

304889

382897

304828

304825

VARIES

10

100

VARIES

VARIES

ONEHAND SCREW MIA-OH90

MI HEX NUT M12-F-SL-WS 3/4"

CONNECTOR MIC-CU-MA CONCRETE

CONNECTOR MIC-C90-AA CONCRETE

EA USE KB3 OR KB-TZ AS APPROPRIATE

EΑ

EΑ

EA

EΑ

10

11

12

13



All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the FOR

TYPICAL DETAIL TYPE:

ELECTRICAL & INSTRUMENTATION APPLICATION

TYPICAL DETAIL DESCRIPTION:

BRACED PANEL STAND

DESIGNED BY:	REVIEWED BY:
KL	AJV
DRAWN BY:	ISSUE DATE:
GAB	05 DEC 14

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TYPICAL DETAIL NOMENCLATURE:

REFER TO COMPONENT MANUFACTURER'S IFUS FOR REQUIRED

E.O.R. MUST BE NOTIFIED OF ANY DEVIATIONS FROM EXISTING/

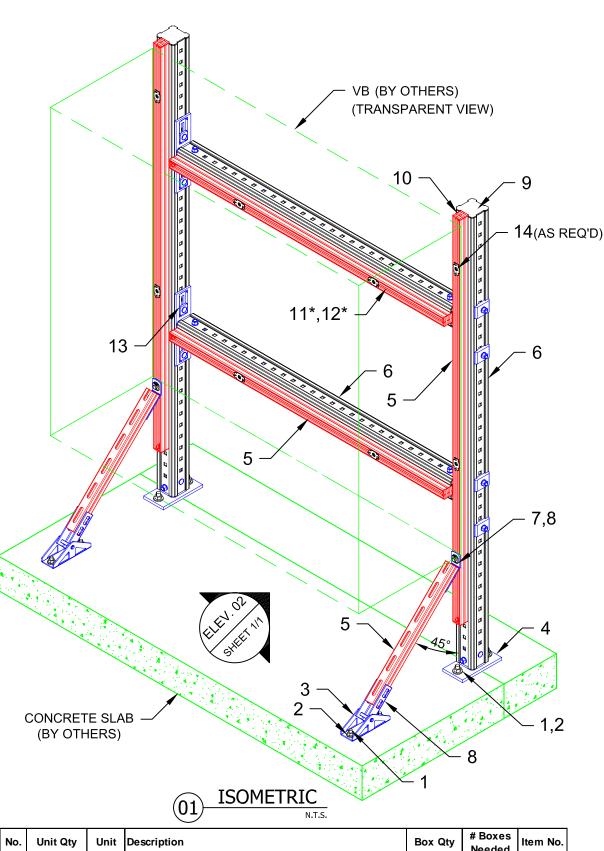
NEW SUBSTRATE CONDITIONS SHOWN HEREIN TO VALIDATE

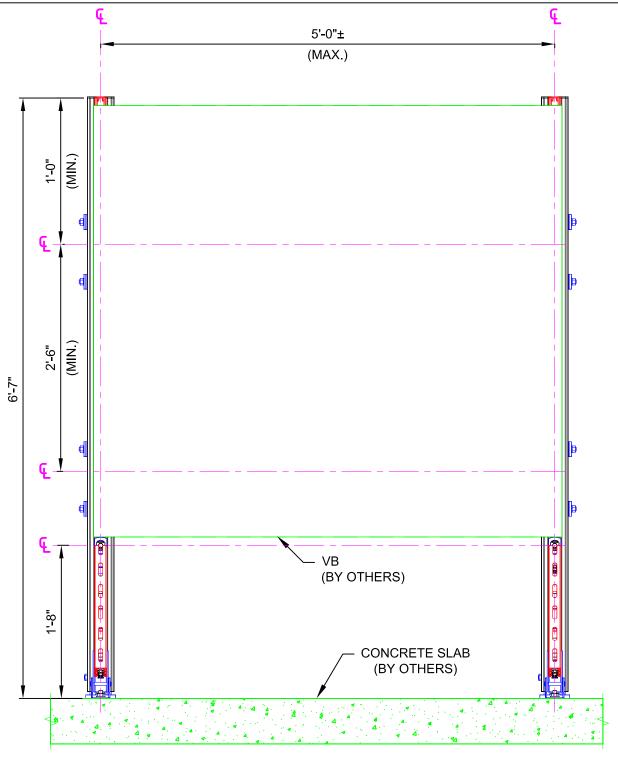
ACCEPTANCE OF THIS HILTI DESIGN PRIOR TO INSTALLATION.

INSTALLATION INFO.

EI-BPS01-C

DRAWING NUMBER:	SHEET:
01	1/1







- 1. PRELIMINARY NOT FOR CONSTRUCTION
- 2. DESIGN ASSUMPTIONS:
 - a. DESIGN LOADS (STATIC, U.N.O.): DL: HC-MVB BOX = 800 lbs. EL: 256 lbs.
 - b. BUILDING CODE: IBC 2012
 - c. CORROSION RESISTANCE REQD.: EG/HDG
- REFER TO COMPONENT MANUFACTURER'S IFUs FOR REQUIRED INSTALLATION INFO.
- 3. E.O.R. MUST BE NOTIFIED OF ANY DEVIATIONS FROM EXISTING/ NEW SUBSTRATE CONDITIONS SHOWN HEREIN TO VALIDATE ACCEPTANCE OF THIS HILTI DESIGN PRIOR TO INSTALLATION.
- 4. * ATTACH MQ TO MI USING #11 AND #12. USE (2) FOR HORIZONTAL ATTACHMENT (PLUS BOLT INCLUDED WITH MIC-90-L AT EACH END), AND (4) FOR VERTICAL ATTACHMENT.



