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P7.0



**Cable Anchorage Hardware Kits**

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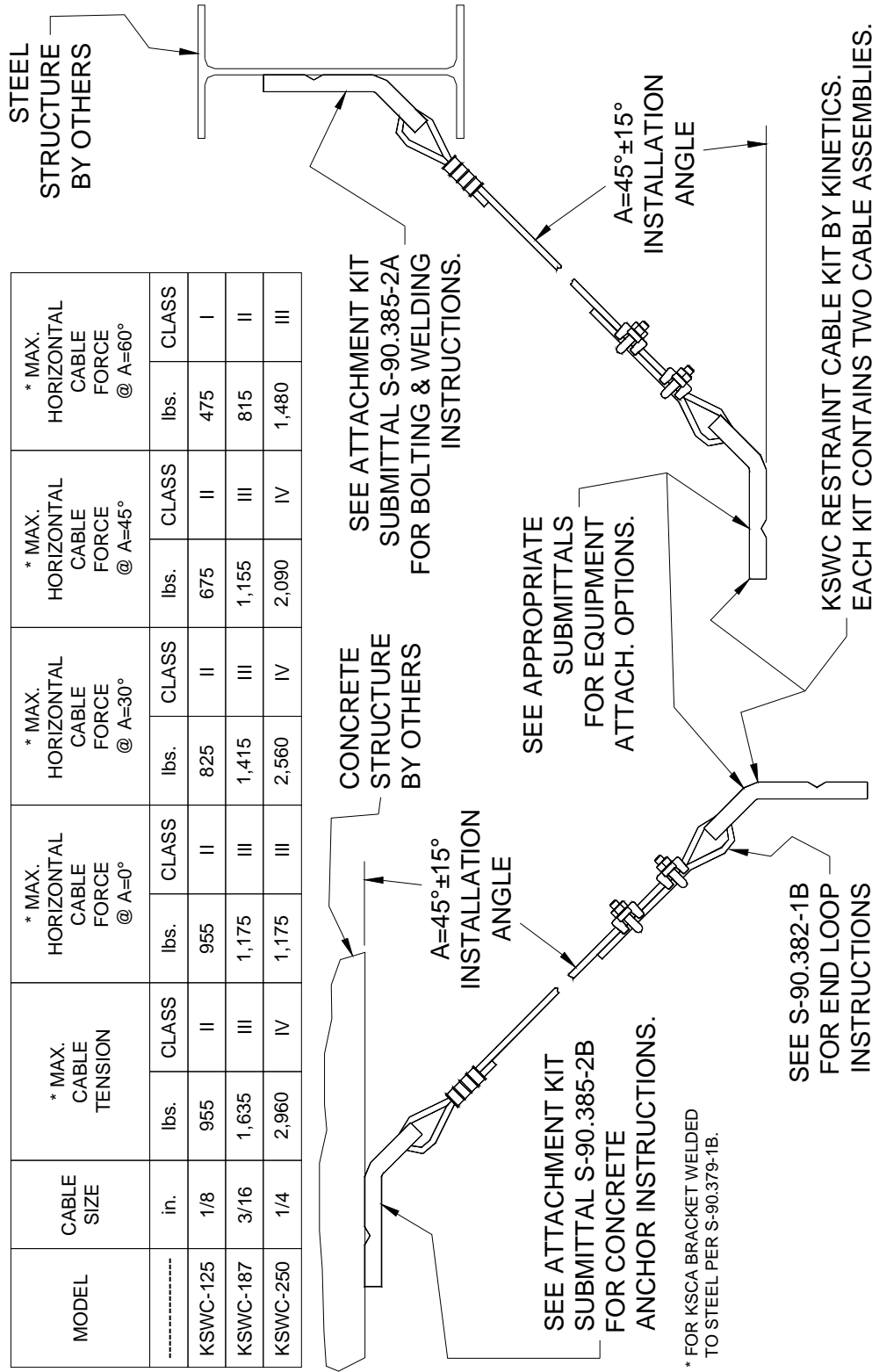
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MODEL	CABLE SIZE	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°	
		in.	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.
-----											
KSWC-125	1/8	955	II	955	II	825	II	675	II	475	I
KSWC-187	3/16	1,635	III	1,175	III	1,415	III	1,155	III	815	II
KSWC-250	1/4	2,960	IV	1,175	III	2,560	IV	2,090	IV	1,480	III



## KSWC U-BOLT CLIP CABLE RESTRAINT KIT (KSCA – KSCA)

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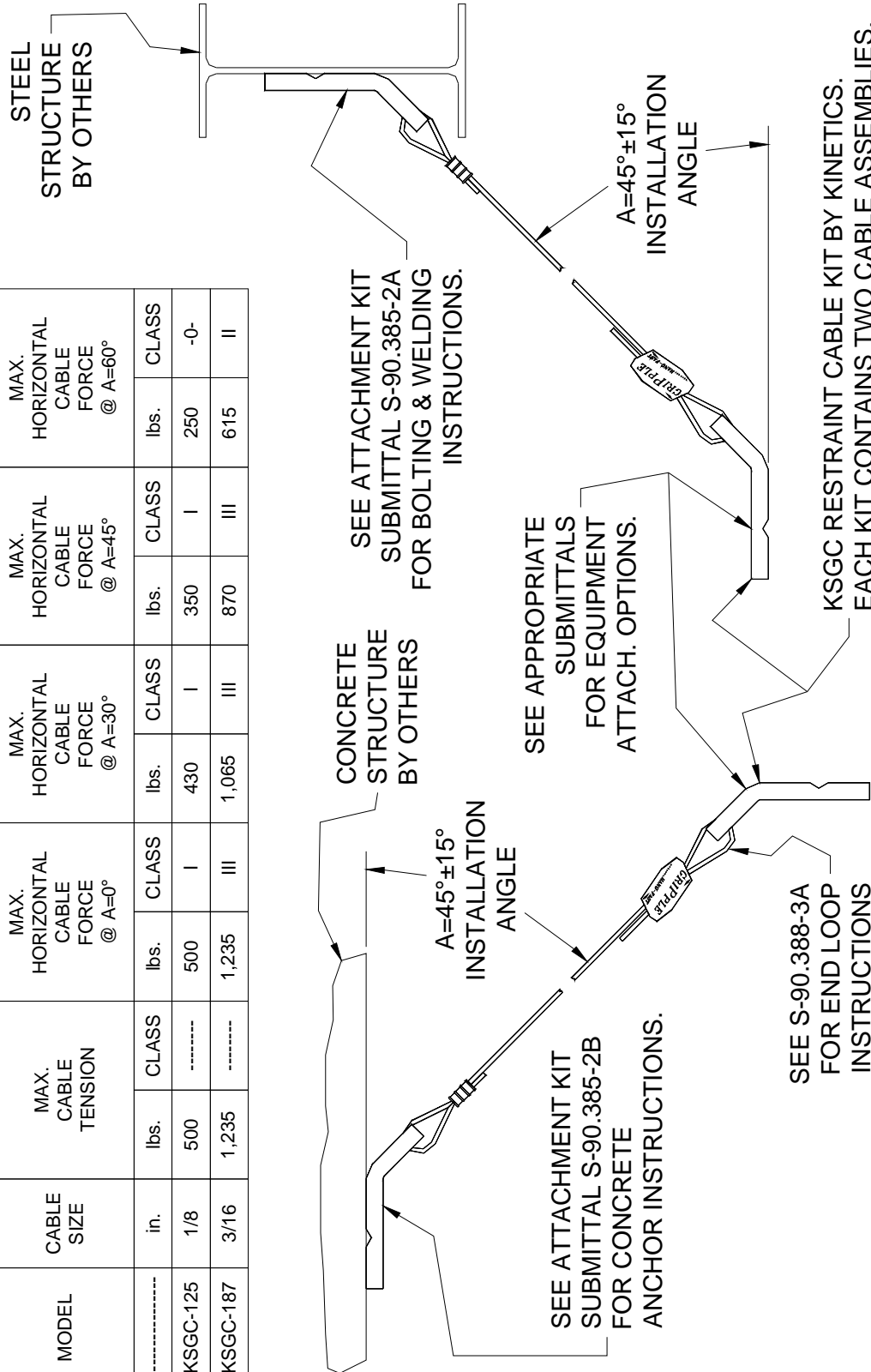
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MODEL	CABLE SIZE	MAX. CABLE TENSION		MAX. HORIZONTAL CABLE FORCE @ A=0°		MAX. HORIZONTAL CABLE FORCE @ A=30°		MAX. HORIZONTAL CABLE FORCE @ A=45°		MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----	in.	500	-----	500	I	430	I	350	I	250	-0-
KSGC-125	1/8	1,235	-----	1,235	III	1,065	III	870	III	615	II
KSGC-187	3/16										



