

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	1	EA	CONNECTOR U-BOLT MIC-UB120-M16	6	1	304835
4	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
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

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 PIPE(S) WHICH ARE SITTING DIRECTLY ON TOP OF MI GIRDER, U.N.O.
- 3. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.



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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING BRACED CANTILEVER CONCRETE

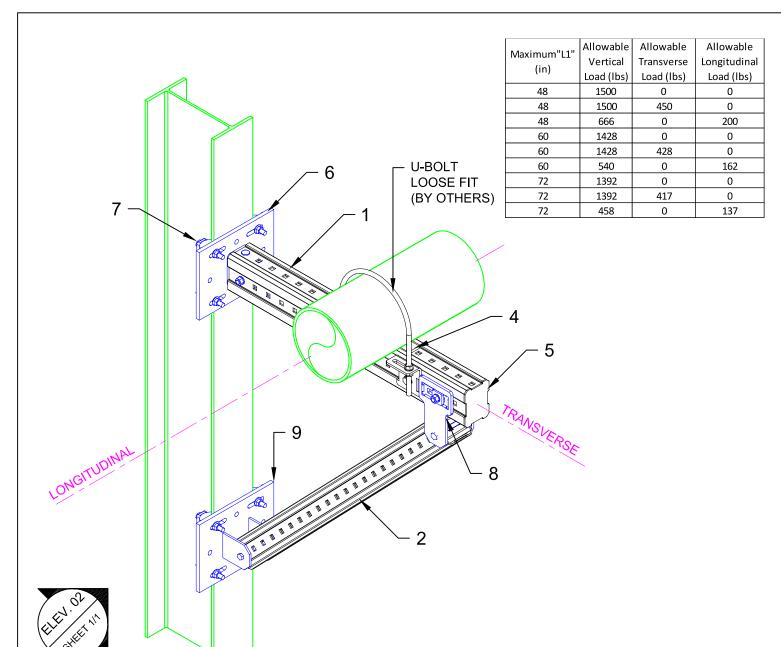
DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	02 DEC 14

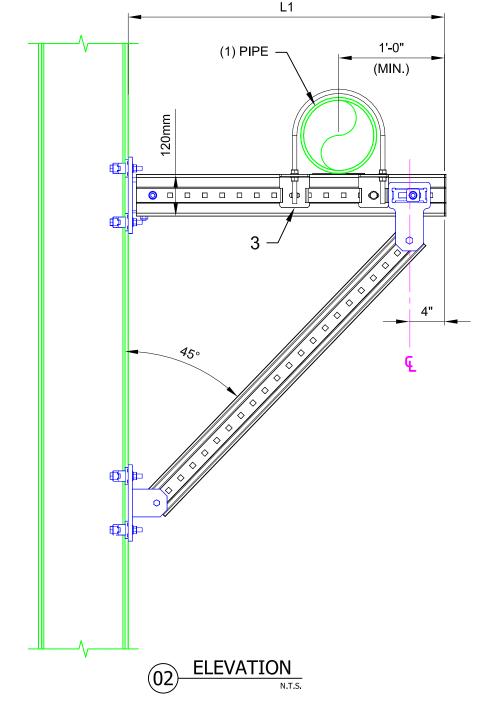
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All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the 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.

PROJECT NAME:

REVISIONS:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING BRACED CANTILEVER STEEL

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
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(01) ISOMETRIC N.T.S