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TYPICAL DETAIL TYPE:

ELECTRICAL & INSTRUMENTATION APPLICATION

TYPICAL DETAIL DESCRIPTION:

BRACED CABINET STAND

DESIGNED BY:	REVIEWED BY:
KL	AJV
DRAWN BY:	ISSUE DATE:
GAB	05 DEC 14

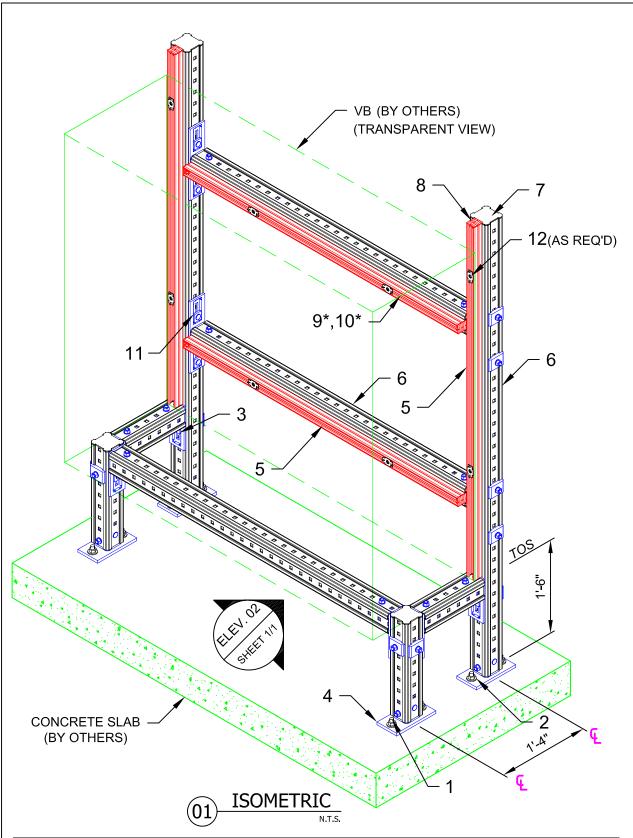
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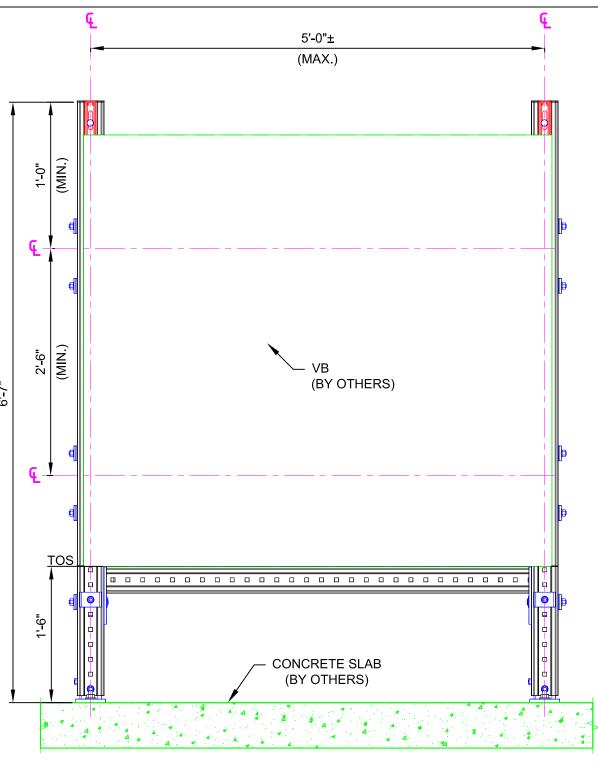
EI-BPS02-C

DRAWING NUMBER:	SHEET:
01	1/1

No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	8	EA	USE 3/8" KHEZ AS APPROPRIATE	VARIES	VARIES	VARIES
2	8	EA	WASHER 1/2"	100	1	411758
3	2	EA	RAIL SUPPORT MQP-G	10	1	369654
4	2	EA	CONNECTOR MIC-C90-AA CONCRETE	2	1	304825
5	AS REQ'D	EA	STRUT HS-158-12/PG 10'	1	AS REQ'D	407555
6	AS REQ'D	EA	GIRDER MI-90 3M	1	AS REQ'D	304798
7	2	EA	3-HOLE ANGLE MQW-3/45	20	1	369657
8	12	EA	CHANNEL CONNECTOR MQN	50	1	369623
9	2	EA	GIRDER END CAP MIA-EC90	25	1	432077
10	8	EA	CHANNEL END CAP MEK RED	50	1	244886
11	12	EA	ONEHAND SCREW MIA-OH90	10	2	304889
12	12	EA	MI HEX NUT M12-F-SL-WS 3/4"	100	1	382897
13	4	EA	CONNECTOR MIC-90-L	2	2	304805
14	8	EA	WING NUT MQM-F1/2"	50	1	377883









- 1. PRELIMINARY NOT FOR CONSTRUCTION
- 2. DESIGN ASSUMPTIONS:
 - a. DESIGN LOADS (STATIC, U.N.O.): DL: HC-MVB BOX = 800 lbs.
 - EL: 256 lbs.
 - b. BUILDING CODE: IBC 2012
 - c. CORROSION RESISTANCE REQD.: EG/HDG
- 2. REFER TO COMPONENT MANUFACTURER'S IFUS FOR REQUIRED INSTALLATION INFO.
- 3. E.O.R. MUST BE NOTIFIED OF ANY DEVIATIONS FROM EXISTING/ NEW SUBSTRATE CONDITIONS SHOWN HEREIN TO VALIDATE ACCEPTANCE OF THIS HILTI DESIGN PRIOR TO INSTALLATION.
- 4. * ATTACH MQ TO MI USING #9 AND #10. USE (2) FOR HORIZONTAL ATTACHMENT (PLUS BOLT INCLUDED WITH MIC-90-L AT EACH END), AND (4) FOR VERTICAL ATTACHMENT.