## KSGC GRIPPLE CABLE RESTRAINT KIT (KSCA – KSCA)

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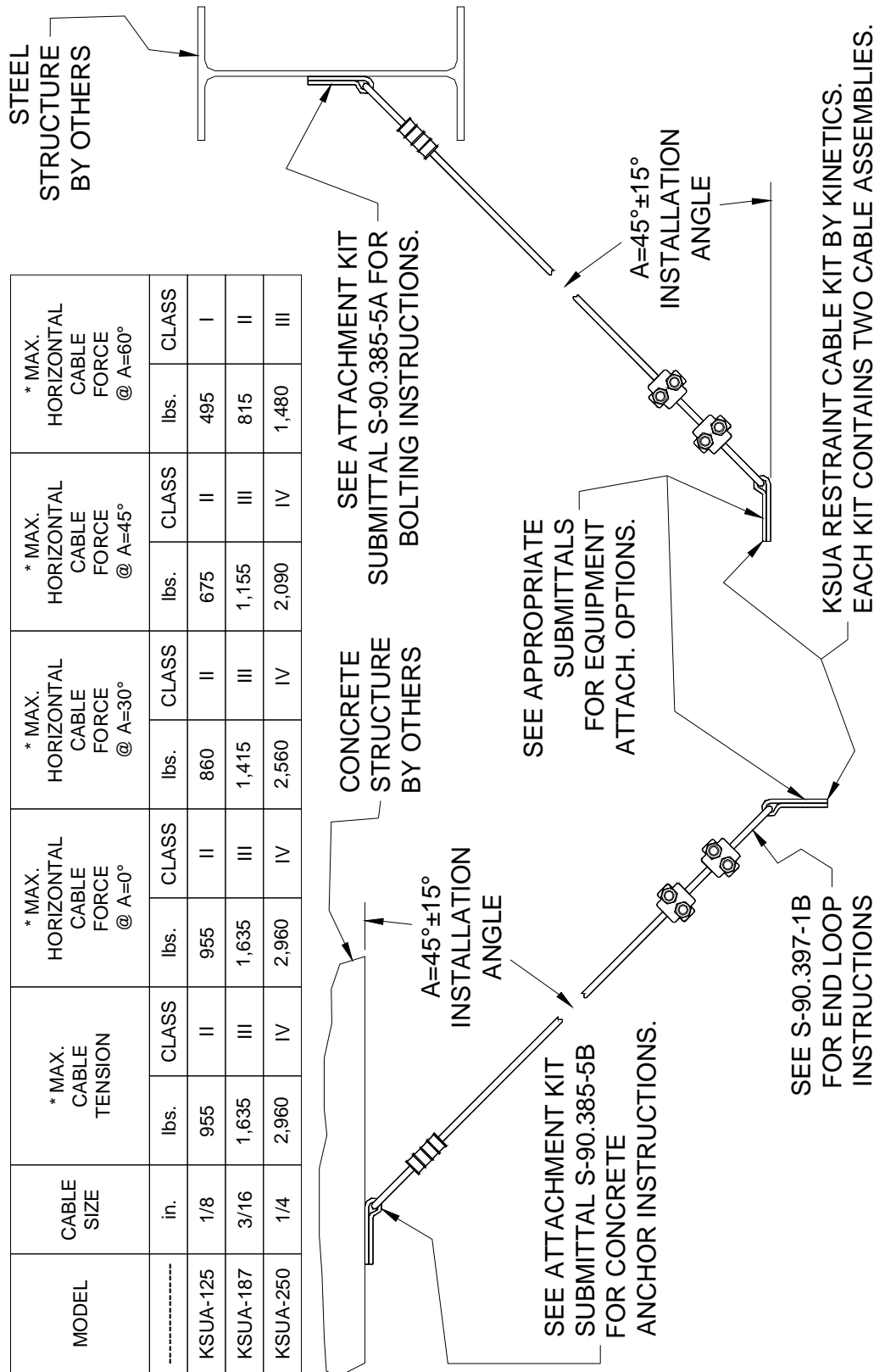
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MODEL	CABLE SIZE	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----	in.										
KSUA-125	1/8	955	II	955	II	860	II	675	II	495	I
KSUA-187	3/16	1,635	III	1,635	III	1,415	III	1,155	III	815	II
KSUA-250	1/4	2,960	IV	2,960	IV	2,560	IV	2,090	IV	1,480	III