MIC-S120-X

Beam Width Table

Boain Wiath 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

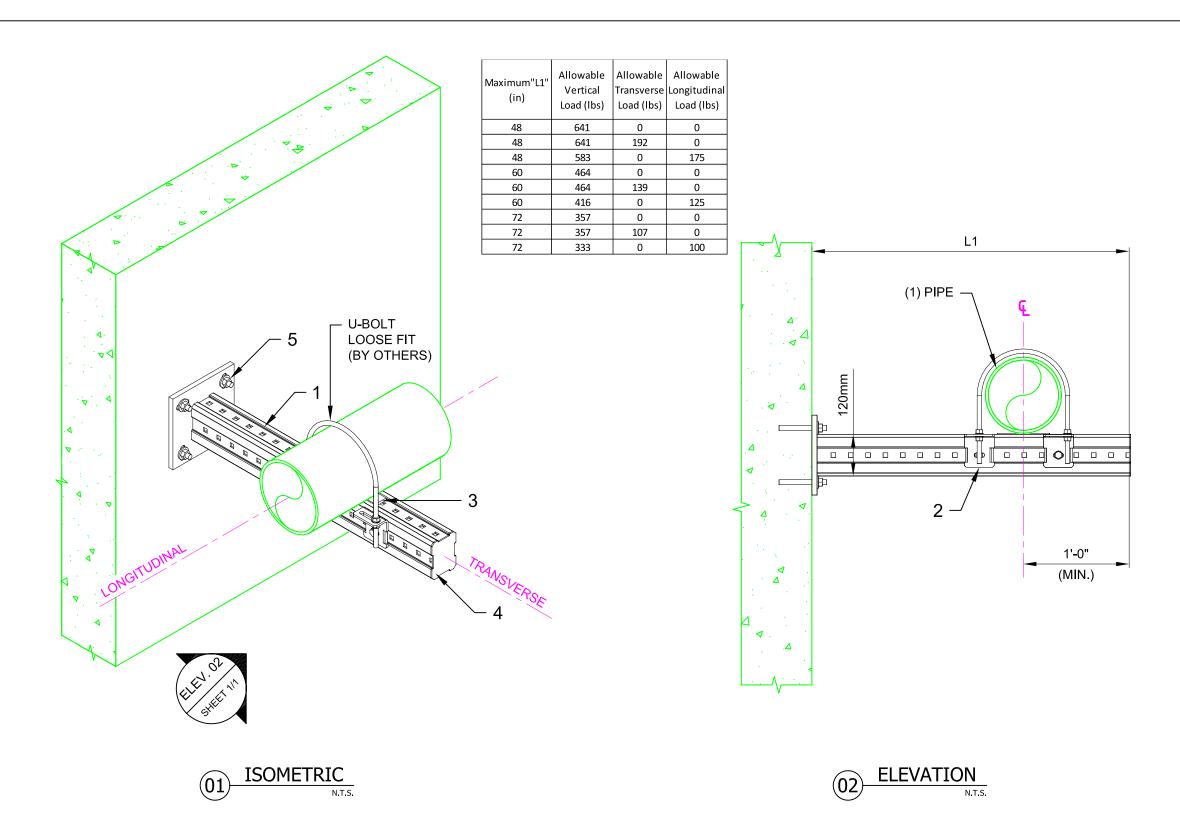
Beam Width Table

Χ	'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	1	EA	CONNECTOR U-BOLT MIC-UB120-M16	6	1	304835
4	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
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

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 PIPE(S) WHICH ARE SITTING DIRECTLY ON TOP OF MI GIRDER, U.N.O.
- 3. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.



	No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
	1	1	EA	CONNECTOR MIC-C120-D-2000 WELDED BRACKET	1	1	270472
ſ	2	1	EA	CONNECTOR U-BOLT MIC-UB90-M16	6	1	304834
ſ	3	1	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
ſ	4	1	EA	GIRDER END CAP MIA-EC120	25	1	432078
	5	5	EA	USE KB3 OR KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES

NOTE(S):

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TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING CANTILEVER CONCRETE

