

SOMETRIC		ELEVATION
N.T.S.	(02)—	N.T.S.

No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	1	EA	CONNECTOR MIC-C120-D-2000 WELDED BRACKET	1	1	270472
2	AS REQ'D	EA	GIRDER MI-90 3M	1	AS REQ'D	304798
3	AS REQ'D	EA	STRUT HS-158-12/HDG 10'	1	AS REQ'D	407570
4	4	EA	CHANNEL END CAP MEK RED	50	1	244886
5	2	EA	GIRDER END CAP MIA-EC90	25	1	432077
6	4	EA	USE KB3 OR KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES
7	1	EA	CONNECTOR MIC-90-LH	3	1	2048107
8	4	EA	EASYHAND SCREW MIA-EH90	10	1	304887
9	4	EA	PREVAIL TORQUE HEX NUT M12-F-SL-WS 3/4"	100	1	382897
10	4	EA	TOOTHED PLATE MIA-TP	20	1	305707
11	2	EA	ONEHAND SCREW MIA-OH90	10	1	304889
12	2	EA	PREVAIL TORQUE HEX NUT M12-F-SL-WS 3/4"	100	1	382897

CABLE TRAY AND CLIPS

(BY OTHERS)

NOTE(S):

- 1. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
- 2. ALL LOADS ASSUMED TO ACT AT HORIZONTAL & OF CABLE TRAY WHICH IS SITTING DIRECTLY ON TOP OF MI GIRDER, U.N.O.
- 3. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
- 4. CABLE TRAY HORIZONTAL OFFSET FROM MI POST € = 0"



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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY T-POST CONCRETE

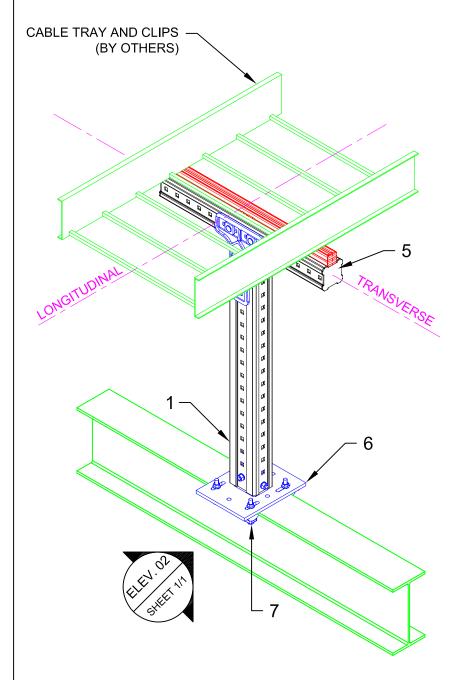
DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 14

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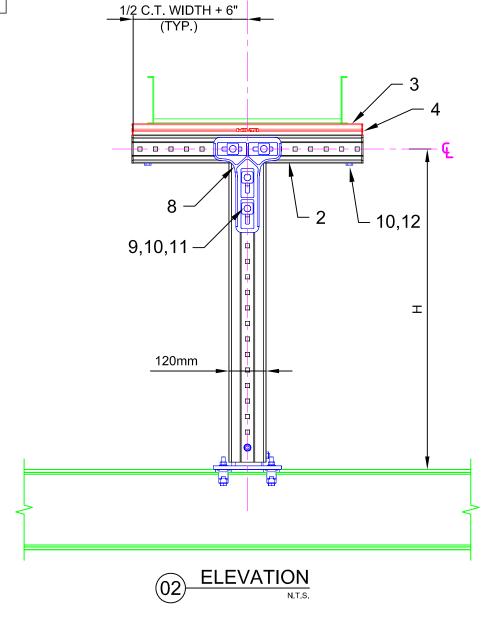
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ISOMETRIC

Maximum"H"	Allowable	Allowable	Allowable
(in)	Vertical	Transverse	Longitudinal
(111)	Load (lbs)	Load (lbs)	Load (lbs)
48	6714	0	0
48	790	237	0
48	583	0	175
60	6714	0	0
60	625	187	0
60	458	0	137
72	6714	0	0
72	500	150	0
72	375	0	112



MIC-S120-X

Beam Width Table

Х	'B' Width	Item No.
Α	2.9 to 6.5	304818
В	6.5 to 9.2	304819
С	9.2 to 11.8	304820

No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No
1	AS REQ'D	EΑ	GIRDER MI-120 3M	1	AS REQ'D	304800
2	AS REQ'D	EΑ	GIRDER MI-90 3M	1	AS REQ'D	304798
3	AS REQ'D	EA	STRUT HS-158-12/HDG 10'	1	AS REQ'D	407570
4	4	EA	CHANNEL END CAP MEK RED	50	1	244886
5	2	EA	GIRDER END CAP MIA-EC90	25	1	432077
6	1	EΑ	CONNECTOR MIC-S120-X STEEL (SEE TABLE)	2	1	VARIES
7	4	EA	BEAM CLAMP MI-SGC-M12	16	1	233859
8	1	EA	CONNECTOR MIC-90-LH	3	1	2048107
9	4	EA	EASYHAND SCREW MIA-EH90	10	1	304887
10	6	EΑ	PREVAIL TORQUE HEX NUT M12-F-SL-WS 3/4"	100	1	382897
11	4	EA	TOOTHED PLATE MIA-TP	20	1	305707
12	2	EΑ	ONEHAND SCREW MIA-OH90	10	1	304889

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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY T-POST STEEL

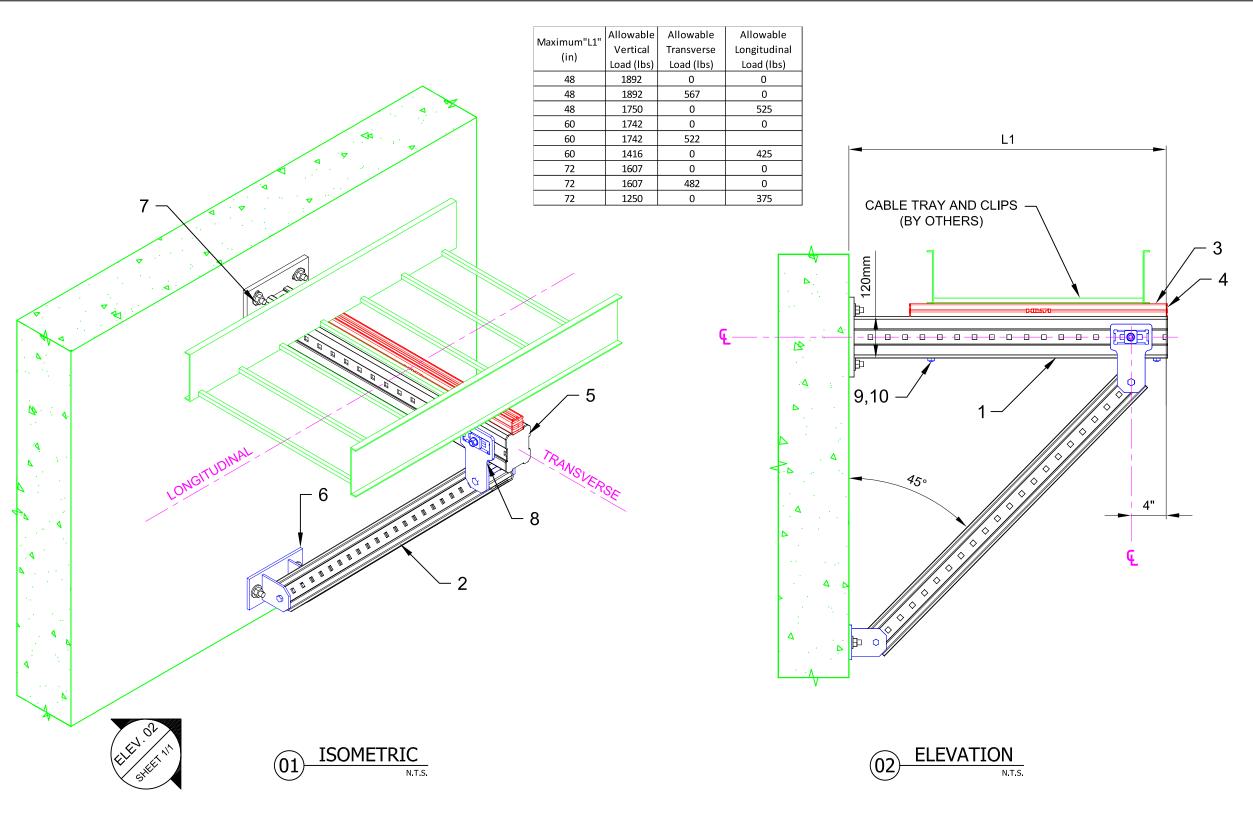
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AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 14

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DRAWING NUMBER:	SHEET:
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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	1	EA	CONNECTOR MIC-C120-D-2000 WELDED BRACKET	1	1	270472
2	AS REQ'D	EA	GIRDER MI-90 3M	1	AS REQ'D	304798
3	AS REQ'D	EA	STRUT HS-158-12/HDG 10'	1	AS REQ'D	407570
4	4	EA	CHANNEL END CAP MEK RED	50	1	244886
5	1	EA	GIRDER END CAP MIA-EC120	25	1	432078
6	1	EA	CONNECTOR MIC-CU-MA CONCRETE	4	1	304828
7	6	EA	USE KB3 OR KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES
8	1	EA	CONNECTOR MIC-U-MA	2	1	304806
9	2	EA	ONEHAND SCREW MIA-OH120	10	1	304890
10	2	EA	PREVAIL TORQUE HEX NUT M12-F-SL-WS 3/4"	100	1	382897

