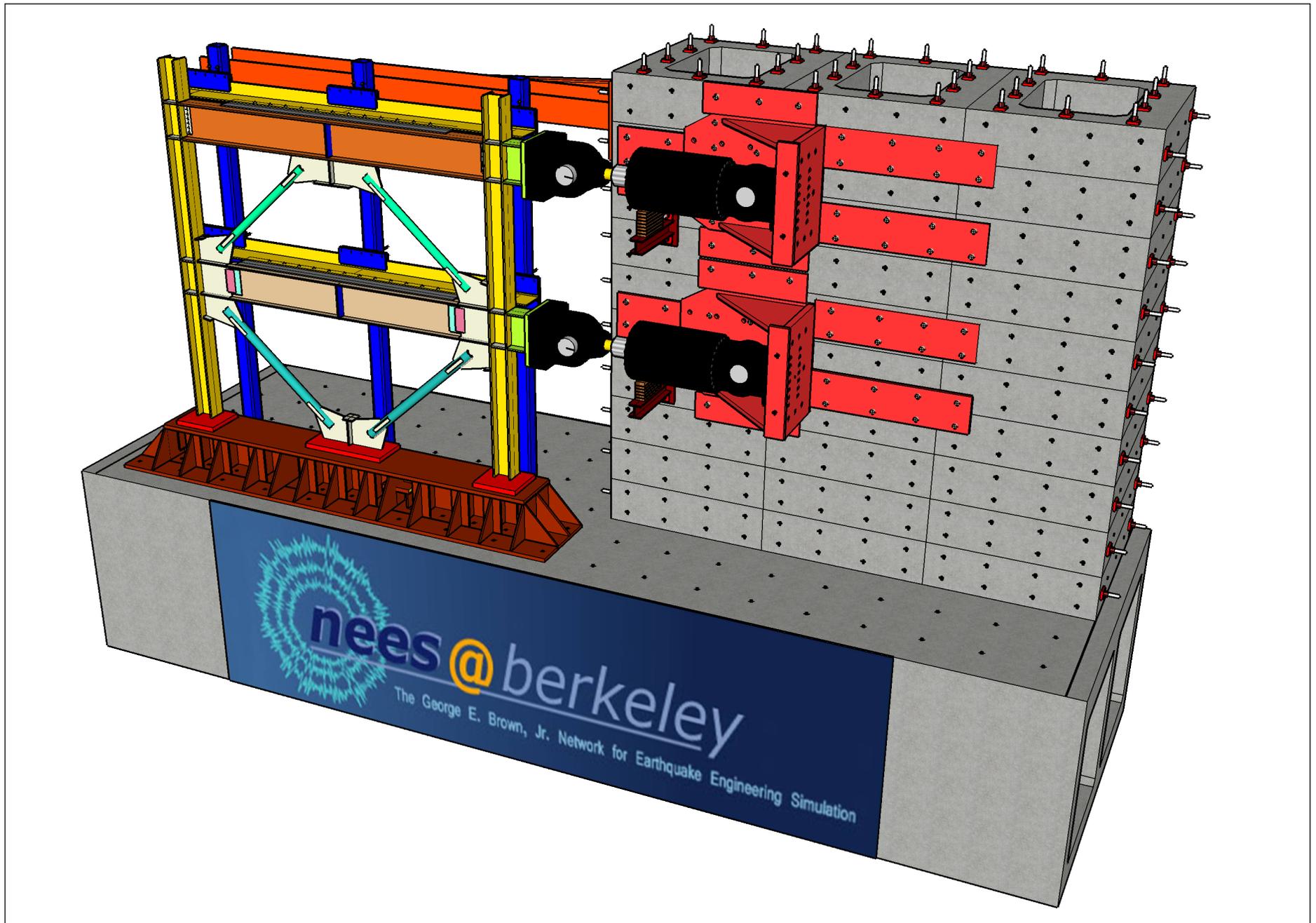


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## **Appendix E**

### **Channel Locations and Lists for Specimen TCBF-B-2**

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TCBF-B-2, Sensor Locations  
**S.00**



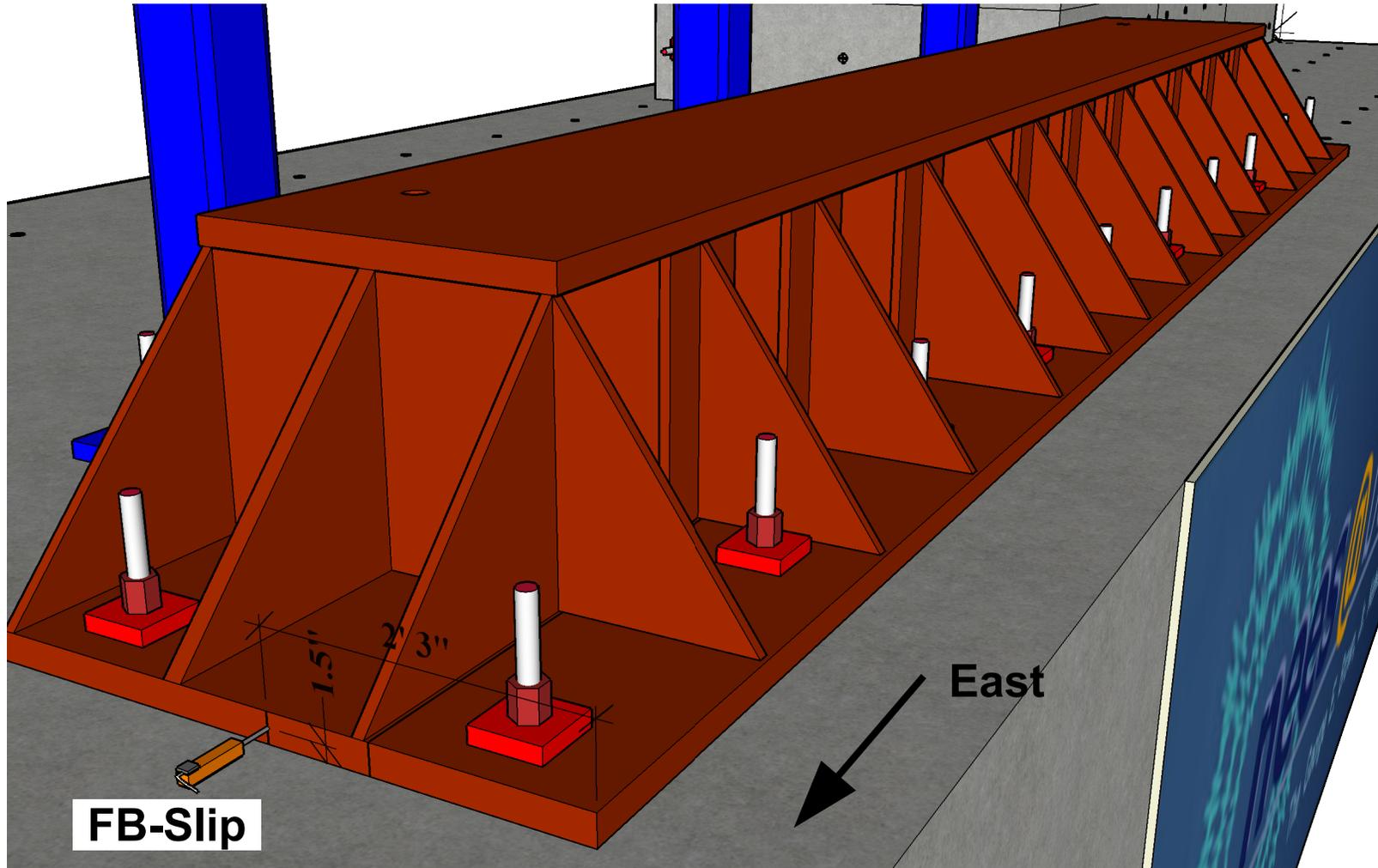
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S.01



**FB-Slip = floor beam slip monitoring (east side, location is shown in the figure)**



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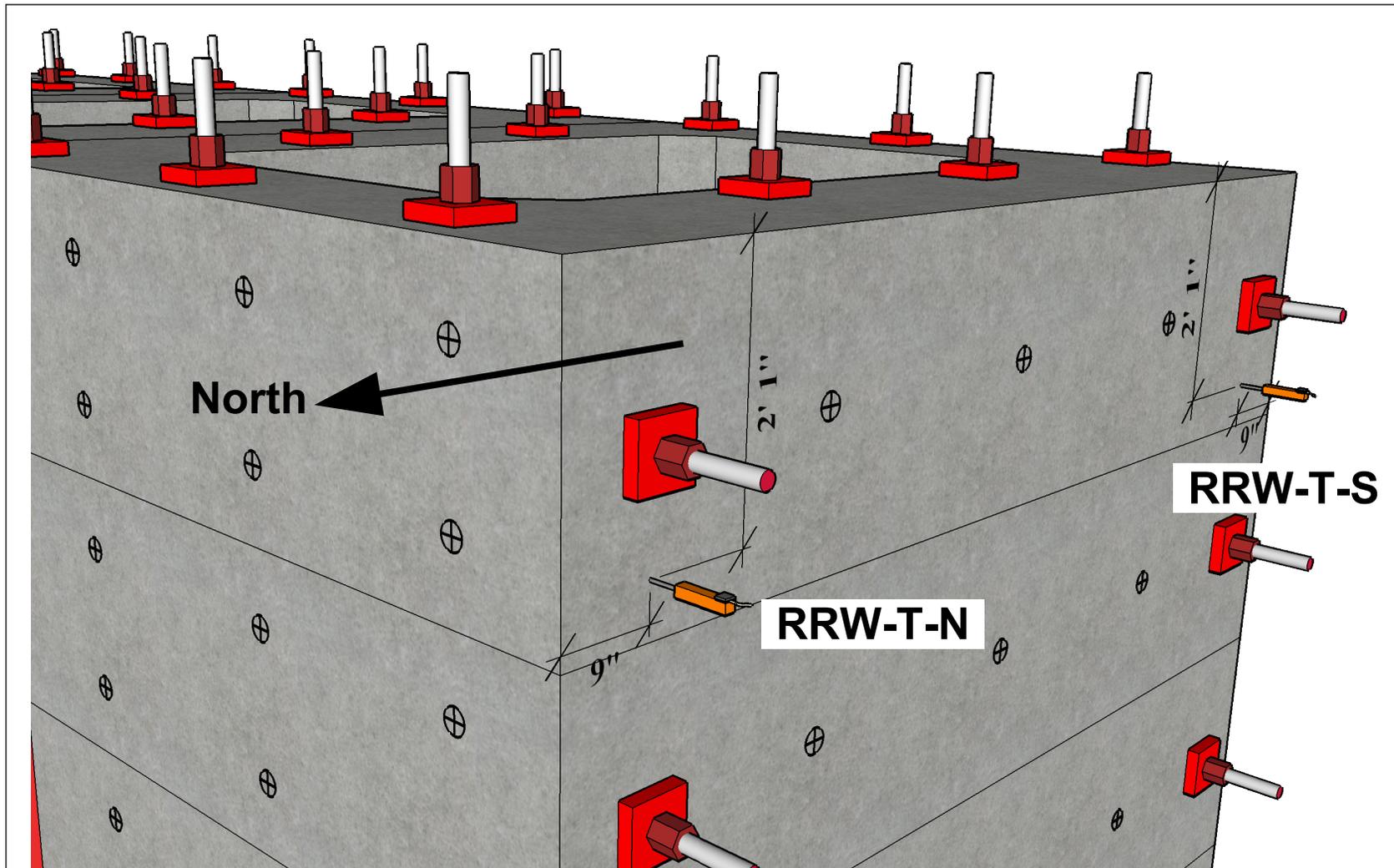
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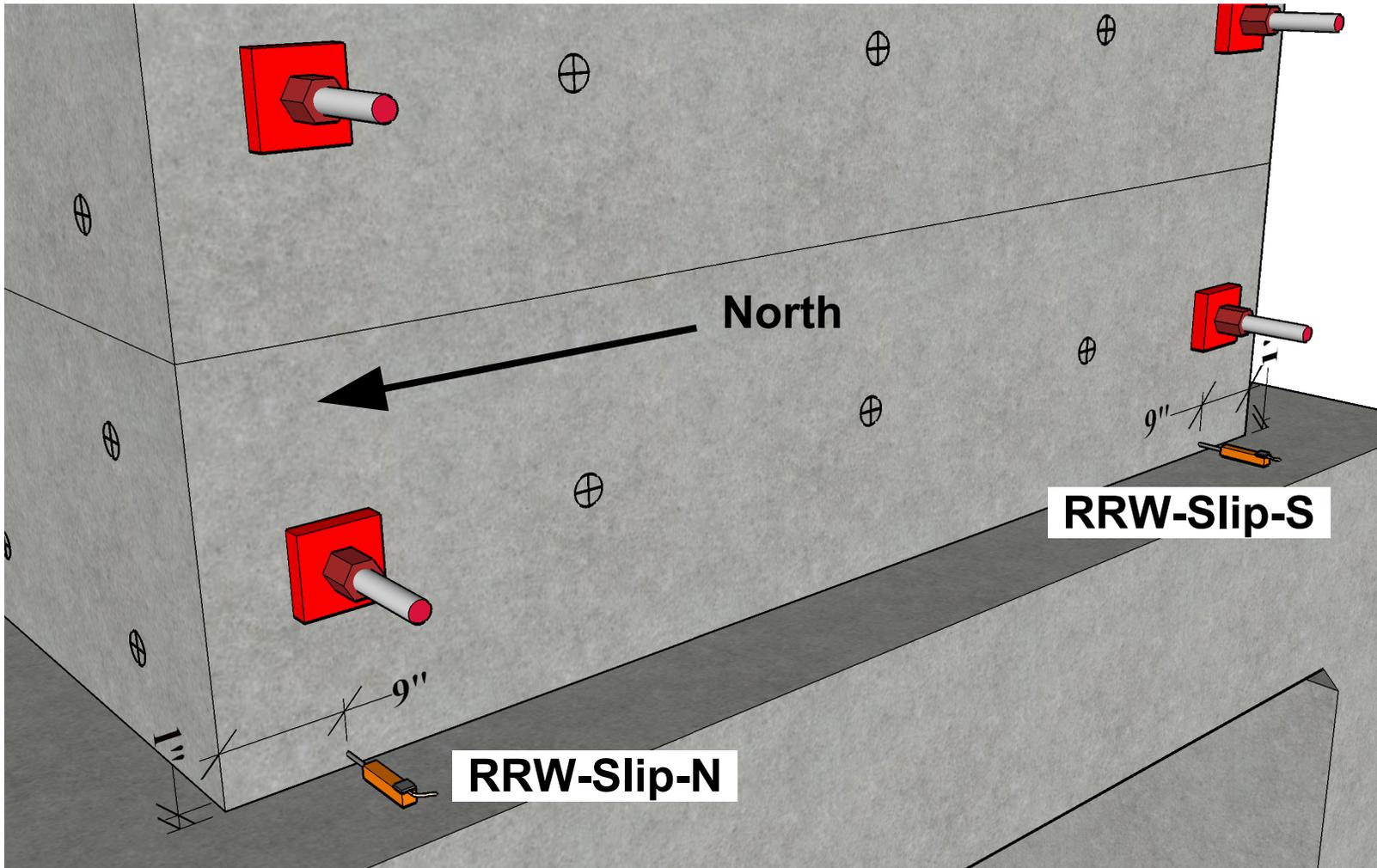
Sensor  
Locations