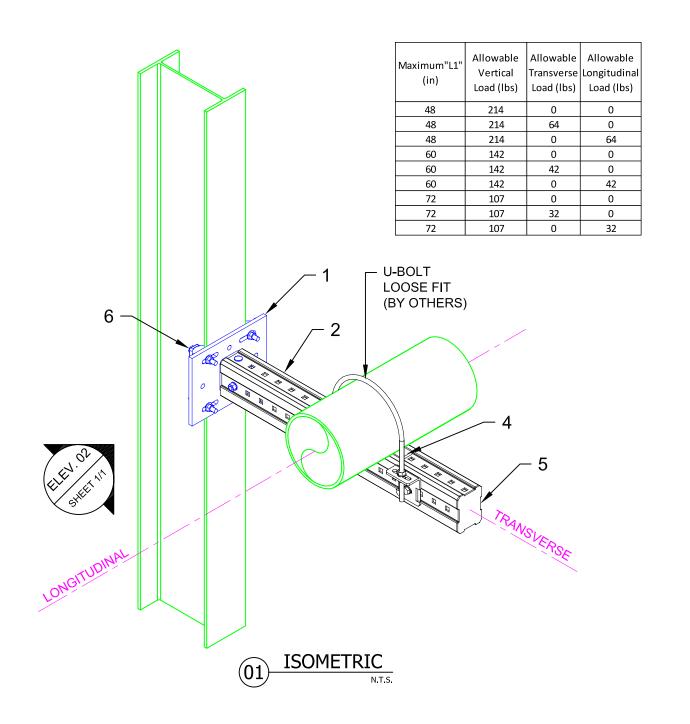
DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	02 DEC 14

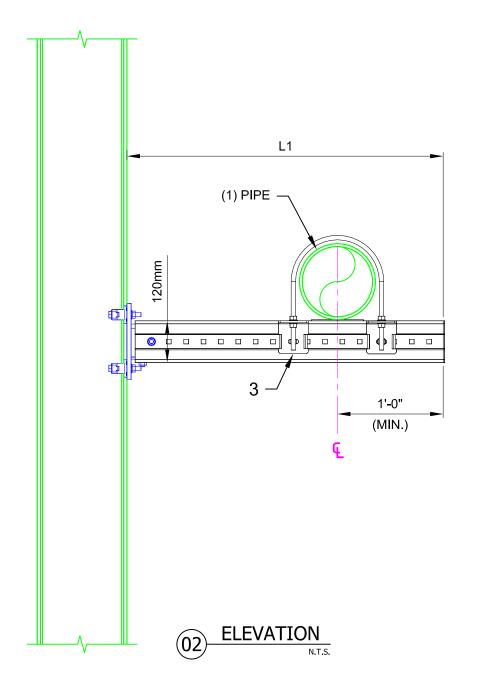
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SERVICE REQUEST NUMBER:

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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	A 2.9 to 6.5 304	
B 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	2	EA	CONNECTOR MIC-S120-X STEEL (SEE TABLE)	2	1	VARIES
	2	AS REQ'D	EA	GIRDER MI-120 3M	1	AS REQ'D	304800
	3	1	EA	CONNECTOR U-BOLT MIC-UB90-M16	6	1	304834
Ī	4	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
	5	2	EA	GIRDER END CAP MIA-EC120	25	1	432078
	6	8	EA	BEAM CLAMP MI-SGC-M12	16	1	233859

NOTE(S)

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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING CANTILEVER STEEL

