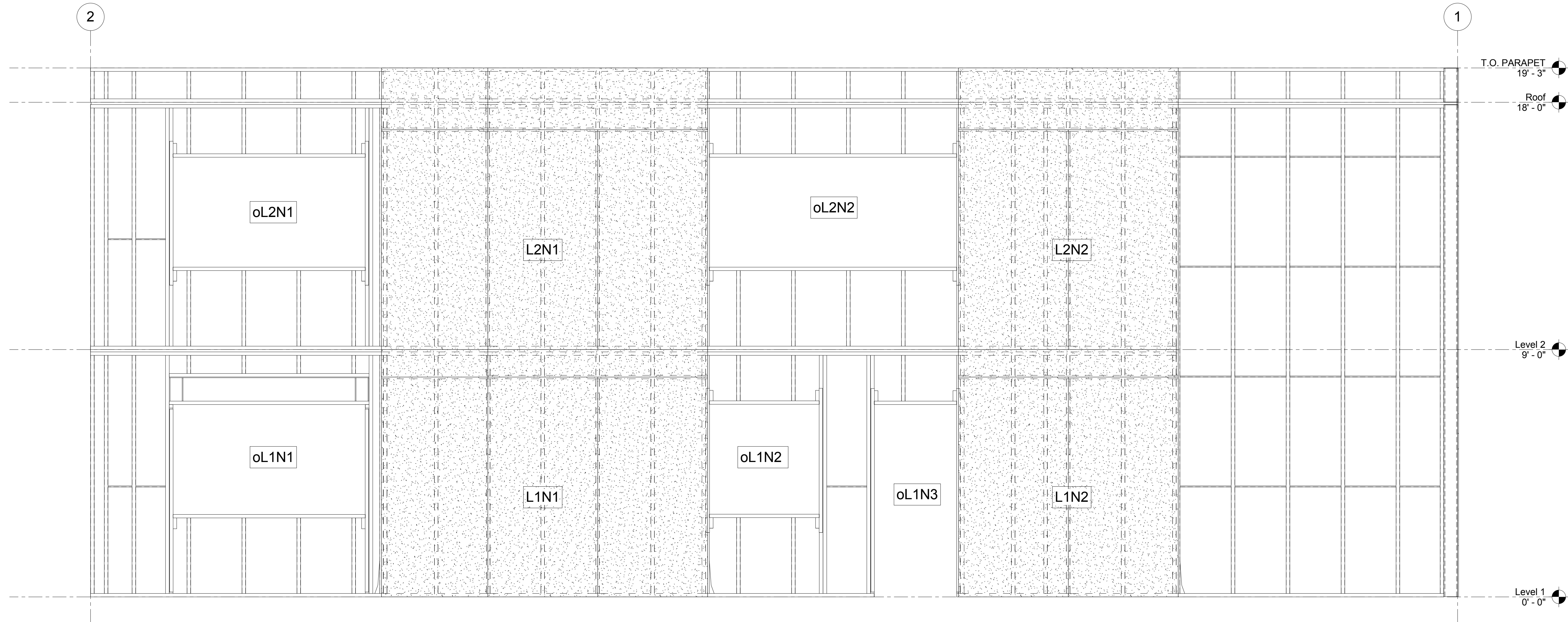
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SF 6.10