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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY BRACED CANTILEVER CONCRETE

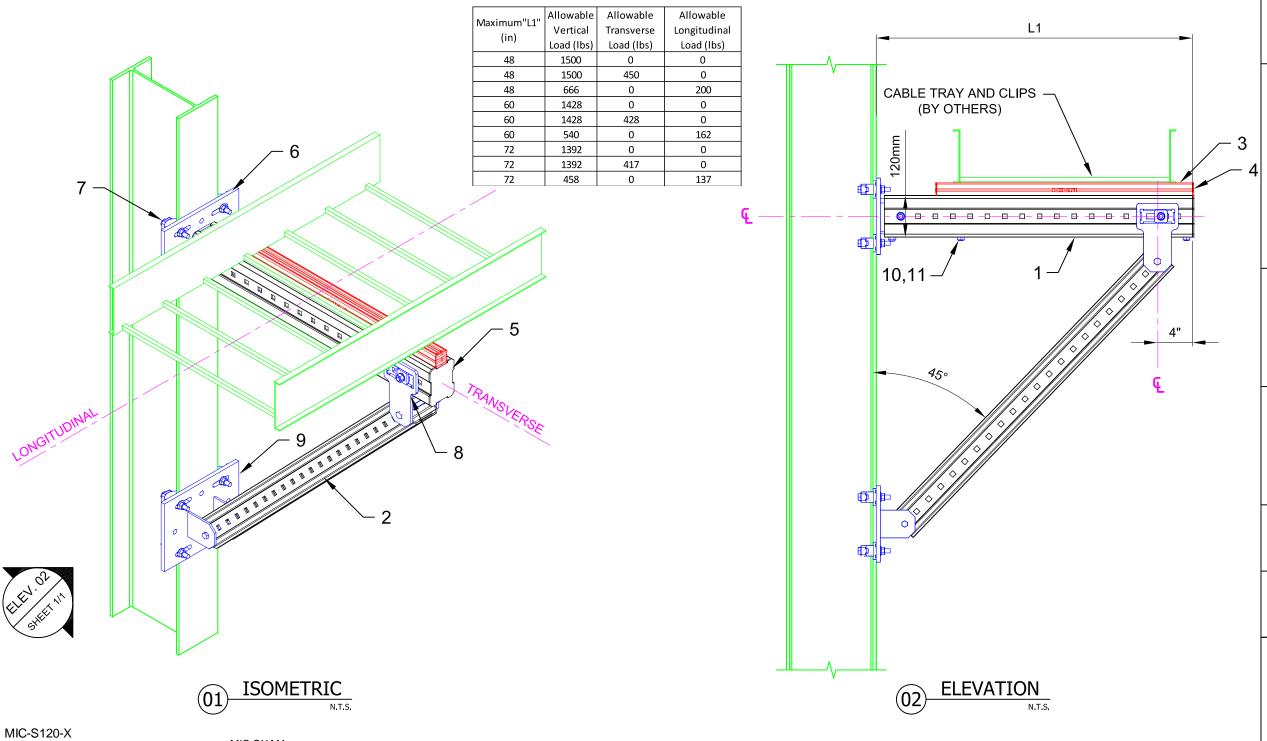
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AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 14

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DESCRIPTION:	DATE:
ORIGINAL ISSUE	22 DEC 14
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	DESCRIPTION:

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DRAWING NUMBER:	SHEET:
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Beam Width Table

Х	'B' Width	Item No.
Α	2.9 to 6.5	304818
В	6.5 to 9.2	304819
С	9.2 to 11.8	304820

Beam Width Table

Х	'B' Width	Item No.
Α	2.9 to 6.5	304815
В	6.5 to 9.2	304816
С	9.2 to 11.8	304817

No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	AS REQ'D	EA	GIRDER MI-120 3M	1	AS REQ'D	304800
2	AS REQ'D	EA	GIRDER MI-90 3M	1	AS REQ'D	304798
3	AS REQ'D	EA	STRUT HS-158-12/HDG 10'	1	AS REQ'D	407570
4	4	EA	CHANNEL END CAP MEK RED	50	1	244886
5	1	EA	GIRDER END CAP MIA-EC120	25	1	432078
6	1	EA	CONNECTOR MIC-S120-X STEEL (SEE TABLE)	2	1	VARIES
7	8	EA	BEAM CLAMP MI-SGC-M12	16	1	233859
8	1	EA	CONNECTOR MIC-U-MA	2	1	304806
9	1	EA	CONNECTOR MIC-SX-MA STEEL (SEE TABLE)	2	1	VARIES
10	2	EA	ONEHAND SCREW MIA-OH120	10	1	304890
11	2	EA	PREVAIL TORQUE HEX NUT M12-F-SL-WS 3/4"	100	1	382897

NOTE(S):

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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY BRACED CANTILEVER STEEL

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 14

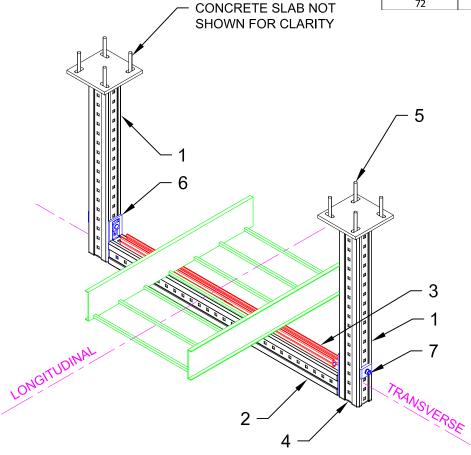
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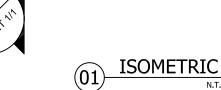
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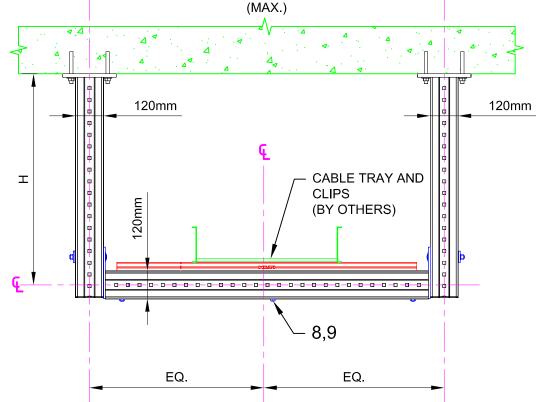
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DRAWING NUMBER:	SHEET:
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Maximum"H"	Allowable	Allowable	Allowable
	Vertical	Transverse	Longitudinal
(in)	Load (lbs)	Load (lbs)	Load (lbs)
48	3285	0	0
48	2541	762	0
48	3125	0	937
60	3285	0	0
60	2541	762	0
60	3083	0	925
72	3285	0	0
72	2500	750	0
72	2416	0	725







6'-0"



No. Unit Qtv U		Unit Description	Boy Oty	# Boxes	Item No.
Offic Qty	Oiiit	Description	Needed		
2	EA	CONNECTOR MIC-C120-D-2000 WELDED BRACKET	1	2	270472
AS REQ'D	EA	GIRDER MI-120 3M	1	AS REQ'D	304800
AS REQ'D	EA	STRUT HS-158-12/HDG 10'	1	AS REQ'D	407570
2	EA	GIRDER END CAP MIA-EC120	25	1	432078
8	EA	USE KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES
2	EA	CONNECTOR MIC-120-U	4	1	304804
2	EA	EASYHAND SCREW MIA-EH120	10	1	304888
3	EA	ONEHAND SCREW MIA-OH120	10	1	304890
3	EA	PREVAIL TORQUE HEX NUT M12-F-SL-WS 3/4"	100	1	382897
-	2 AS REQ'D AS REQ'D 2 8 2 2 3	2 EA AS REQ'D EA AS REQ'D EA 2 EA 8 EA 2 EA 2 EA 3 EA	2 EA CONNECTOR MIC-C120-D-2000 WELDED BRACKET AS REQ'D EA GIRDER MI-120 3M AS REQ'D EA STRUT HS-158-12/HDG 10' 2 EA GIRDER END CAP MIA-EC120 8 EA USE KB-TZ AS APPROPRIATE 2 EA CONNECTOR MIC-120-U 2 EA EASYHAND SCREW MIA-EH120 3 EA ONEHAND SCREW MIA-OH120	2 EA CONNECTOR MIC-C120-D-2000 WELDED BRACKET 1 AS REQ'D EA GIRDER MI-120 3M 1 AS REQ'D EA STRUT HS-158-12/HDG 10' 1 2 EA GIRDER END CAP MIA-EC120 25 8 EA USE KB-TZ AS APPROPRIATE VARIES 2 EA CONNECTOR MIC-120-U 4 2 EA EASYHAND SCREW MIA-EH120 10 3 EA ONEHAND SCREW MIA-OH120 10	Onlit Qty

NOTE(S)

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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY TRAPEZE CONCRETE