**S.02**



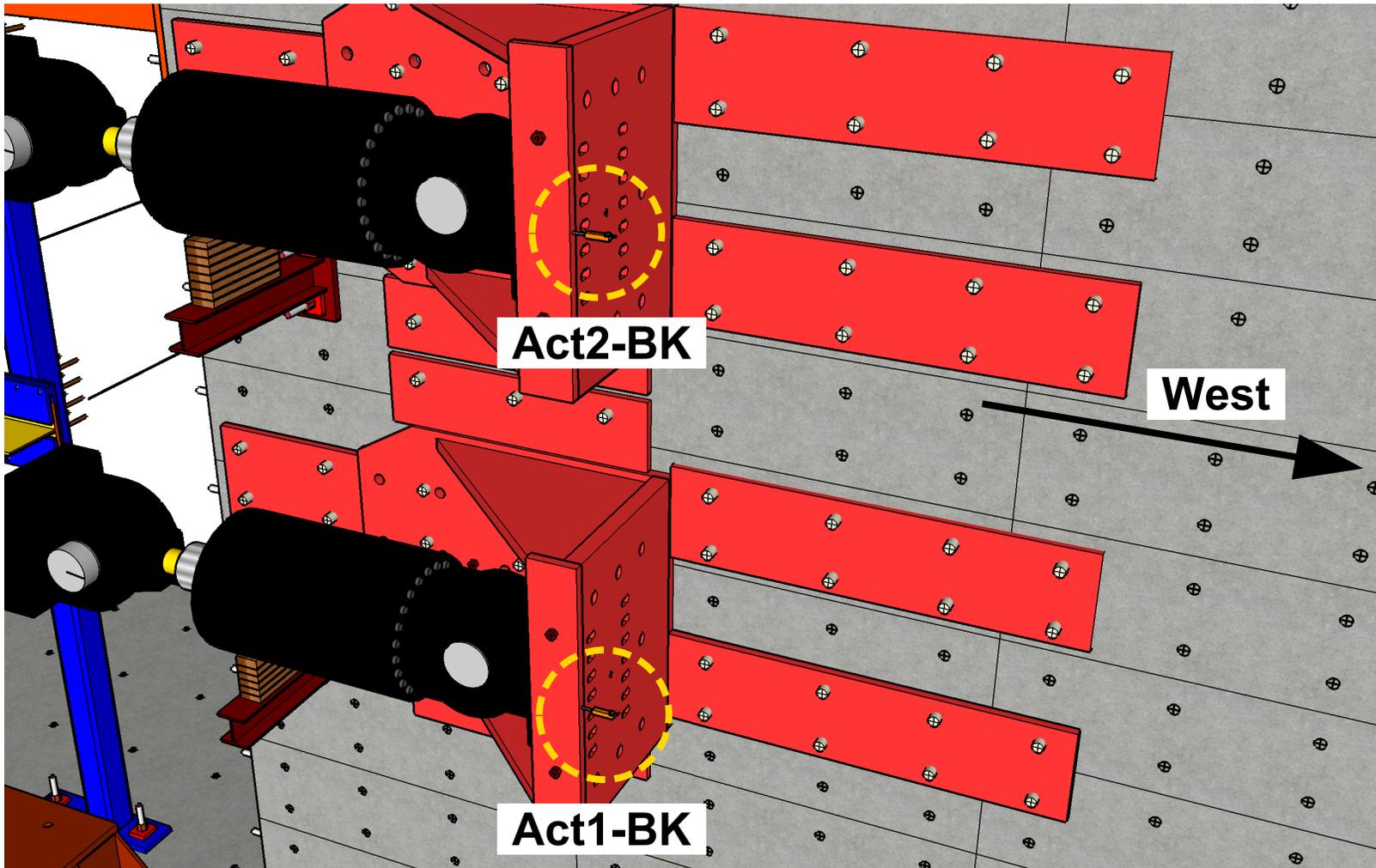
**RRW-T-N = north side of reconfigurable reaction wall (RRW),  
top deformation monitoring (location is shown in the figure)**

**RRW-T-S = south side of reconfigurable reaction wall (RRW),  
top deformation monitoring (location is shown in the figure)**



**RRW-Slip-N = north side of reconfigurable reaction wall (RRW) near base, slip monitoring (location is shown in the figure)**

**RRW-Slip-S = south side of reconfigurable reaction wall (RRW) near base, slip monitoring (location is shown in the figure)**



**Act1-BK = lower actuator bracket deformation monitoring  
(location is shown in the figure)**

**Act2-BK = upper actuator bracket deformation monitoring  
(location is shown in the figure)**



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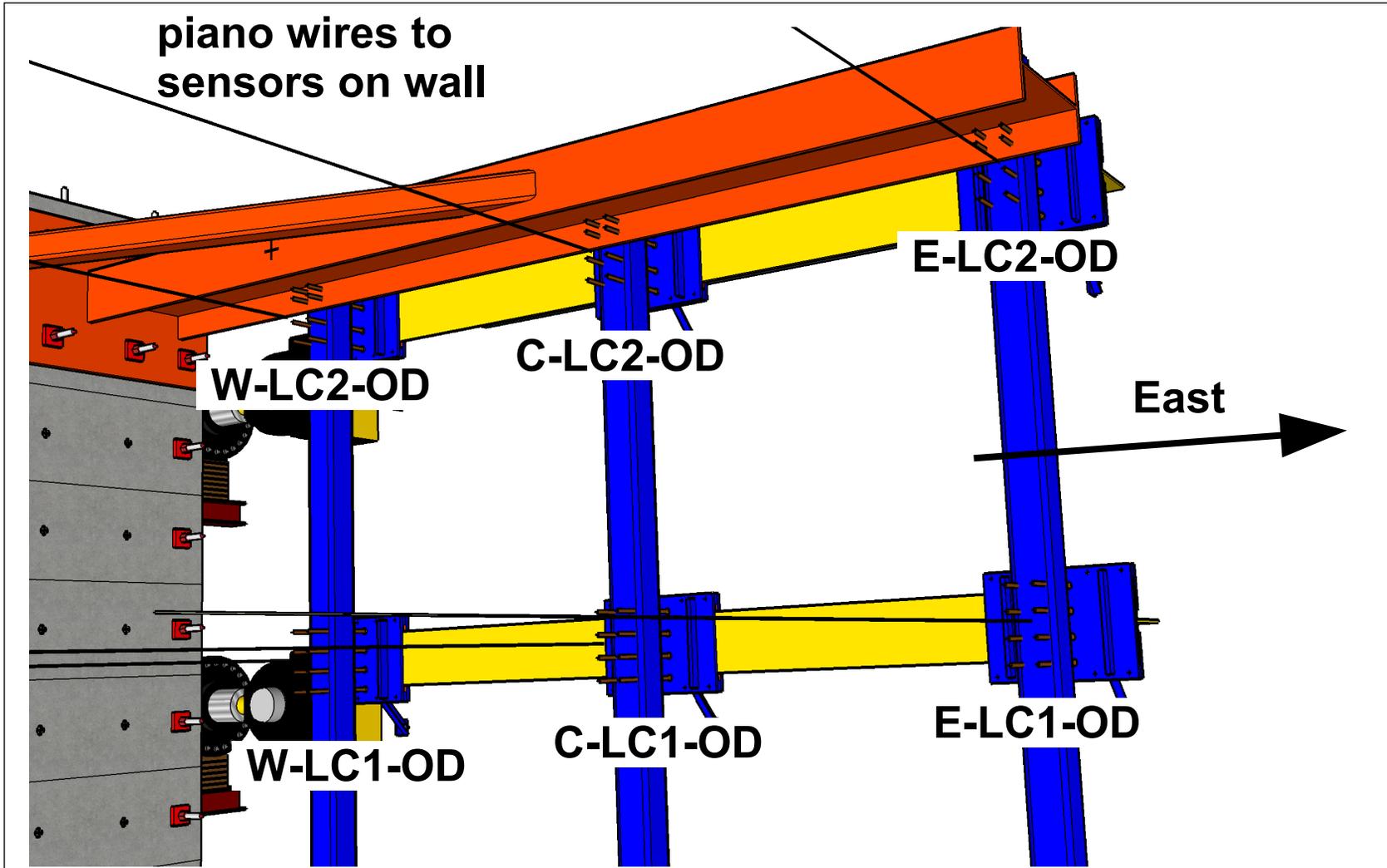
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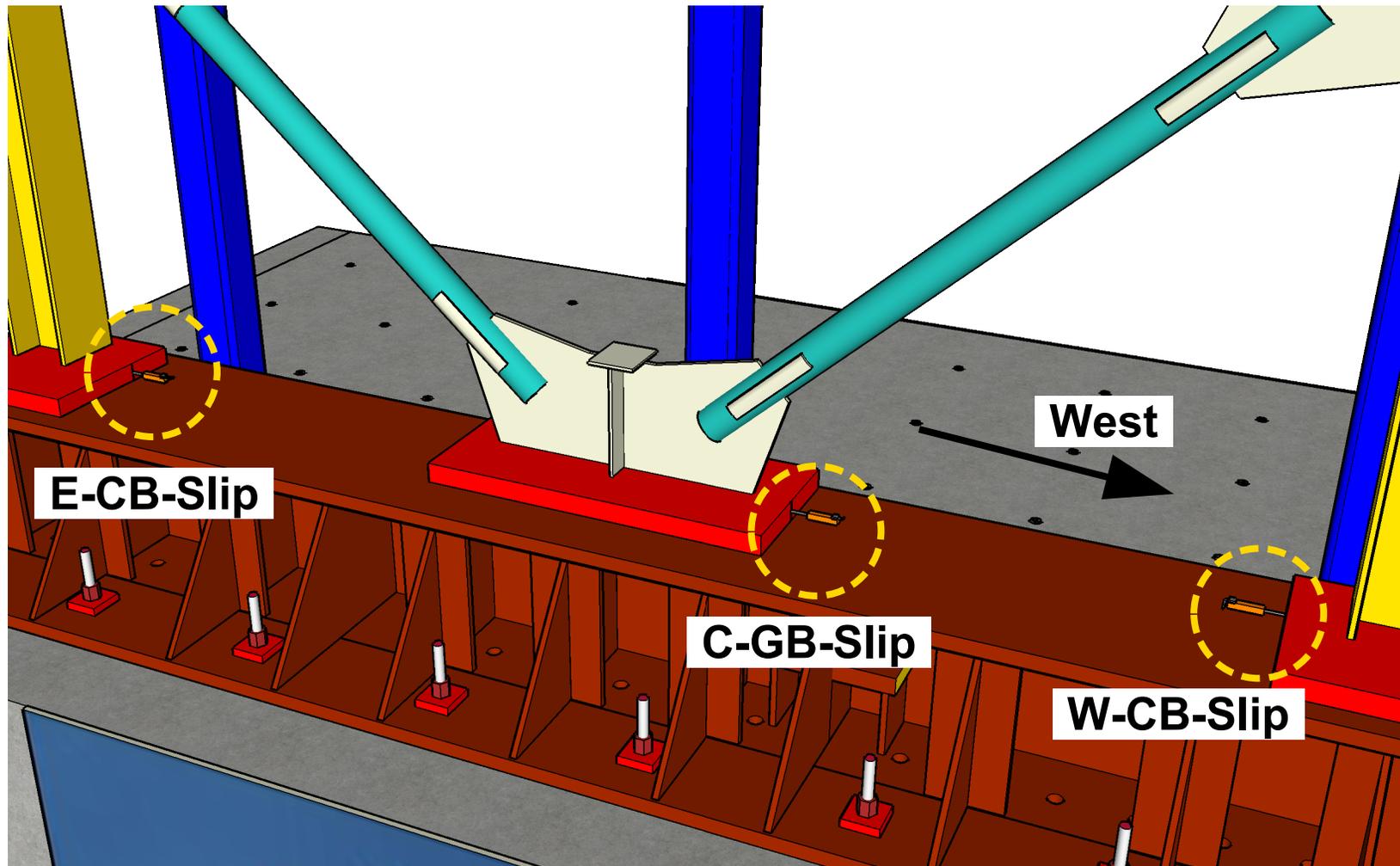
Sensor  
Locations

S.05



E-LC1-OD (location is shown in the figure)

- Out-of-plane Deformation monitoring
- LC1 or LC2 (1F or 2F HSS columns, lateral)
- E, W or C (east, west or center)



**E-CB-Slip = east column base slip monitoring**  
**C-GB-Slip = center gusset plate base slip monitoring**  
**W-CB-Slip = west column base slip monitoring**  
(locations are shown in the figure, align with the braced frame center plane)