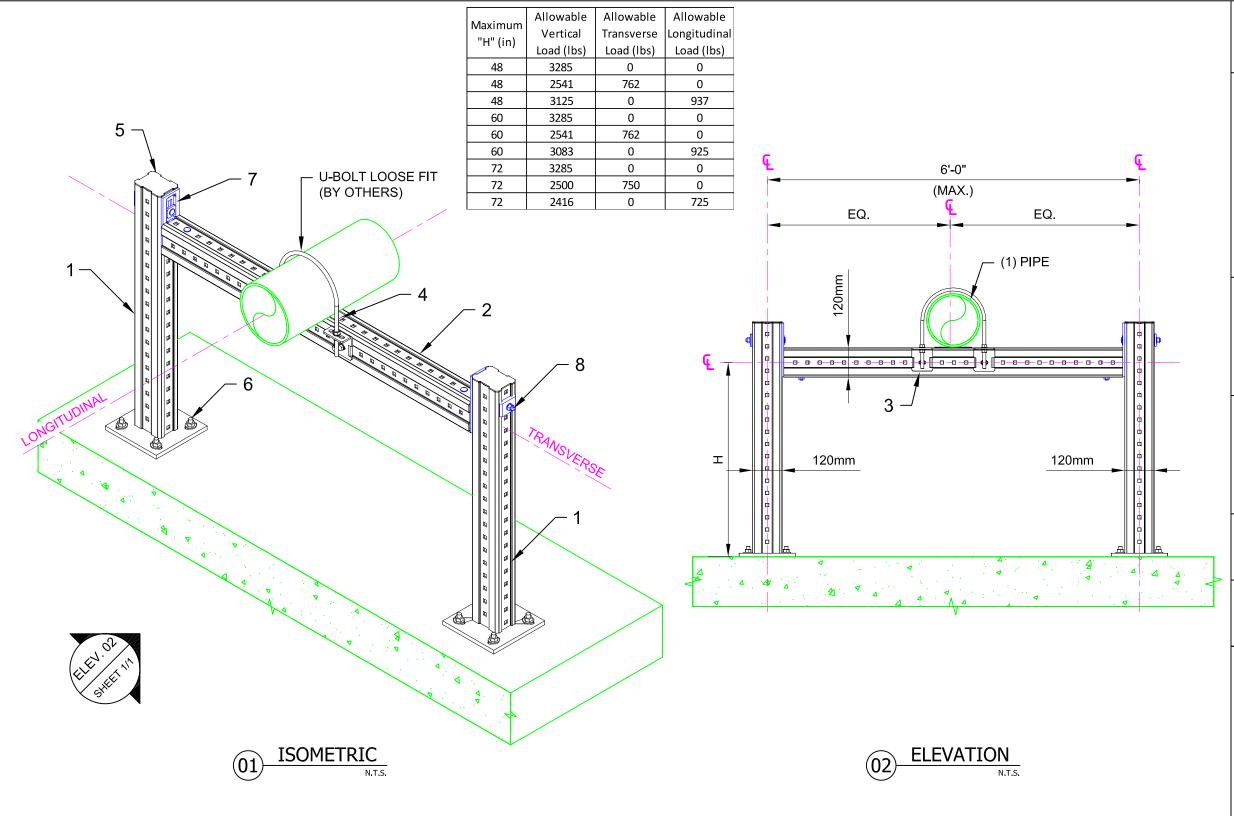
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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	2	EA	CONNECTOR MIC-C120-D-2000 WELDED BRACKET	1	2	270472
2	AS REQ'D	EA	GIRDER MI-120 3M	1	AS REQ'D	304800
3	1	EA	CONNECTOR U-BOLT MIC-UB90-M16	6	1	304834
4	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
5	2	EA	GIRDER END CAP MIA-EC120	25	1	432078
6	8	EA	USE KB3 OR KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES
7	2	EA	CONNECTOR MIC-120-U	4	1	304804
8	2	EA	EASYHAND SCREW MIA-EH120	10	1	304888

NOTE(S):

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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING GOALPOST CONCRETE

