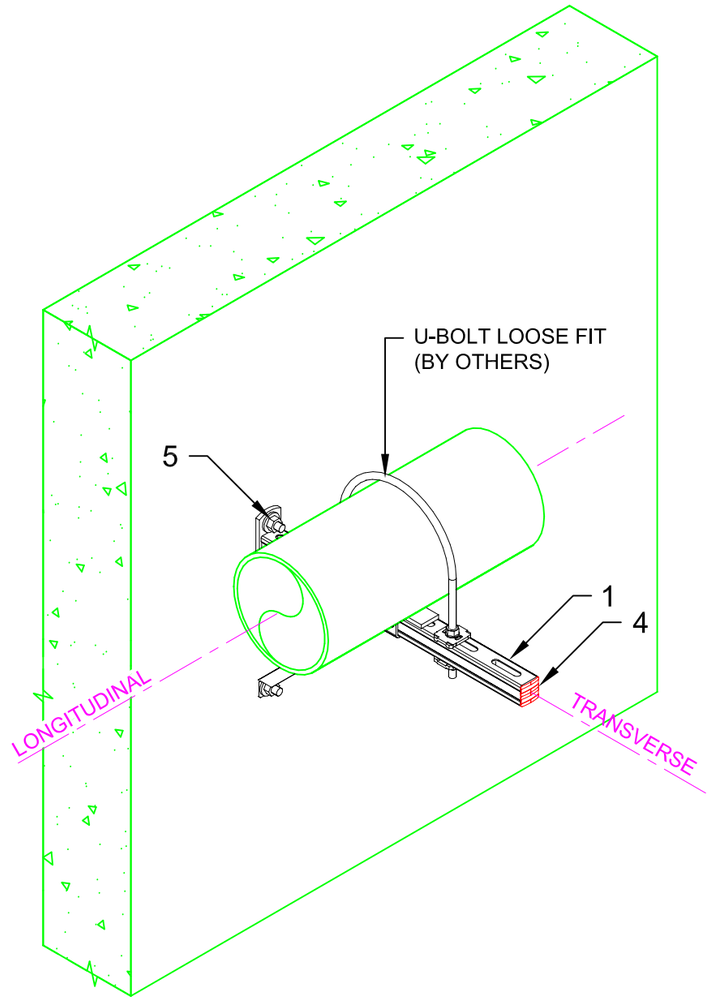
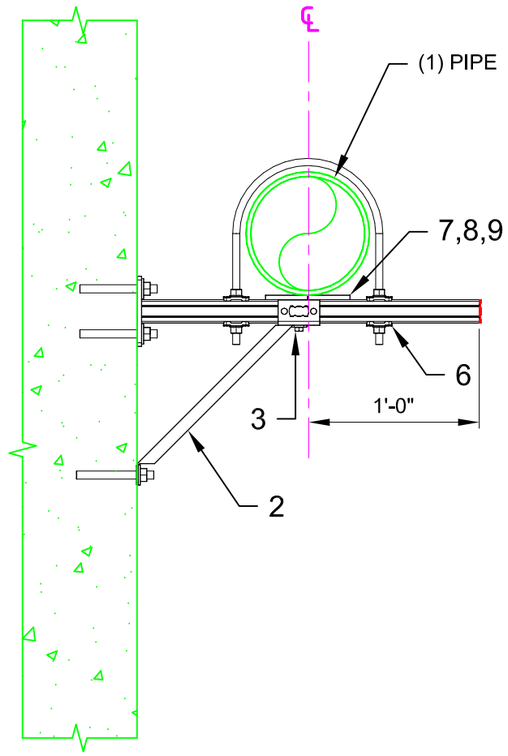
Maximum Pipe Diameter (in)	Allowable Vertical Load (lbs)	Allowable Transverse Load (lbs)	Allowable Longitudinal Load (lbs)
4	163	0	0
4	163	24	0
4	163	0	24
8	501	0	0
8	501	75	0
8	501	0	75



ELEV. 02
SHEET 1/1

01 ISOMETRIC
N.T.S.



02 ELEVATION
N.T.S.

No.	Unit Qty	Unit	Description	Box Qty	# Boxes Needed	Item No.
1	1	EA	BRACKET MQK-41/600-F	1	1	304117
2	1	EA	ANGLE BRACE MQK-SK-F	10	1	304129
3	1	EA	CHANNEL CONNECTOR MQN-HDG PLUS	50	1	387779
4	2	EA	CHANNEL END CAP MEK RED	50	1	244886
5	3	EA	USE KB3 OR KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES
6	2	EA	BASE PLATE MQZ-L1/2"	20	1	370633
7	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
8	2	EA	3/8" CHANNEL NUT/NO SPRING 100/BOX	100	1	311937
9	2	EA	COUNTERSUNK BOLT 3/8 X 1	VARIES	VARIES	SPECIAL

NOTE(S):

1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON PIPE DIAMETER.
2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL ℄ OF PIPE(S) WHICH ARE SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
5. MAX. SUPPORT SPACING = 10'-0"
6. ABOVE LOADING BASED ON SCH. 40 PIPE FILLED WITH WATER

PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING
BRACED CANTILEVER (MQ)
CONCRETE

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	19 FEB 15

REVISIONS:

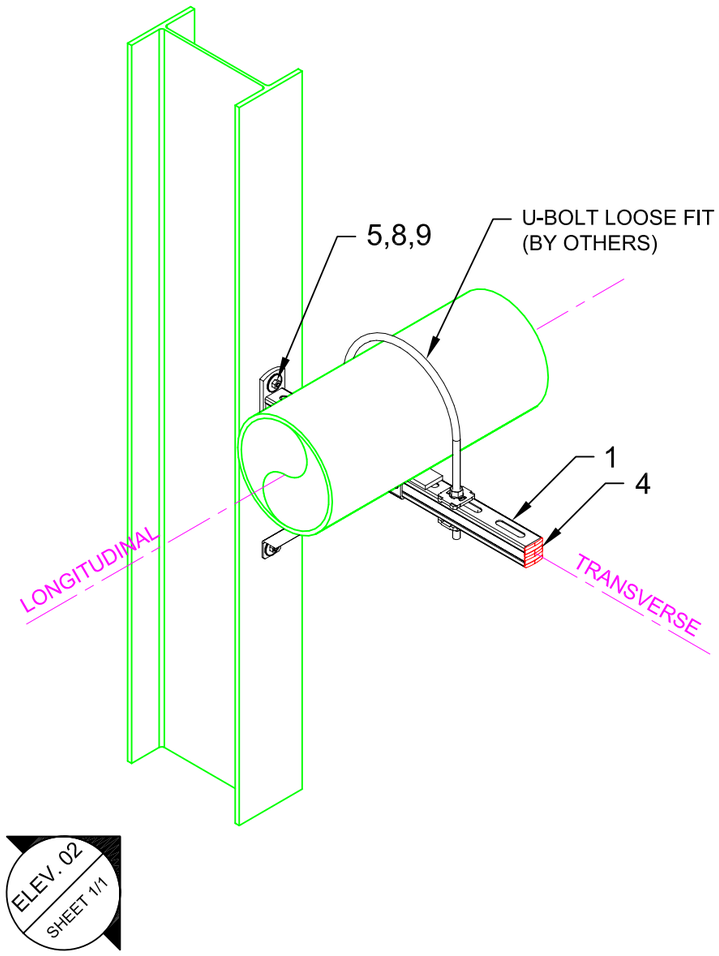
NO:	DESCRIPTION:	DATE:
A	ORIGINAL ISSUE	19 FEB 15

SERVICE REQUEST NUMBER:

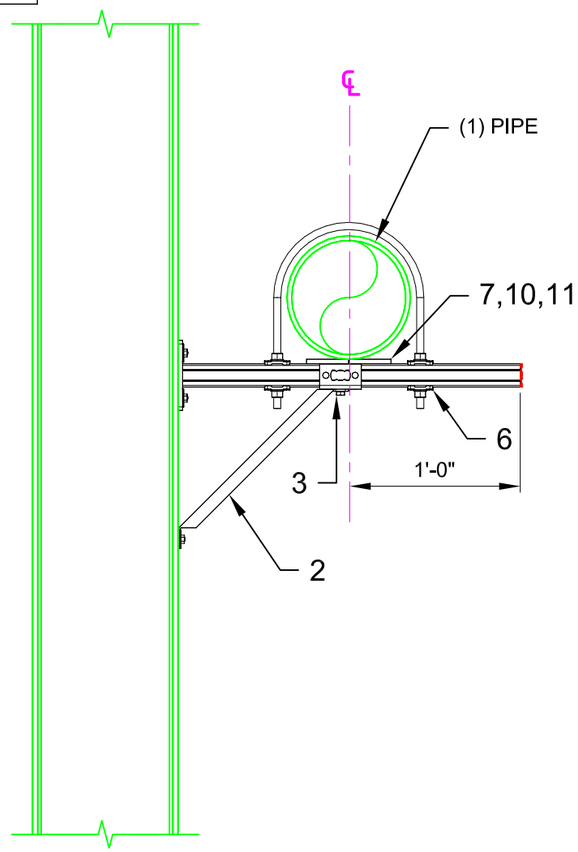
TD-P-BC52-C

DRAWING NUMBER:	SHEET:
01	1/1

Maximum Pipe Diameter (in)	Allowable Vertical Load (lbs)	Allowable Transverse Load (lbs)	Allowable Longitudinal Load (lbs)
4	163	0	0
4	163	24	0
4	163	0	24
8	501	0	0
8	501	75	0
8	501	0	75



01 ISOMETRIC
N.T.S.



02 ELEVATION
N.T.S.

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
7	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
8	2	EA	MQV-UB (SPECIAL #304884)	VARIES	VARIES	SPECIAL
9	2	EA	HEX HEAD BOLT 1/2" x 1-1/4"	50	1	411767
10	2	EA	WASHER 1/2"	100	1	411758
11	2	EA	WING NUT MQM-F1/2"-F	25	1	304137
12	2	EA	3/8" CHANNEL NUT/NO SPRING 100/BOX	100	1	311937
13	2	EA	COUNTERSUNK BOLT 3/8 X 1	VARIES	VARIES	SPECIAL

NOTE(S):

1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON PIPE DIAMETER.
2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL ℄ OF PIPE(S) WHICH ARE SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
5. MAX. SUPPORT SPACING = 10'-0"
6. ABOVE LOADING BASED ON SCH. 40 PIPE FILLED WITH WATER

PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING
BRACED CANTILEVER (MQ)
STEEL

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	19 FEB 15

REVISIONS:

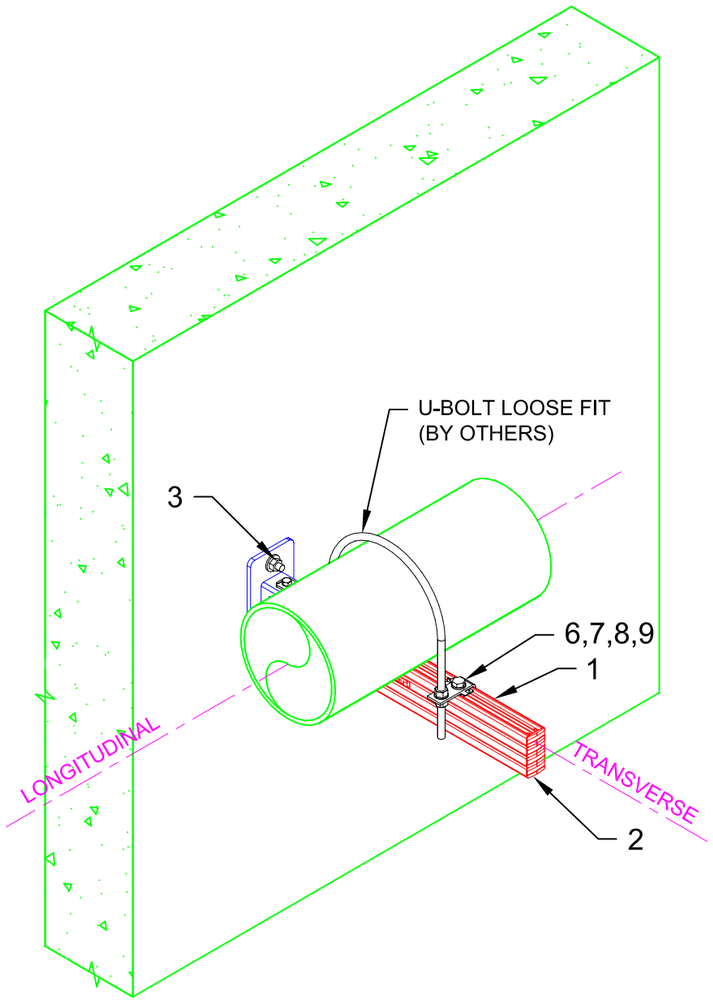
NO:	DESCRIPTION:	DATE:
A	ORIGINAL ISSUE	19 FEB 15

SERVICE REQUEST NUMBER:

TD-P-BC52-S

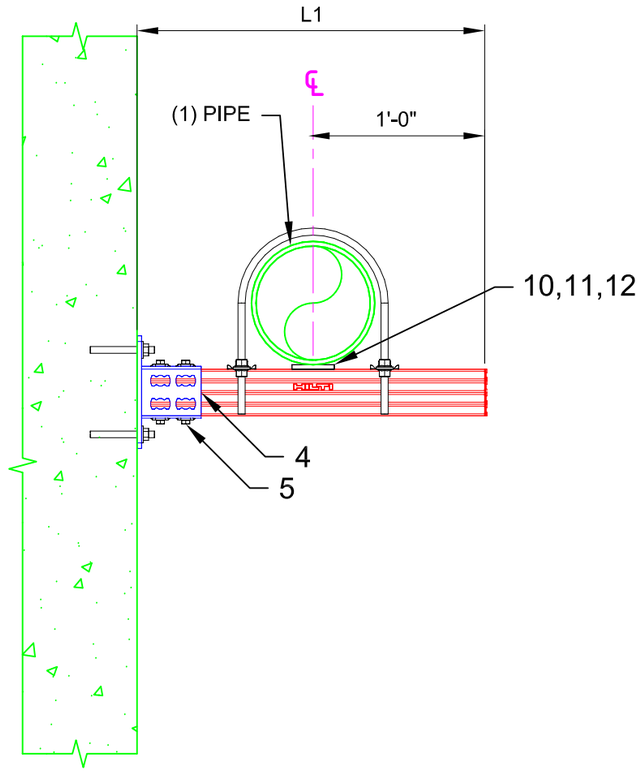
DRAWING NUMBER:	SHEET:
01	1/1

Maximum Pipe Diameter (in)	Allowable Vertical Load (lbs)	Allowable Transverse Load (lbs)	Allowable Longitudinal Load (lbs)	Maximum"L1" (in)
4	163	0	0	36
4	163	24	0	36
4	163	0	24	36



ELEV. 02
SHEET 1/1

01 ISOMETRIC
N.T.S.



02 ELEVATION
N.T.S.

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
6	2	EA	MQV-UB (SPECIAL #304884)	VARIES	VARIES	SPECIAL
7	2	EA	HEX HEAD BOLT 1/2" x 1-1/4"	50	1	411767
8	2	EA	WASHER 1/2"	100	1	411758
9	2	EA	WING NUT MQM-F1/2"-F	25	1	304137
10	1	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
11	1	EA	3/8" CHANNEL NUT/NO SPRING 100/BOX	100	1	311937
12	1	EA	COUNTERSUNK BOLT 3/8 X 1	VARIES	VARIES	SPECIAL

NOTE(S):

1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON PIPE DIAMETER.
2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL ℄ OF PIPE(S) WHICH ARE SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
5. MAX. SUPPORT SPACING = 10'-0"
6. ABOVE LOADING BASED ON SCH. 40 PIPE FILLED WITH WATER

PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING
CANTILEVER (MQ)
CONCRETE

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	19 FEB 15

REVISIONS:

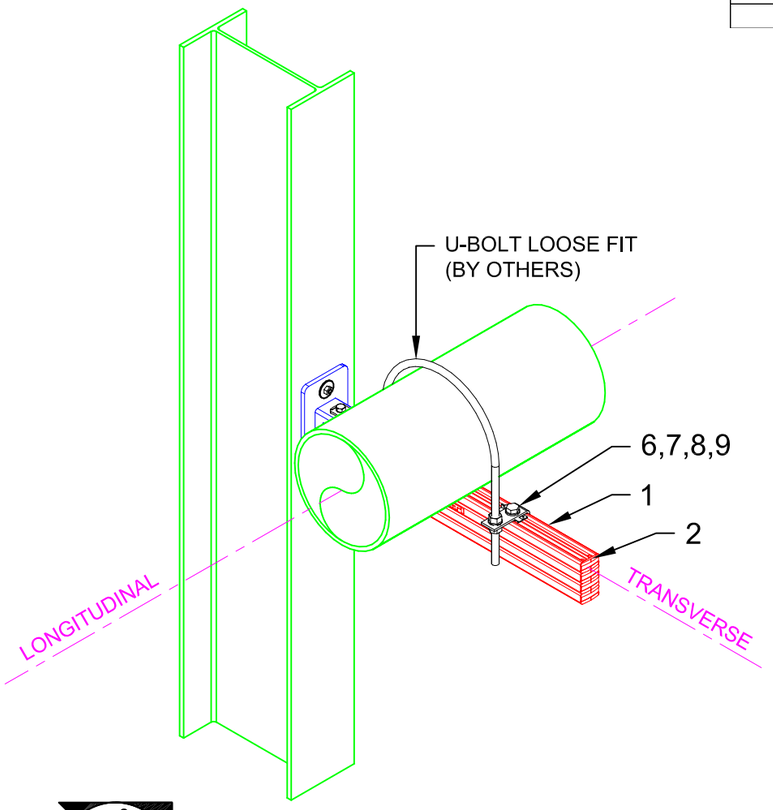
NO:	DESCRIPTION:	DATE:
A	ORIGINAL ISSUE	19 FEB 15

SERVICE REQUEST NUMBER:

TD-P-C55-C

DRAWING NUMBER:	SHEET:
01	1/1

Maximum Pipe Diameter (in)	Allowable Vertical Load (lbs)	Allowable Transverse Load (lbs)	Allowable Longitudinal Load (lbs)	Maximum"L1" (in)
4	163	0	0	36
4	163	24	0	36
4	163	0	24	36



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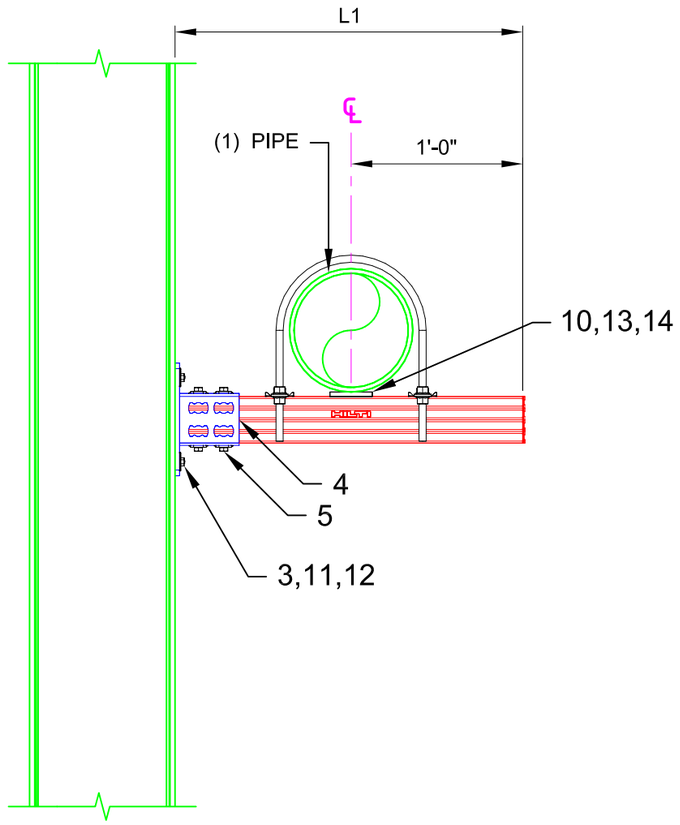


02 ELEVATION
N.T.S.

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	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	2	EA	MQV-UB (SPECIAL #304884)	VARIES	VARIES	SPECIAL
7	2	EA	HEX HEAD BOLT 1/2" x 1-1/4"	50	1	411767
8	2	EA	WASHER 1/2"	100	1	411758
9	2	EA	WING NUT MQM-F1/2"-F	25	1	304137
10	1	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
11	2	EA	HEX NUT-HEAVY DUTY 3/8"	100	1	411752
12	2	EA	WASHER 3/8"	200	1	411757
13	1	EA	3/8" CHANNEL NUT/NO SPRING 100/BOX	100	1	311937
14	1	EA	COUNTERSUNK BOLT 3/8 X 1	VARIES	VARIES	SPECIAL

NOTE(S):

1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON PIPE DIAMETER.
2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL ℄ OF PIPE(S) WHICH ARE SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
5. MAX. SUPPORT SPACING = 10'-0"
6. ABOVE LOADING BASED ON SCH. 40 PIPE FILLED WITH WATER

PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING
CANTILEVER (MQ)
STEEL

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	19 FEB 15

REVISIONS:

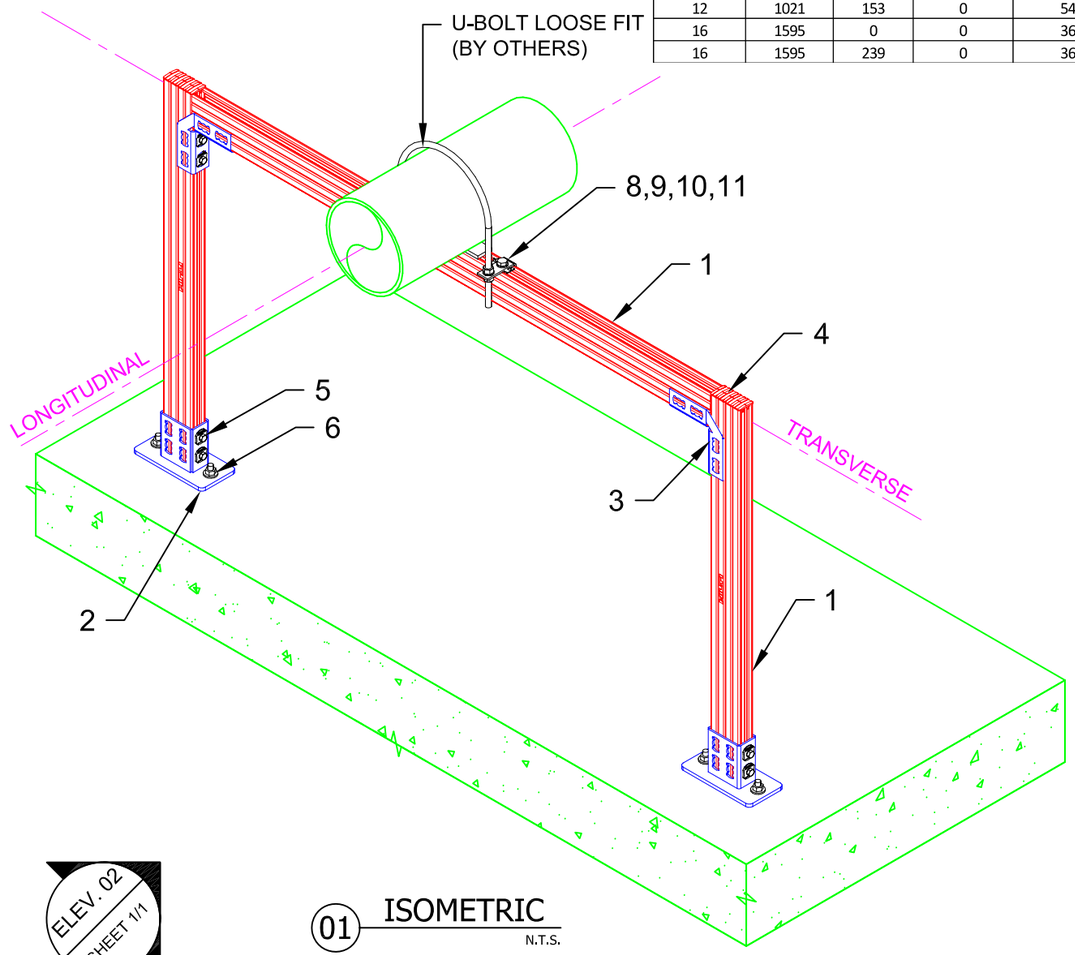
NO:	DESCRIPTION:	DATE:
A	ORIGINAL ISSUE	19 FEB 15

SERVICE REQUEST NUMBER:

TD-P-C55-S

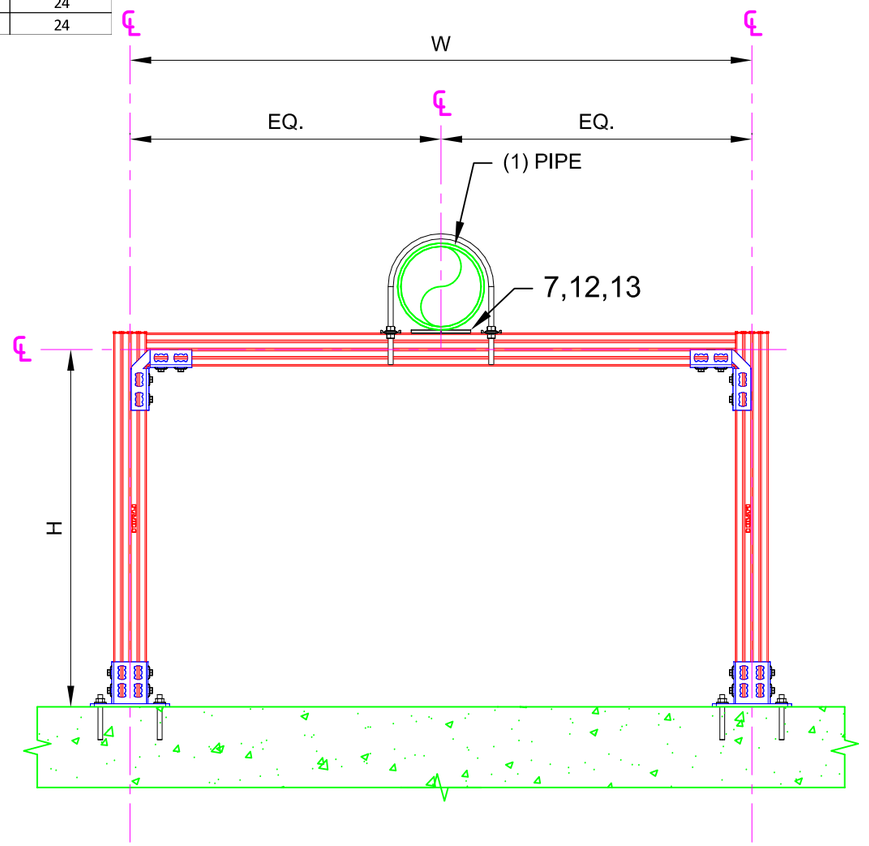
DRAWING NUMBER:	SHEET:
01	1/1

Maximum Pipe Diameter (in)	Allowable Vertical Load (lbs)	Allowable Transverse Load (lbs)	Allowable Longitudinal Load (lbs)	Maximum"H" (in)	Maximum"W" (in)
4	163	0	0	72	72
4	163	24	0	72	72
4	163	0	24	72	72
8	501	0	0	72	72
8	501	75	0	72	72
8	501	0	75	24	36
12	1021	0	0	54	36
12	1021	153	0	54	36
16	1595	0	0	36	24
16	1595	239	0	36	24



ELEV. 02
SHEET 1/1

01 ISOMETRIC
N.T.S.



02 ELEVATION
N.T.S.

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
7	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
8	2	EA	MQV-UB (SPECIAL #304884)	VARIES	VARIES	SPECIAL
9	2	EA	HEX HEAD BOLT 1/2" x 1-1/4"	50	1	411767
10	2	EA	WASHER 1/2"	100	1	411758
11	2	EA	WING NUT MQM-F1/2"-F	25	1	304137
12	2	EA	3/8" CHANNEL NUT/NO SPRING 100/BOX	100	1	311937
13	2	EA	COUNTERSUNK BOLT 3/8 X 1	VARIES	VARIES	SPECIAL

NOTE(S):

1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON PIPE DIAMETER.
2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL ℄ OF PIPE(S) WHICH ARE SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
5. MAX. SUPPORT SPACING = 10'-0"
6. ABOVE LOADING BASED ON SCH. 40 PIPE FILLED WITH WATER

PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING
GOALPOST (MQ)
CONCRETE

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	19 FEB 15

REVISIONS:

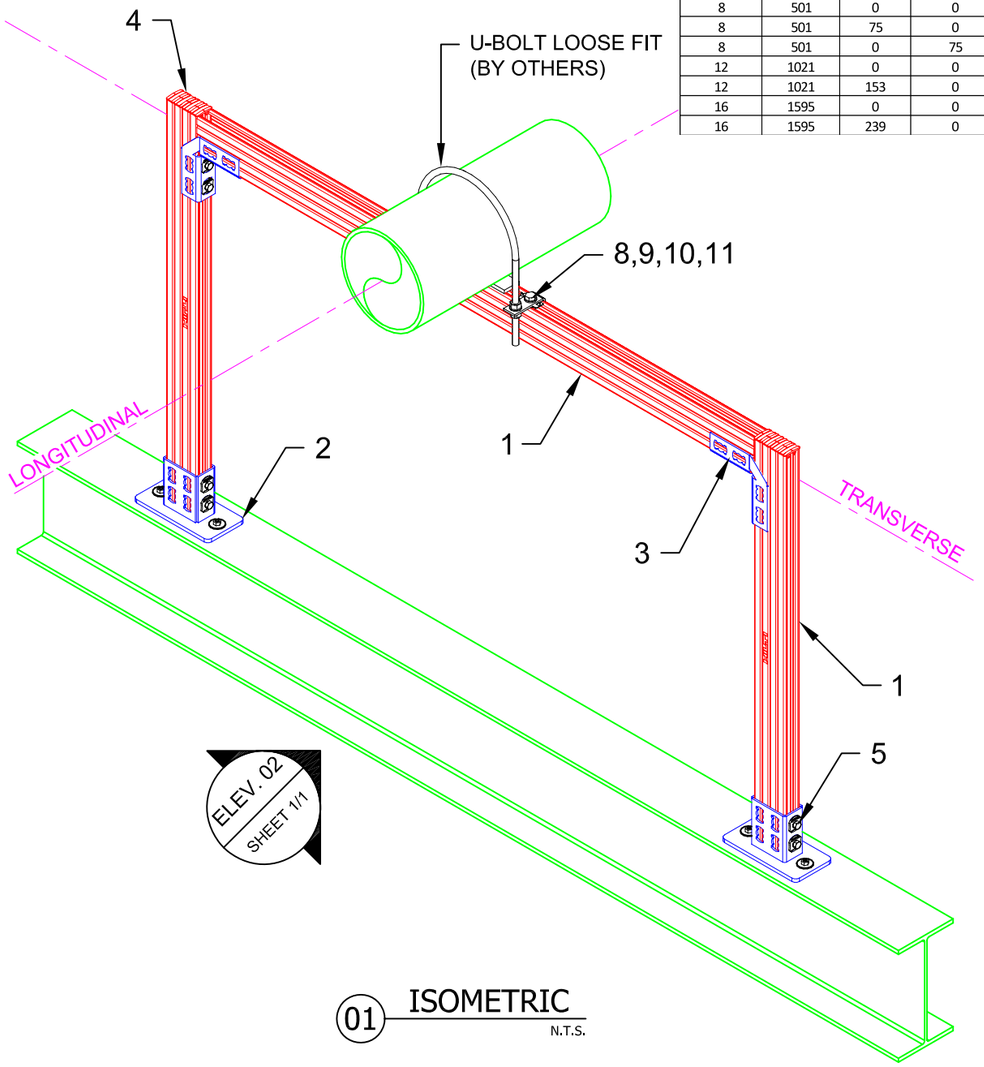
NO:	DESCRIPTION:	DATE:
A	ORIGINAL ISSUE	19 FEB 15

SERVICE REQUEST NUMBER:

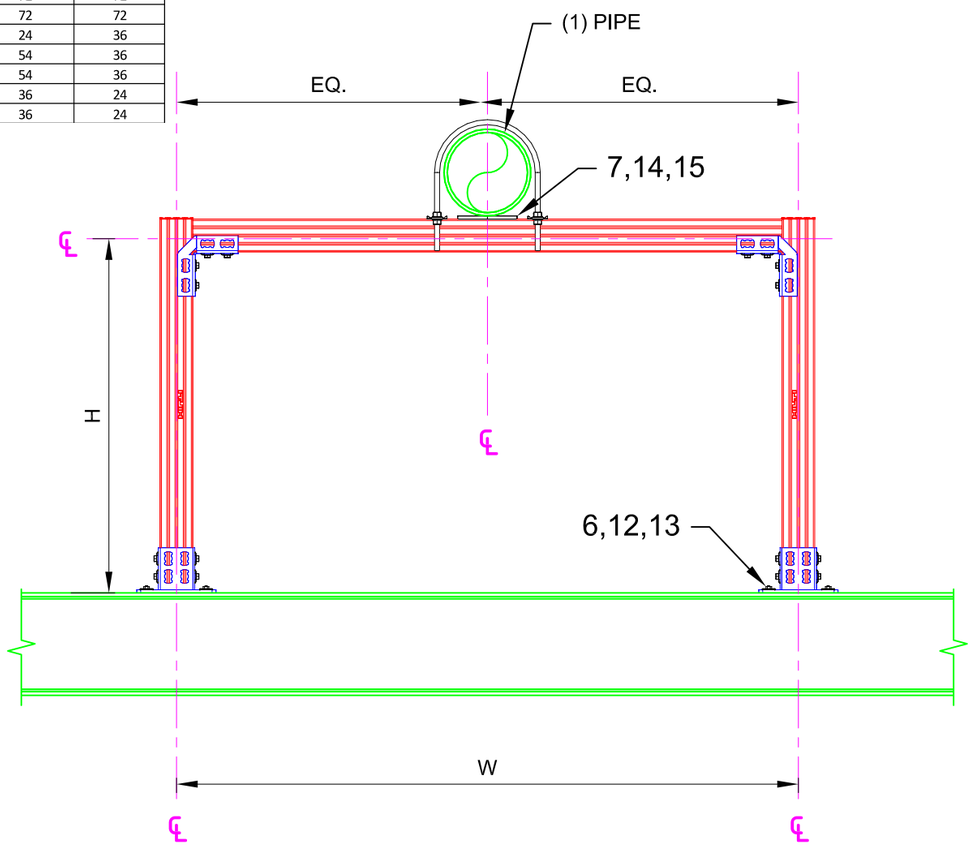
TD-P-GP54-C

DRAWING NUMBER:	SHEET:
01	1/1

Maximum Pipe Diameter (in)	Allowable Vertical Load (lbs)	Allowable Transverse Load (lbs)	Allowable Longitudinal Load (lbs)	Maximum"H" (in)	Maximum"W" (in)
4	163	0	0	72	72
4	163	24	0	72	72
4	163	0	24	72	72
8	501	0	0	72	72
8	501	75	0	72	72
8	501	0	75	24	36
12	1021	0	0	54	36
12	1021	153	0	54	36
16	1595	0	0	36	24
16	1595	239	0	36	24



01 ISOMETRIC
N.T.S.



02 ELEVATION
N.T.S.

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	1	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
8	2	EA	MQV-UB (SPECIAL #304884)	VARIES	VARIES	SPECIAL
9	2	EA	HEX HEAD BOLT 1/2" x 1-1/4"	50	1	411767
10	2	EA	WASHER 1/2"	100	1	411758
11	2	EA	WING NUT MQM-F1/2"-F	25	1	304137
12	4	EA	HEX NUT-HEAVY DUTY 3/8"	100	1	411752
13	4	EA	WASHER 3/8"	200	1	411757
14	1	EA	3/8" CHANNEL NUT/NO SPRING 100/BOX	100	1	311937
15	1	EA	COUNTERSUNK BOLT 3/8 X 1	VARIES	VARIES	SPECIAL

NOTE(S):

1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON PIPE DIAMETER.
2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL ℄ OF PIPE(S) WHICH ARE SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
5. MAX. SUPPORT SPACING = 10'-0"
6. ABOVE LOADING BASED ON SCH. 40 PIPE FILLED WITH WATER

PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING
GOALPOST (MQ)
STEEL

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	19 FEB 15

REVISIONS:

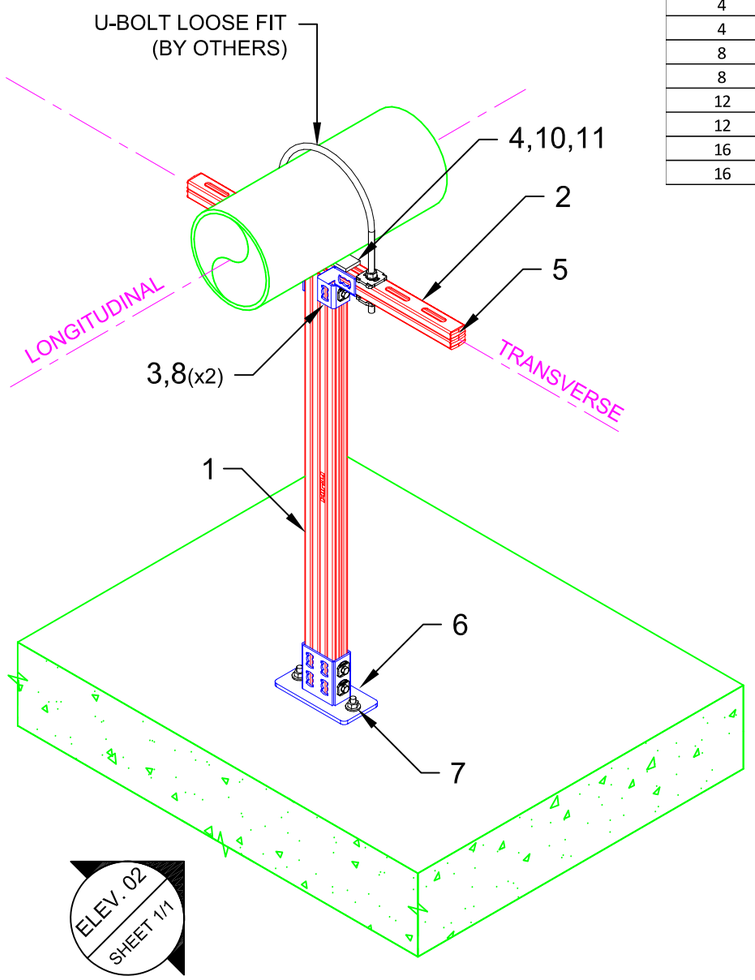
NO:	DESCRIPTION:	DATE:
A	ORIGINAL ISSUE	19 FEB 15

SERVICE REQUEST NUMBER:

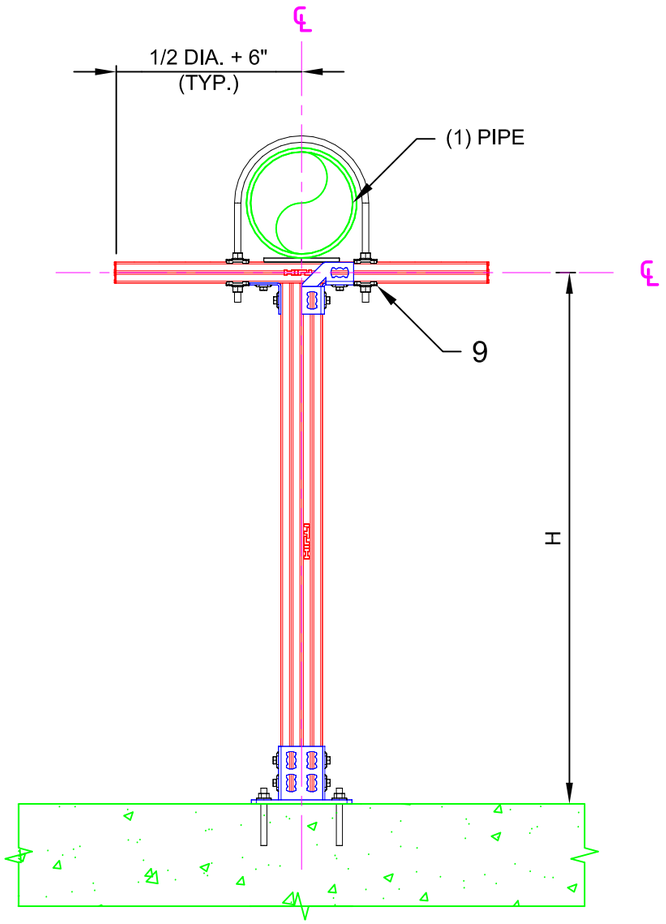
TD-P-GP54-S

DRAWING NUMBER:	SHEET:
01	1/1

Maximum Pipe Diameter (in)	Allowable Vertical Load (lbs)	Allowable Transverse Load (lbs)	Allowable Longitudinal Load (lbs)	Maximum"H" (in)
4	163	0	0	72
4	163	24	0	72
4	163	0	24	42
8	501	0	0	60
8	501	75	0	60
12	1021	0	0	42
12	1021	153	0	42
16	1595	0	0	36
16	1595	239	0	36



01 ISOMETRIC
N.T.S.



02 ELEVATION
N.T.S.

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	AS REQ'D	EA	STRUT HS-158-12/HDG 10'	1	AS REQ'D	407570
3	8	EA	CHANNEL CONNECTOR MQN-HDG PLUS	50	1	387779
4	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
5	4	EA	CHANNEL END CAP MEK RED	50	1	244886
6	1	EA	RAIL SUPPORT MQP-82	8	1	369652
7	2	EA	USE KB3 OR KB-TZ AS APPROPRIATE	VARIES	VARIES	VARIES
8	2	EA	4-HOLE ANGLE MQW-4	10	1	369658
9	4	EA	BASE PLATE MQZ-L1/2"	20	1	370633
10	2	EA	3/8" CHANNEL NUT/NO SPRING 100/BOX	100	1	311937
11	2	EA	COUNTERSUNK BOLT 3/8 X 1	VARIES	VARIES	SPECIAL

NOTE(S):

1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON PIPE DIAMETER.
2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL ℄ OF PIPE(S) WHICH ARE SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
5. PIPE HORIZONTAL OFFSET FROM HS POST ℄ = 0"
6. ABOVE LOADING BASED ON SCH. 40 PIPE FILLED WITH WATER.
7. MAX. SUPPORT SPACING = 10'-0".

PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING
T-POST (MQ)
CONCRETE

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	19 FEB 15

REVISIONS:

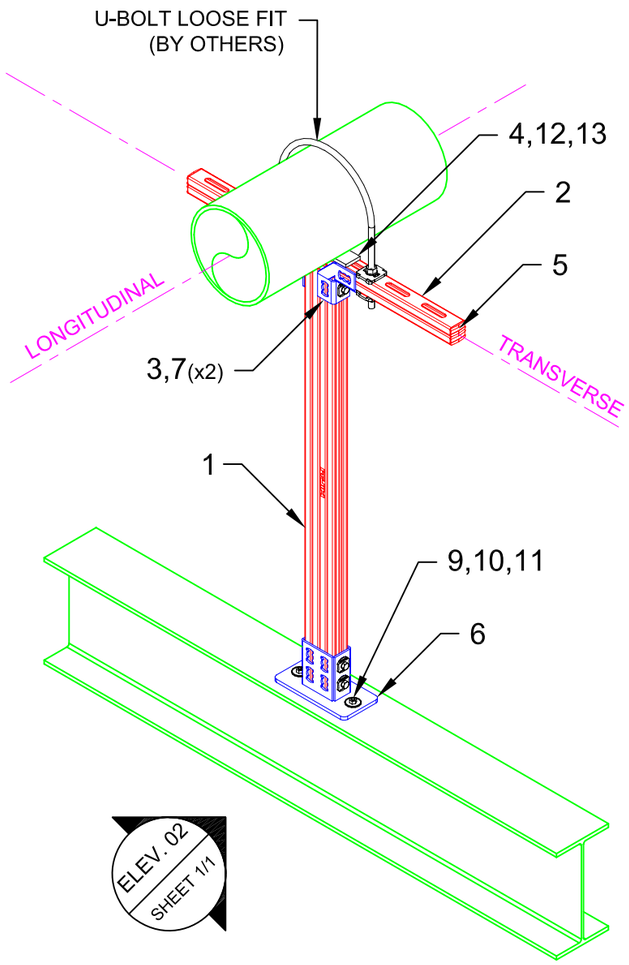
NO:	DESCRIPTION:	DATE:
A	ORIGINAL ISSUE	19 FEB 15

SERVICE REQUEST NUMBER:

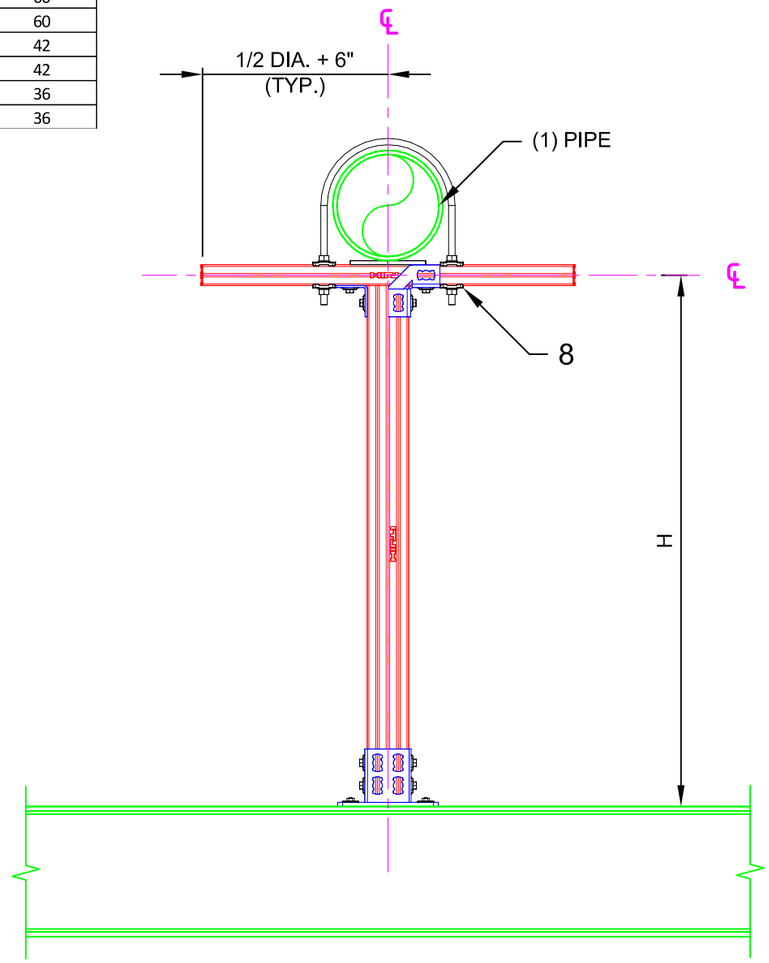
TD-P-TP51-C

DRAWING NUMBER:	SHEET:
01	1/1

Maximum Pipe Diameter (in)	Allowable Vertical Load (lbs)	Allowable Transverse Load (lbs)	Allowable Longitudinal Load (lbs)	Maximum"H" (in)
4	163	0	0	72
4	163	24	0	72
4	163	0	24	42
8	501	0	0	60
8	501	75	0	60
12	1021	0	0	42
12	1021	153	0	42
16	1595	0	0	36
16	1595	239	0	36



01 ISOMETRIC
N.T.S.



02 ELEVATION
N.T.S.

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	AS REQ'D	EA	STRUT HS-158-12/HDG 10'	1	AS REQ'D	407570
3	8	EA	CHANNEL CONNECTOR MQN-HDG PLUS	50	1	387779
4	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
5	4	EA	CHANNEL END CAP MEK RED	50	1	244886
6	1	EA	RAIL SUPPORT MQP-82	8	1	369652
7	2	EA	4-HOLE ANGLE MQW-4	10	1	369658
8	4	EA	BASE PLATE MQZ-L1/2"	20	1	370633
9	2	EA	X-BTW10-24-6 SN12-R	100	1	377076
10	2	EA	HEX NUT-HEAVY DUTY 3/8"	100	1	411752
11	2	EA	WASHER 3/8"	200	1	411757
12	2	EA	3/8" CHANNEL NUT/NO SPRING 100/BOX	100	1	311937
13	2	EA	COUNTERSUNK BOLT 3/8 X 1	VARIES	AS REQ'D	SPECIAL

NOTE(S):

1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON PIPE DIAMETER.
2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL ℄ OF PIPE(S) WHICH ARE SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
5. PIPE HORIZONTAL OFFSET FROM HS POST ℄ = 0"
6. ABOVE LOADING BASED ON SCH. 40 PIPE FILLED WITH WATER.
7. MAX. SUPPORT SPACING = 10'-0".

PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING
T-POST (MQ)
STEEL

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	19 FEB 15

REVISIONS:

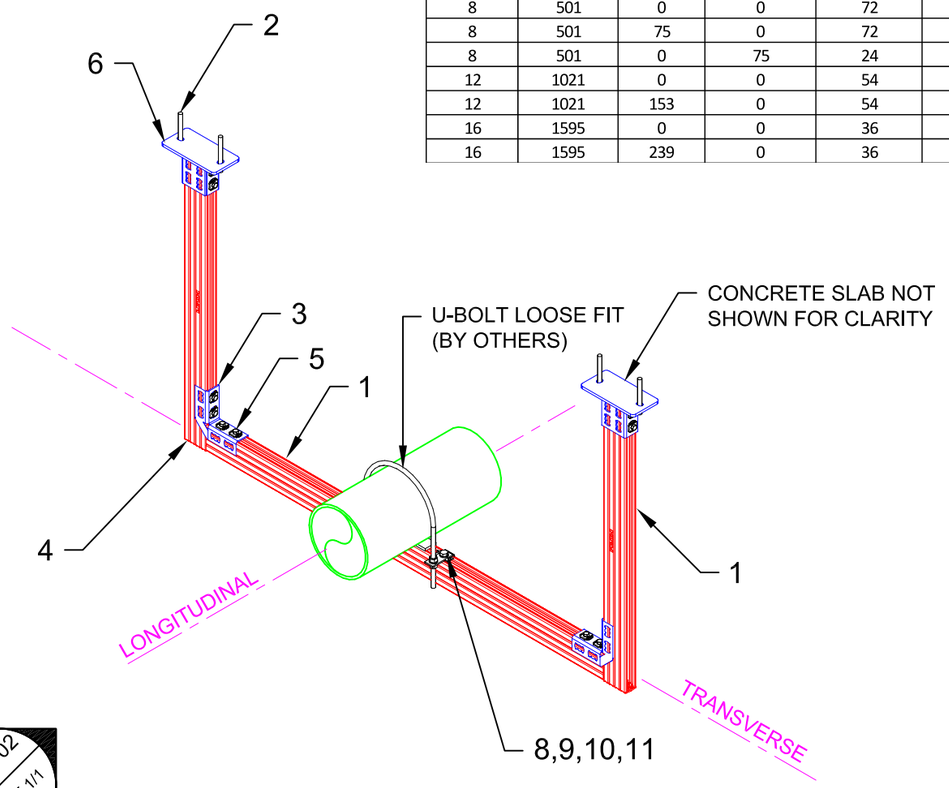
NO:	DESCRIPTION:	DATE:
A	ORIGINAL ISSUE	19 FEB 15

SERVICE REQUEST NUMBER:

TD-P-TP51-S

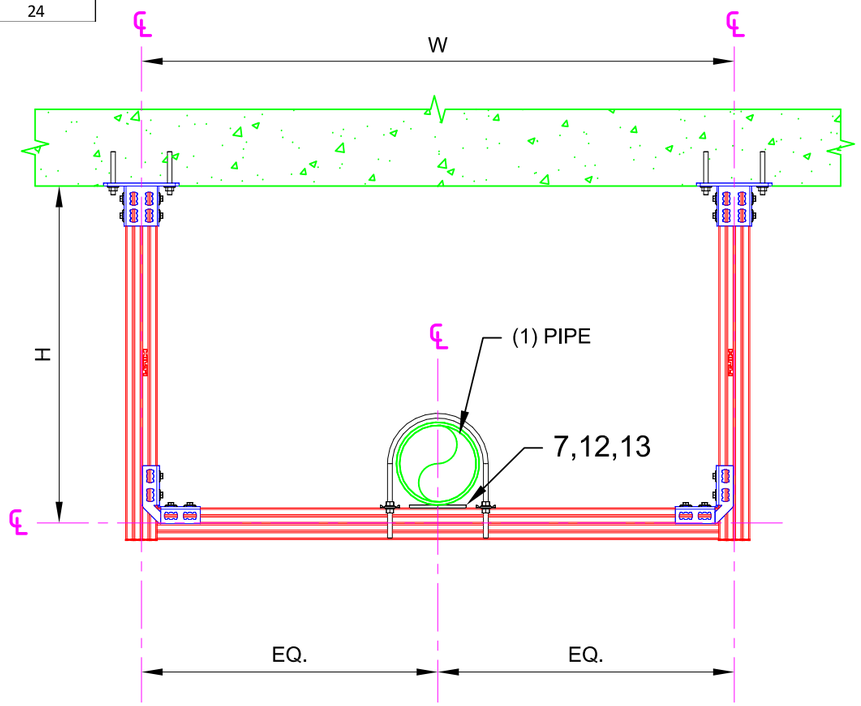
DRAWING NUMBER:	SHEET:
01	1/1

Maximum Pipe Diameter (in)	Allowable Vertical Load (lbs)	Allowable Transverse Load (lbs)	Allowable Longitudinal Load (lbs)	Maximum"H" (in)	Maximum"W" (in)
4	163	0	0	72	72
4	163	24	0	72	72
4	163	0	24	72	72
8	501	0	0	72	72
8	501	75	0	72	72
8	501	0	75	24	36
12	1021	0	0	54	36
12	1021	153	0	54	36
16	1595	0	0	36	24
16	1595	239	0	36	24



ELEV. 02
SHEET 1/1

01 ISOMETRIC
N.T.S.



02 ELEVATION
N.T.S.

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
7	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
8	2	EA	MQV-UB (SPECIAL #304884)	VARIES	VARIES	SPECIAL
9	2	EA	HEX HEAD BOLT 1/2" x 1-1/4"	50	1	411767
10	2	EA	WASHER 1/2"	100	1	411758
11	2	EA	WING NUT MQM-F1/2"-F	25	1	304137
12	2	EA	3/8" CHANNEL NUT/NO SPRING 100/BOX	100	1	311937
13	2	EA	COUNTERSUNK BOLT 3/8 X 1	VARIES	VARIES	SPECIAL

NOTE(S):

1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON PIPE DIAMETER.
2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL ℄ OF PIPE(S) WHICH ARE SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
5. MAX. SUPPORT SPACING = 10'-0"
6. ABOVE LOADING BASED ON SCH. 40 PIPE FILLED WITH WATER

PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING
TRAPEZE (MQ)
CONCRETE

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	19 FEB 15

REVISIONS:

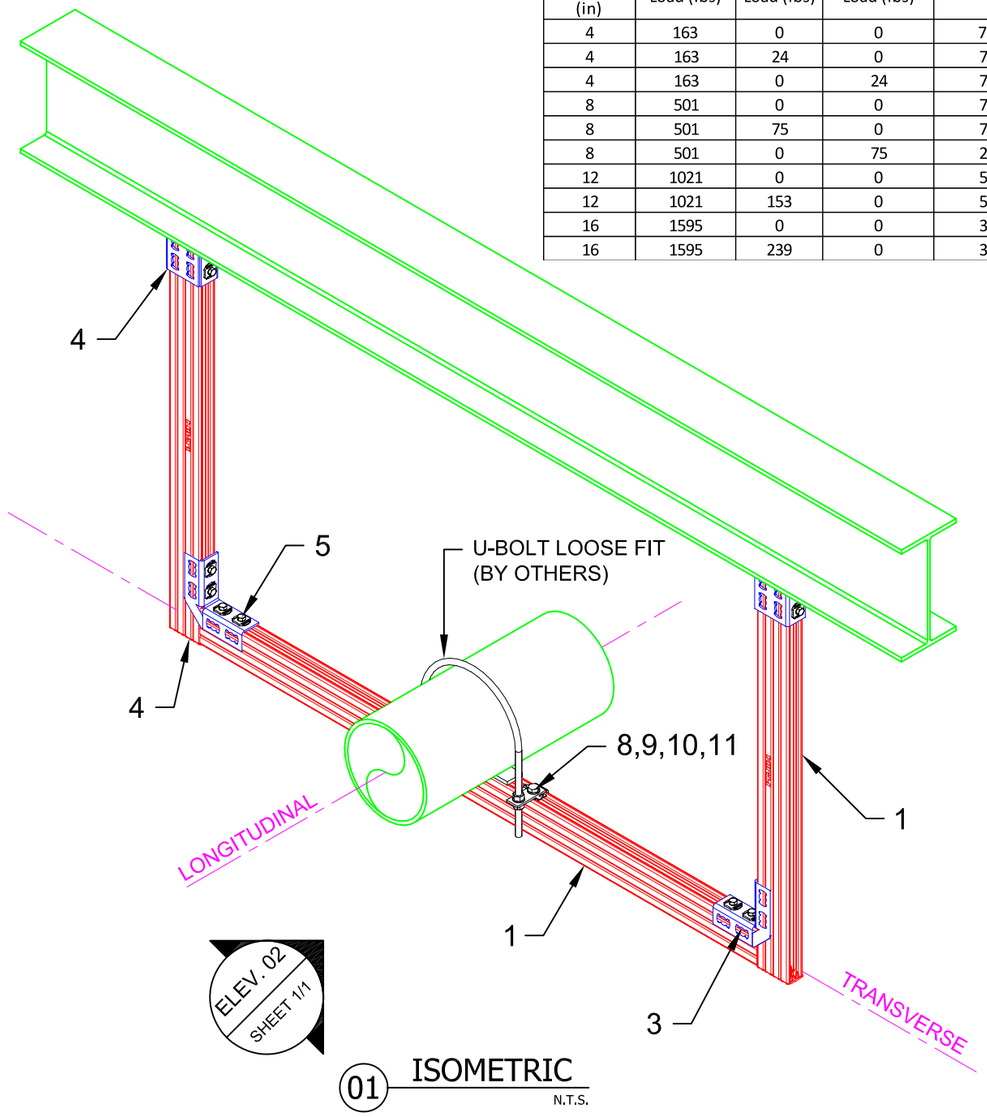
NO:	DESCRIPTION:	DATE:
A	ORIGINAL ISSUE	19 FEB 15

SERVICE REQUEST NUMBER:

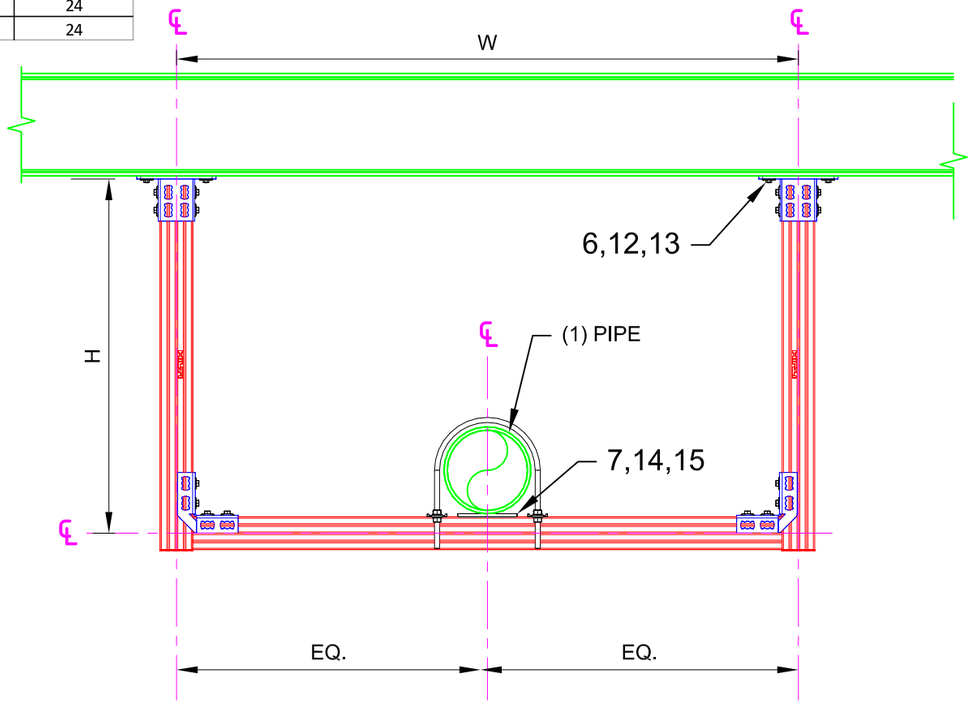
TD--P-TR53-C

DRAWING NUMBER:	SHEET:
01	1/1

Maximum Pipe Diameter (in)	Allowable Vertical Load (lbs)	Allowable Transverse Load (lbs)	Allowable Longitudinal Load (lbs)	Maximum"H" (in)	Maximum"W" (in)
4	163	0	0	72	72
4	163	24	0	72	72
4	163	0	24	72	72
8	501	0	0	72	72
8	501	75	0	72	72
8	501	0	75	24	36
12	1021	0	0	54	36
12	1021	153	0	54	36
16	1595	0	0	36	24
16	1595	239	0	36	24



01 ISOMETRIC
N.T.S.



02 ELEVATION
N.T.S.

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	2	EA	CONNECTOR PIPE SHOE MIC-PG	10	1	304842
8	2	EA	MQV-UB (SPECIAL #304884)	VARIES	VARIES	SPECIAL
9	2	EA	HEX HEAD BOLT 1/2" x 1-1/4"	50	1	411767
10	2	EA	WASHER 1/2"	100	1	411758
11	2	EA	WING NUT MQM-F1/2"-F	25	1	304137
12	4	EA	HEX NUT-HEAVY DUTY 3/8"	100	1	411752
13	4	EA	WASHER 3/8"	200	1	411757
14	2	EA	3/8" CHANNEL NUT/NO SPRING 100/BOX	100	1	311937
15	2	EA	COUNTERSUNK BOLT 3/8 X 1	VARIES	VARIES	SPECIAL

NOTE(S):

1. REFER TO TABLE FOR DIMENSIONAL LIMITATIONS BASED ON PIPE DIAMETER.
2. ALLOWABLE LOADS CONSIDER APPROPRIATE LOAD FACTORS AND LOAD COMBINATIONS PER APPLICABLE CODES AND STANDARDS.
3. ALL LOADS ASSUMED TO ACT AT HORIZONTAL ℄ OF PIPE(S) WHICH ARE SITTING DIRECTLY ON TOP OF HS STRUT, U.N.O.
4. VERTICAL LOAD APPLIED WITH ONE HORIZONTAL LOAD AT A TIME.
5. MAX. SUPPORT SPACING = 10'-0"
6. ABOVE LOADING BASED ON SCH. 40 PIPE FILLED WITH WATER

PROJECT NAME:

TYPICAL DETAILS

SERVICE REQUEST DESCRIPTION:

PIPING
TRAPEZE (MQ)
STEEL

DESIGNED BY:	REVIEWED BY:
AJV	ISE
DRAWN BY:	ISSUE DATE:
HAM	19 FEB 15

REVISIONS:

NO:	DESCRIPTION:	DATE:
A	ORIGINAL ISSUE	19 FEB 15

SERVICE REQUEST NUMBER:

TD-P-TR53-S

DRAWING NUMBER:	SHEET:
01	1/1