## KSUA U-BOLT CLIP CABLE RESTRAINT KIT (KSUA - KSUA)

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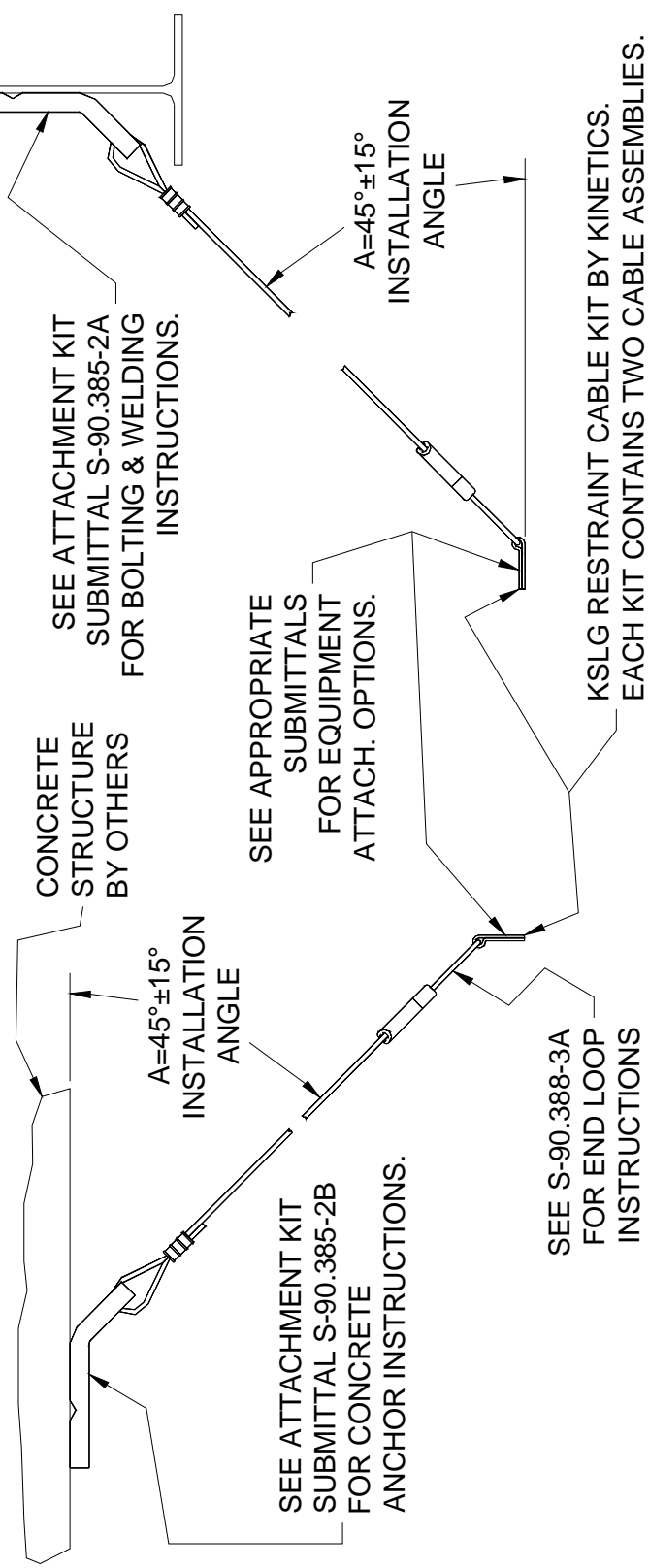
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MODEL	CABLE SIZE	MAX. CABLE TENSION		MAX. HORIZONTAL CABLE FORCE @ A=0°		MAX. HORIZONTAL CABLE FORCE @ A=30°		MAX. HORIZONTAL CABLE FORCE @ A=45°		MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----	in.	500	-----	500	I	430	I	350	I	250	-0-
KSLG-125	1/8	1,235	-----	1,235	III	1,065	III	870	III	615	II
KSLG-187	3/16										



## KSLG GRIPPLE CABLE RESTRAINT KIT (KSCA - KSUA)

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RELEASE DATE: 5/21/04



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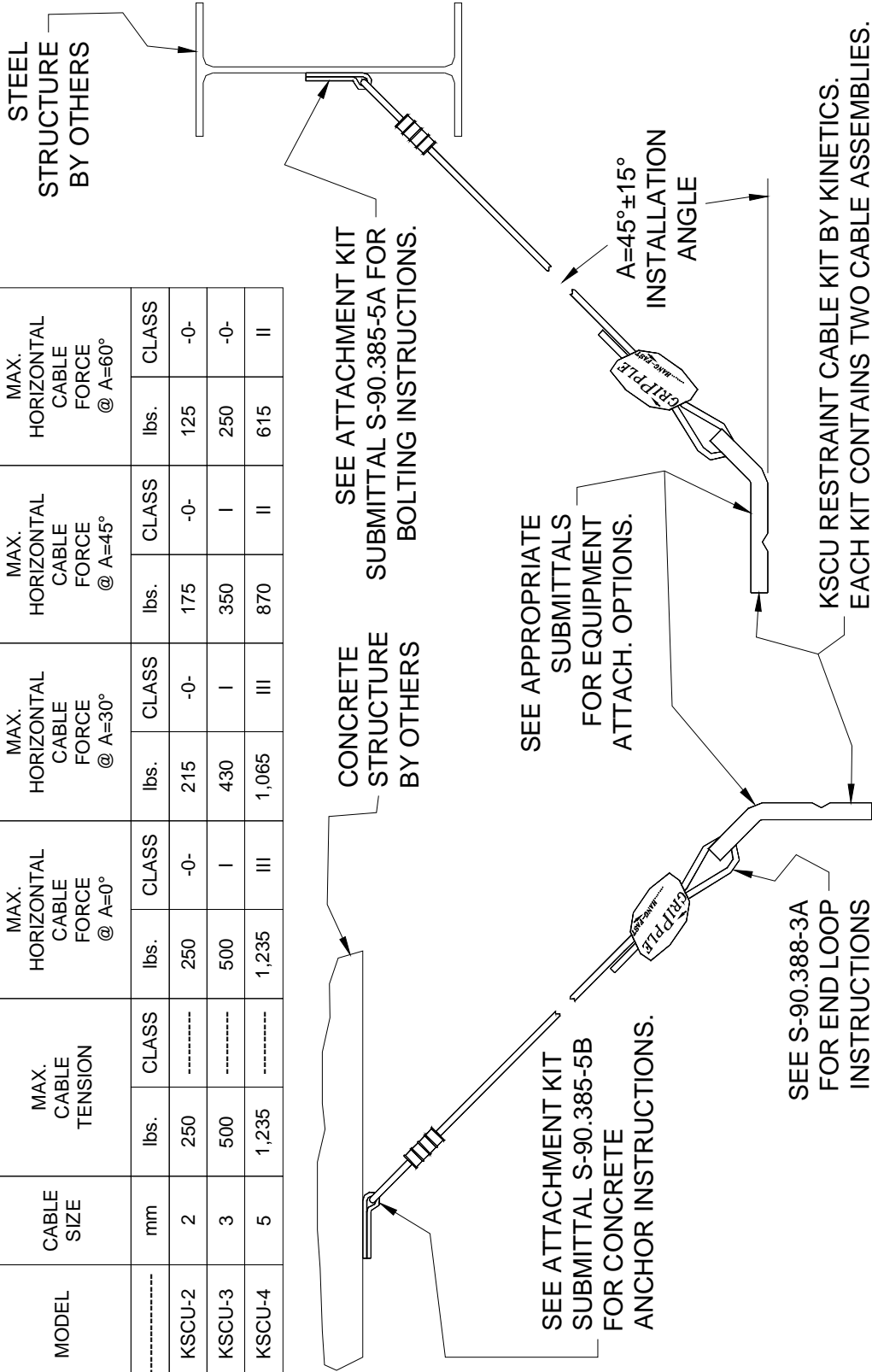
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MODEL	CABLE SIZE	MAX. CABLE TENSION		MAX. HORIZONTAL CABLE FORCE @ A=0°		MAX. HORIZONTAL CABLE FORCE @ A=30°		MAX. HORIZONTAL CABLE FORCE @ A=45°		MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----	mm	250	-----	250	-0-	215	-0-	175	-0-	125	-0-
KSCU-2	2	500	-----	500	I	430	I	350	I	250	-0-
KSCU-3	3	1,235	-----	1,235	III	1,065	III	870	II	615	II
KSCU-4	5										