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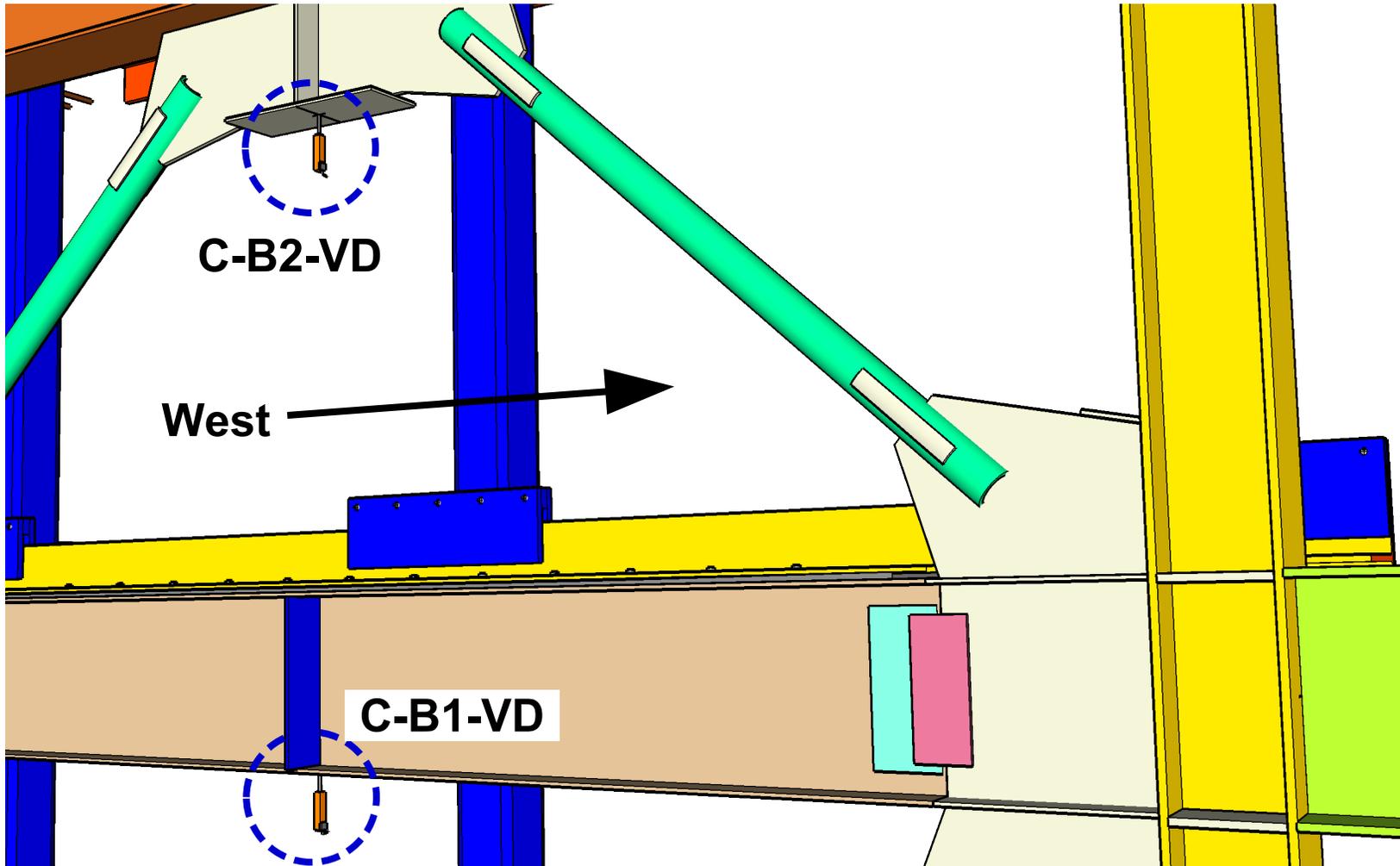
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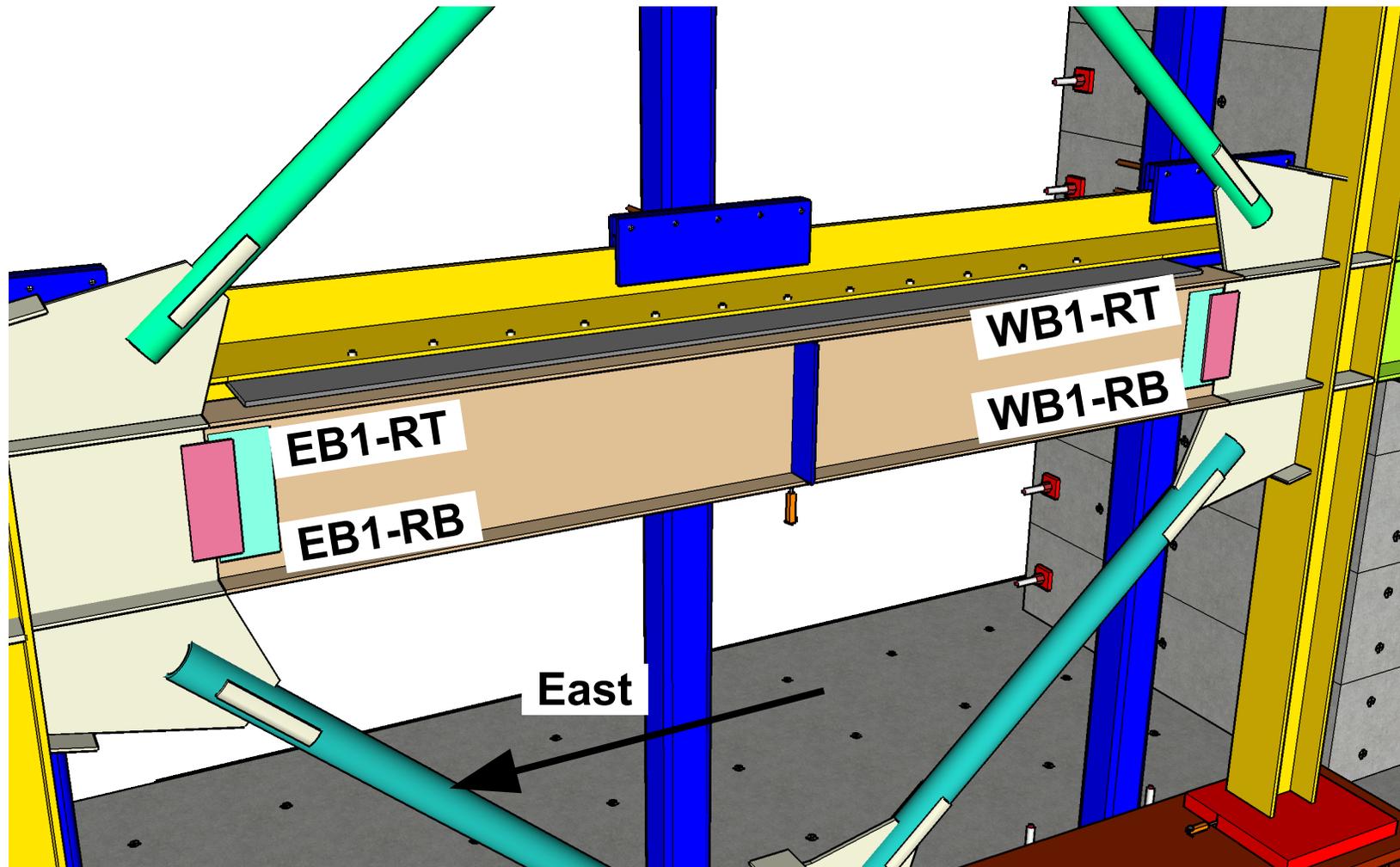
Sensor  
Locations

**S.07**



**C-B2-VD = roof beam (2F) center deflection monitoring**  
**C-B1-VD = lower beam (1F) center deflection monitoring**

**(locations are shown in the figure, align with the beam  
bottom flange centerline)**



**WB1-RT, WB1-RB = west lower beam (1F) rotation monitoring**  
**EB1-RT, EB1-RB = east lower beam (1F) rotation monitoring**  
**RT, RB = top or bottom side**  
**(locations are shown in the figure, distance between two centerlines of top and bottom sticks is 18")**



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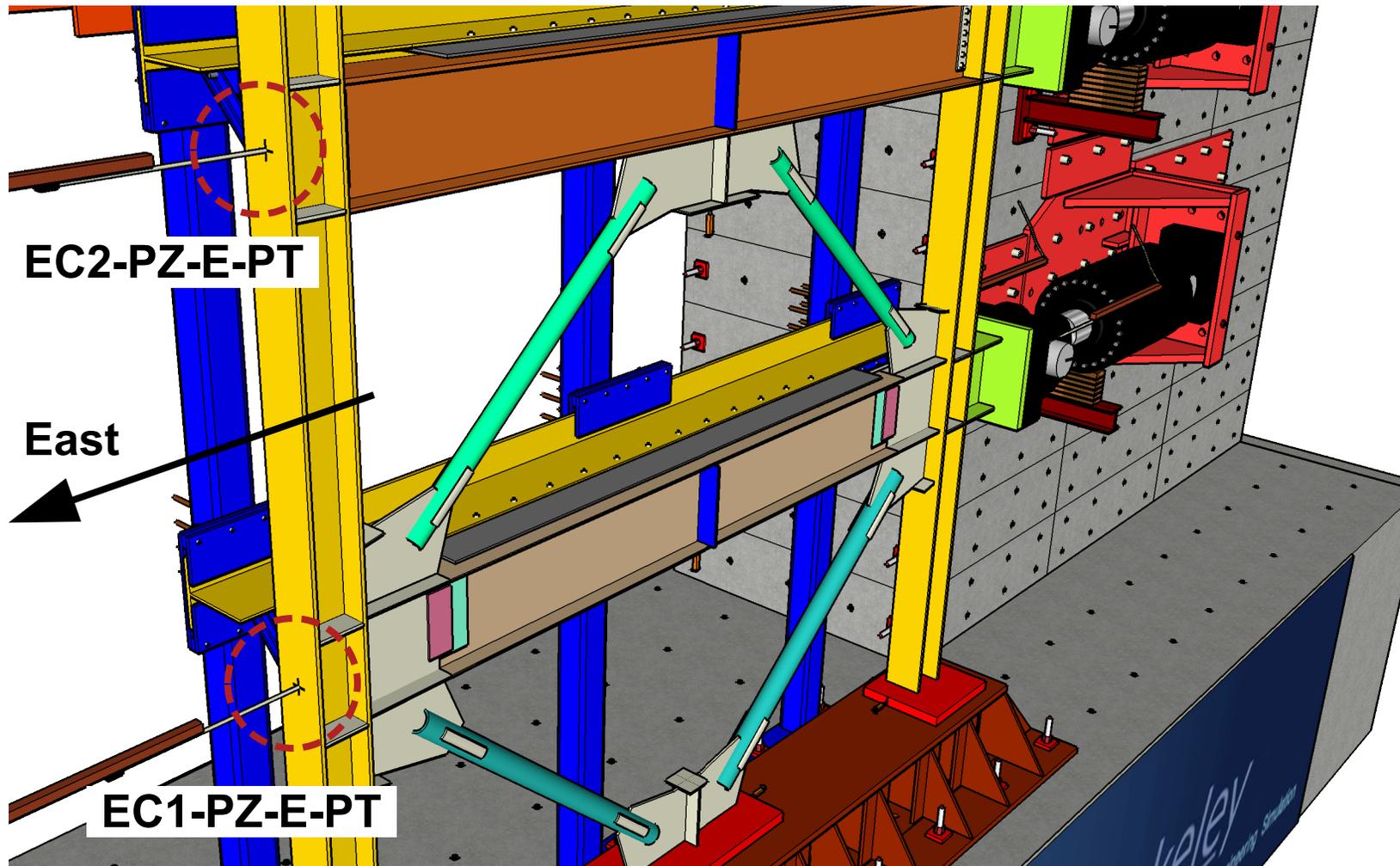
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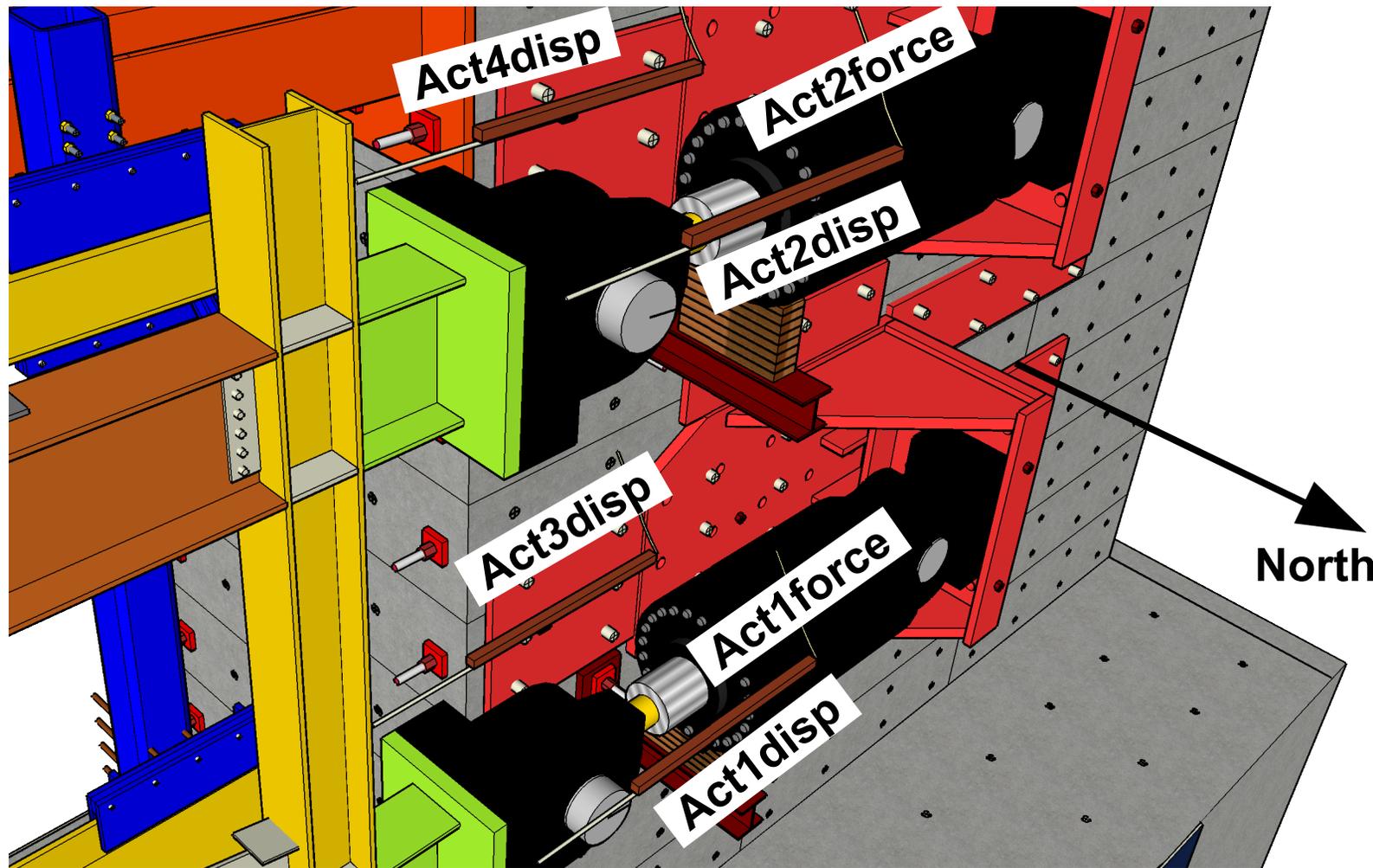
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**EC2-PZ-E-PT = roof level (2F) displacement monitoring**  
**EC1-PZ-E-PT = lower level (1F) displacement monitoring**  
**(locations are shown in the figure, align with the beam centerline at each floor level)**

**Sensor  
Locations**

**S.09**



**Act2disp, Act4sidp = roof level displacement monitoring (north and south side)**  
**Act1disp, Act3disp = lower level displacement monitoring (north and south side)**  
**Act1force, Act2force = lower and roof level load cell (locations are shown in the figure)**