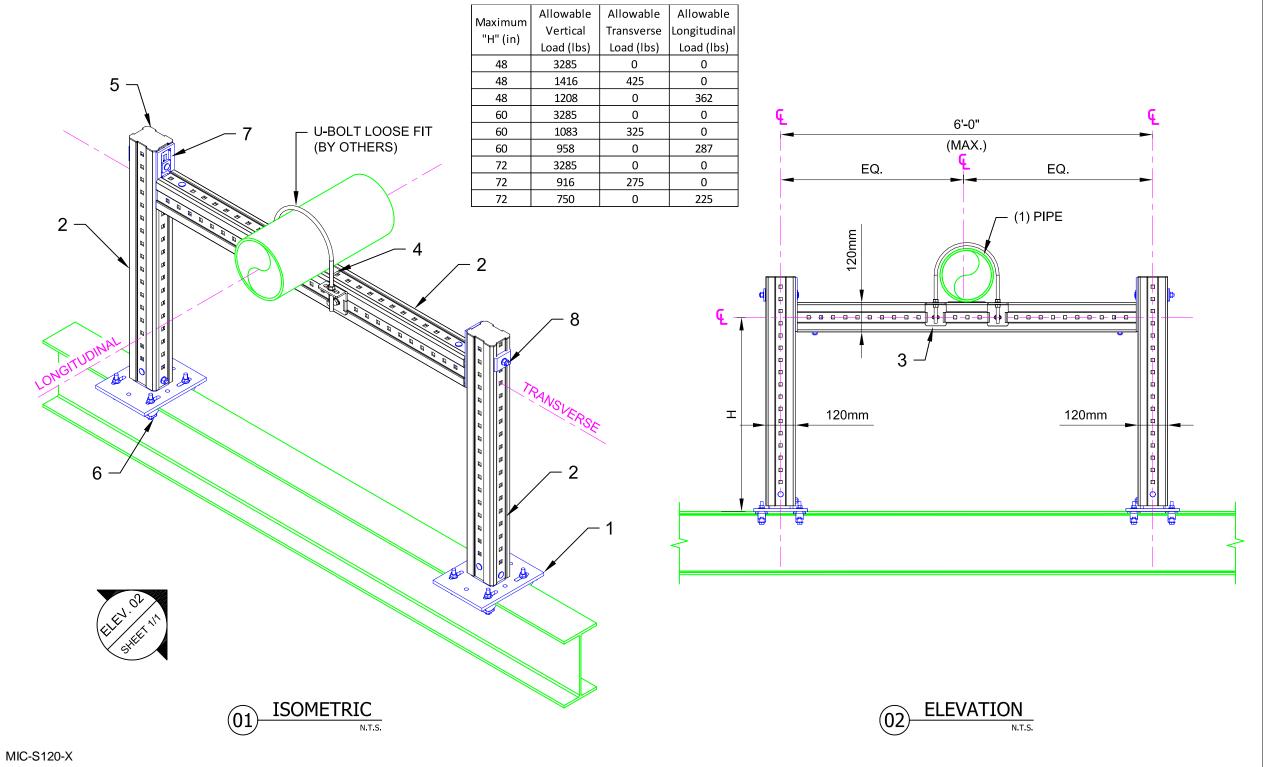
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Beam Width Table

X	'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	2	EA	CONNECTOR MIC-S120-X STEEL (SEE TABLE)	2	1	VARIES
	2	AS REQ'D	EA	GIRDER MI-120 3M	1	AS REQ'D	304800
	3	1	EA	CONNECTOR U-BOLT MIC-UB90-M16	6	1	304834
Ī	4	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
	5	2	EA	GIRDER END CAP MIA-EC120	25	1	432078
	6	8	EA	BEAM CLAMP MI-SGC-M12	16	1	233859
Ī	7	2	EA	CONNECTOR MIC-120-U	4	1	304804
	8	2	EA	EASYHAND SCREW MIA-EH120	10	1	304888

NOTE(S):

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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING GOALPOST STEEL

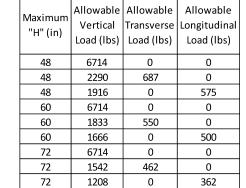
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AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	02 DEC 14