## KSCU GRIPPLE CABLE RESTRAINT KIT (KSUA – KSCA)

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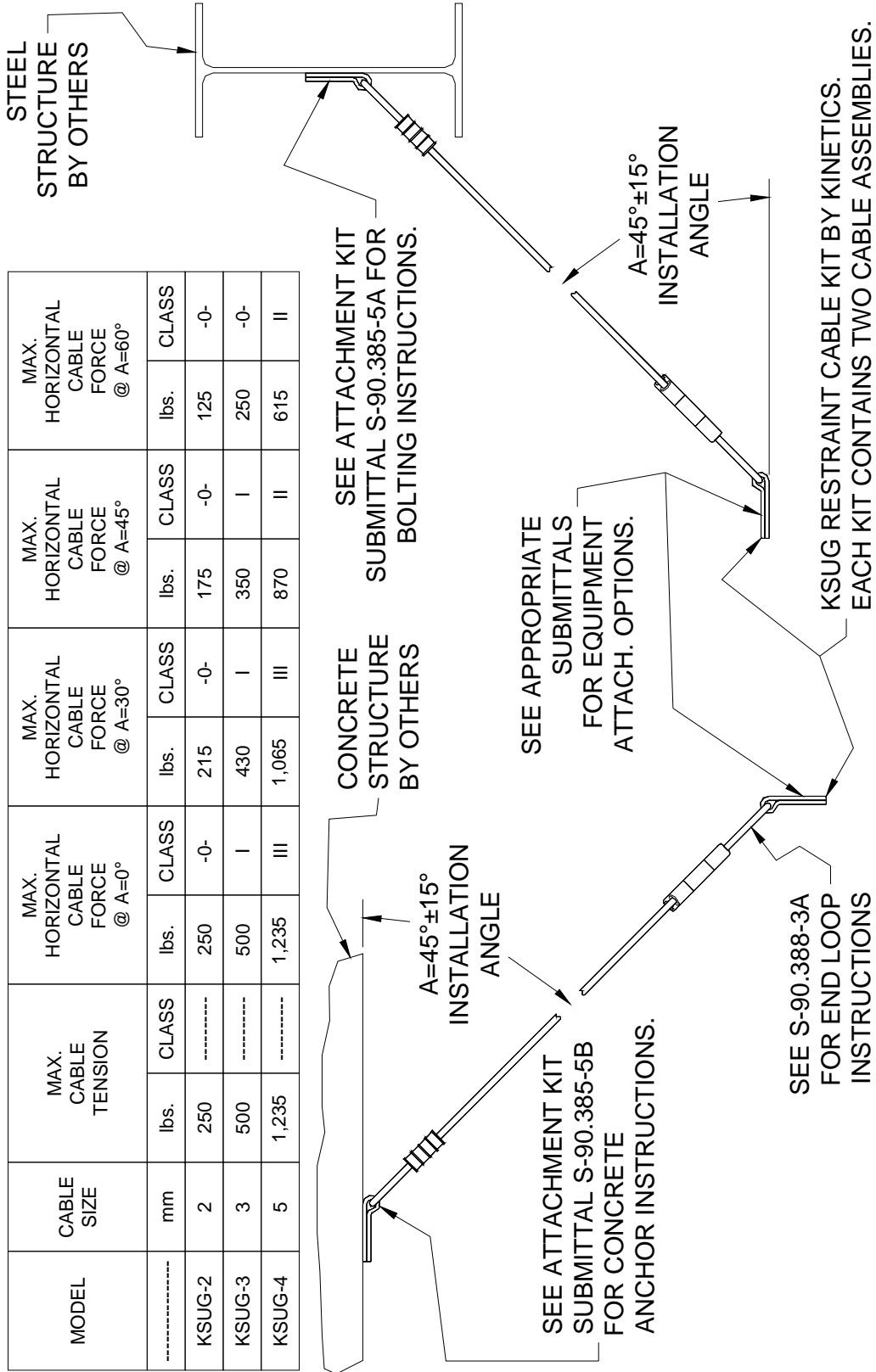
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MODEL	CABLE SIZE	MAX. CABLE TENSION		MAX. HORIZONTAL CABLE FORCE @ A=0°		MAX. HORIZONTAL CABLE FORCE @ A=30°		MAX. HORIZONTAL CABLE FORCE @ A=45°		MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----	mm										
KSUG-2	2	250	-----	250	-0-	215	-0-	175	-0-	125	-0-
KSUG-3	3	500	-----	500	I	430	I	350	I	250	-0-
KSUG-4	5	1,235	-----	1,235	III	1,065	III	870	II	615	II