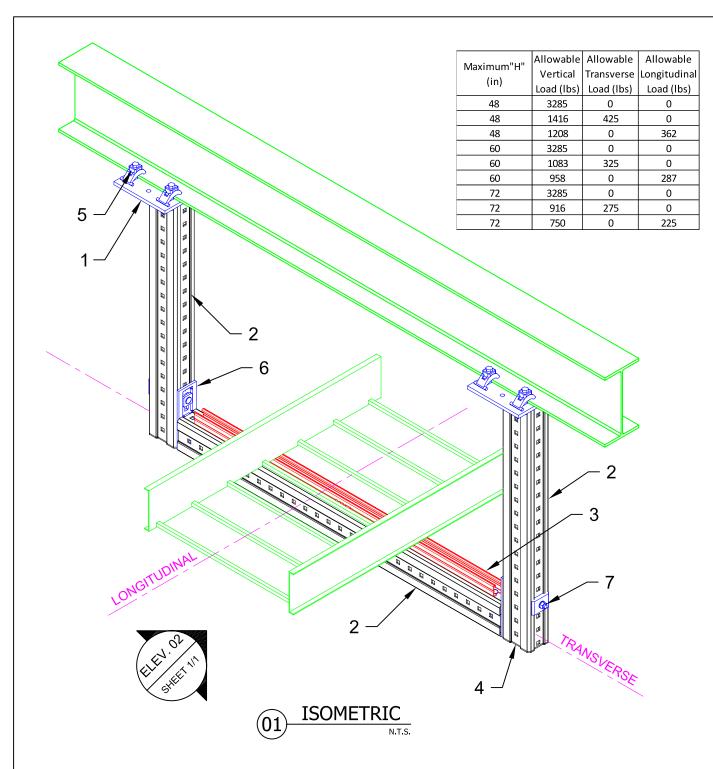
DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 2014

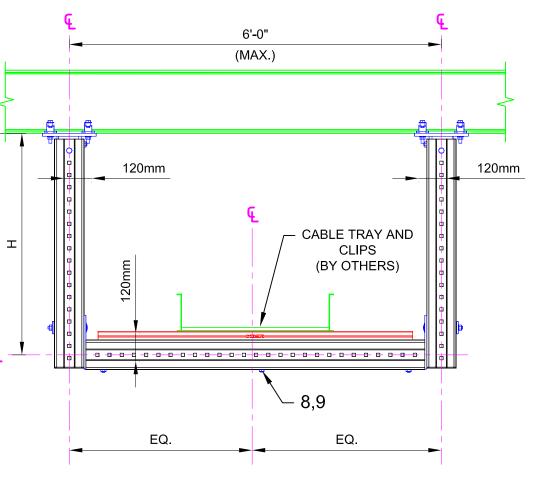
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MIC-S120-X

Beam Width Table

Х	'B' Width	Item No.
Α	2.9 to 6.5	304818
В	6.5 to 9.2	304819
С	9.2 to 11.8	304820

			_	Needed	Item No.
2	EA	CONNECTOR MIC-S120-X STEEL (SEE TABLE)		1	VARIES
AS REQ'D	EA	GIRDER MI-120 3M	1	AS REQ'D	304800
AS REQ'D	EA	STRUT HS-158-12/HDG 10'	1	AS REQ'D	407570
2	EA	GIRDER END CAP MIA-EC120	25	1	432078
8	EA	BEAM CLAMP MI-SGC-M12	16	1	233859
2	EA	CONNECTOR MIC-120-U	4	1	304804
2	EA	EASYHAND SCREW MIA-EH120	10	1	304888
3	EA	ONEHAND SCREW MIA-OH120	10	1	304890
3	EA	PREVAIL TORQUE HEX NUT M12-F-SL-WS 3/4"	100	1	382897
	AS REQ'D 2 8 2 2 3	AS REQ'D EA 2 EA 8 EA 2 EA 2 EA 3 EA	AS REQ'D EA STRUT HS-158-12/HDG 10' 2 EA GIRDER END CAP MIA-EC120 8 EA BEAM CLAMP MI-SGC-M12 2 EA CONNECTOR MIC-120-U 2 EA EASYHAND SCREW MIA-EH120 3 EA ONEHAND SCREW MIA-OH120	AS REQ'D EA STRUT HS-158-12/HDG 10' 1 2 EA GIRDER END CAP MIA-EC120 25 8 EA BEAM CLAMP MI-SGC-M12 16 2 EA CONNECTOR MIC-120-U 4 2 EA EASYHAND SCREW MIA-EH120 10 3 EA ONEHAND SCREW MIA-OH120 10	AS REQ'D EA STRUT HS-158-12/HDG 10' 1 AS REQ'D 2 EA GIRDER END CAP MIA-EC120 25 1 8 EA BEAM CLAMP MI-SGC-M12 16 1 2 EA CONNECTOR MIC-120-U 4 1 2 EA EASYHAND SCREW MIA-EH120 10 1 3 EA ONEHAND SCREW MIA-OH120 10 1

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TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY TRAPEZE STEEL

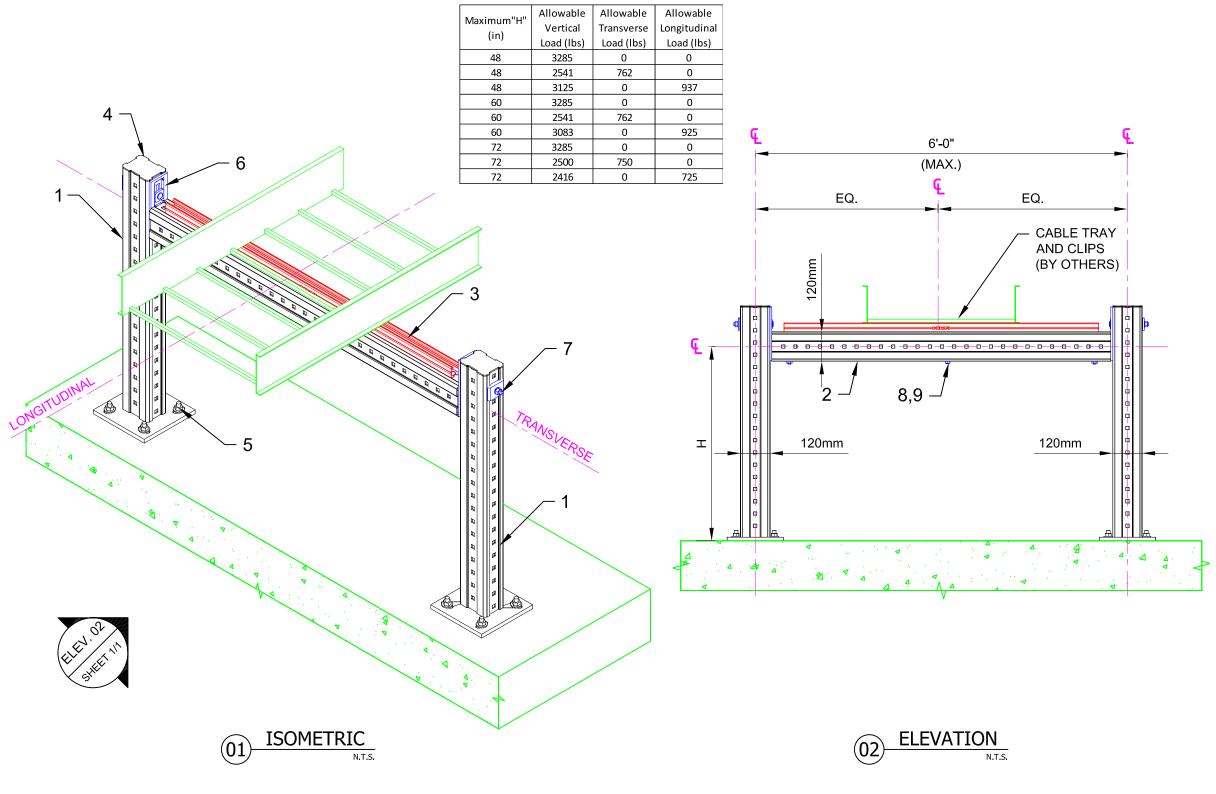
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AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 2014

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SERVICE REQUEST NUMBER:

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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	2	EA	CONNECTOR MIC-C120-D-2000 WELDED BRACKET	1	2	270472
2	AS REQ'D	EA	GIRDER MI-120 3M	1	AS REQ'D	304800
3	AS REQ'D	EA	STRUT HS-158-12/HDG 10'	1	AS REQ'D	407570
4	2	EA	GIRDER END CAP MIA-EC120	25	1	432078
5	8	EA	USE KB3 OR KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES
6	2	EA	CONNECTOR MIC-120-U	4	1	304804
7	2	EA	EASYHAND SCREW MIA-EH120	10	1	304888
8	3	EA	ONEHAND SCREW MIA-OH120	10	1	304890
9	3	EA	PREVAIL TORQUE HEX NUT M12-F-SL-WS 3/4"	100	1	382897

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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY GOALPOST CONCRETE