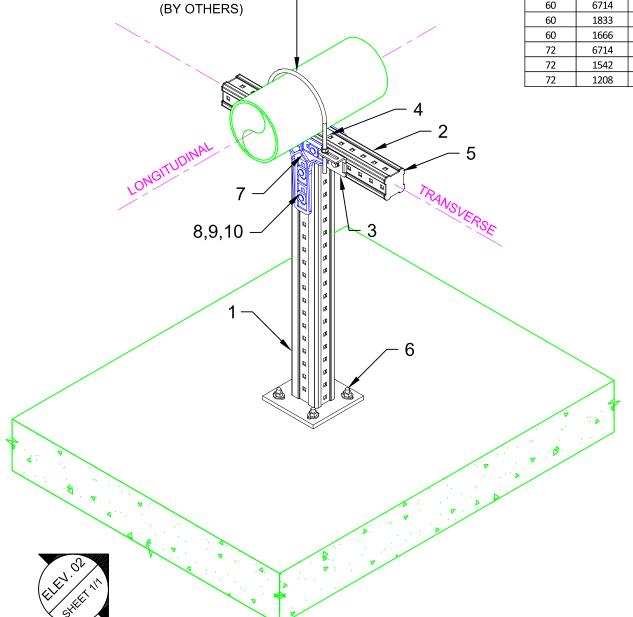
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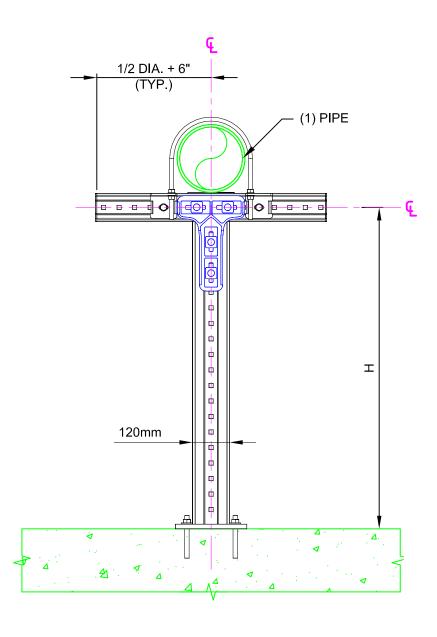




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No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	1	EA	CONNECTOR MIC-C120-D-2000 WELDED BRACKET	1	1	270472
2	AS REQ'D	EA	GIRDER MI-90 3M	1	AS REQ'D	304798
3	1	EA	CONNECTOR U-BOLT MIC-UB90-M16	6	1	304834
4	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
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





NOTE(S):

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- 3. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
- 4. PIPE HORIZONTAL OFFSET FROM MI POST € = 0"



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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING T-POST CONCRETE

DESIGNED BY:	REVIEWED BY:	
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DRAWN BY:	ISSUE DATE:	
HAM	02 DEC 14	

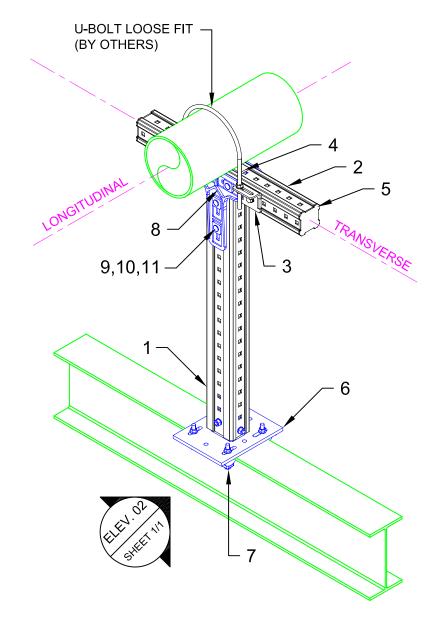
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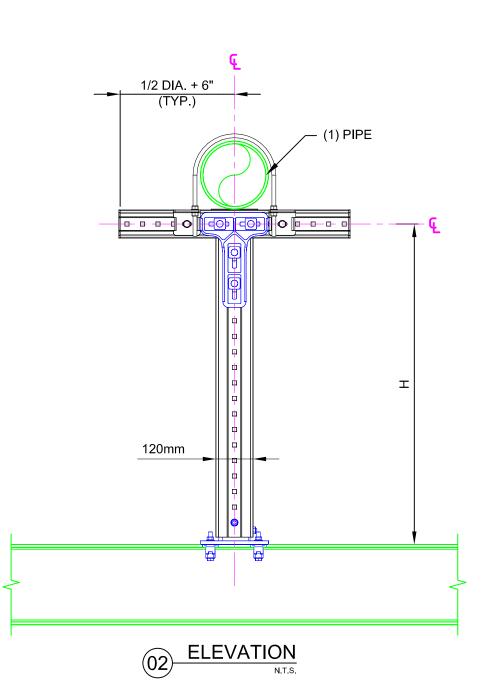
Maximum "H" (in)	Allowable Vertical Load (lbs)	Allowable Transverse Load (lbs)	Allowable Longitudinal Load (lbs)
48	6714	0	0
48	790	237	0
48	583	0	175
60	6714	0	0
60	625	187	0
60	458	0	137
72	6714	0	0
72	500	150	0
72	375	0	112