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**S.10**



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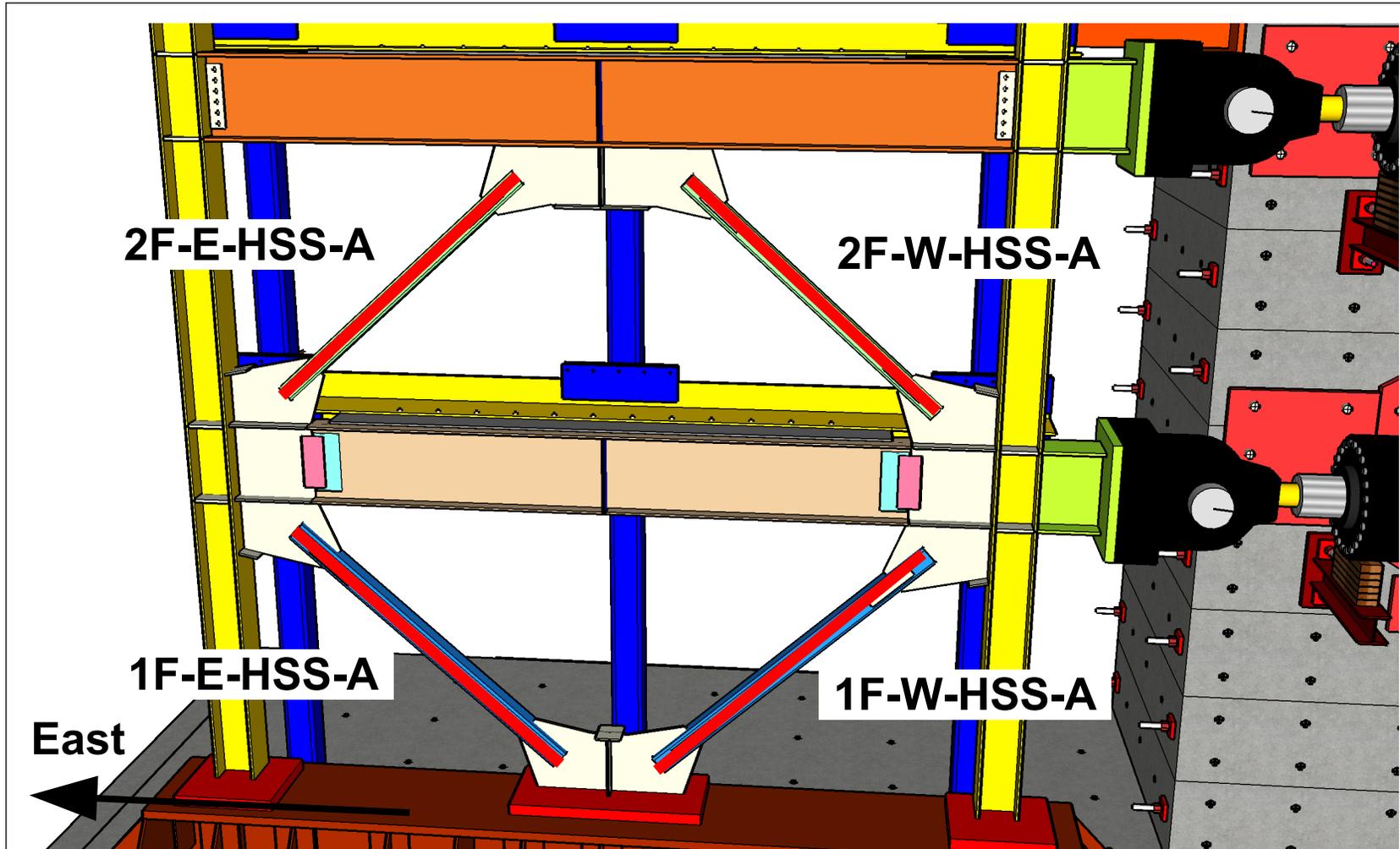
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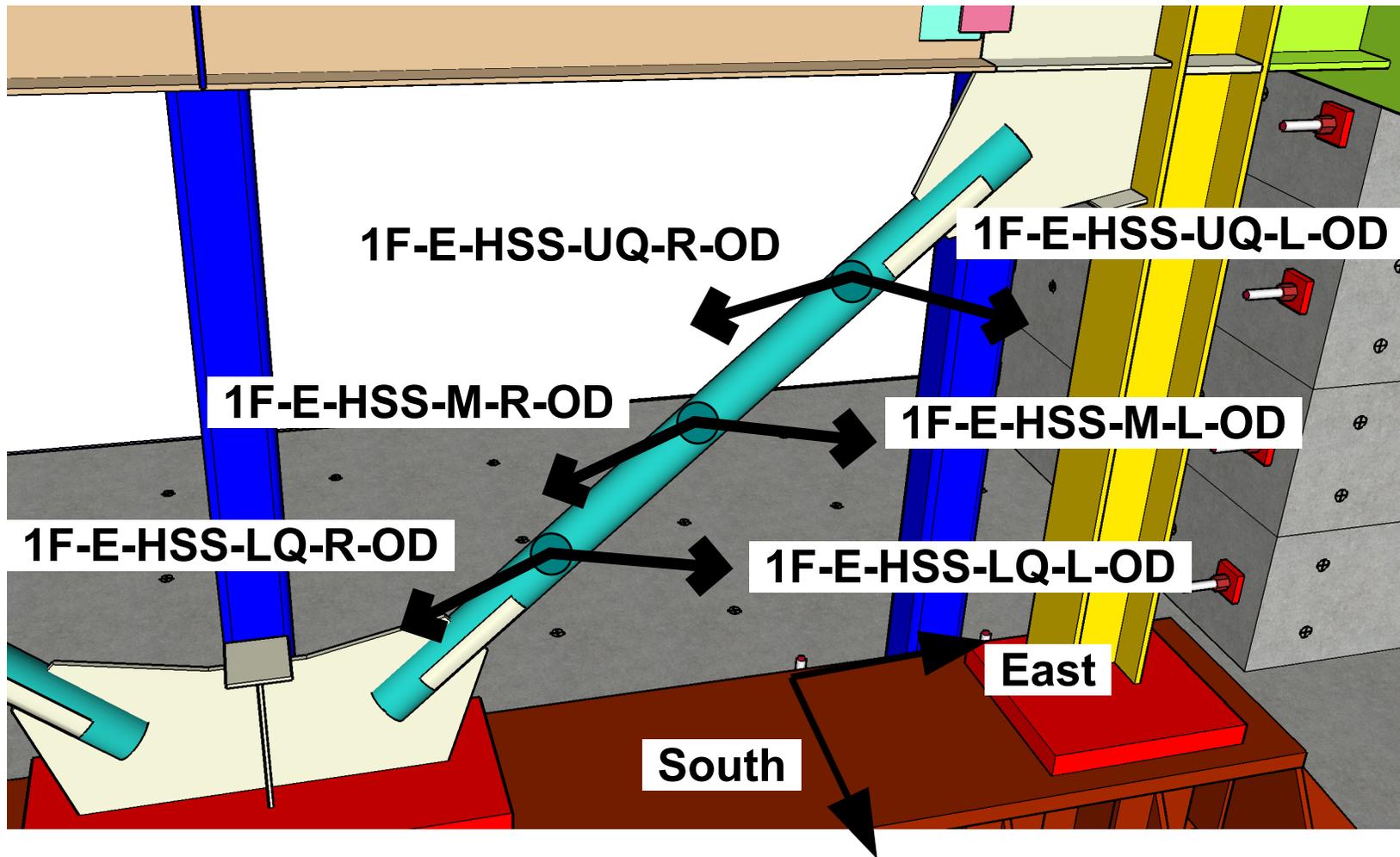
Sensor  
Locations

S.11



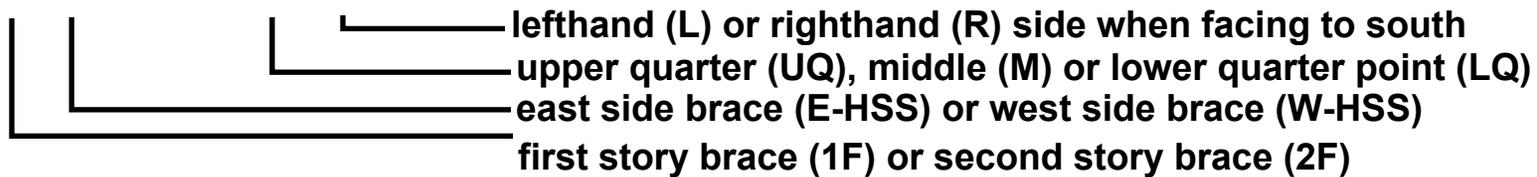
1F = first story; 2F = second story  
E = east side; W = west side; A = axial direction

Round HSS brace axial deformation monitoring along the axis  
of brace (wire pot locations are shown in the figure)



Typical brace out-of-plane deformation monitoring (wire pot directions are shown in the figure for one brace, other braces are similar, six wire pots per brace)

1F-E-HSS-UQ-R-OD





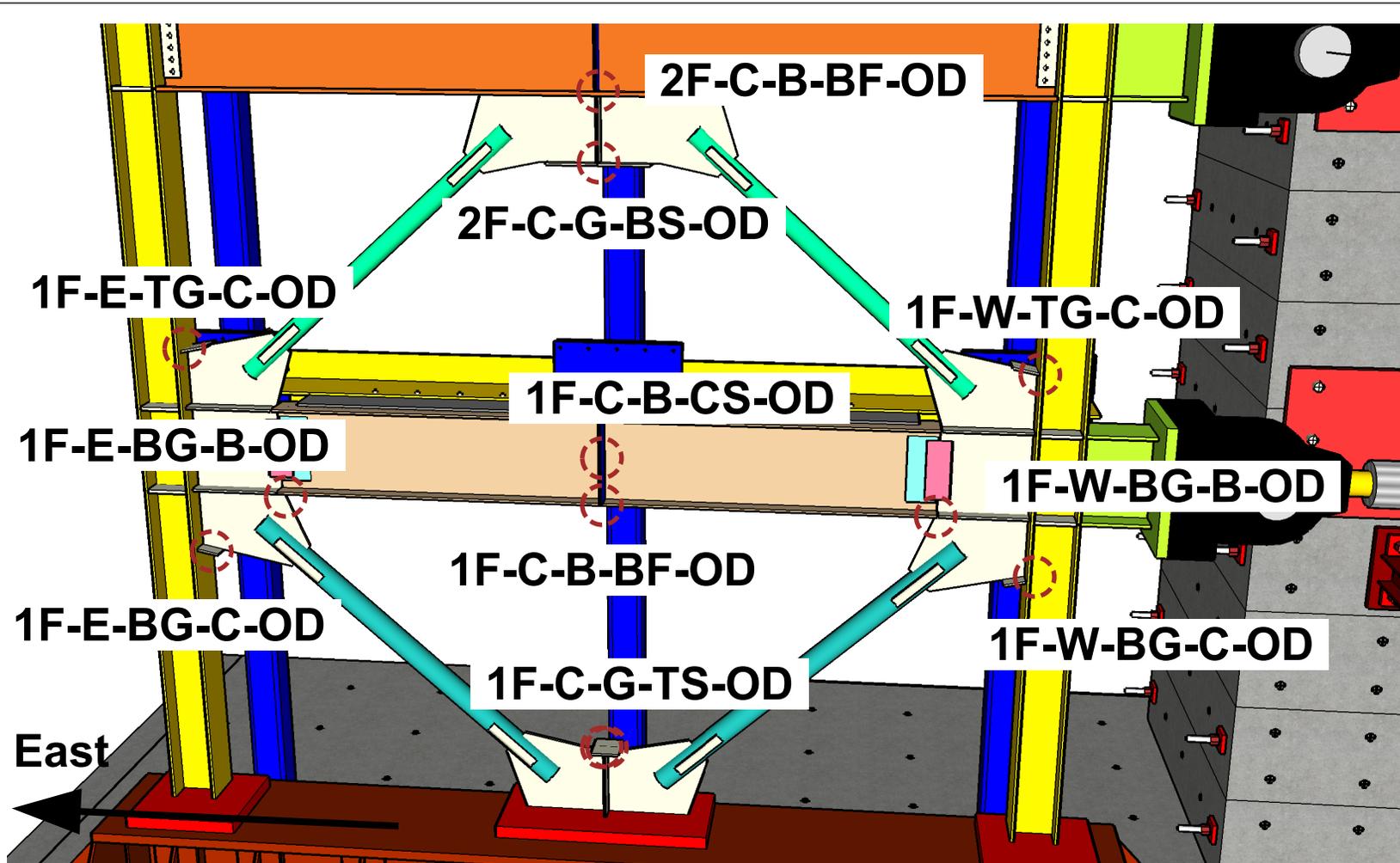
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Locations

**S.13**



**C, B = column or beam side corner; OD = out-of-plane deform  
C-B, C-G = beam or gusset center; BF = bottom flange  
BS, CS, TS = bottom, center or top stiffener corner  
TG, BG = top or bottom gusset plate region  
E, W = east or west side; 1F, 2F = first or second story  
(wire pot target locations are shown in the figure)**



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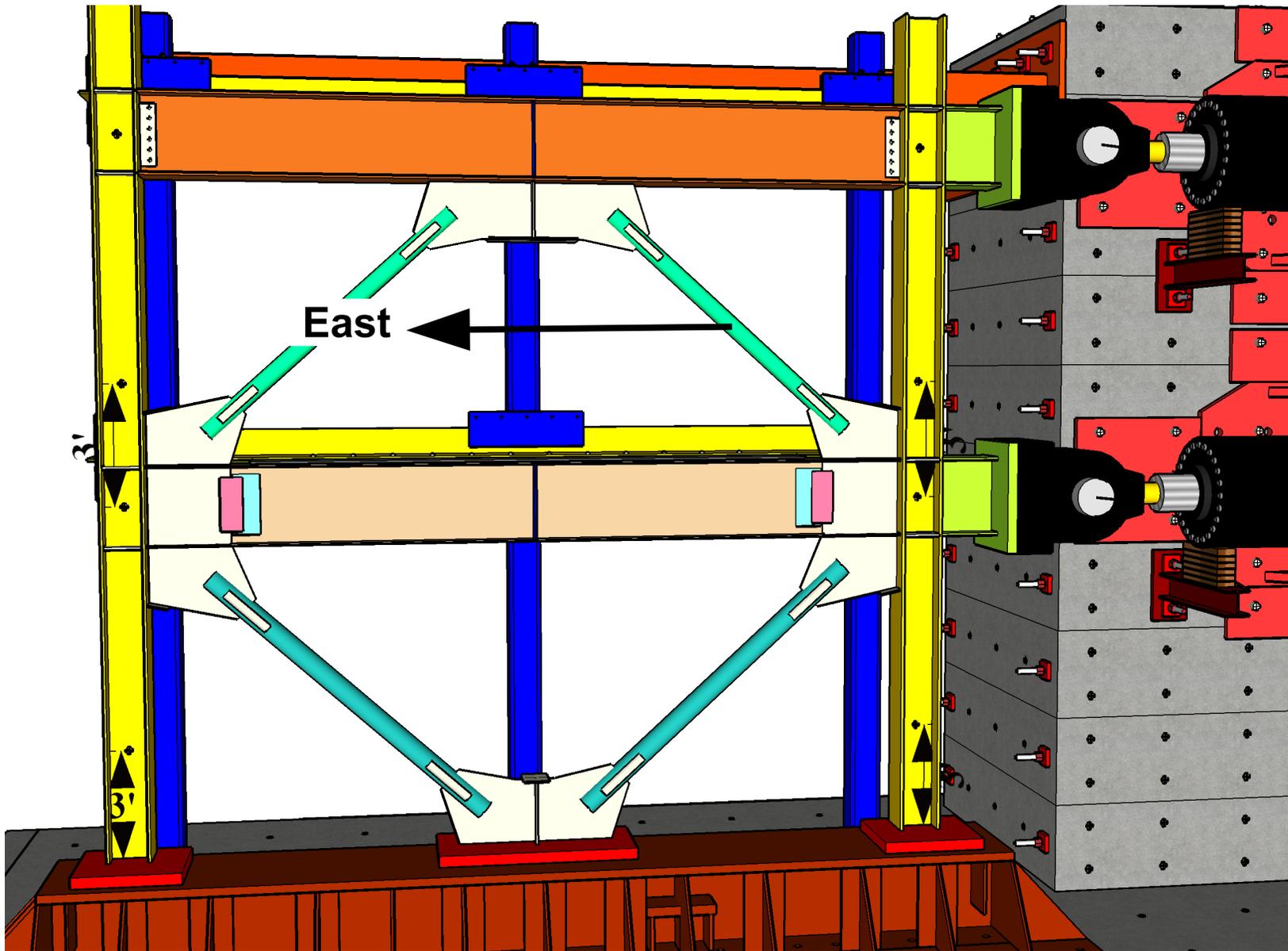
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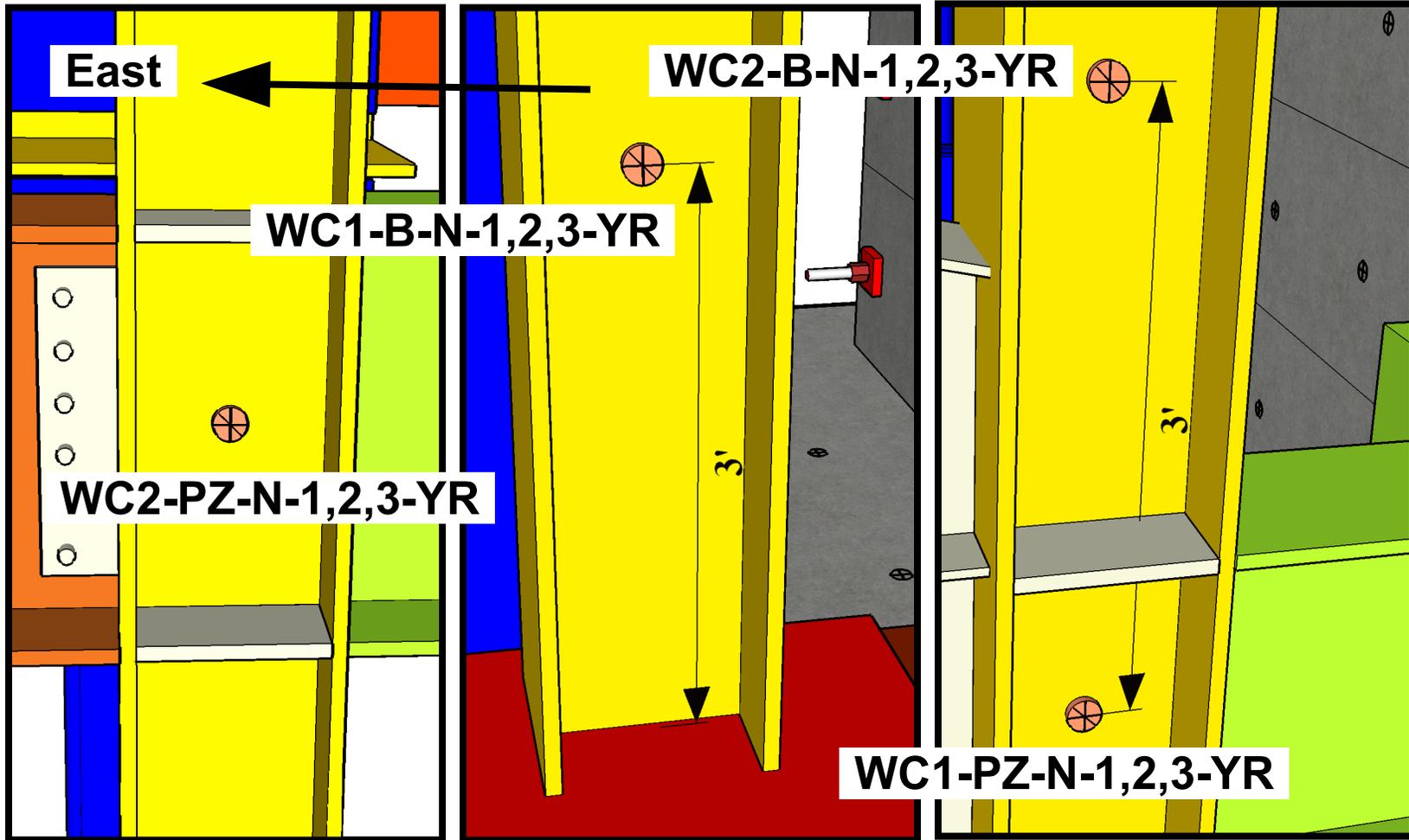
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Locations