**KSUG GRIPPLE CABLE RESTRAINT KIT (KSUA – KSUA)**

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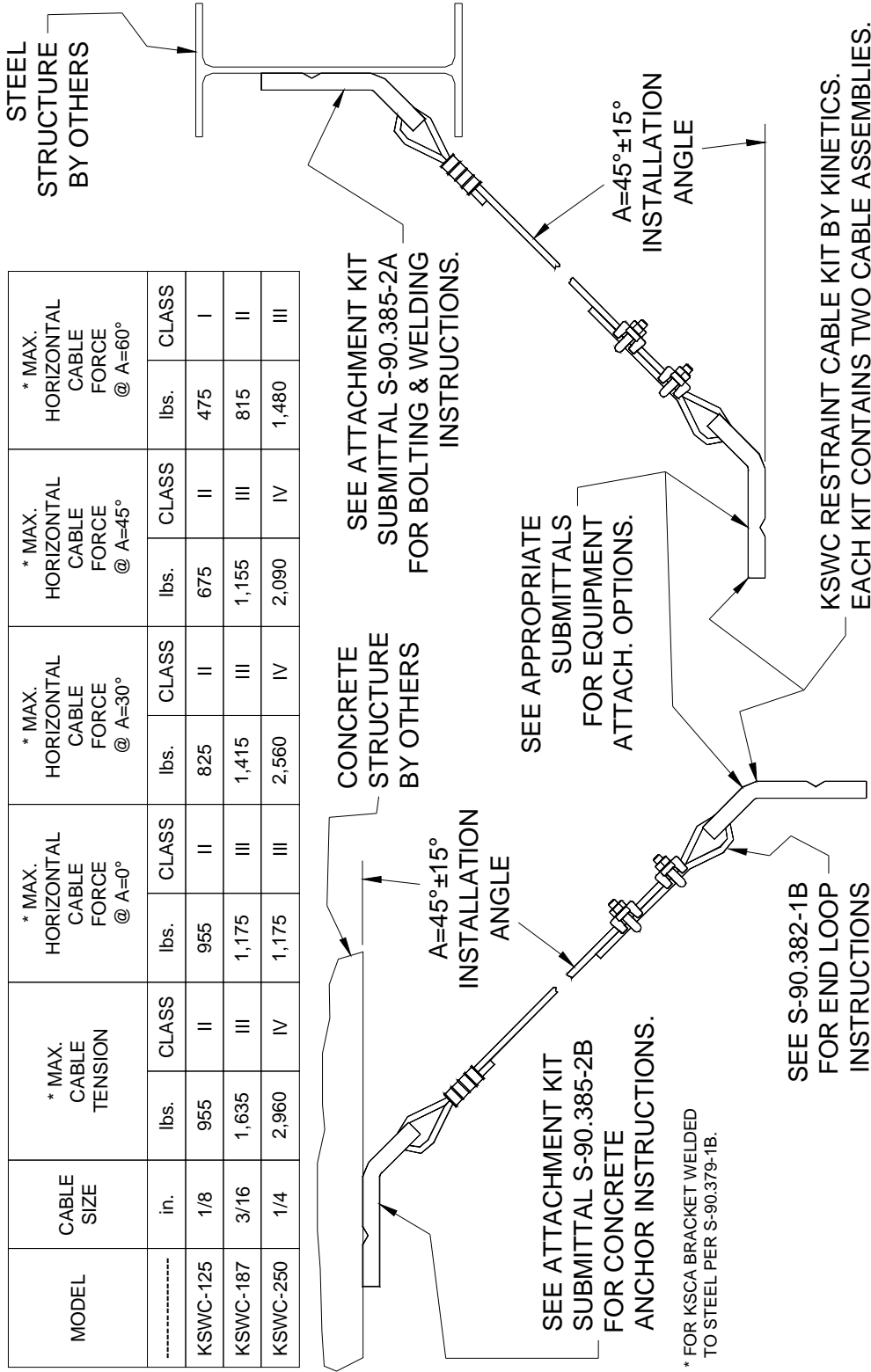
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**P7.2.6**





MODEL	CABLE SIZE	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°	
		in.	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.
-----											
KSWC-125	1/8	955	II	955	II	825	II	675	II	475	I
KSWC-187	3/16	1,635	III	1,175	III	1,415	III	1,155	III	815	II
KSWC-250	1/4	2,960	IV	1,175	III	2,560	IV	2,090	IV	1,480	III



# KSWC U-BOLT CLIP CABLE RESTRAINT KIT (KSCA – KSCA)

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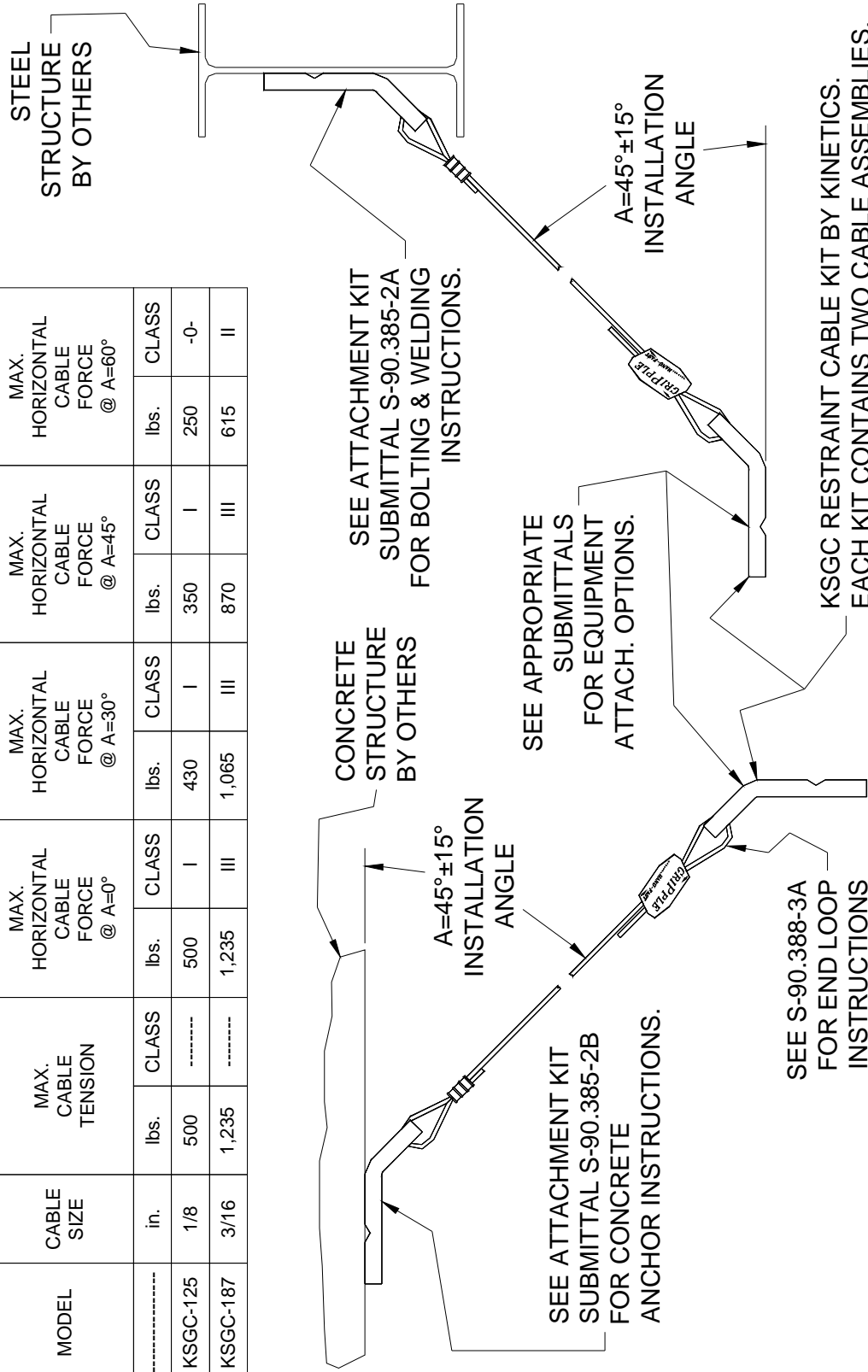
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MODEL	CABLE SIZE	MAX. CABLE TENSION		MAX. HORIZONTAL CABLE FORCE @ A=0°		MAX. HORIZONTAL CABLE FORCE @ A=30°		MAX. HORIZONTAL CABLE FORCE @ A=45°		MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----	in.	500	-----	500	I	430	I	350	I	250	-0-
KSGC-125	1/8	1,235	-----	1,235	III	1,065	III	870	III	615	II
KSGC-187	3/16										