6/19/2013 10:34:45 AM



2 WEST ELEVATION - STRING POTENTIOMETERS
1/2" = 1'-0"



1 NORTH ELEVATION - STRING POTENTIOMETERS
1/2" = 1'-0"

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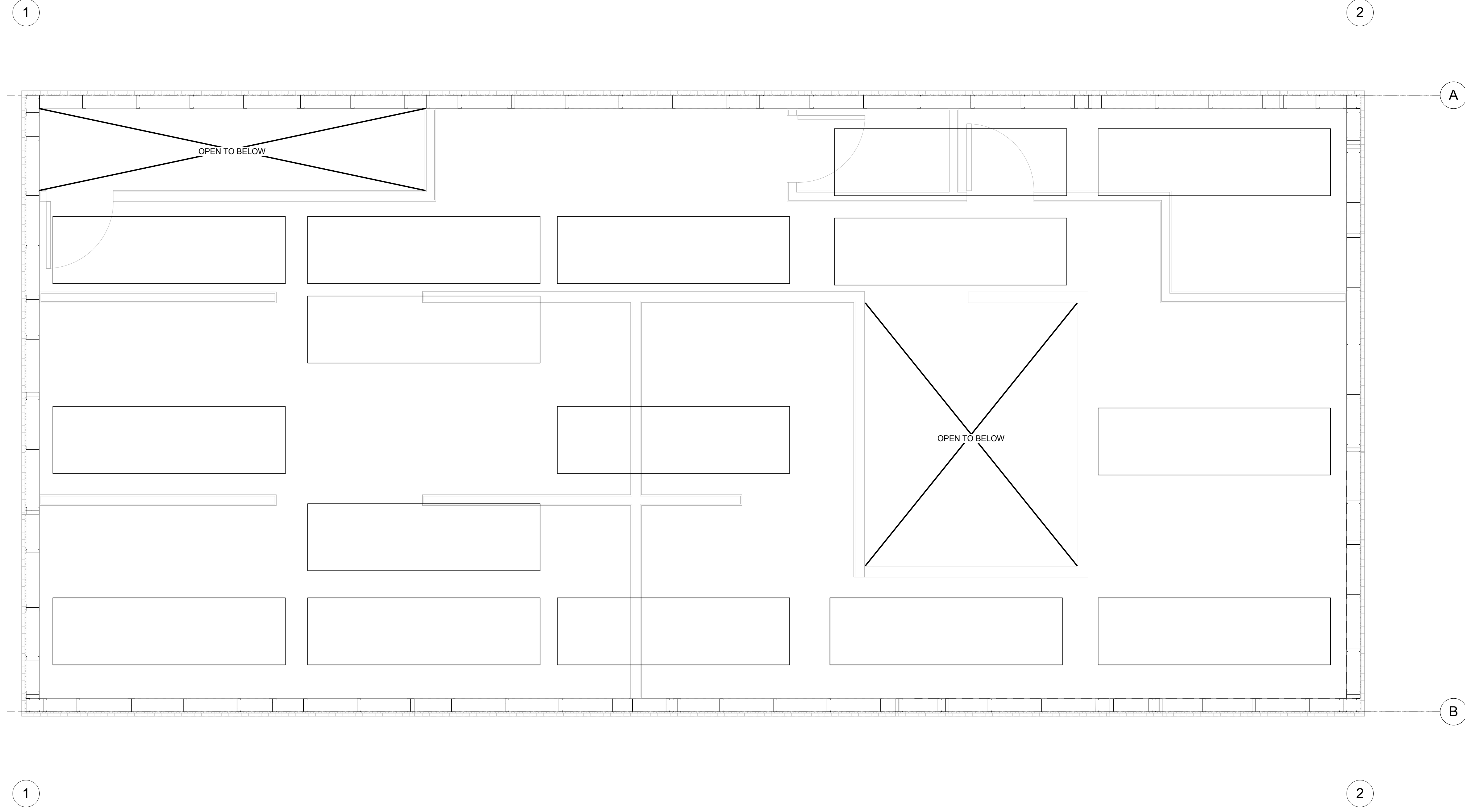

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SHEET TITLE: SENSOR ELEVATIONS

JOB NO. 10-277
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 DRAWING: SF 6.11

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1 Supplemental Mass FLOOR LAYOUT -
 PHASE 2a
 1/2" = 1'-0"