S.14

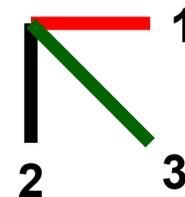


Overview of eight rosette locations on the specimen (only the column and panel zone regions). Details and label keys are shown in the next page.

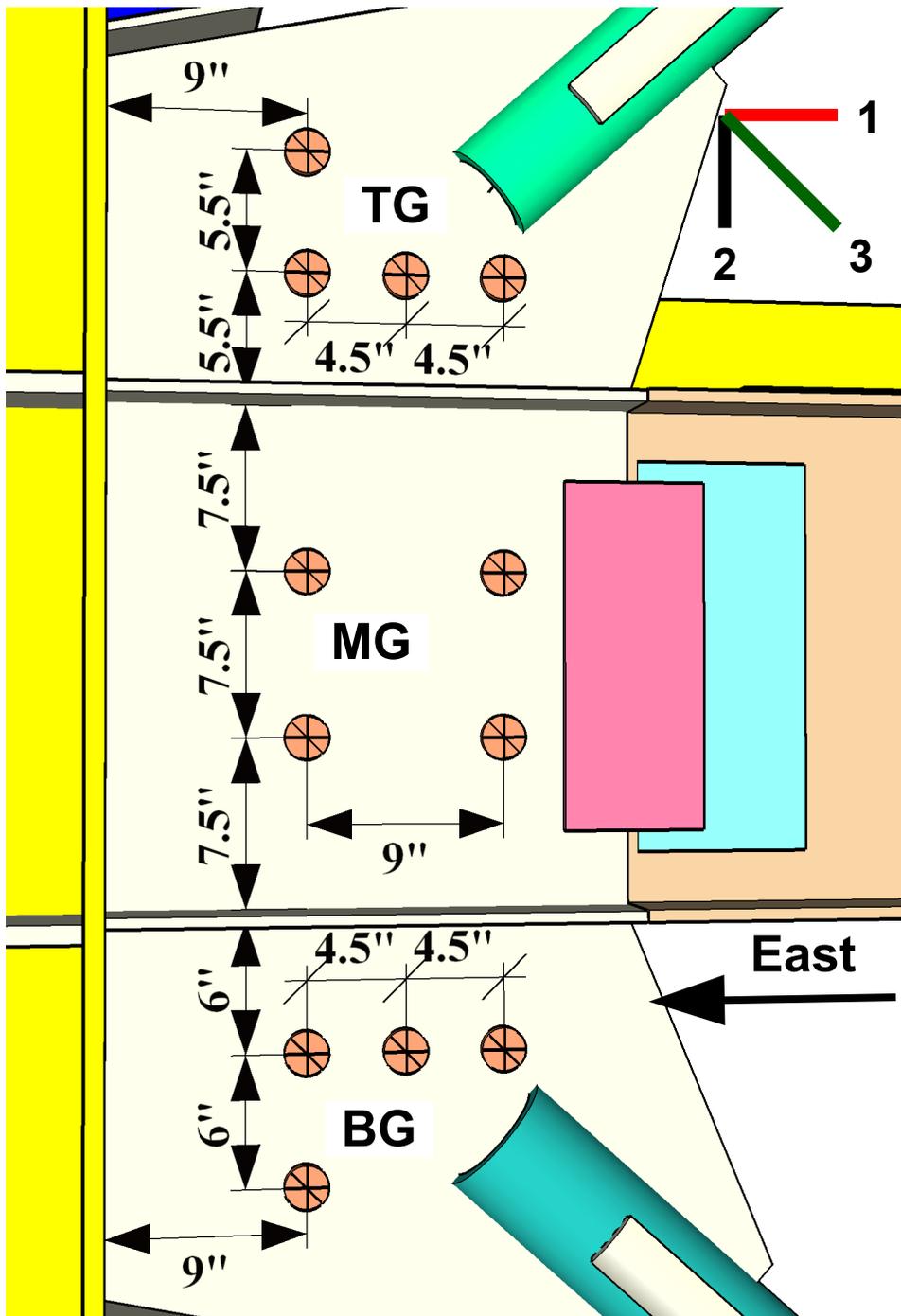


**WC1-B-N-1,2,3-YR**

- YR = rosette with larger measurement range
- 1 = 0 degree; 2 = 90 degree; 3 = 135 degree
- N = glued at north side
- B = bottom side of column; PZ = panel zone center
- WC = west column; EC = east column; 1 = 1F; 2 = 2F



(roestte locations for the west column are shown in the figure, align with the column centerline, east column similar)



### 1F-E-TG-TL-1,2,3-N-YR

1F-E = east gusset plate

TG = top region

MG = middle region

BG = bottom region

TL = top left side

BL = bottom left side

TR = top right side

BR = bottom right side

TC = top center

BC = bottom center

1 = 0 degree (direction)

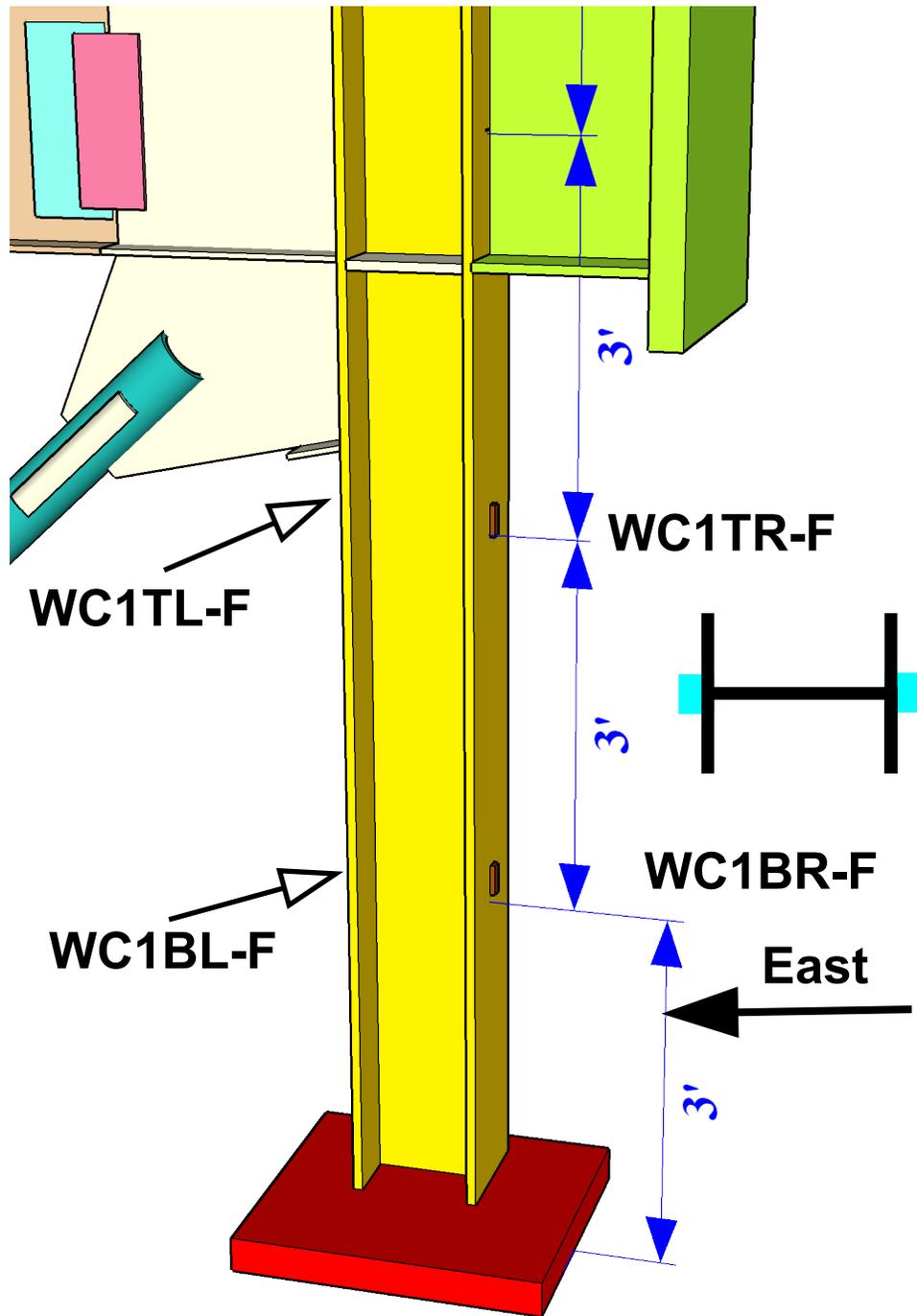
2 = 90 degree

3 = 135 degree

N = glued at north side

YR = rosette with larger measurement range

(twelve rosette locations for the one-piece gusset plate, label keys are shown above)



WC1TR-F ...  
EC1BL-F ...

WC = west column  
 EC = east column  
 TL = top left side  
 BL = bottom left side  
 TR = top right side  
 BR = bottom right side  
 1 = first story  
 2 = second story  
 F = FLA strain gauge

(total sixteen strain gauge locations for two columns, label keys are shown above, align with the column flange centerline; east column similar)