## KSGC GRIPPLE CABLE RESTRAINT KIT (KSCA – KSCA)

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RELEASE DATE 5/21/04

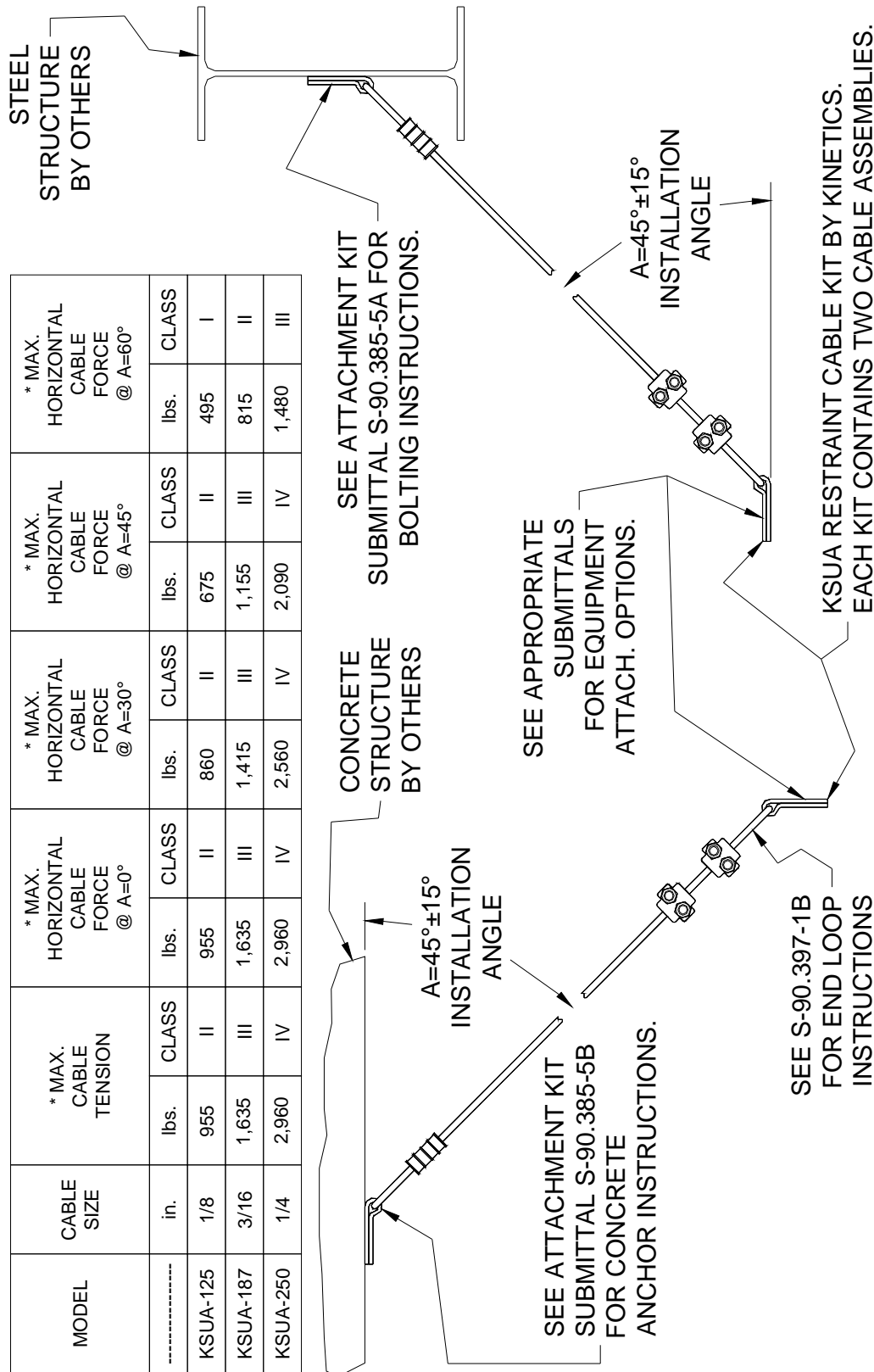


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MODEL	CABLE SIZE	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----	in.										
KSUA-125	1/8	955	II	955	II	860	II	675	II	495	I
KSUA-187	3/16	1,635	III	1,635	III	1,415	III	1,155	III	815	II
KSUA-250	1/4	2,960	IV	2,960	IV	2,560	IV	2,090	IV	1,480	III