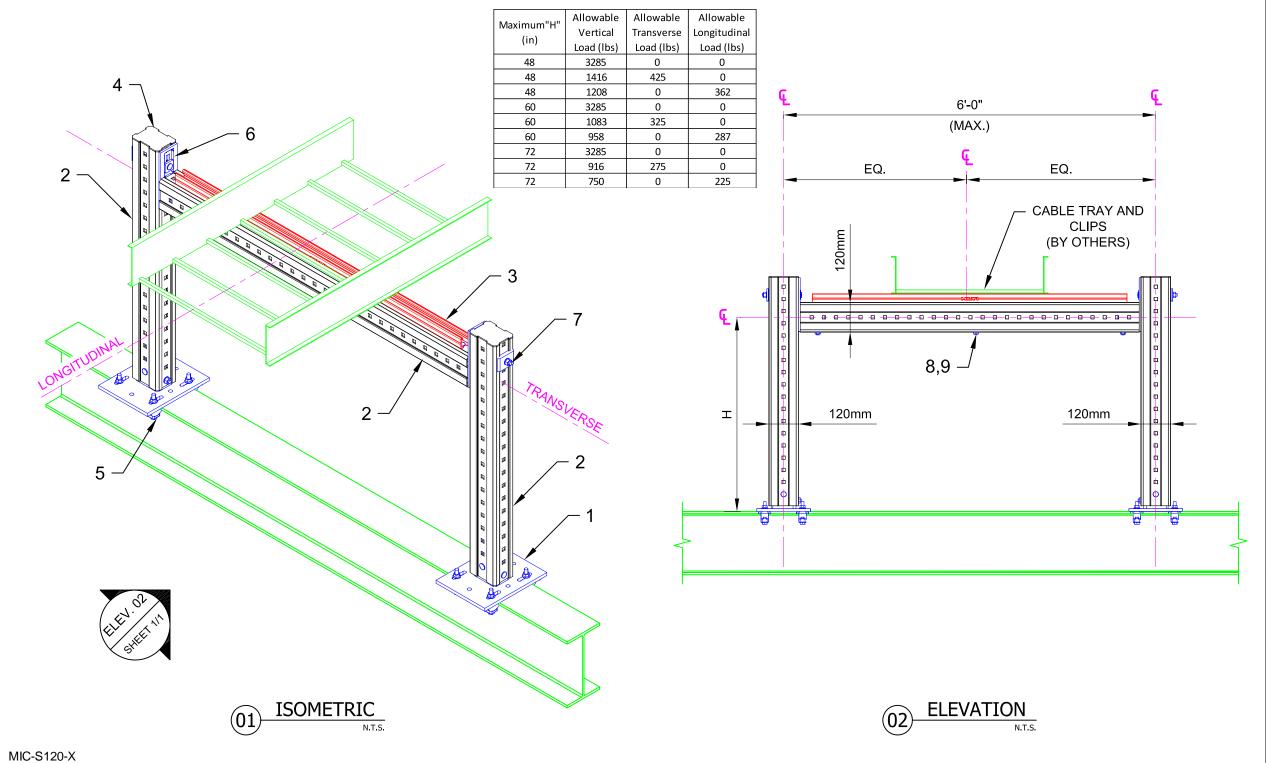
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AJV	ISE
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Beam Width Table

Х	'B' Width	Item No.
Α	2.9 to 6.5	304818
В	6.5 to 9.2	304819
С	9.2 to 11.8	304820

	No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
ľ	1	2	EA	CONNECTOR MIC-S120-X STEEL (SEE TABLE)	2	1	VARIES
ſ	2	AS REQ'D	EA	GIRDER MI-120 3M	1	AS REQ'D	304800
	3	AS REQ'D	EA	STRUT HS-158-12/HDG 10'	1	AS REQ'D	407570
	4	2	EA	GIRDER END CAP MIA-EC120	25	1	432078
	5	8	EA	BEAM CLAMP MI-SGC-M12	16	1	233859
	6	2	EA	CONNECTOR MIC-120-U	4	1	304804
	7	2	EA	EASYHAND SCREW MIA-EH120	10	1	304888
	8	3	EA	ONEHAND SCREW MIA-OH120	10	1	304890
	9	3	EA	PREVAIL TORQUE HEX NUT M12-F-SL-WS 3/4"	100	1	382897

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REVISIONS:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY GOALPOST STEEL

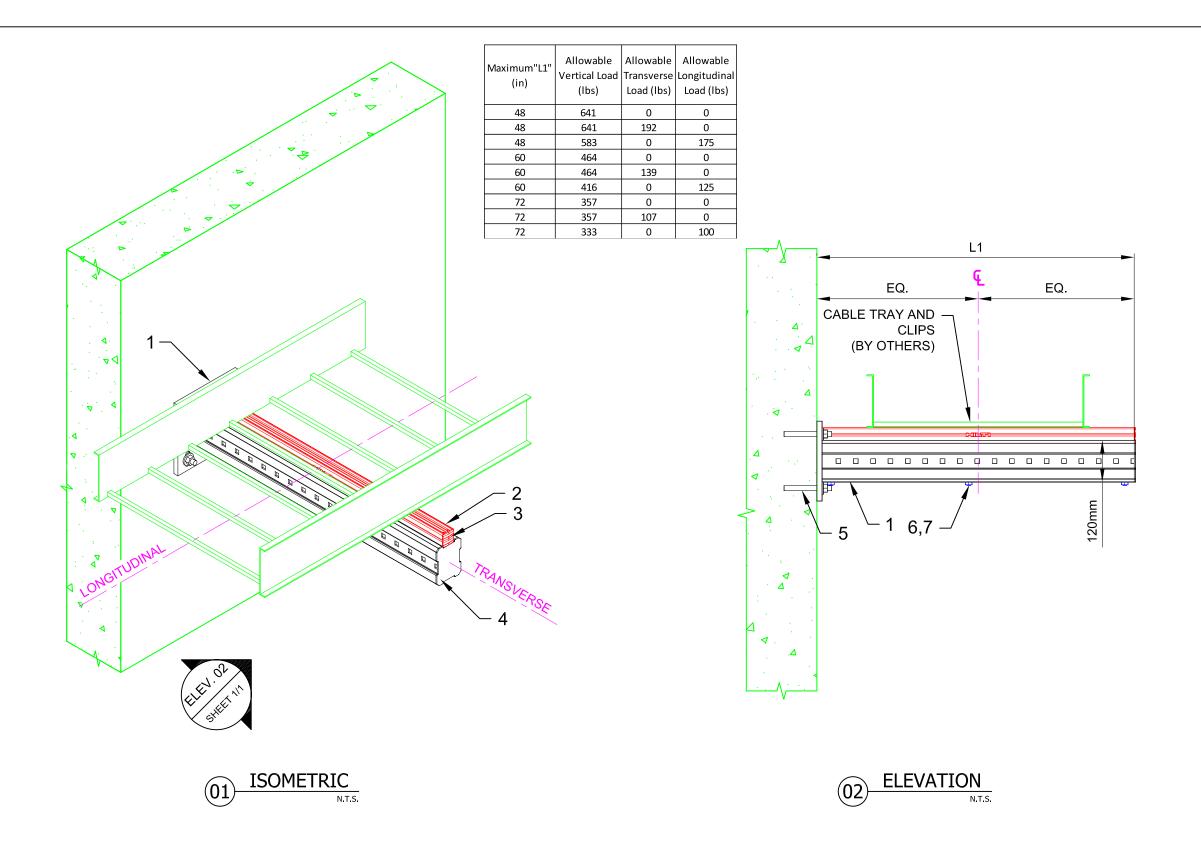
DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 14

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SERVICE REQUEST NUMBER:

TD-CT-GP04-S

DRAWING NUMBER:	SHEET:
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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	1	EA	CONNECTOR MIC-C120-D-2000 WELDED BRACKET	1	1	270472
2	AS REQ'D	EA	STRUT HS-158-12/HDG 10'	1	AS REQ'D	407570
3	2	EA	CHANNEL END CAP MEK RED	50	1	244886
4	1	EA	GIRDER END CAP MIA-EC120	25	1	432078
5	4	EA	USE KB3 OR KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES
6	3	EA	ONEHAND SCREW MIA-OH120	10	1	304890
7	3	EA	PREVAIL TORQUE HEX NUT M12-F-SL-WS 3/4"	100	1	382897

- 1. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
- 2. ALL LOADS ASSUMED TO ACT AT HORIZONTAL & OF CABLE TRAY WHICH IS SITTING DIRECTLY ON TOP OF MI GIRDER, U.N.O.
- 3. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
- 4. CABLE TRAY HORIZONTAL OFFSET FROM MI POST € = 0"



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.

PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY CANTILEVER CONCRETE

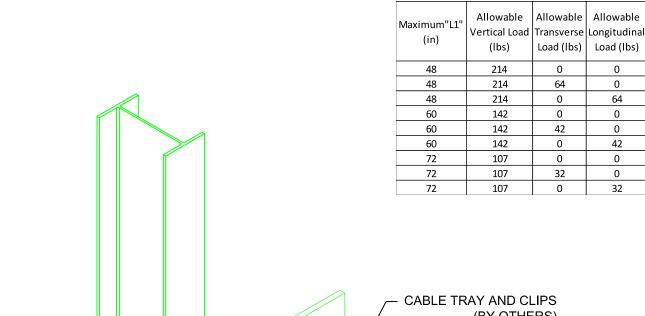
DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 14

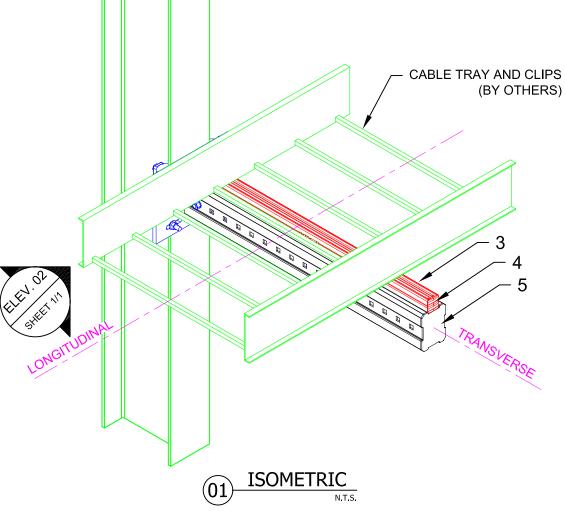
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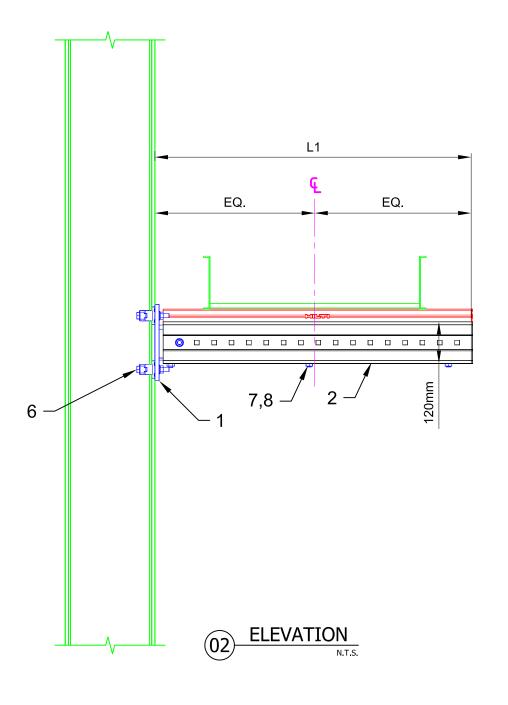
SERVICE REQUEST NUMBER:

TD-CT-C05-C

DRAWING NUMBER:	SHEET:
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MIC-S120-X

Beam Width Table

Х	'B' Width	Item No.			
Α	2.9 to 6.5	304818			
В	6.5 to 9.2	304819			
С	9.2 to 11.8	304820			

MIC-SX-MA

Beam Width Table

Х	'B' Width	Item No.
Α	2.9 to 6.5	304815
В	6.5 to 9.2	304816
С	9.2 to 11.8	304817

	No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
	1	1	EA	CONNECTOR MIC-S120-X STEEL (SEE TABLE)	2	1	VARIES
Ī	2	AS REQ'D	EA	GIRDER MI-120 3M	1	AS REQ'D	304800
	3	AS REQ'D	EA	STRUT HS-158-12/HDG 10'	1	AS REQ'D	407570
	4	2	EA	CHANNEL END CAP MEK RED	50	1	244886
	5	1	EA	GIRDER END CAP MIA-EC120	25	1	432078
	6	4	EA	BEAM CLAMP MI-SGC-M12	16	1	233859
	7	3	EA	ONEHAND SCREW MIA-OH120	10	1	304890
	8	3	EA	PREVAIL TORQUE HEX NUT M12-F-SL-WS 3/4"	100	1	382897

NOTE(S):

- 1. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
- 2. ALL LOADS ASSUMED TO ACT AT HORIZONTAL & OF CABLE TRAY WHICH IS SITTING DIRECTLY ON TOP OF MI GIRDER, U.N.O.
- 3. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
- 4. CABLE TRAY HORIZONTAL OFFSET FROM MI POST € = 0"



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TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY CANTILEVER STEEL

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 14

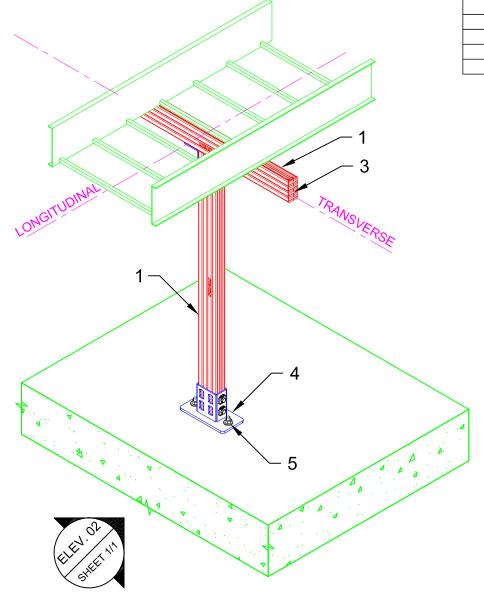
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SERVICE REQUEST NUMBER:

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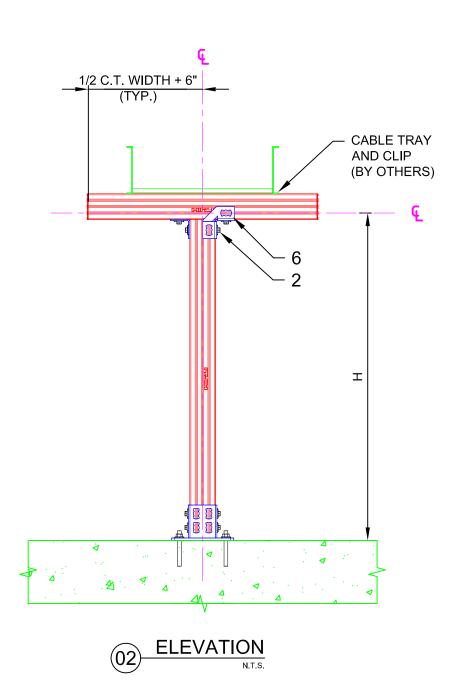
DRAWING NUMBER:	SHEET:
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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	AS REQ'D	EA	STRUT HS-158-12/HDG 10' B2B	1	AS REQ'D	2007087
2	8	EA	CHANNEL CONNECTOR MQN-HDG PLUS	50	1	387779
3	8	EA	CHANNEL END CAP MEK RED	50	1	244886
4	1	EA	RAIL SUPPORT MQP-82	8	1	369652
5	2	EA	USE KB3 OR KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES
6	2	EA	4-HOLE ANGLE MQW-4	10	1	369658



- 1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON CABLE TRAY WIDTH.
- 2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
- 3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL € OF CABLE TRAY WHICH IS SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
- 4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
- 5. CABLE TRAY HORIZONTAL OFFSET FROM HS POST **\(\mathbb{L} = 0 \)**



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

PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY T-POST (MQ) CONCRETE

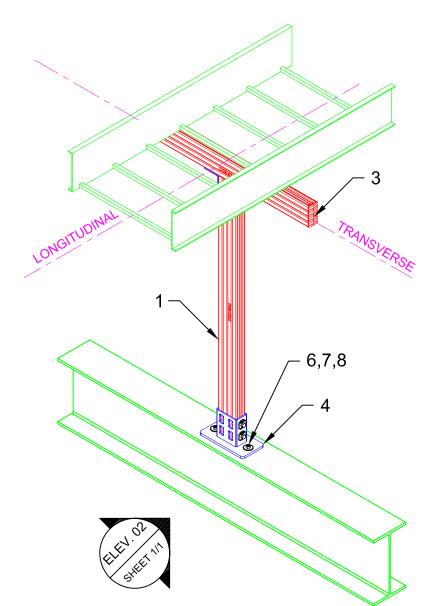
DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 14

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SERVICE REQUEST NUMBER:

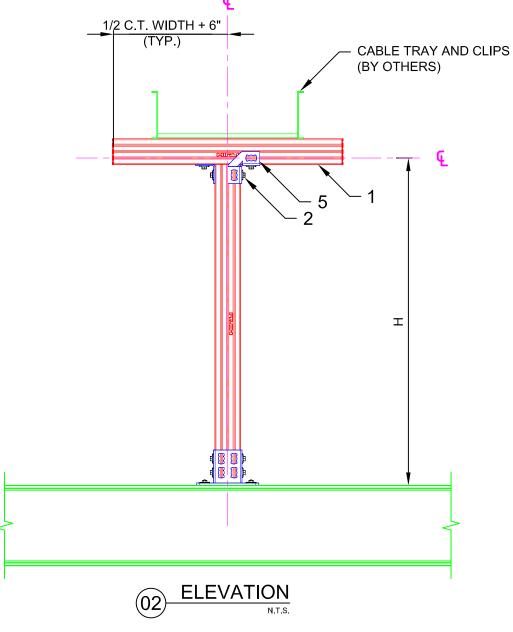
TD-CT-TP51-C

DRAWING NUMBER:	SHEET:
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ISOMETRIC

Maximum"H"	Allowable	Allowable	Allowable
	Vertical	Transverse	Longitudinal
(in)	Load (Ibs)	Load (lbs)	Load (lbs)
48	2642	0	0
48	791	119	0
48	141	0	22
60	2642	0	0
60	500	75	0
60	116	0	18
72	2642	0	0
72	333	50	0
72	96	0	15



No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	AS REQ'D	EA	STRUT HS-158-12/HDG 10' B2B	1	AS REQ'D	2007087
2	8	EA	CHANNEL CONNECTOR MQN-HDG PLUS	50	1	387779
3	8	EA	CHANNEL END CAP MEK RED	50	1	244886
4	1	EA	RAIL SUPPORT MQP-82	8	1	369652
5	2	EA	4-HOLE ANGLE MQW-4	10	1	369658
6	2	EA	X-BTW10-24-6 SN12-R	100	1	377076
7	2	EA	HEX NUT-HEAVY DUTY 3/8"	100	1	411752
8	2	EA	FENDER WASHER 3/8"	1000	1	313069