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TYPICAL DETAIL TYPE:

ELECTRICAL & INSTRUMENTATION APPLICATION

TYPICAL DETAIL DESCRIPTION:

BRACED CABINET STAND

DESIGNED BY:	REVIEWED BY:
KL	AJV
DRAWN BY:	ISSUE DATE:
GAB	05 DEC 14
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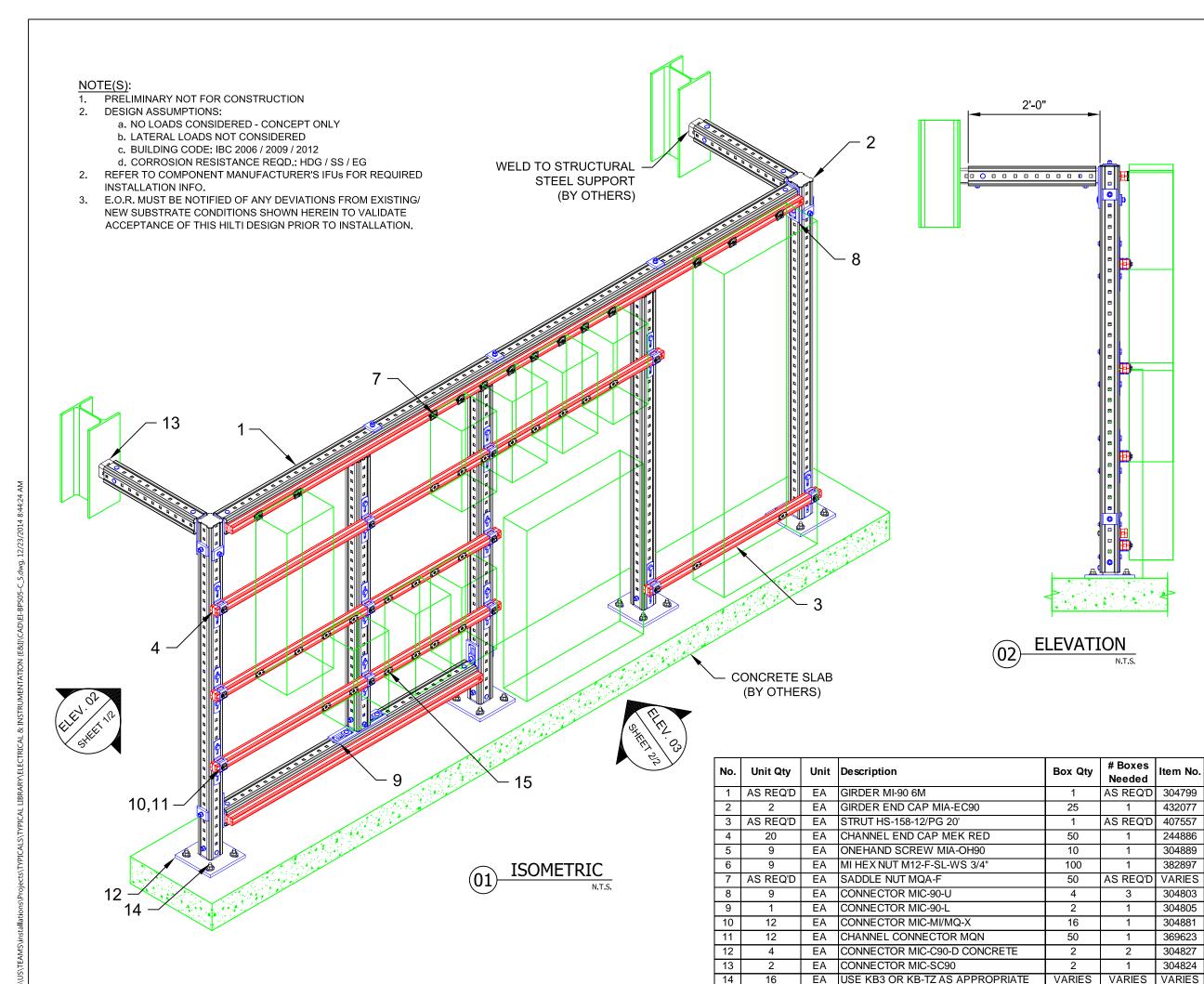
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TYPICAL DETAIL NOMENCLATURE:

EI-BPS03-C

DRAWING NUMBER:	SHEET:
01	1/1

No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	8	EA	USE 3/8" KHEZ AS APPROPRIATE	VARIES	VARIES	VARIES
2	8	EA	WASHER 1/2"	100	1	411758
3	6	EA	CONNECTOR MIC-90-U	4	2	304803
4	4	EA	CONNECTOR MIC-C90-AA CONCRETE	2	2	304825
5	AS REQ'D	EA	STRUT HS-158-12/PG 10'	1	AS REQ'D	407555
6	AS REQ'D	EA	GIRDER MI-90 3M	1	AS REQ'D	304798
7	2	EA	GIRDER END CAP MIA-EC90	25	1	432077
8	4	EA	CHANNEL END CAP MEK RED	50	1	244886
9	12	EA	ONEHAND SCREW MIA-OH90	10	2	304889
10	12	EA	MI HEX NUT M12-F-SL-WS 3/4"	100	1	382897
11	4	EA	CONNECTOR MIC-90-L	2	2	304805
12	8	EA	WING NUT MQM-F1/2"	50	1	377883



15 AS REQ'D

EA WING NUT MQM-F

50

VARIES VARIES



All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

TYPICAL DETAIL TYPE:

ELECTRICAL & INSTRUMENTATION APPLICATION

TYPICAL DETAIL DESCRIPTION:

BRACED PANEL STAND

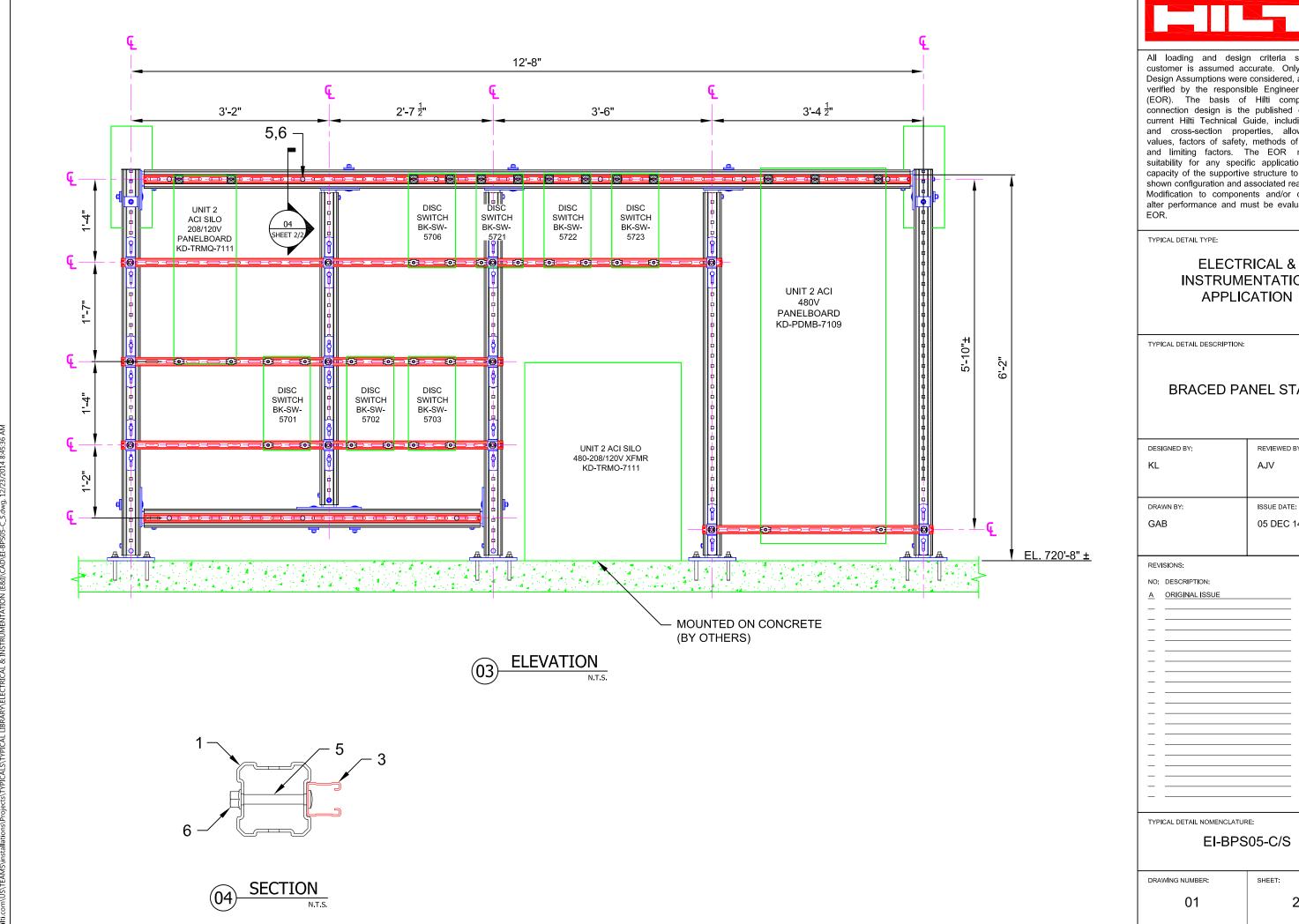
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KL	AJV				
DRAWN BY:	ISSUE DATE:				
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TYPICAL DETAIL NOMENCLATURE:

EI-BPS05-C/S

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All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the