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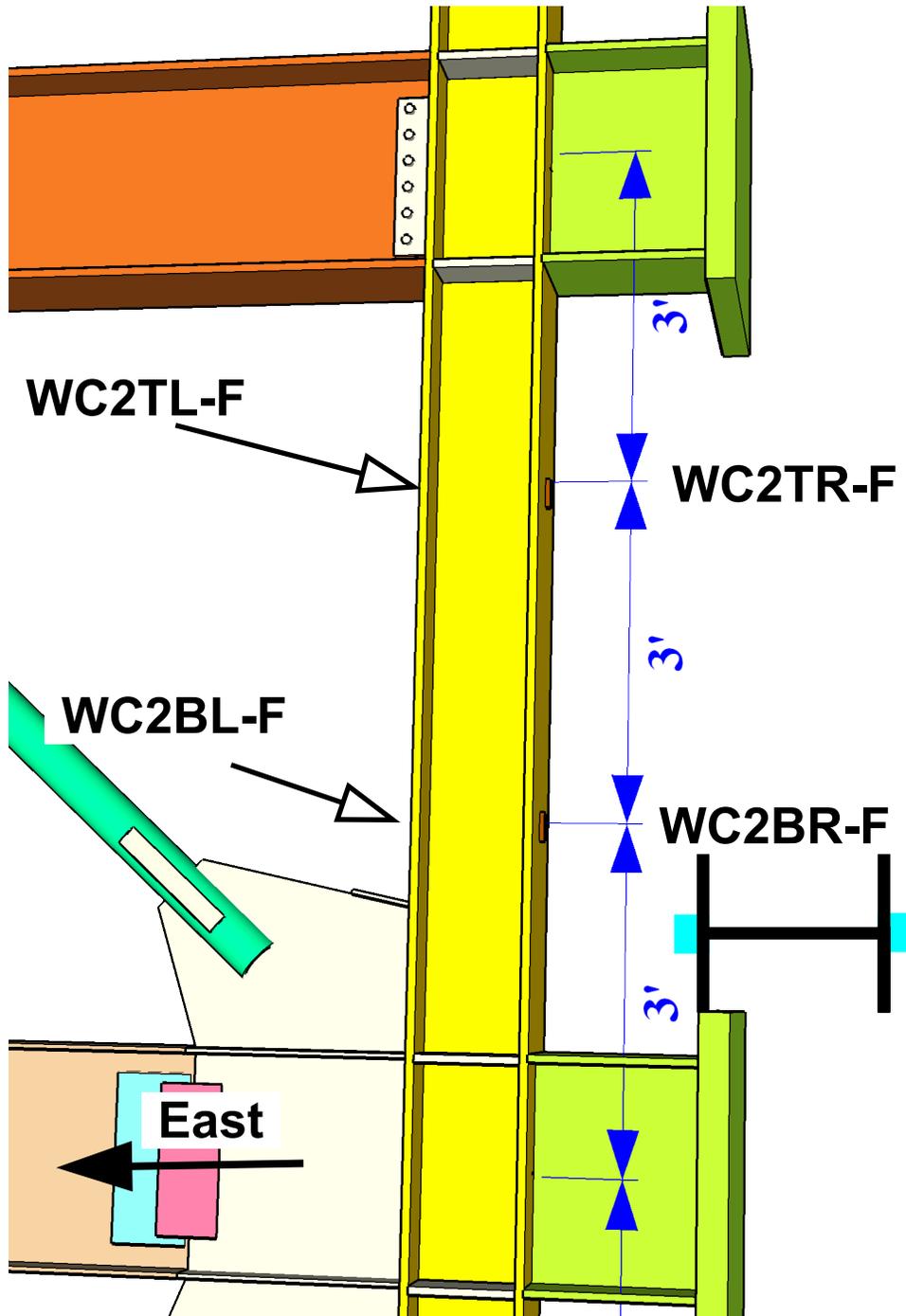
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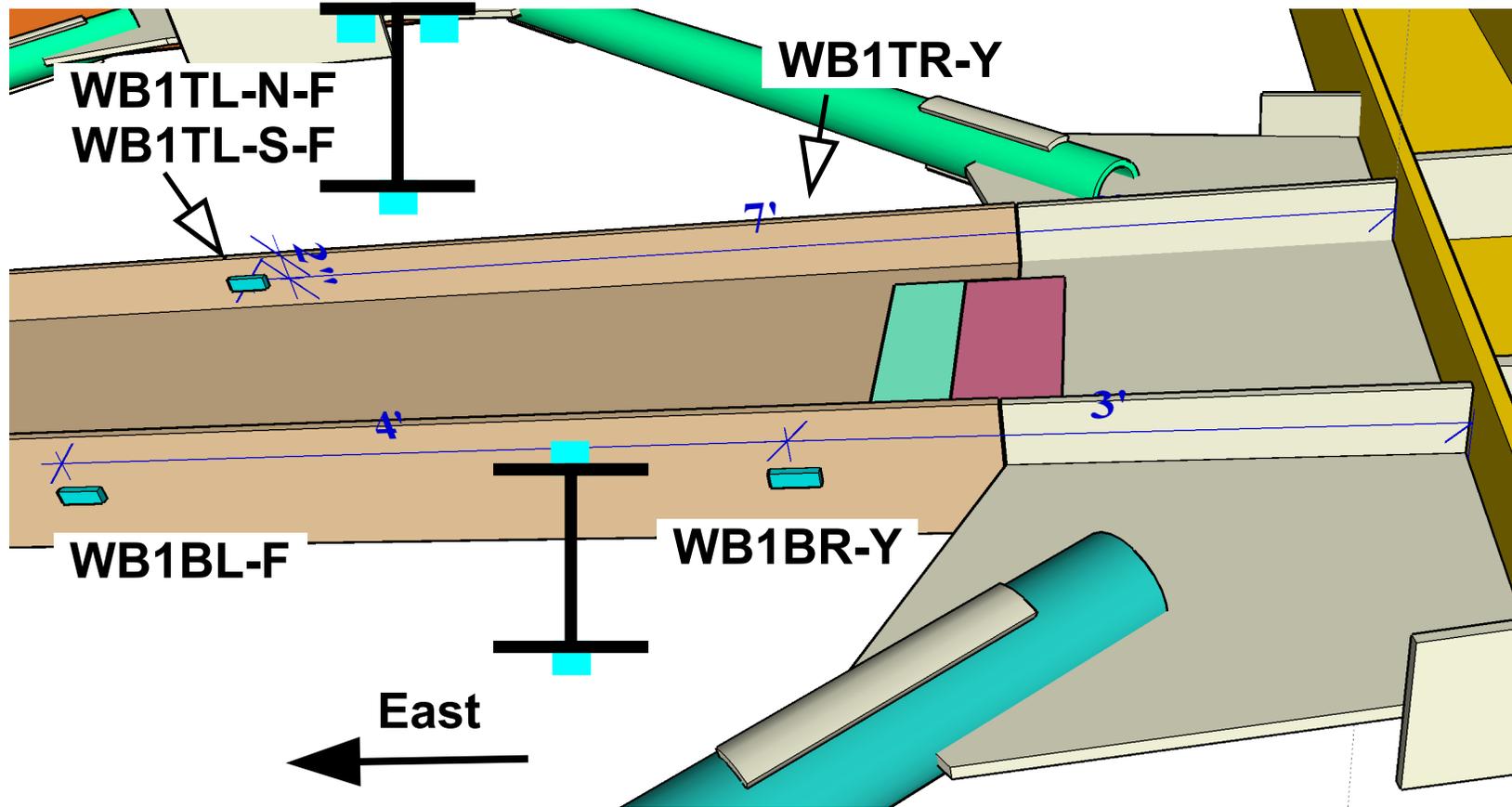
S.17



WC2TR-F ...  
EC2BL-F ...

WC = west column  
EC = east column  
TL = top left side  
BL = bottom left side  
TR = top right side  
BR = bottom right side  
1 = first story  
2 = second story  
F = FLA strain gauge

(total sixteen strain gauge locations for two columns, label keys are shown above, align with the column flange centerline; east column similar)



**WB1TR-Y ...**

**WB1 = west lower beam; EB1 = east lower beam**

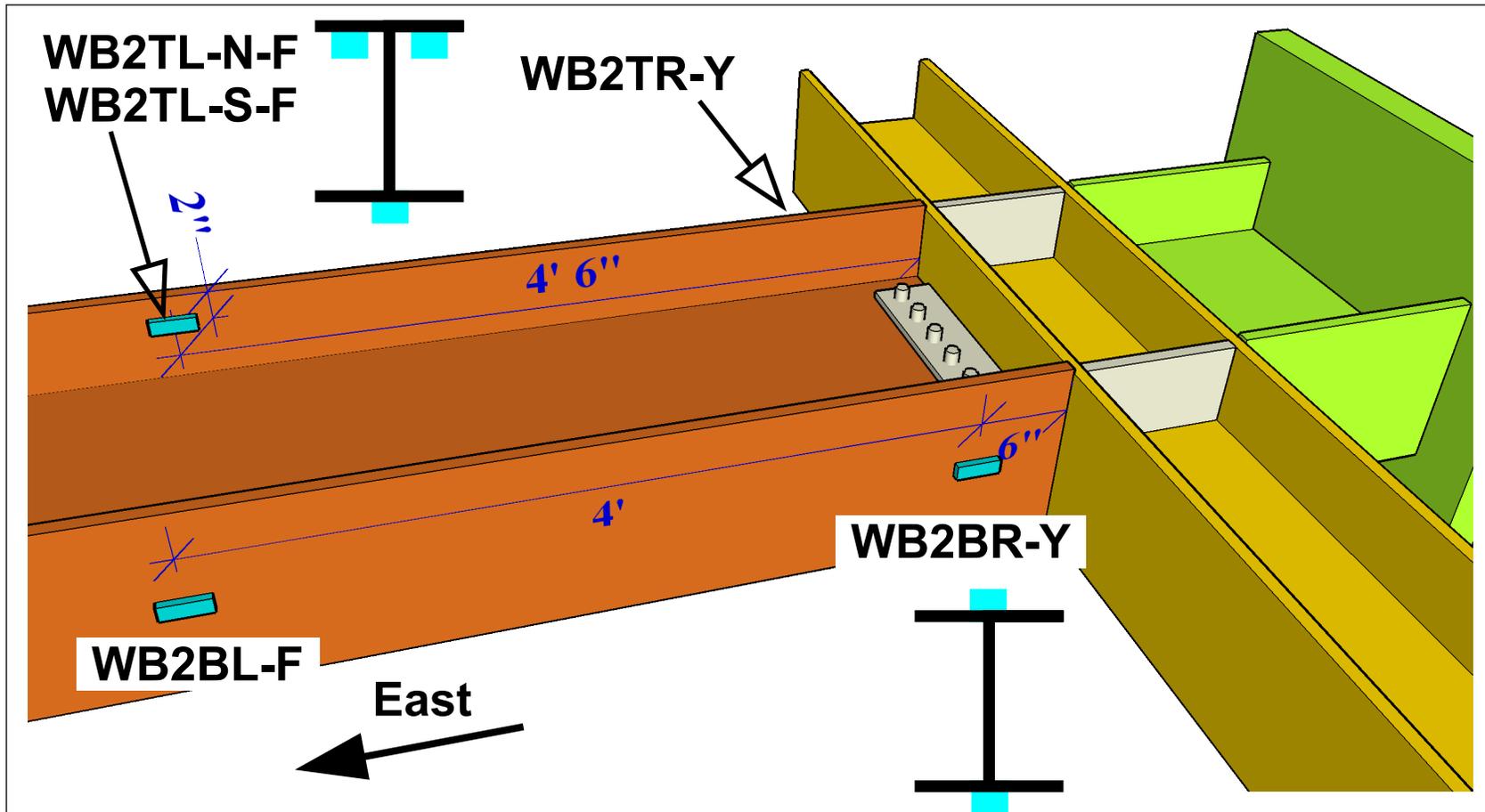
**TL = top left side; BL = bottom left side**

**TR = top right side; BR = bottom right side**

**N = north side; S = south side**

**F = FLA strain gauge; Y = YFLA strain gauge**

**(total ten strain gauge locations for the lower beam, label keys are shown above; east side similar and symmetric)**



**WB2TR-Y ...**

**WB2 = west roof beam; EB1 = east roof beam**

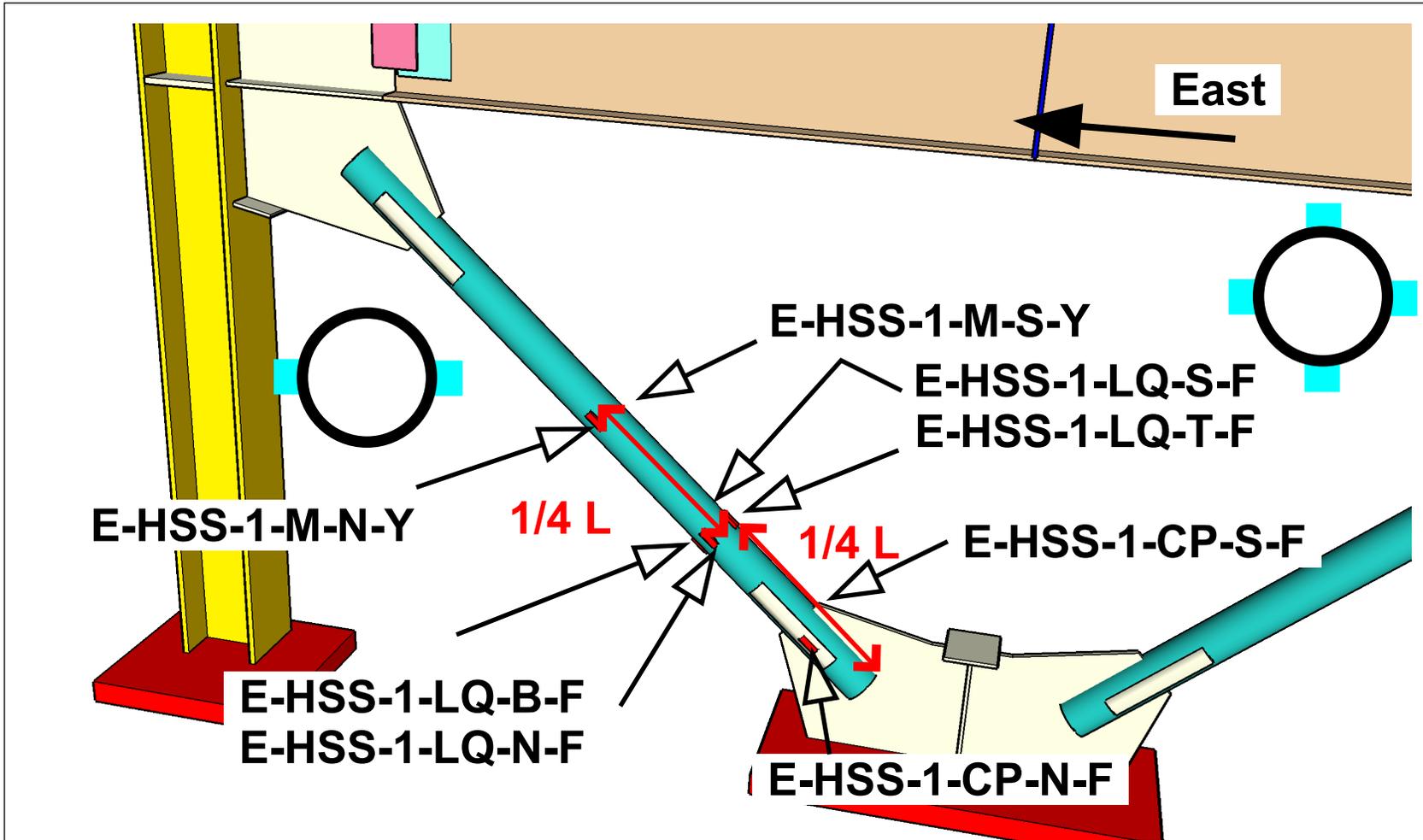
**TL = top left side; BL = bottom left side**