NOTE(S):

- 1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON CABLE TRAY WIDTH
- 2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
- 3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL & OF CABLE TRAY WHICH IS SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
- 4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
- 5. CABLE TRAY HORIZONTAL OFFSET FROM HS POST & = 0"



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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY T-POST (MQ) STEEL

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 14

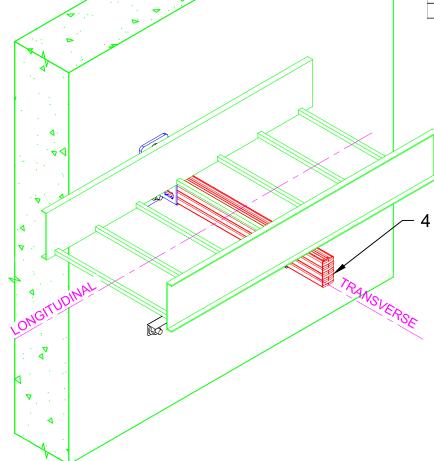
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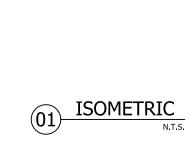
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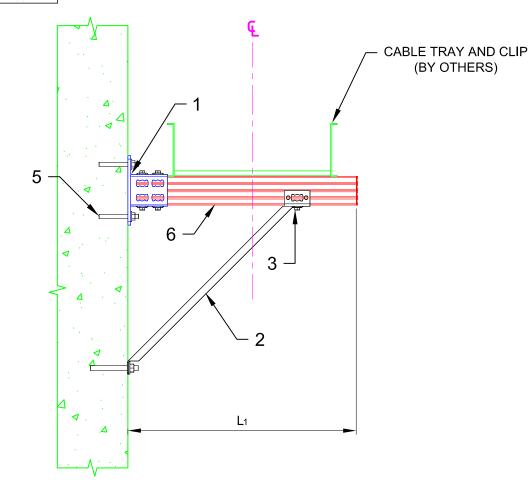
TD-CT-TP51-S

DRAWING NUMBER:	SHEET:
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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	1	EA	BASE MQP-82-F	1	1	304166
2	1	EA	ANGLE BRACE MQK-SL-F	10	1	304128
3	5	EA	CHANNEL CONNECTOR MQN-HDG PLUS	50	1	387779
4	4	EA	CHANNEL END CAP MEK RED	50	1	244886
5	3	EA	USE KB3 OR KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES
6	AS REQ'D	EA	STRUT HS-158-12/HDG 10' B2B	1	AS REQ'D	2007087

- REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON CABLE TRAY WIDTH.
- 2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
- 3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL & OF CABLE TRAY WHICH IS SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY BRACED CANTILEVER (MQ) CONCRETE

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 14

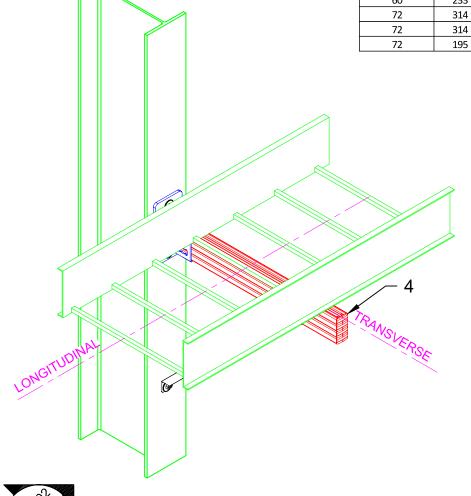
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SERVICE REQUEST NUMBER:

TD-CT-BC52-C

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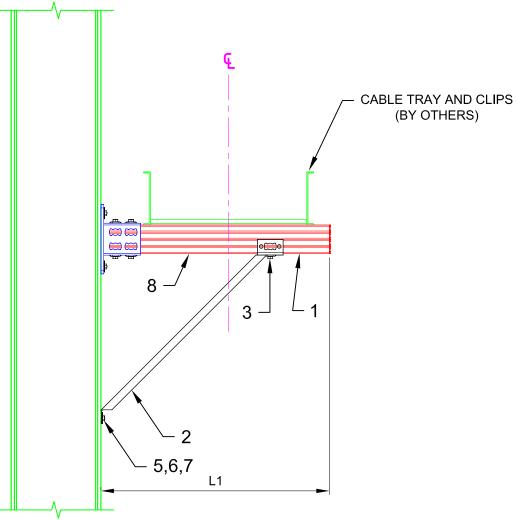
Maximum"L1"	Allowable	Allowable	Allowable
	Vertical	Transverse	Longitudinal
(in)	Load (lbs)	Load (lbs)	Load (lbs)
48	535	0	0
48	535	80	0
48	291	0	44
60	392	0	0
60	392	58	0
60	233	0	35
72	314	0	0
72	314	47	0
72	195	0	30







No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	1	EA	BASE MQP-82-F	1	1	304166
2	1	EA	ANGLE BRACE MQK-SL-F	10	1	304128
3	5	EA	CHANNEL CONNECTOR MQN-HDG PLUS	50	1	387779
4	4	EA	CHANNEL END CAP MEK RED	50	1	244886
5	3	EA	X-BTW10-24-6 SN12-R	100	1	377076
6	3	EA	HEX NUT-HEAVY DUTY 3/8"	100	1	411752
7	3	EA	FENDER WASHER 3/8"	1000	1	313069
8	AS REQ'D	EA	STRUT HS-158-12/HDG 10' B2B	1	AS REQ'D	2007087





- REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON CABLE TRAY WIDTH.
- 2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
- 3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL & OF CABLE TRAY WHICH IS SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
- 4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
- 5. CABLE TRAY HORIZONTAL OFFSET FROM HS POST € = 0"



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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY BRACED CANTILEVER (MQ) STEEL

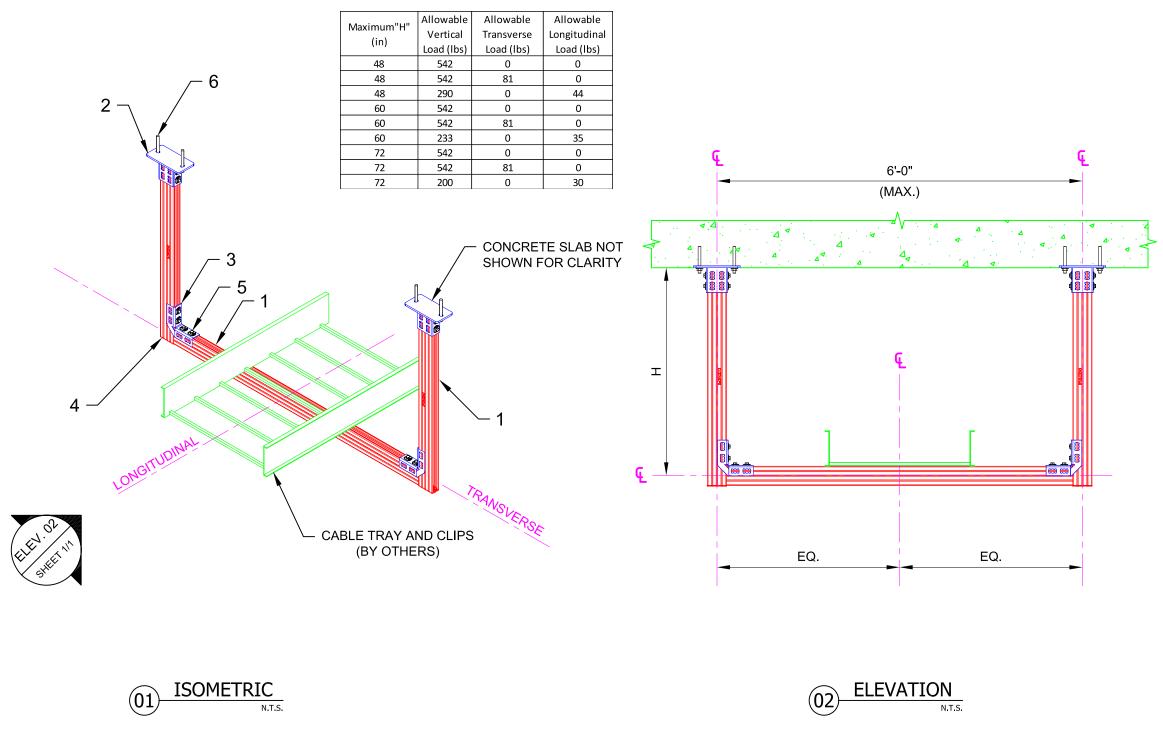
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AJV	ISE
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GAB	22 DEC 14

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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	AS REQ'D	EA	STRUT HS-158-12/HDG 10' B2B	1	AS REQ'D	2007087
2	2	EA	RAIL SUPPORT MQP-82	8	1	369652
3	2	EA	8-HOLE ANGLE MQW-8/90-F	10	1	304175
4	8	EA	CHANNEL END CAP MEK RED	50	1	244886
5	16	EA	CHANNEL CONNECTOR MQN-HDG PLUS	50	1	387779
6	4	EA	USE KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES

- 1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON CABLE TRAY WIDTH.
- 2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY TRAPEZE (MQ) CONCRETE

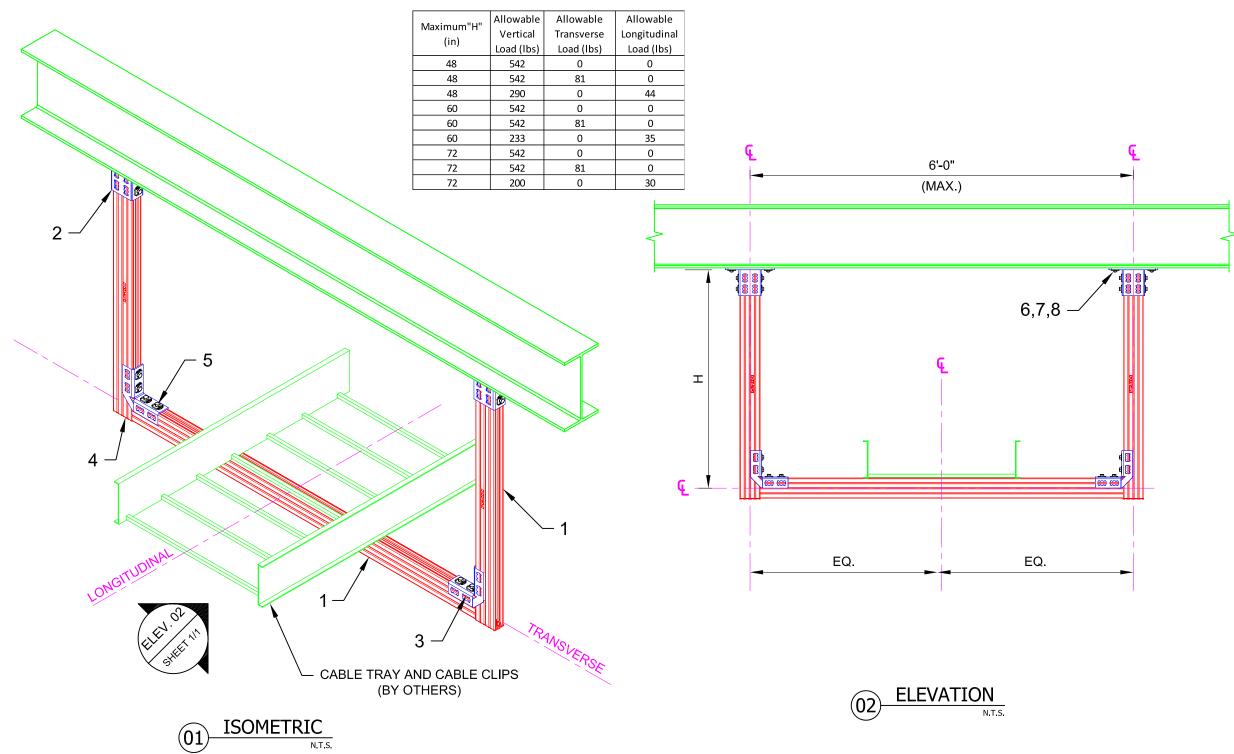
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DRAWN BY:	ISSUE DATE:
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SERVICE REQUEST NUMBER:

TD-CT-TR53-C

DRAWING NUMBER:	SHEET:
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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	AS REQ'D	EA	STRUT HS-158-12/HDG 10' B2B	1	AS REQ'D	2007087
2	2	EA	RAIL SUPPORT MQP-82	8	1	369652
3	2	EA	8-HOLE ANGLE MQW-8/90-F	10	1	304175
4	8	EA	CHANNEL END CAP MEK RED	50	1	244886
5	16	EA	CHANNEL CONNECTOR MQN-HDG PLUS	50	1	387779
6	4	EA	X-BTW10-24-6 SN12-R	100	1	377076
7	4	EA	HEX NUT-HEAVY DUTY 3/8"	100	1	411752
8	4	EA	FENDER WASHER 3/8"	1000	1	313069

- 1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON CABLE TRAY WIDTH.
- 2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
- 3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL € OF CABLE TRAY WHICH IS SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
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- 5. CABLE TRAY HORIZONTAL OFFSET FROM HS POST **€** = 0"



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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY TRAPEZE (MQ) STEEL

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 14

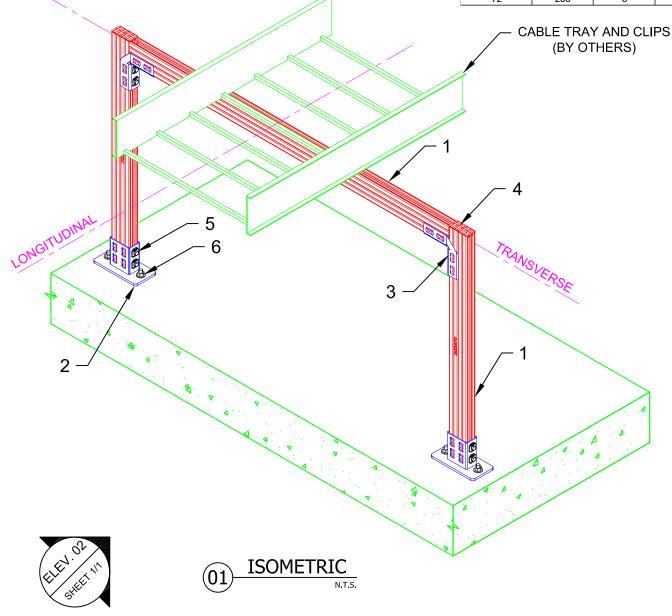
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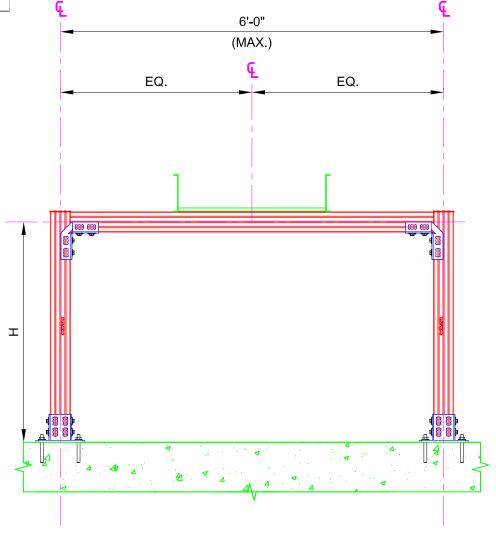
SERVICE REQUEST NUMBER:

TD-CT-TR53-S

DRAWING NUMBER:	SHEET:
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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	AS REQ'D	EA	STRUT HS-158-12/HDG 10' B2B	1	AS REQ'D	2007087
2	2	EA	RAIL SUPPORT MQP-82	8	1	369652
3	2	EA	8-HOLE ANGLE MQW-8/90-F	10	1	304175
4	8	EA	CHANNEL END CAP MEK RED	50	1	244886
5	16	EA	CHANNEL CONNECTOR MQN-HDG PLUS	50	1	387779
6	4	EA	USE KB3 OR KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES

- 1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON CABLE TRAY WIDTH
- 2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
- 3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL & OF CABLE TRAY WHICH IS SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
- 4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
- 5. CABLE TRAY HORIZONTAL OFFSET FROM HS POST € = 0"



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.

PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY GOALPOST (MQ) CONCRETE

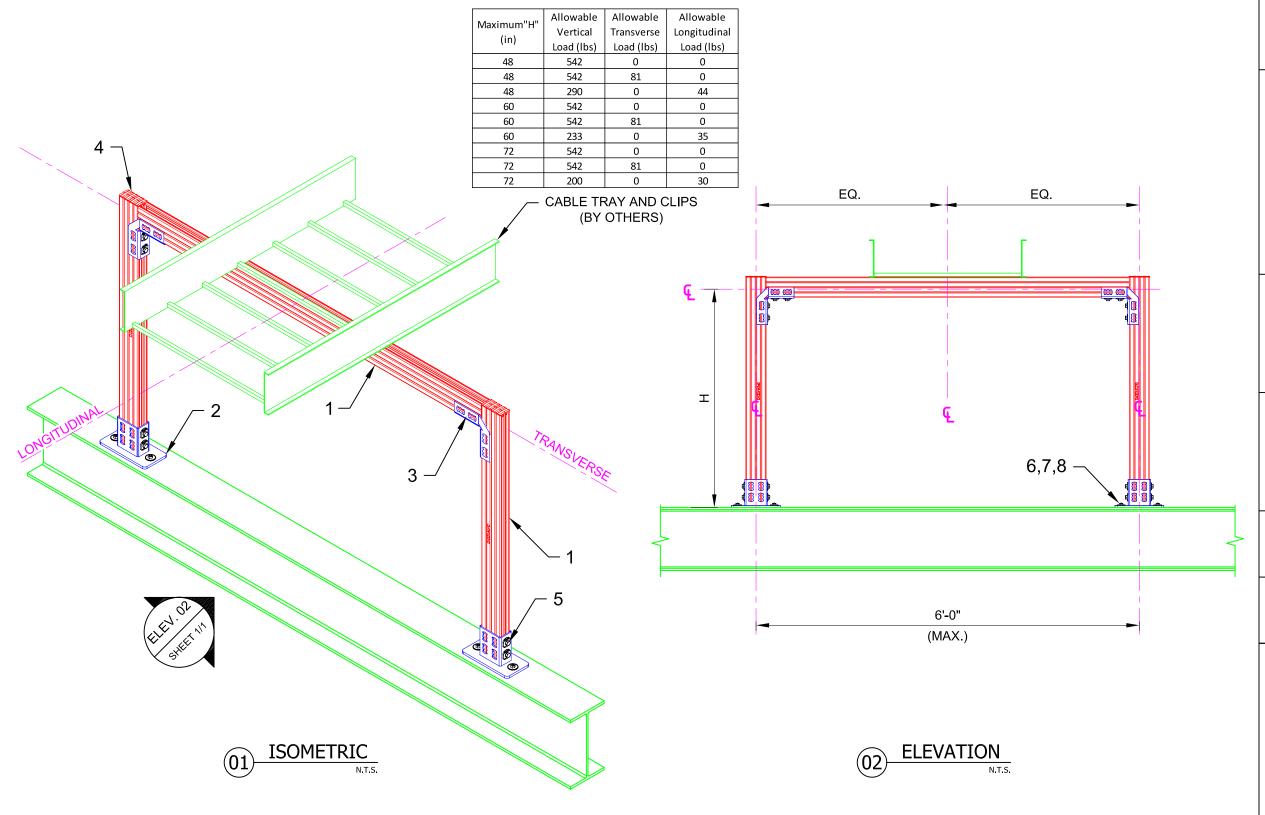
DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 14