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	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	1	EA	CONNECTOR U-BOLT MIC-UB90-M16	6	1	304834
4	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
5	2	EA	GIRDER END CAP MIA-EC90	25	1	432077
6	1	EA	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	4	EA	PREVAIL TORQUE HEX NUT M12-F-SL-WS 3/4"	100	1	382897
11	4	EA	TOOTHED PLATE MIA-TP	20	1	305707



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PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING T-POST STEEL

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	02 DEC 14

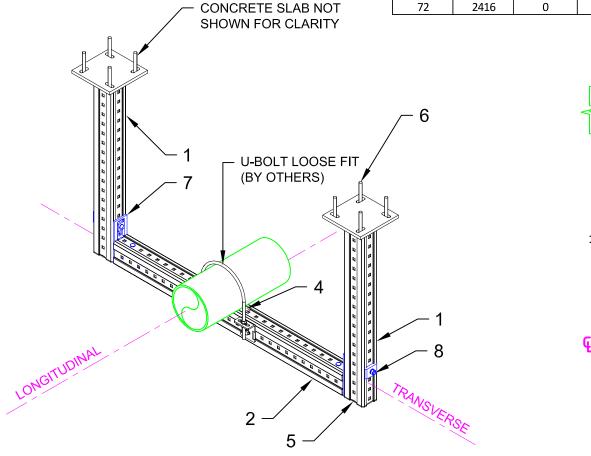
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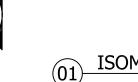
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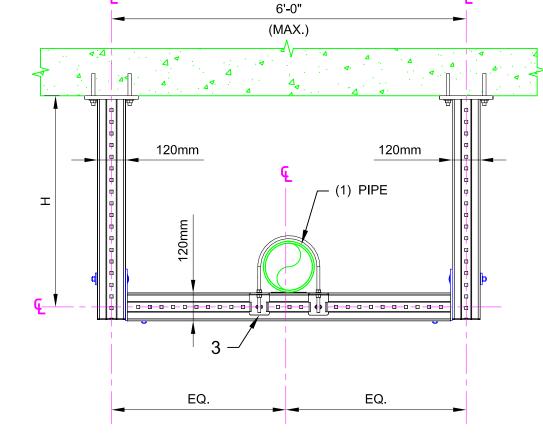
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Maximum	Allowable	Allowable	Allowable
	Vertical	Transverse	Longitudinal
"H" (in)	Load (lbs)	Load (lbs)	Load (lbs)
48	3285	0	0
48	2541	762	0
48	3125	0	937
60	3285	0	0
60	2541	762	0
60	3083	0	925
72	3285	0	0
72	2500	750	0
72	2416	0	725









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	1	EA	CONNECTOR U-BOLT MIC-UB90-M16	6	1	304834
4	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
5	2	EA	GIRDER END CAP MIA-EC120	25	1	432078
6	8	EA	USE KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES
7	2	EA	CONNECTOR MIC-120-U	4	1	304804
8	2	EΑ	EASYHAND SCREW MIA-EH120	10	1	304888

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 PIPE(S) WHICH ARE SITTING DIRECTLY ON TOP OF MI GIRDER, U.N.O.
- 3. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.