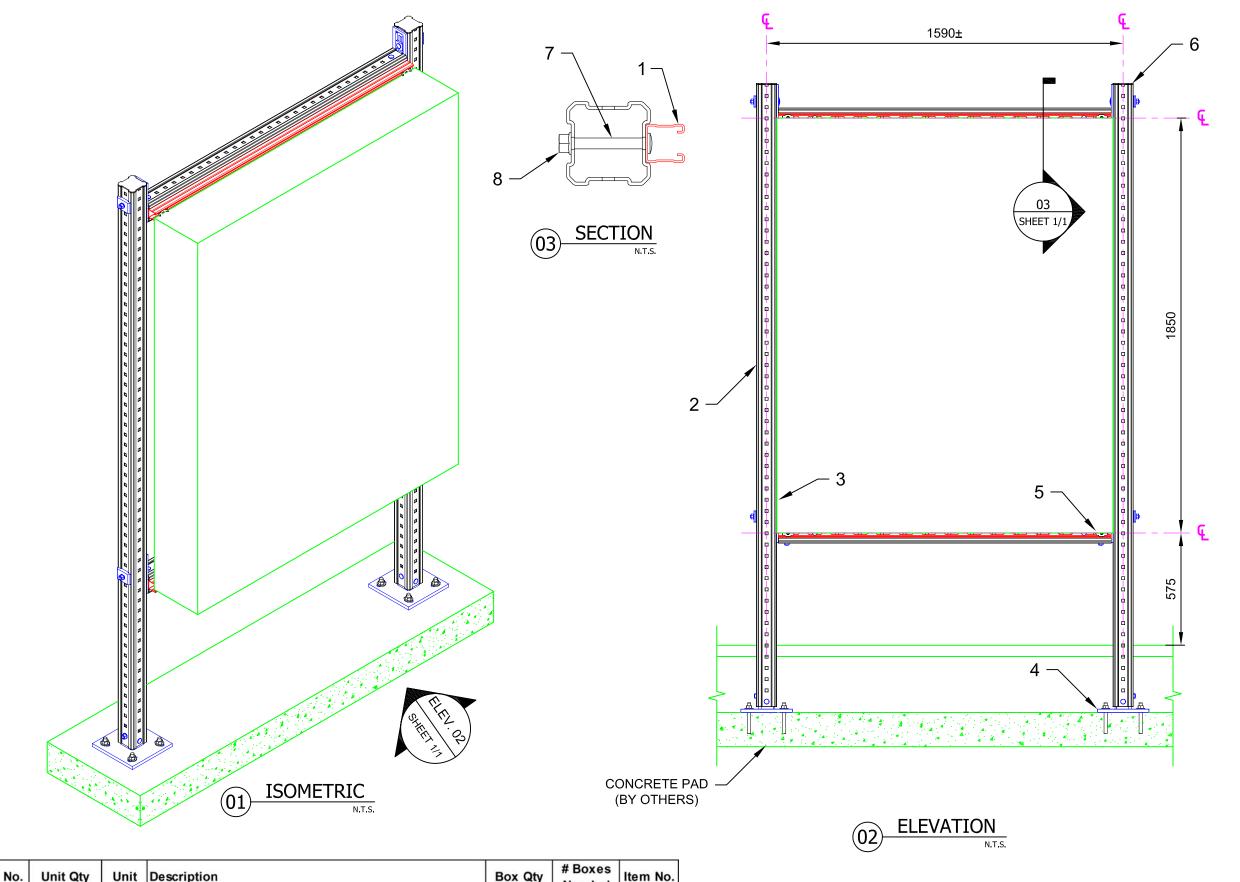
INSTRUMENTATION APPLICATION

BRACED PANEL STAND

DESIGNED BY:	REVIEWED BY:
KL	AJV
DRAWN BY:	ISSUE DATE:
GAB	05 DEC 14

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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	AS REQ'D	EA	STRUT HS-158-12/PG 10'	1	AS REQ'D	407555
2	AS REQ'D	EA	GIRDER MI-90 3M	1	AS REQ'D	304798
3	4	EA	CONNECTOR MIC-90-U	4	1	304803
4	2	EA	CONNECTOR MIC-C90-D CONCRETE	2	1	304827
5	8	EA	WING NUT MQM-F1/2"	50	1	377883
6	2	EA	GIRDER END CAP MIA-EC90	25	1	432077
7	4	EA	ONEHAND SCREW MIA-OH90	10	1	304889
8	4	EA	MI HEX NUT M12-F-SL-WS 3/4"	100	1	382897

- 1. PRELIMINARY NOT FOR CONSTRUCTION
- 2. DESIGN ASSUMPTIONS:
 - a. NO LOADS CONSIDERED CONCEPT ONLY
 - b. LATERAL LOADS NOT CONSIDERED
 - c. BUILDING CODE: NBC
 - d. CORROSION RESISTANCE REQD.: EG
- . REFER TO COMPONENT MANUFACTURER'S IFUS FOR REQUIRED INSTALLATION INFO.
- 3. E.O.R. MUST BE NOTIFIED OF ANY DEVIATIONS FROM EXISTING/ NEW SUBSTRATE CONDITIONS SHOWN HEREIN TO VALIDATE ACCEPTANCE OF THIS HILTI DESIGN PRIOR TO INSTALLATION.



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TYPICAL DETAIL TYPE:

ELECTRICAL & INSTRUMENTATION APPLICATION

TYPICAL DETAIL DESCRIPTION:

PANEL STAND

DESIGNED BY:	REVIEWED BY:
KL	AJV
DRAWN BY:	ISSUE DATE:
GAB	04 DEC 14

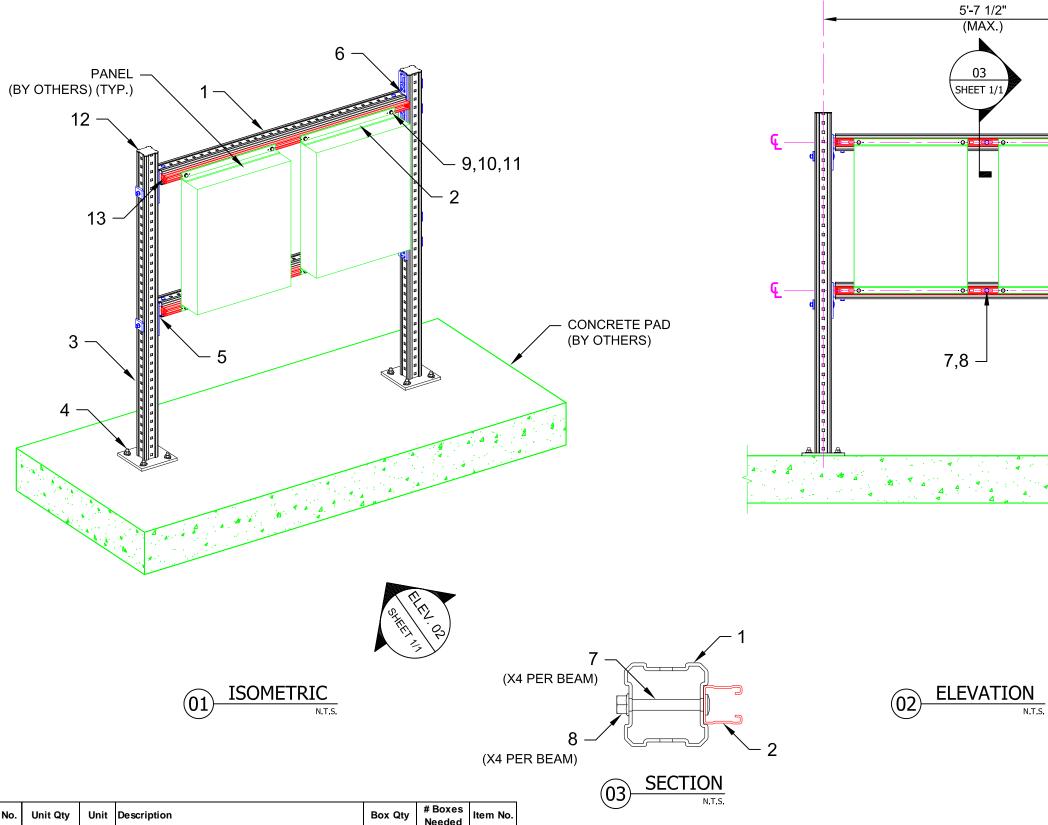
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TYPICAL DETAIL NOMENCLATURE:

EI-PS01-C

DRAWING NUMBER:	SHEET:
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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
					Needed	
1	AS REQ'D	EA	GIRDER MI-90 3M	1	AS REQ'D	304798
2	AS REQ'D	EA	STRUT HS-158-12/HDG 10'	1	AS REQ'D	407570
3	2	EA	CONNECTOR MIC-C90-D-2000 WELDED BRACKET	1	2	267793
4	8	EA	USE 5/8" Ø KB3 OR KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES
5	2	EA	CONNECTOR MIC-90-U	4	2	304803
6	2	EA	CONNECTOR MIC-90-L	2	1	304805
7	8	EA	ONEHAND SCREW MIA-OH90	10	1	304889
8	8	EA	MI HEX NUT M12-F-SL-WS 3/4"	100	1	382897
9	8	EA	WING NUT MQM-F3/8"-F	25	1	304136
10	8	EA	WASHER 3/8" HDG	VARIES	VARIES	SPECIAL
11	8	EA	HEX HEAD BOLT 3/8" x 1-1/4" HDG	VARIES	VARIES	SPECIAL
12	2	EA	GIRDER END CAP MIA-EC90	25	1	432077
13	8	EΑ	CHANNEL END CAP MEK RED	50	1	244886



- 1. PRELIMINARY NOT FOR CONSTRUCTION
- DESIGN ASSUMPTIONS:
 - a. DESIGN LOADS (STATIC, U.N.O.):

DL: PANEL WEIGHT = 100 lbs. EACH

WL: 56 psf.

- b. CORROSION RESISTANCE REQD.: HDG
- REFER TO COMPONENT MANUFACTURER'S IFUS FOR REQUIRED INSTALLATION INFO.
- E.O.R. MUST BE NOTIFIED OF ANY DEVIATIONS FROM EXISTING/ NEW SUBSTRATE CONDITIONS SHOWN HEREIN TO VALIDATE ACCEPTANCE OF THIS HILTI DESIGN PRIOR TO INSTALLATION.

4. *COORDINATE WITH PANEL MOUNTING FLANGES.



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TYPICAL DETAIL TYPE:

5/16"

2'-7

ELECTRICAL & INSTRUMENTATION **APPLICATION**

TYPICAL DETAIL DESCRIPTION:

PANEL STAND

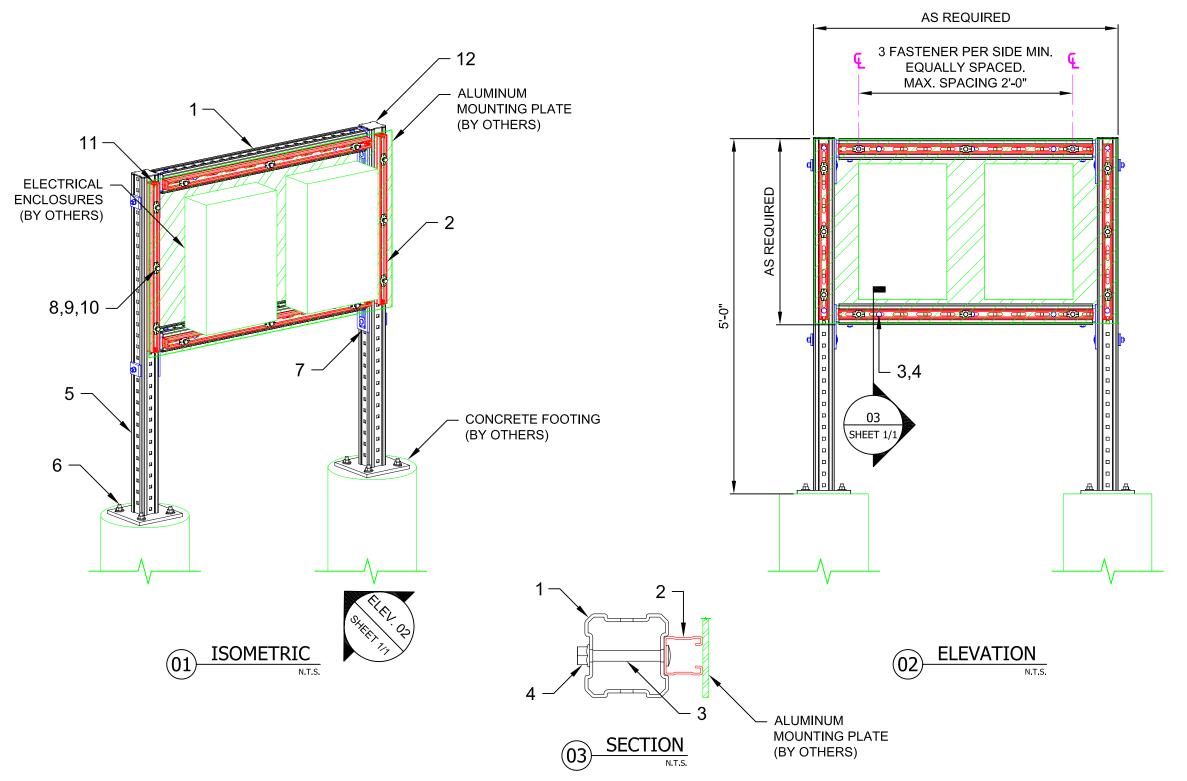
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KL	AJV			
DRAWN BY:	ISSUE DATE:			
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TYPICAL DETAIL NOMENCLATURE:

EI-PS02-C

DRAWING NUMBER:	SHEET:
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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	AS REQ'D	EA	GIRDER MI-90 3M	1	AS REQ'D	304798
2	AS REQ'D	EA	STRUT HS-158-12/HDG 10'	1	AS REQ'D	407570
3	12	EA	ONEHAND SCREW MIA-OH90	10	2	304889
4	12	EA	MI HEX NUT M12-F-SL-WS 3/4"	100	1	382897
5	2	EA	CONNECTOR MIC-C90-D-2000 WELDED BRACKET	1	2	267793
6	8	EA	USE KB3 OR KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES
7	4	EA	CONNECTOR MIC-90-U	4	1	304803
8	12	EA	WING NUT MQM-F3/8"-R	25	1	304019
9	12	EA	HEX HEAD BOLT 3/8" x 1-1/4" SS316	50	1	411788
10	12	EA	WASHER 3/8" SS316	200	1	411780
11	16	EA	CHANNEL END CAP MEK RED	50	1	244886
12	2	EA	GIRDER END CAP MIA-EC90	25	1	432077

- PRELIMINARY NOT FOR CONSTRUCTION
- 2. DESIGN ASSUMPTIONS:
 - a. NO LOADS CONSIDERED CONCEPT ONLY
 - b. LATERAL LOADS NOT CONSIDERED
 - c. BUILDING CODE: NOT SPECIFIED
- d. CORROSION RESISTANCE REQD.: HDG / SS / ALUMINUM

 2 REFER TO COMPONENT MANUFACTURER'S IFUS FOR REQUIRE!
- 2. REFER TO COMPONENT MANUFACTURER'S IFUS FOR REQUIRED INSTALLATION INFO.



All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

TYPICAL DETAIL TYPE:

ELECTRICAL & INSTRUMENTATION APPLICATION

TYPICAL DETAIL DESCRIPTION:

PANEL STAND

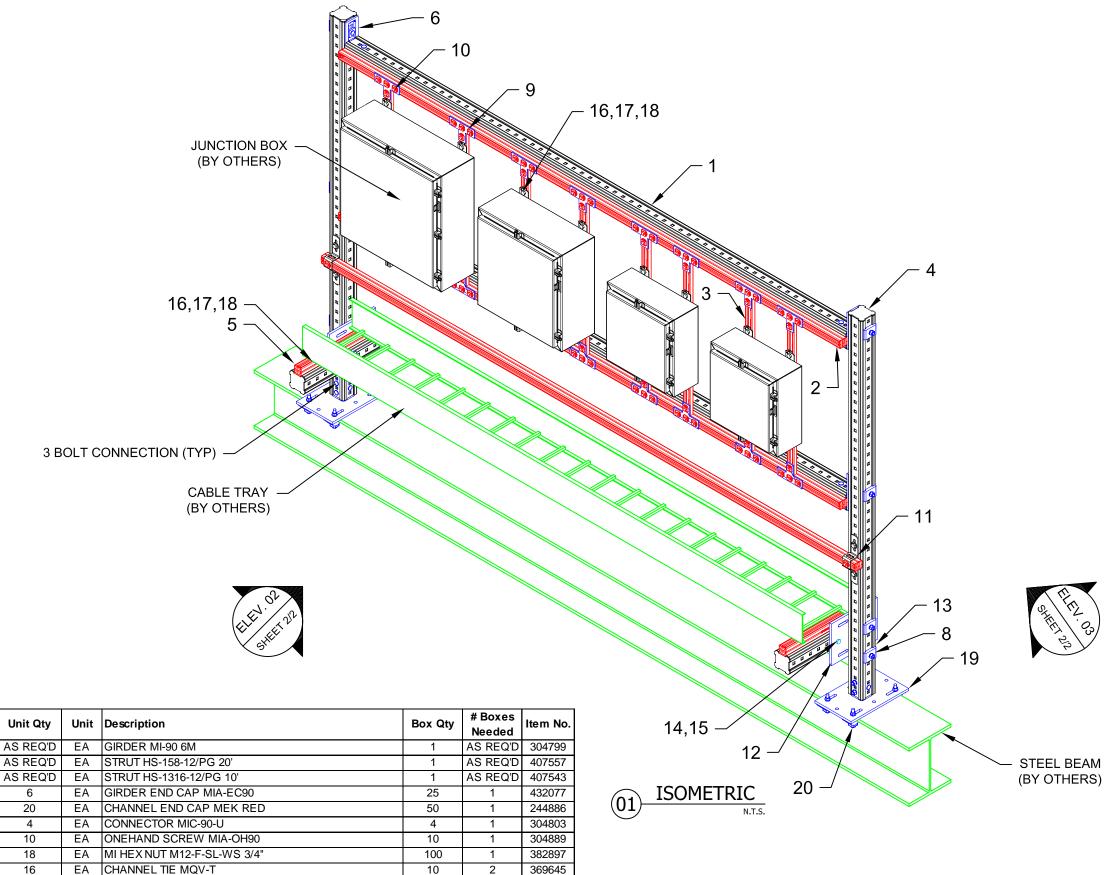
DESIGNED BY:	REVIEWED BY:
KL	AJV
DRAWN BY:	ISSUE DATE:
GAB	04 DEC 14

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TYPICAL DETAIL NOMENCLATURE:

EI-PS03-C

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1 382897 2 369645 2 369623 1 304881 1 304821 1 304891 1 304771 SPECIAL SPECIAL MIC-S90-X AS REQ'D 311953 AS REQ'D 411758 X

AS REQ'D 377883

VARIES VARIES

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SPECIAL

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VARIES

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AS REQ'D

AS REQ'D

AS REQ'D

EA CHANNEL CONNECTOR MQN

EA CONNECTOR MIC-MI/MQ-X

EA BASEPLATE MIB-SA STEEL

EA M12x130F/8.8 Hex. Screw (ITEM #283596)