JOB NO. 10-277
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SF 7.02A

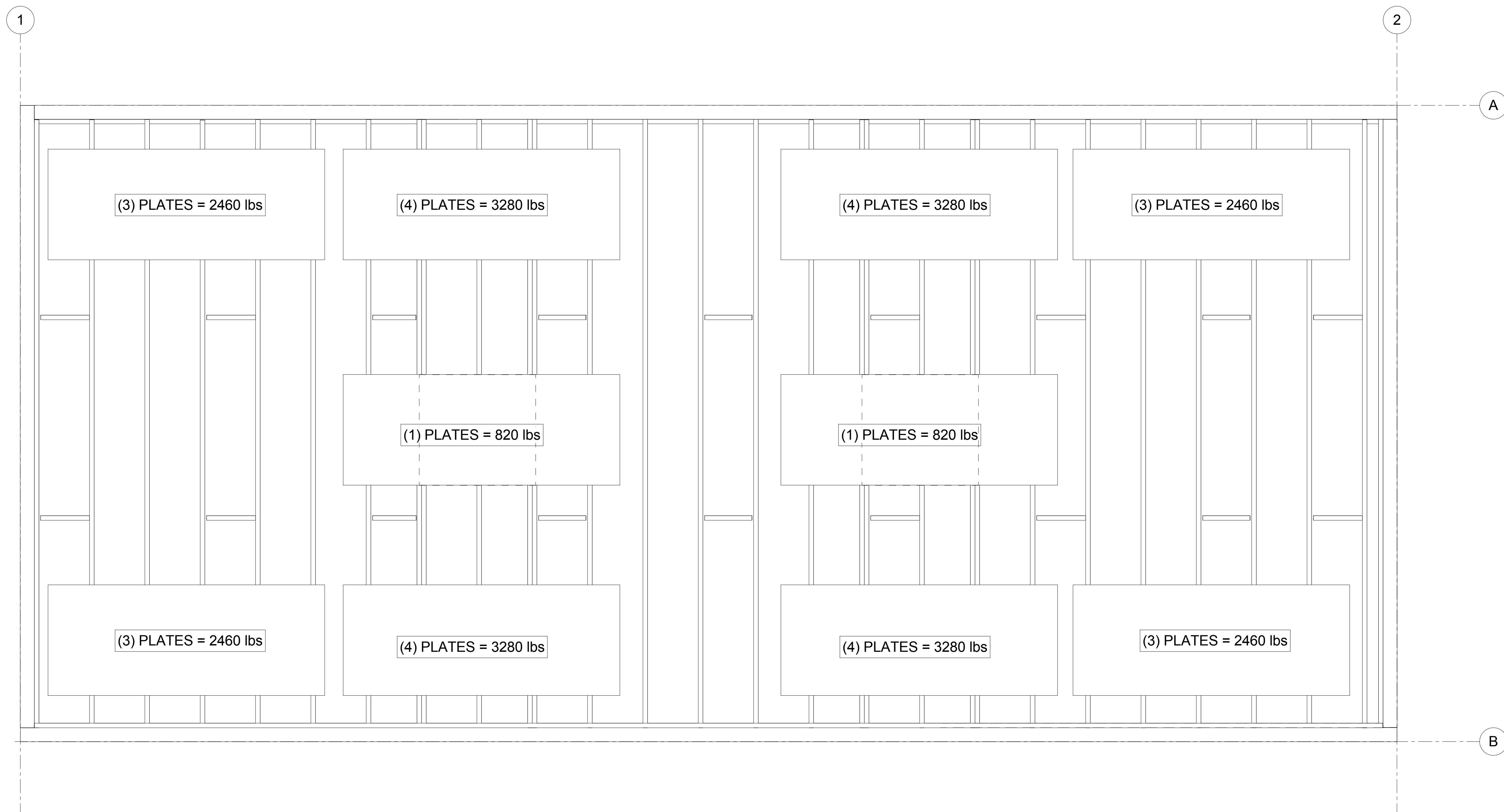
SHEET TITLE:
SUPPLEMENTAL MASS FLOOR - PHASE 2a

PROJECT:
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 PROJECT LOCATION:
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1 Supplemental Mass ROOF LAYOUT -
 PHASE 2a
 1/2" = 1'-0"