## KSUA U-BOLT CLIP CABLE RESTRAINT KIT (KSUA - KSUA)

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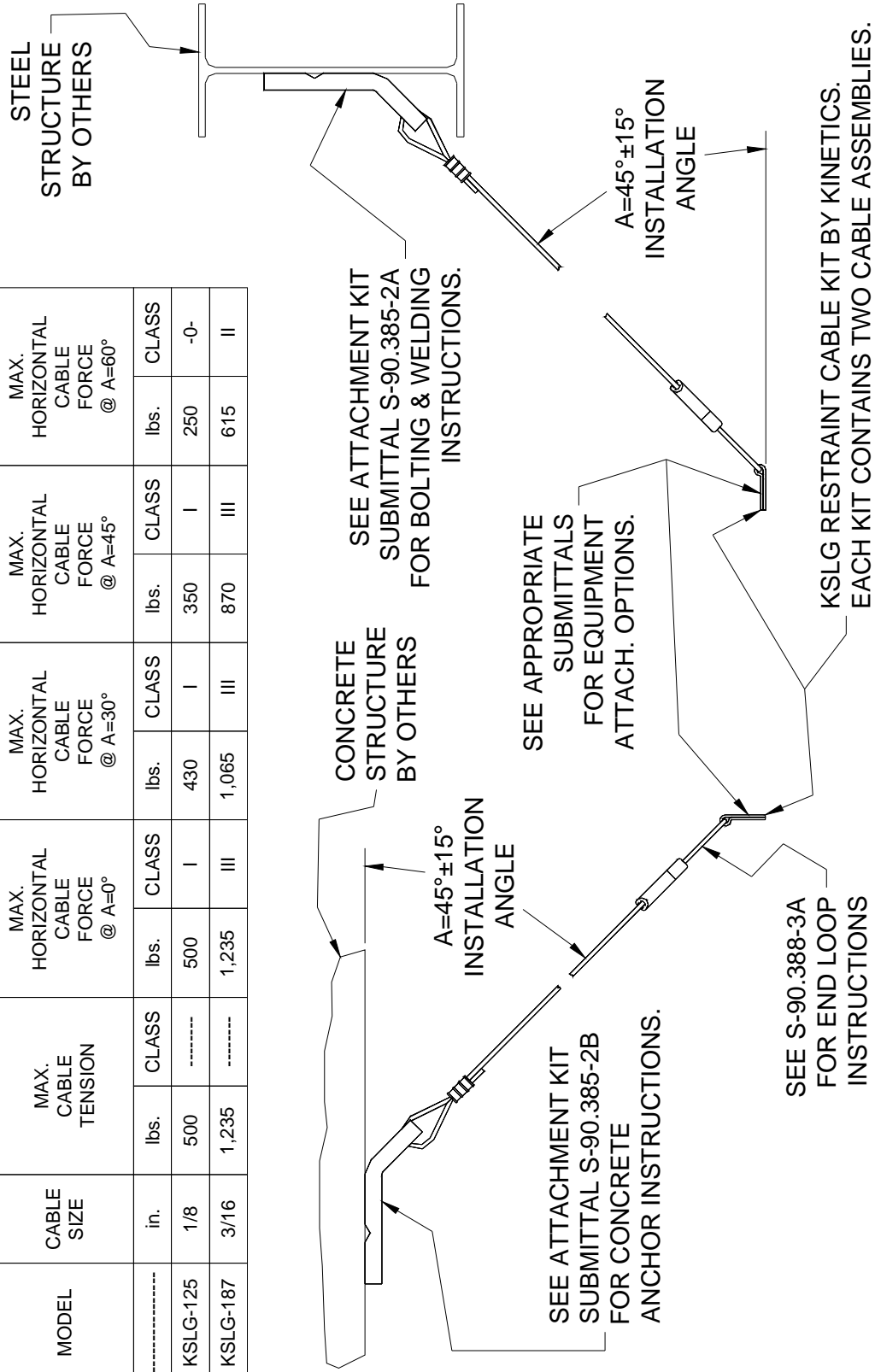
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MODEL	CABLE SIZE	MAX. CABLE TENSION		MAX. HORIZONTAL CABLE FORCE @ A=0°		MAX. HORIZONTAL CABLE FORCE @ A=30°		MAX. HORIZONTAL CABLE FORCE @ A=45°		MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----	in.	500	-----	500	I	430	I	350	I	250	-0-
KSLG-125	1/8	1,235	-----	1,235	III	1,065	III	870	III	615	II
KSLG-187	3/16										



## KSLG GRIPPLE CABLE RESTRAINT KIT (KSCA - KSUA)

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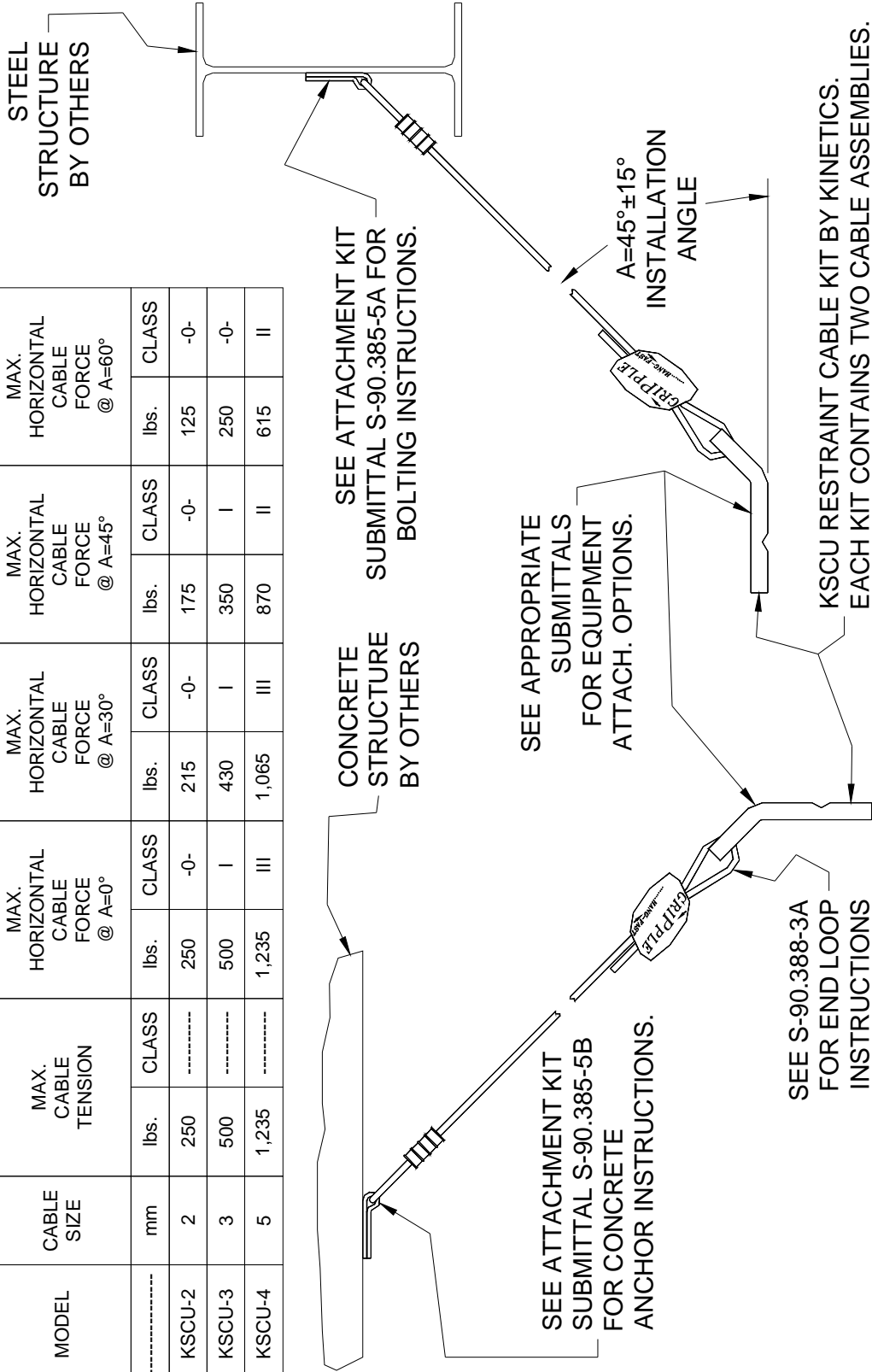
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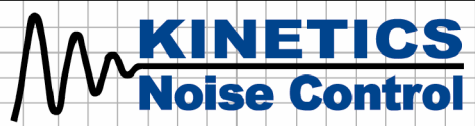
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		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----	mm										
KSCU-2	2	250	-----	250	-0-	215	-0-	175	-0-	125	-0-
KSCU-3	3	500	-----	500	I	430	I	350	I	250	-0-
KSCU-4	5	1,235	-----	1,235	III	1,065	III	870	II	615	II