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SERVICE REQUEST NUMBER:

TD-CT-GP54-C

DRAWING NUMBER:	SHEET:
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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	AS REQ'D	EA	STRUT HS-158-12/HDG 10' B2B	1	AS REQ'D	2007087
2	2	EA	RAIL SUPPORT MQP-82	8	1	369652
3	2	EA	8-HOLE ANGLE MQW-8/90-F	10	1	304175
4	8	EA	CHANNEL END CAP MEK RED	50	1	244886
5	16	EA	CHANNEL CONNECTOR MQN-HDG PLUS	50	1	387779
6	4	EA	X-BTW10-24-6 SN12-R	100	1	377076
7	4	EA	HEX NUT-HEAVY DUTY 3/8"	100	1	411752
8	4	EA	FENDER WASHER 3/8"	1000	1	313069

- 1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON CABLE TRAY WIDTH.
- 2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
- 3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL € OF CABLE TRAY WHICH IS SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
- 4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
- 5. CABLE TRAY HORIZONTAL OFFSET FROM HS POST € = 0"



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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY GOALPOST (MQ) STEEL

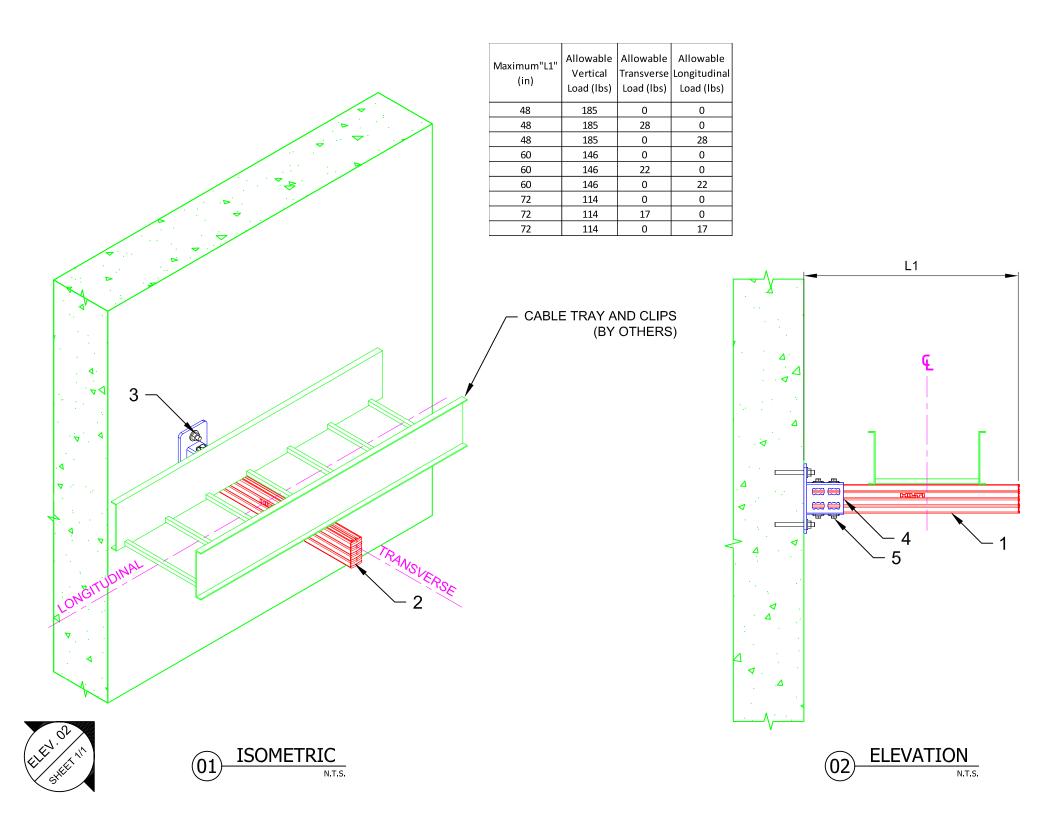
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	DRAWN BY:	ISSUE DATE:
	GAB	22 DEC 14

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SERVICE REQUEST NUMBER:

TD-CT-GP54-S

DRAWING NUMBER:	SHEET:
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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	AS REQ'D	EA	STRUT HS-158-12/HDG 10' B2B	1	AS REQ'D	2007087
2	4	EA	CHANNEL END CAP MEK RED	50	1	244886
3	2	EA	USE KB3 OR KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES
4	1	EA	RAIL SUPPORT MQP-82-F	1	1	304166
5	4	EA	CHANNEL CONNECTOR MQN-HDG PLUS	50	1	387779



- 1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON CABLE TRAY WIDTH.
- 2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
- 3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL & OF CABLE TRAY WHICH IS SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
- 4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
- 5. CABLE TRAY HORIZONTAL OFFSET FROM HS POST **\(\mathbb{L} = 0 \)**



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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY CANTILEVER (MQ) CONCRETE

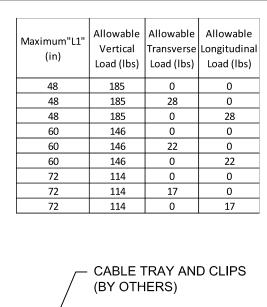
DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 14

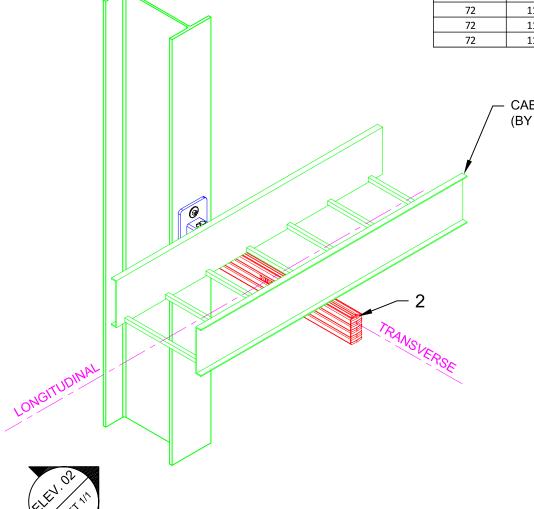
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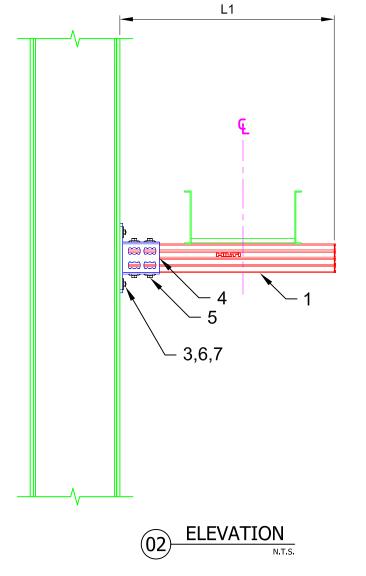
SERVICE REQUEST NUMBER:

TD-CT-C55-C

DRAWING NUMBER:	SHEET:
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No.	Unit Qty	Unit	Description	Box Qty	# Boxes	Item No.
	J 4.5				Needed	
1	AS REQ'D	EA	STRUT HS-158-12/HDG 10' B2B	1	AS REQ'D	2007087
2	4	EA	CHANNEL END CAP MEK RED	50	1	244886
3	2	EA	X-BTW10-24-6 SN12-R	100	1	377076
4	1	EA	RAIL SUPPORT MQP-82-F	1	1	304166
5	4	EA	CHANNEL CONNECTOR MQN-HDG PLUS	50	1	387779
6	4	EA	HEX NUT-HEAVY DUTY 3/8"	100	1	411752
7	4	EA	FENDER WASHER 3/8"	1000	1	313069

- 1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON CABLE TRAY WIDTH
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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

CABLE TRAY CANTILEVER (MQ) STEEL

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
GAB	22 DEC 14

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