**TR = top right side; BR = bottom right side**

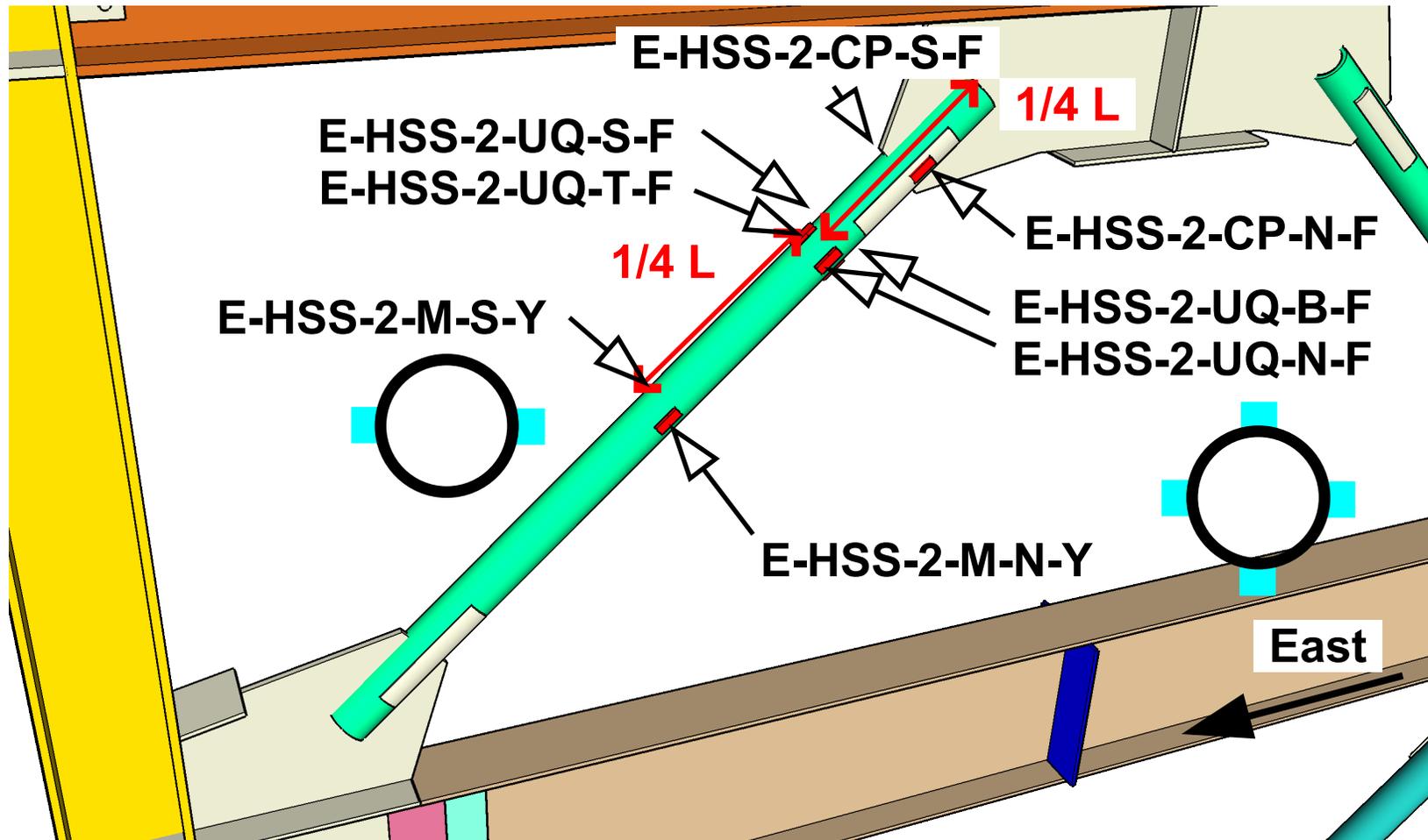
**N = north side; S = south side**

**F = FLA strain gauge; Y = YFLA strain gauge**

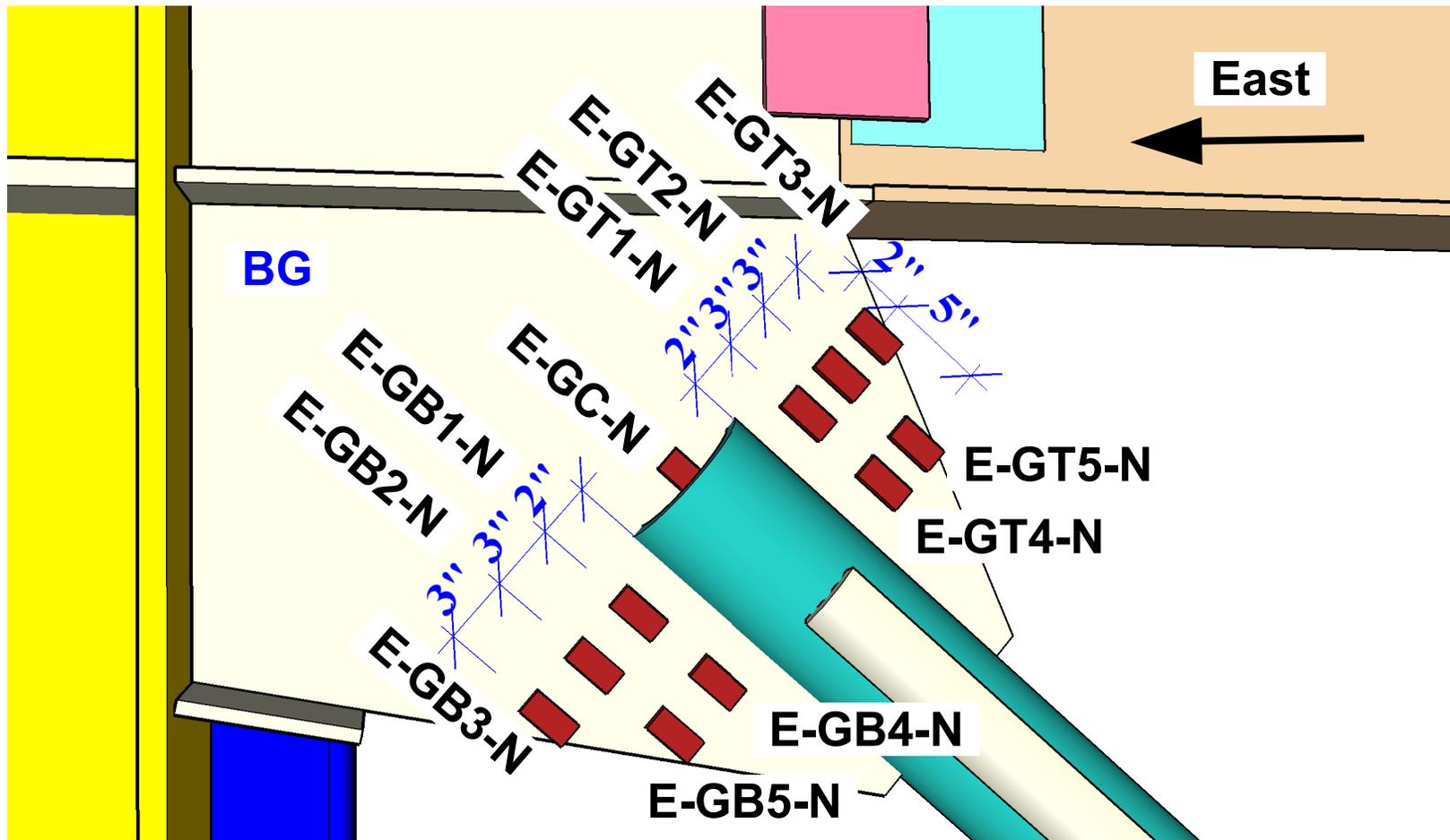
**(total ten strain gauge locations for the roof beam, key labels are shown above; east side similar and symmetric)**



**E-HSS = east HSS brace; W-HSS = west HSS brace; 1 = 1F**  
**LQ = lower quarter point; M = middle**  
**T = top side; B = bottom side; CP = cover plate**  
**N = north side; S = south side**  
**F = FLA strain gauge; Y = YFLA strain gauge**  
**(total eight strain gauge locations for each brace, label keys are shown above; west side similar and symmetric)**



**E-HSS = east HSS brace; W-HSS = west HSS brace; 2 = 2F**  
**UQ = upper quarter point; M = middle**  
**T = top side; B = bottom side; CP = cover plate**  
**N = north side; S = south side**  
**F = FLA strain gauge; Y = YFLA strain gauge**  
**(total eight strain gauge locations for each brace, label keys are shown above; west side similar and symmetric)**



E = east gusset plate; N = glued at north side  
GT = top region; GB = bottom region; GC = centerline region

(eleven strain gauge locations for the bottom one-piece  
gusset plate, label keys are shown above)

Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
1	S1	EC1BL-F	strain gauge	-	-	13	0:3:0	1/4 bridge	14
2	S2	EC1BR-F	strain gauge	-	-	14	0:3:1	1/4 bridge	15
3	S3	EC1TL-F	strain gauge	-	-	15	0:3:2	1/4 bridge	16
4	S4	EC1TR-F	strain gauge	-	-	16	0:3:3	1/4 bridge	17
5	S5	E-GT1-N	strain gauge	-	-	5	0:1:0	1/4 bridge	6
6	S6	E-GT2-N	strain gauge	-	-	6	0:1:1	1/4 bridge	7
7	S7	E-HSS-1-M-N-Y	strain gauge	-	-	7	0:1:2	1/4 bridge	8
8	S8	E-HSS-1-M-S-Y	strain gauge	-	-	8	0:1:3	1/4 bridge	9
9	S9	E-HSS-1-LQ-T-F	strain gauge	-	-	9	0:2:0	1/4 bridge	10
10	S10	E-HSS-1-LQ-S-F	strain gauge	-	-	10	0:2:1	1/4 bridge	11
11	S11	E-HSS-1-LQ-N-F	strain gauge	-	-	11	0:2:2	1/4 bridge	12
12	S12	E-HSS-1-LQ-B-F	strain gauge	-	-	12	0:2:3	1/4 bridge	13
13	S13	E-HSS-1-CP-N-F	strain gauge	-	-	3	0:0:2	1/4 bridge	4
14	S14	E-HSS-1-CP-S-F	strain gauge	-	-	4	0:0:3	1/4 bridge	5
15	S15	EB1BL-Y	strain gauge	-	-	45	0:11:0	1/4 bridge	46
16	S16	EB1TL-Y	strain gauge	-	-	44	0:10:3	1/4 bridge	45
17	S17	EB1BR-F	strain gauge	-	-	204/70	1:1:1	1/4 bridge	71
18	S18	EB1TR-N-F	strain gauge	-	-	46	0:11:1	full-bridge	47
19	S19	EB1TR-S-F	strain gauge	-	-	46	0:11:1	full-bridge	47
20	S20	WB1BL-F	strain gauge	-	-	342/68	1:0:3	1/4 bridge	69
21	S21	WB1TL-N-F	strain gauge	-	-	322/69	1:1:0	full-bridge	70
22	S22	WB1TL-S-F	strain gauge	-	-	322/69	1:1:0	full-bridge	70
23	S23	WB1BR-Y	strain gauge	-	-	338/84	1:4:3	1/4 bridge	85
24	S24	WB1TR-Y	strain gauge	-	-	325/57	0:14:0	1/4 bridge	58
25	S25	W-HSS-1-CP-N-F	strain gauge	-	-	1	0:0:0	1/4 bridge	2
26	S26	W-HSS-1-CP-S-F	strain gauge	-	-	2	0:0:1	1/4 bridge	3
27	S27	W-HSS-1-LQ-T-F	strain gauge	-	-	25	0:6:0	1/4 bridge	26
28	S28	W-HSS-1-LQ-S-F	strain gauge	-	-	26	0:6:1	1/4 bridge	27
29	S29	W-HSS-1-LQ-N-F	strain gauge	-	-	27	0:6:2	1/4 bridge	28
30	S30	W-HSS-1-LQ-B-F	strain gauge	-	-	28	0:6:3	1/4 bridge	29
31	S31	W-HSS-1-M-N-Y	strain gauge	-	-	29	0:7:0	1/4 bridge	30
32	S32	W-HSS-1-M-S-Y	strain gauge	-	-	30	0:7:1	1/4 bridge	31
33	S33	E-GT3-N	strain gauge	-	-	31	0:7:2	1/4 bridge	32
34	S34	E-GT4-N	strain gauge	-	-	32	0:7:3	1/4 bridge	33

Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
35	S35	WC1TL-F	strain gauge	-	-	95	1:7:2	1/4 bridge	96
36	S36	WC1TR-F	strain gauge	-	-	93	1:7:0	1/4 bridge	94
37	S37	WC1BL-F	strain gauge	-	-	94	1:7:1	1/4 bridge	95
38	S38	WC1BR-F	strain gauge	-	-	92	1:6:3	1/4 bridge	93
39	S39	EC2BL-F	strain gauge	-	-	39	0:9:2	1/4 bridge	40
40	S40	EC2BR-F	strain gauge	-	-	40	0:9:3	1/4 bridge	41
41	S41	EC2TL-F	strain gauge	-	-	41	0:10:0	1/4 bridge	42
42	S42	EC2TR-F	strain gauge	-	-	42	0:10:1	1/4 bridge	43
43	S43	EB2BL-Y	strain gauge	-	-	43	0:10:2	1/4 bridge	44
44	S44	EB2TL-Y	strain gauge	-	-	200/148	2:4:3	1/4 bridge	149
45	S45	EB2BR-F	strain gauge	-	-	197/145	2:4:0	1/4 bridge	146
46	S46	EB2TR-N-F	strain gauge	-	-	199/147	2:4:2	full-bridge	148
47	S47	EB2TR-S-F	strain gauge	-	-	199/147	2:4:2	full-bridge	148
48	S48	E-GT5-N	strain gauge	-	-	48	0:11:3	1/4 bridge	49
49	S49	E-GB1-N	strain gauge	-	-	49	0:12:0	1/4 bridge	50
50	S50	E-HSS-2-M-N-Y	strain gauge	-	-	50	0:12:1	1/4 bridge	51
51	S51	E-HSS-2-M-S-Y	strain gauge	-	-	51	0:12:2	1/4 bridge	52
52	S52	E-HSS-2-UQ-T-F	strain gauge	-	-	52	0:12:3	1/4 bridge	53
53	S53	E-HSS-2-UQ-S-F	strain gauge	-	-	53	0:13:0	1/4 bridge	54
54	S54	E-HSS-2-UQ-N-F	strain gauge	-	-	54	0:13:1	1/4 bridge	55
55	S55	E-HSS-2-UQ-B-F	strain gauge	-	-	55	0:13:2	1/4 bridge	56
56	S56	E-HSS-2-CP-N-F	strain gauge	-	-	56	0:13:3	1/4 bridge	57
57	S57	E-HSS-2-CP-S-F	strain gauge	-	-	47	0:11:2	1/4 bridge	48
58	S58	W-HSS-2-CP-N-F	strain gauge	-	-	324/58	0:14:1	1/4 bridge	59
59	S59	W-HSS-2-CP-S-F	strain gauge	-	-	326/59	0:14:2	1/4 bridge	60
60	S60	W-HSS-2-UQ-T-F	strain gauge	-	-	333/60	0:14:3	1/4 bridge	61
61	S61	W-HSS-2-UQ-S-F	strain gauge	-	-	327/61	0:15:0	1/4 bridge	62
62	S62	W-HSS-2-UQ-N-F	strain gauge	-	-	320/62	0:15:1	1/4 bridge	63
63	S63	W-HSS-2-UQ-B-F	strain gauge	-	-	321/63	0:15:2	1/4 bridge	64
64	S64	W-HSS-2-M-N-Y	strain gauge	-	-	322/64	0:15:3	1/4 bridge	65
65	S65	W-HSS-2-M-S-Y	strain gauge	-	-	203/65	1:0:0	1/4 bridge	66
66	S66	E-GB2-N	strain gauge	-	-	315/66	1:0:1	1/4 bridge	67
67	S67	E-GB3-N	strain gauge	-	-	343/67	1:0:2	1/4 bridge	68
68	S68	WB2BL-F	strain gauge	-	-	346/137	2:2:0	1/4 bridge	138

Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
69	S69	WB2TL-N-F	strain gauge	-	-	328/138	2:2:1	full-bridge	139
70	S70	WB2TL-S-F	strain gauge	-	-	328/138	2:2:1	full-bridge	139
71	S71	WB2BR-Y	strain gauge	-	-	201/71	1:1:2	1/4 bridge	72
72	S72	WB2TR-Y	strain gauge	-	-	345/140	2:2:3	1/4 bridge	141
73	S73	WC2TL-F	strain gauge	-	-	316/73	1:2:0	1/4 bridge	74
74	S74	WC2TR-F	strain gauge	-	-	349/74	1:2:1	1/4 bridge	75
75	S75	WC2BL-F	strain gauge	-	-	351/75	1:2:2	1/4 bridge	76
76	S76	WC2BR-F	strain gauge	-	-	318/76	1:2:3	1/4 bridge	77
77	R1-1	EC1-B-N-1-YR	rosette	-	-	17	0:4:0	1/4 bridge	18
78	R1-2	EC1-B-N-2-YR	rosette	-	-	18	0:4:1	1/4 bridge	19
79	R1-3	EC1-B-N-3-YR	rosette	-	-	19	0:4:2	1/4 bridge	20
80	R2-1	EC1-PZ-N-1-YR	rosette	-	-	33	0:8:0	1/4 bridge	34
81	R2-2	EC1-PZ-N-2-YR	rosette	-	-	34	0:8:1	1/4 bridge	35
82	R2-3	EC1-PZ-N-3-YR	rosette	-	-	35	0:8:2	1/4 bridge	36
83	R3-1	EC2-B-N-1-YR	rosette	-	-	36	0:8:3	1/4 bridge	37
84	R3-2	EC2-B-N-2-YR	rosette	-	-	37	0:9:0	1/4 bridge	38
85	R3-3	EC2-B-N-3-YR	rosette	-	-	38	0:9:1	1/4 bridge	39
86	R4-1	EC2-PZ-N-1-YR	rosette	-	-	196/149	2:5:0	1/4 bridge	150
87	R4-2	EC2-PZ-N-2-YR	rosette	-	-	198/150	2:5:1	1/4 bridge	151
88	R4-3	EC2-PZ-N-3-YR	rosette	-	-	195/151	2:5:2	1/4 bridge	152
89	R5-1	WC1-B-N-1-YR	rosette	-	-	89	1:6:0	1/4 bridge	90
90	R5-2	WC1-B-N-2-YR	rosette	-	-	90	1:6:1	1/4 bridge	91
91	R5-3	WC1-B-N-3-YR	rosette	-	-	91	1:6:2	1/4 bridge	92
92	R6-1	WC1-PZ-N-1-YR	rosette	-	-	317/77	1:3:0	1/4 bridge	78
93	R6-2	WC1-PZ-N-2-YR	rosette	-	-	350/78	1:3:1	1/4 bridge	79
94	R6-3	WC1-PZ-N-3-YR	rosette	-	-	302/79	1:3:2	1/4 bridge	80
95	R7-1	WC2-B-N-1-YR	rosette	-	-	301/80	1:3:3	1/4 bridge	81
96	R7-2	WC2-B-N-2-YR	rosette	-	-	323/81	1:4:0	1/4 bridge	82
97	R7-3	WC2-B-N-3-YR	rosette	-	-	336/82	1:4:1	1/4 bridge	83
98	R8-1	WC2-PZ-N-1-YR	rosette	-	-	352/141	2:3:0	1/4 bridge	142
99	R8-2	WC2-PZ-N-2-YR	rosette	-	-	319/142	2:3:1	1/4 bridge	143
100	R8-3	WC2-PZ-N-3-YR	rosette	-	-	329/143	2:3:2	1/4 bridge	144
101	R9-1	1F-E-BG-TL-1-N-YR	rosette	-	-	101	1:9:0	1/4 bridge	102
102	R9-2	1F-E-BG-TL-2-N-YR	rosette	-	-	102	1:9:1	1/4 bridge	103

Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
103	R9-3	1F-E-BG-TL-3-N-YR	rosette	-	-	103	1:9:2	1/4 bridge	104
104	R10-1	1F-E-BG-BL-1-N-YR	rosette	-	-	104	1:9:3	1/4 bridge	105
105	R10-2	1F-E-BG-BL-2-N-YR	rosette	-	-	105	1:10:0	1/4 bridge	106
106	R10-3	1F-E-BG-BL-3-N-YR	rosette	-	-	106	1:10:1	1/4 bridge	107
107	R11-1	1F-E-BG-TR-1-N-YR	rosette	-	-	107	1:10:2	1/4 bridge	108
108	R11-2	1F-E-BG-TR-2-N-YR	rosette	-	-	108	1:10:3	1/4 bridge	109
109	R11-3	1F-E-BG-TR-3-N-YR	rosette	-	-	109	1:11:0	1/4 bridge	110
110	R12-1	1F-E-BG-TC-1-N-YR	rosette	-	-	110	1:11:1	1/4 bridge	111
111	R12-2	1F-E-BG-TC-2-N-YR	rosette	-	-	111	1:11:2	1/4 bridge	112
112	R12-3	1F-E-BG-TC-3-N-YR	rosette	-	-	112	1:11:3	1/4 bridge	113
113	R13-1	1F-E-MG-TL-1-N-YR	rosette	-	-	113	1:12:0	1/4 bridge	114
114	R13-2	1F-E-MG-TL-2-N-YR	rosette	-	-	114	1:12:1	1/4 bridge	115
115	R13-3	1F-E-MG-TL-3-N-YR	rosette	-	-	115	1:12:2	1/4 bridge	116
116	R14-1	1F-E-MG-BL-1-N-YR	rosette	-	-	116	1:12:3	1/4 bridge	117
117	R14-2	1F-E-MG-BL-2-N-YR	rosette	-	-	117	1:13:0	1/4 bridge	118
118	R14-3	1F-E-MG-BL-3-N-YR	rosette	-	-	118	1:13:1	1/4 bridge	119
119	R15-1	1F-E-MG-TR-1-N-YR	rosette	-	-	119	1:13:2	1/4 bridge	120
120	R15-2	1F-E-MG-TR-2-N-YR	rosette	-	-	120	1:13:3	1/4 bridge	121
121	R15-3	1F-E-MG-TR-3-N-YR	rosette	-	-	121	1:14:0	1/4 bridge	122
122	R16-1	1F-E-MG-BR-1-N-YR	rosette	-	-	122	1:14:1	1/4 bridge	123
123	R16-2	1F-E-MG-BR-2-N-YR	rosette	-	-	123	1:14:2	1/4 bridge	124
124	R16-3	1F-E-MG-BR-3-N-YR	rosette	-	-	124	1:14:3	1/4 bridge	125
125	R17-1	1F-E-TG-TL-1-N-YR	rosette	-	-	125	1:15:0	1/4 bridge	126
126	R17-2	1F-E-TG-TL-2-N-YR	rosette	-	-	126	1:15:1	1/4 bridge	127
127	R17-3	1F-E-TG-TL-3-N-YR	rosette	-	-	127	1:15:2	1/4 bridge	128
128	R18-1	1F-E-TG-BL-1-N-YR	rosette	-	-	128	1:15:3	1/4 bridge	129
129	R18-2	1F-E-TG-BL-2-N-YR	rosette	-	-	129	2:0:0	1/4 bridge	130
130	R18-3	1F-E-TG-BL-3-N-YR	rosette	-	-	130	2:0:1	1/4 bridge	131
131	R19-1	1F-E-TG-BC-1-N-YR	rosette	-	-	131	2:0:2	1/4 bridge	132
132	R19-2	1F-E-TG-BC-2-N-YR	rosette	-	-	303	2:0:3	1/4 bridge	133
133	R19-3	1F-E-TG-BC-3-N-YR	rosette	-	-	133	2:1:0	1/4 bridge	134
134	R20-1	1F-E-TG-BR-1-N-YR	rosette	-	-	134	2:1:1	1/4 bridge	135
135	R20-2	1F-E-TG-BR-2-N-YR	rosette	-	-	135	2:1:2	1/4 bridge	136
136	R20-3	1F-E-TG-BR-3-N-YR	rosette	-	-	136	2:1:3	1/4 bridge	137

Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
137	WP07	1F-E-HSS-UQ-R-OD	wire pot	30"	2000NC51151	159	2:7:2	-	160
138	WP04	1F-E-HSS-M-R-OD	wire pot	40"	2005NC51006	156	2:6:3	-	157
139	WP02	1F-E-HSS-LQ-R-OD	wire pot	30"	2006NC51015	154	2:6:1	-	155
140	WP03	1F-E-HSS-UQ-L-OD	wire pot	30"	2006NC51012	155	2:6:2	-	156
141	WP05	1F-E-HSS-M-L-OD	wire pot	40"	2005NC01003	157	2:7:0	-	158
142	WP01	1F-E-HSS-LQ-L-OD	wire pot	30"	2006NC51014	153	2:6:0	-	154
143	WP06	1F-W-HSS-LQ-R-OD	wire pot	30"	2000NC51124	158	2:7:1	-	159
144	WP12	1F-W-HSS-M-R-OD	wire pot	40"	2005NC01008	164	2:8:3	-	165
145	WP09	1F-W-HSS-UQ-R-OD	wire pot	30"	2000NC51106	161	2:8:0	-	162
146	WP08	1F-W-HSS-LQ-L-OD	wire pot	30"	2006NC51016	160	2:7:3	-	161
147	WP11	1F-W-HSS-M-L-OD	wire pot	40"	2005NC01006	163	2:8:2	-	164
148	WP10	1F-W-HSS-UQ-L-OD	wire pot	30"	2000NC51116	162	2:8:1	-	163
149	WP14	2F-E-HSS-LQ-R-OD	wire pot	30"	2006NC51013	166/305	2:9:1	-	167
150	WP17	2F-E-HSS-M-R-OD	wire pot	40"	2005NC51002	169/308	2:10:0	-	170
151	WP13	2F-E-HSS-UQ-R-OD	wire pot	40"	2009NC01052	342	2:9:0	-	166
152	WP16	2F-E-HSS-LQ-L-OD	wire pot	30"	2000NC51125	168/307	2:9:3	-	169
153	WP18	2F-E-HSS-M-L-OD	wire pot	40"	2005NC51007	170/309	2:10:1	-	171
154	WP15	2F-E-HSS-UQ-L-OD	wire pot	30"	2000NC51105	167/306	2:9:2	-	168
155	WP22	2F-W-HSS-UQ-R-OD	wire pot	40"	2005NC01010	174/313	2:11:1	-	175
156	WP20	2F-W-HSS-M-R-OD	wire pot	40"	2005NC01009	172/311	2:10:3	-	173
157	WP24	2F-W-HSS-LQ-R-OD	wire pot	30"	2000NC51153	176/315	2:11:3	-	177
158	WP21	2F-W-HSS-UQ-L-OD	wire pot	40"	2005NC51010	173/312	2:11:0	-	174
159	WP19	2F-W-HSS-M-L-OD	wire pot	40"	2009NC01046	394	2:10:2	-	172
160	WP23	2F-W-HSS-LQ-L-OD	wire pot	30"	2000NC51111	175/314	2:11:2	-	176
161	WP25	1F-E-HSS-A	wire pot	40"	2005NC51009	177	2:12:0	-	178
162	WP26	1F-W-HSS-A	wire pot	40"	2005NC01004	178	2:12:1	-	179
163	WP27	2F-E-HSS-A	wire pot	40"	2005NC01001	300	2:14:0	-	186
164	WP28	2F-W-HSS-A	wire pot	40"	2000NC51131	301	2:14:1	-	187
165	S201	E-GB5-N	strain gauge	-	-	97	2:13:0	1/4 bridge	182
166	S202	E-GB4-N	strain gauge	-	-	98	2:13:1	1/4 bridge	183
167	S203	E-GC-N	strain gauge	-	-	100	2:13:3	1/4 bridge	185
168	ST20	WB1-RT	stick	4"	2004NC01031	307	2:13:2	Novo100	184
169	ST22	EB1-RT	stick	4"	2006NC01024	183	1:8:0	Novo100	98
170	ST21	EB1-RB	stick	4"	2007NC51005	184	1:8:1	Novo100	99

Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
171	ST17	RRW-T-N	stick	4"	2009NC01008	318/398	1:8:2	Novo100	100
172	ST18	RRW-T-S	stick	4"	2009NC01007	319/393	1:8:3	Novo100	101
173	WP30	1F-C-G-TS-OD	wire pot	40"	2005NC01005	21	0:5:0	-	22
174	WP47	1F-W-TG-C-OD	wire pot	30"	2000NC51150	313	1:5:3	-	89
175	WP33	1F-E-BG-C-OD	wire pot	40"	2005NC51001	24	0:5:3	-	25
176	WP29	1F-W-BG-C-OD	wire pot	40"	2005NC51005	20	0:4:3	-	21
177	WP43	1F-E-BG-B-OD	wire pot	30"	2000NC51098	320	1:4:2	-	84
178	WP31	1F-C-B-BF-OD	wire pot	30"	2000NC51128	22	0:5:1	-	23
179	WP32	1F-C-B-CS-OD	wire pot	40"	2005NC51003	23	0:5:2	-	24
180	WP42	1F-W-BG-B-OD	wire pot	30"	2000NC51117	314	1:1:3	-	73
181	WP46	1F-E-TG-C-OD	wire pot	30"	2000NC51152	312	1:5:2	-	88
182	WP44	2F-C-B-BF-OD	wire pot	30"	2000NC51126	310	1:5:0	-	86
183	WP45	2F-C-G-BS-OD	wire pot	30"	2000NC51129	311	1:5:1	-	87
184	A5	Act2disp	position transducer	40"	2007NC01001	182/363	2:12:3	ST01	181
185	ST2	C-GB-Slip	stick	1"	2004NC01015	181/358	2:12:2	-	180
186	ST3	W-CB-Slip	stick	1"	2004NC01012	96/357	1:7:3	-	97
187	ST4	E-LC1-OD	stick	6"	2007NC01009	179	2:15:2	-	192
188	ST5	E-LC2-OD	stick	6"	2007NC01010	302	2:14:2	-	188
189	ST6	C-LC1-OD	stick	6"	2007NC01011	180	2:15:3	-	193
190	ST7	C-LC2-OD	stick	6"	2007NC51006	303	2:14:3	-	189
191	ST8	W-LC1-OD	stick	6"	2007NC51007	304	2:15:0	-	190
192	ST9	W-LC2-OD	stick	6"	2007NC51010	305	2:15:1	-	191
193	ST10	C-B1-VD	stick	4"	2007NC01006	144	2:3:3	-	145
194	ST11	C-B2-VD	stick	4"	2007NC01003	210	2:5:3	Novo100_02-210	153
195	ST19	WB1-RB	stick	4"	2009NC01004	316	2:2:2	Novo100	140
196	PT1	EC1-PZ-E-PT	position transducer	20"	2004NC01053	323	2:4:1	Novo500	147
197	PT2	EC2-PZ-E-PT	position transducer	40"	-	CS2-disp	3:0:4	Displacement Control	198
198	A1	Act1disp	position transducer	40"	2006NC01002	CS1-disp	3:0:0	-	194
199	A2	Act1force	load cell	-	-	CS1-load	3:0:1	From LC1	195
200	A3	Act1dispCmd	-	-	-	-	3:0:2	From STS (CMD)	196
201	A4	Act1dispAct3	position transducer	40"	2006NC01003	CS3-disp	3:0:3	-	197
202	PT2	EC2-PZ-E-PT	position transducer	40"	-	CS2-disp	3:0:4	Act2disp (A5)	198
203	A6	Act2force	load cell	-	-	CS2-load	3:0:5	From LC2	199
204	A7	Act2dispCmd	-	-	-	-	3:0:6	From STS (CMD)	200

Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
205	A8	Act2dispAct4	position transducer	40"	2004NC01061	CS4-disp	3:0:7	-	201
206	ST12	FB-Slip	stick	2"	2004NC01023	308	3:1:0	D-Space (Novo50_DS1)	202
207	ST13	RRW-Slip-N	stick	2"	2004NC01019	309	3:1:1	D-Space (Novo50_DS2)	203
208	ST14	RRW-Slip-S	stick	2"	2004NC01028	306	3:1:2	D-Space (Novo50_DS3)	204
209	ST15	Act1-BK	stick	2"	2004NC01025	361	3:1:3	D-Space (Novo50_DS4)	205
210	ST16	Act2-BK	stick	2"	2004NC01020	355	3:1:4	D-Space (Novo50_DS5)	206
211	TG1	TriggerCanon	-	-	-	207	3:1:5	D-Space	207
212	TG2	TriggerLeica	-	-	-	208	3:1:6	D-Space	208
213	ST1	E-CB-Slip	stick	1"	2004NC01014	379	3:1:7	D-Space	209