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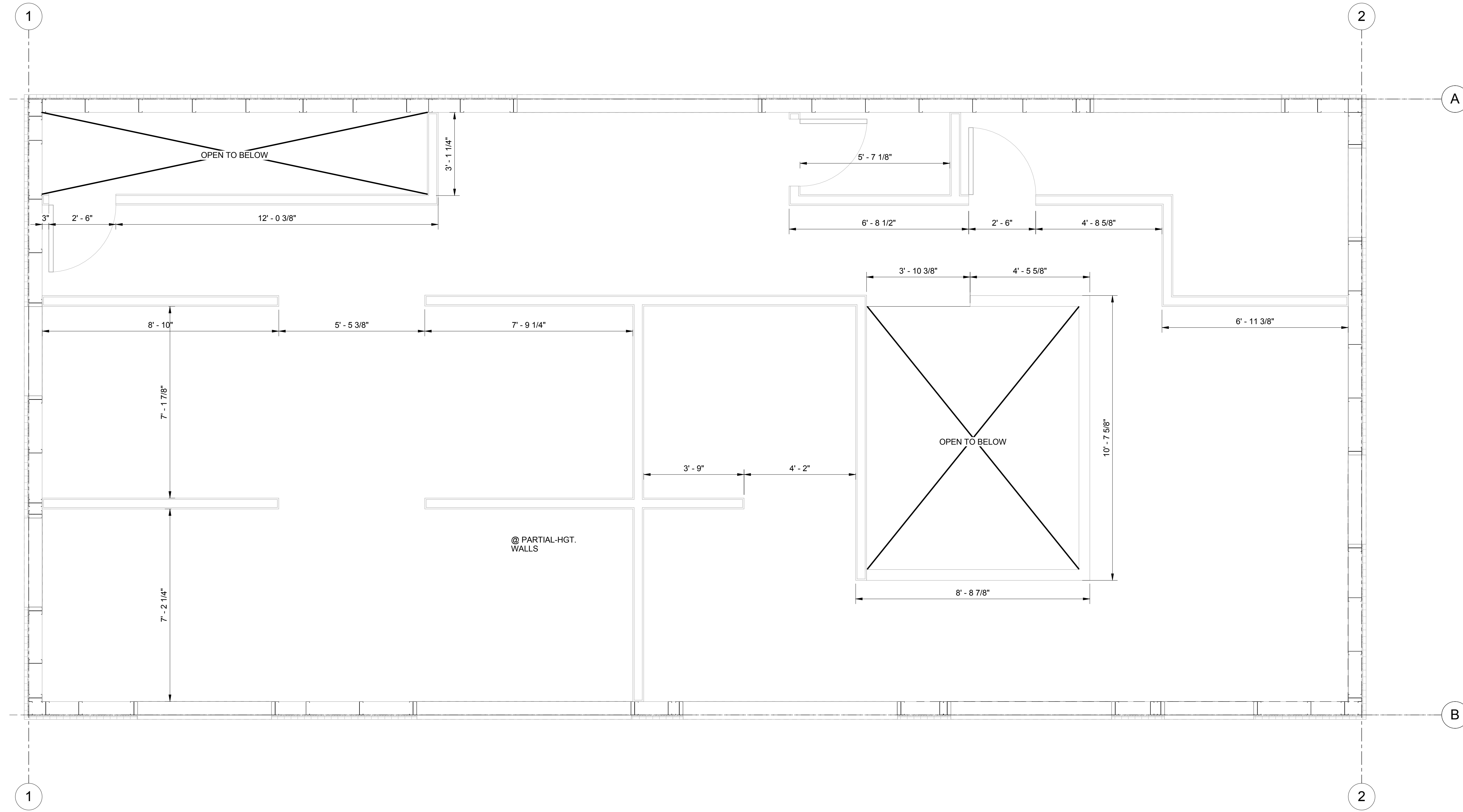
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SHEET TITLE:
SUPPLEMENTAL MASS ROOF - PHASE 2a

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

INTERIOR PARTITION LAYOUT - PHASE

SHEET TITLE:

INTERIOR PARTITION LAYOUT - PHASE 2a

PROJECT:
CFS - NEES

PROJECT LOCATION:
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