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:

PIPING TRAPEZE CONCRETE

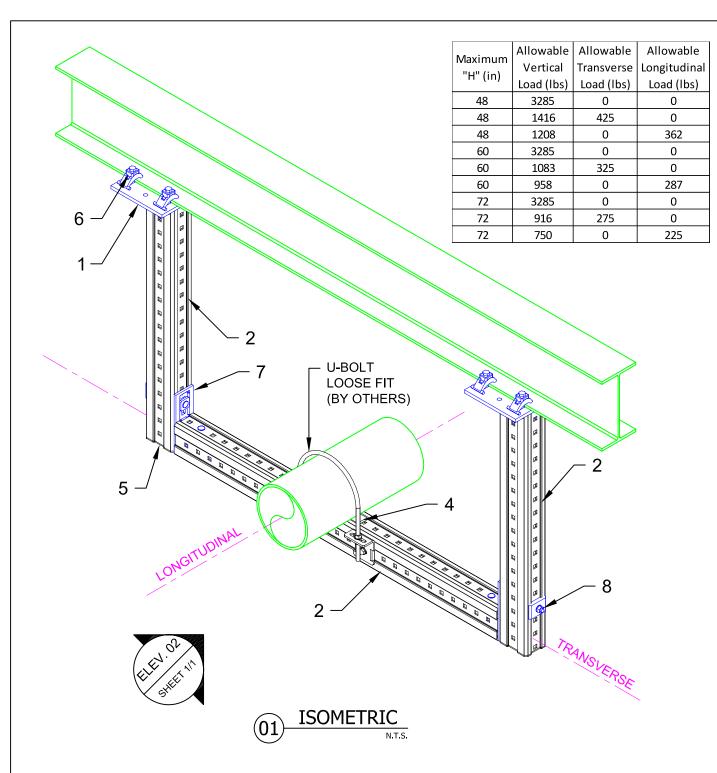
DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	02 DEC 2014

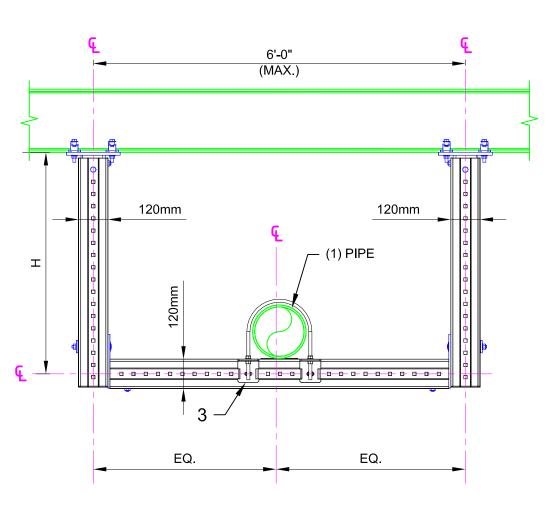
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SERVICE REQUEST NUMBER:

TD-P-TR03-C

DRAWING NUMBER:	SHEET:
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02) ELEVATIO

MIC-S120-X

Beam Width Table

X	'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	2	EA	CONNECTOR MIC-S120-X STEEL (SEE TABLE)	2	1	VARIES
2	AS REQ'D	EA	GIRDER MI-120 3M	1	AS REQ'D	304800
3	1	EA	CONNECTOR U-BOLT MIC-UB90-M16	6	1	304834
4	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
5	2	EA	GIRDER END CAP MIA-EC120	25	1	432078
6	8	EA	BEAM CLAMP MI-SGC-M12	16	1	233859
7	2	EA	CONNECTOR MIC-120-U	4	1	304804
8	2	EA	EASYHAND SCREW MIA-EH120	10	1	304888

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 PIPE(S) WHICH ARE SITTING DIRECTLY ON TOP OF MI GIRDER, U.N.O.
- 3. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.



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PROJECT NAME:

REVISIONS:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING TRAPEZE STEEL

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	02 DEC 2014

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SERVICE REQUEST NUMBER:

TD-P-TR03-S

DRAWING NUMBER:	SHEET:
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