EA CONNECTOR MIC-S90-X STEEL (SEE TABLE)

EA BACKING PLATE MIA-EH-P

EA HEX HEAD BOLT 1/2" x 1"

EA BEAM CLAMP MI-SGC-M12

EA WING NUT MQM-F1/2"

EA WASHER A 13-F

EA WASHER 1/2"

Bea	am	Width	Та	ble
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Х	'B' Width	Item No.
Α	2.9 to 6.5	304812
В	6.5 to 9.2	304813
С	9.2 to 11.8	304814

NOTE(S):

- 1. PRELIMINARY NOT FOR CONSTRUCTION
- 2. DESIGN ASSUMPTIONS:
 - a. NO LOADS CONSIDERED CONCEPT ONLY
 - b. LATERAL LOADS NOT CONSIDERED
 - c. BUILDING CODE: NOT SPECIFIED
 - d. CORROSION RESISTANCE REQD.: NOT SPECIFIED
- 3. REFER TO COMPONENT MANUFACTURER'S IFUS FOR REQUIRED INSTALLATION INFO.
- 4. E.O.R. MUST BE NOTIFIED OF ANY DEVIATIONS FROM EXISTING/ NEW SUBSTRATE CONDITIONS SHOWN HEREIN TO VALIDATE ACCEPTANCE OF THIS HILTI DESIGN PRIOR TO INSTALLATION.



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TYPICAL DETAIL TYPE:

ELECTRICAL & INSTRUMENTATION APPLICATION

TYPICAL DETAIL DESCRIPTION:

PANEL STAND WITH CABLE TRAY

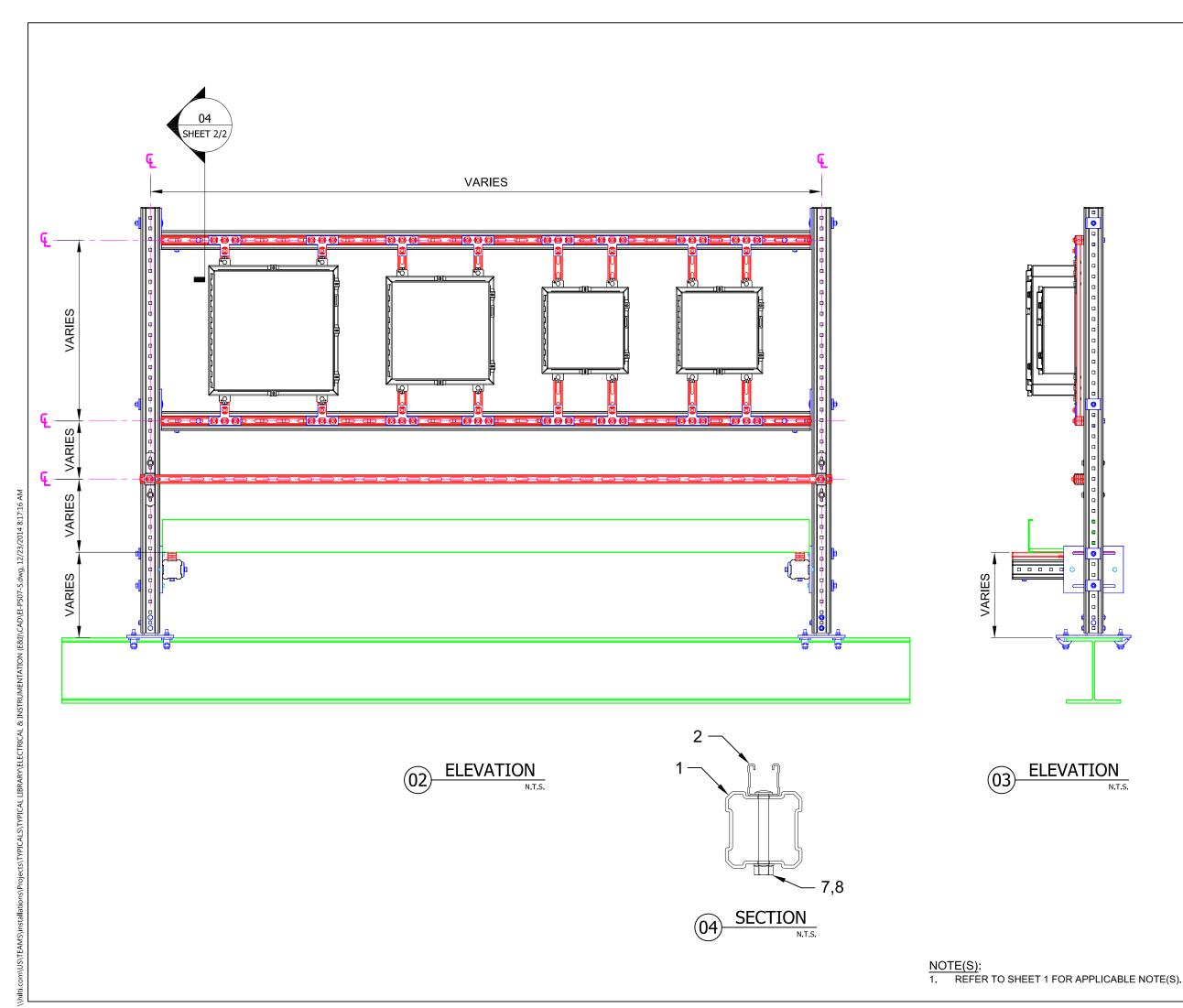
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All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

TYPICAL DETAIL TYPE:

ELECTRICAL & INSTRUMENTATION APPLICATION

TYPICAL DETAIL DESCRIPTION:

PANEL STAND WITH CABLE TRAY

DESIGNED BY:	REVIEWED BY:
KL	AJV
DRAWN BY:	ISSUE DATE:
GAB	04 DEC 14

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TYPICAL DETAIL NOMENCLATURE:

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