## KSCU GRIPPLE CABLE RESTRAINT KIT (KSUA – KSCA)

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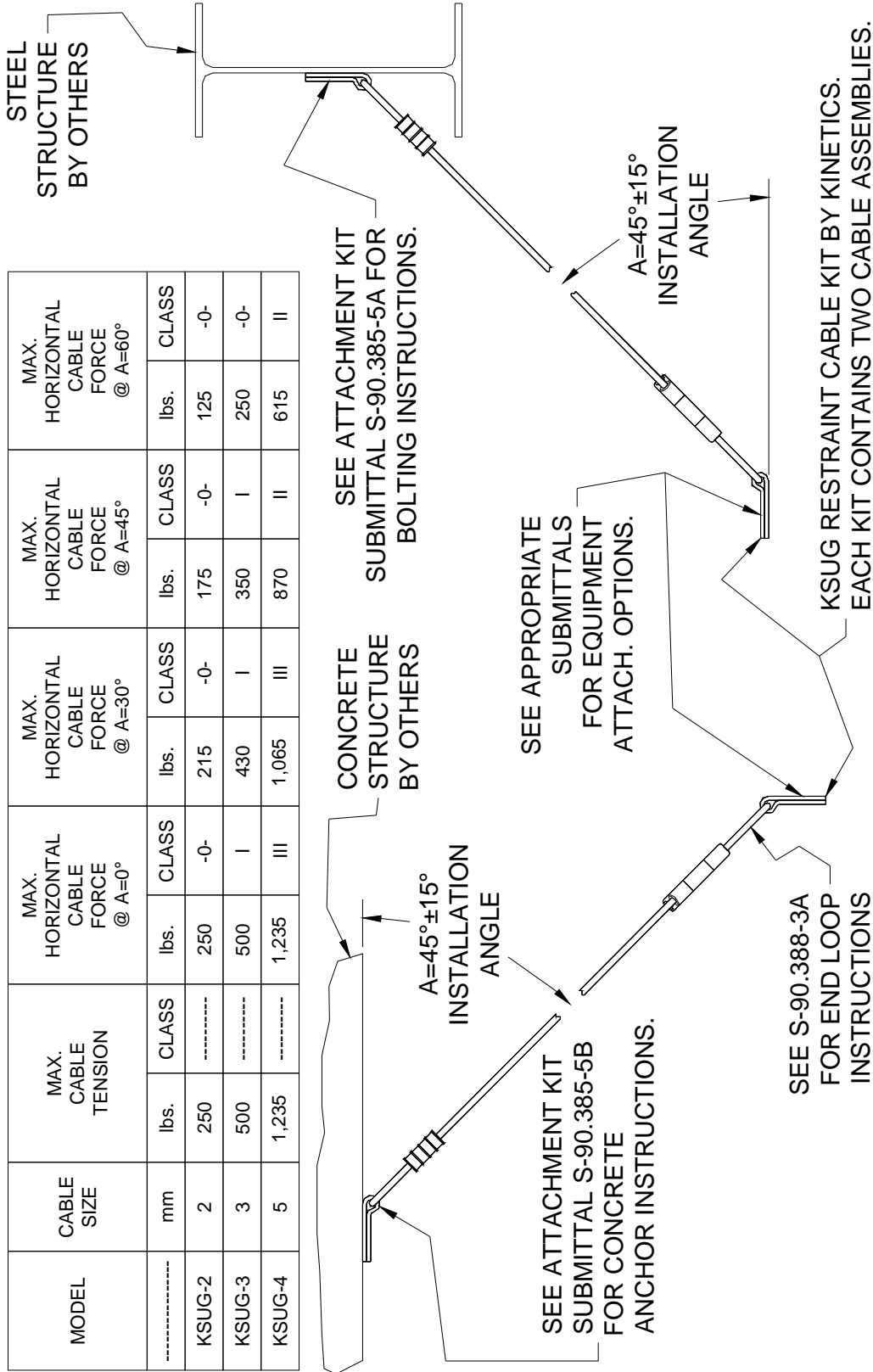
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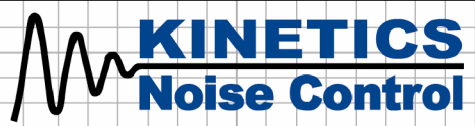


MODEL	CABLE SIZE	MAX. CABLE TENSION		MAX. HORIZONTAL CABLE FORCE @ A=0°		MAX. HORIZONTAL CABLE FORCE @ A=30°		MAX. HORIZONTAL CABLE FORCE @ A=45°		MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----	mm										
KSUG-2	2	250	-----	250	-0-	215	-0-	175	-0-	125	-0-
KSUG-3	3	500	-----	500	I	430	I	350	I	250	-0-
KSUG-4	5	1,235	-----	1,235	III	1,065	III	870	II	615	II

## KSUG GRIPPLE CABLE RESTRAINT KIT (KSUA – KSUA)

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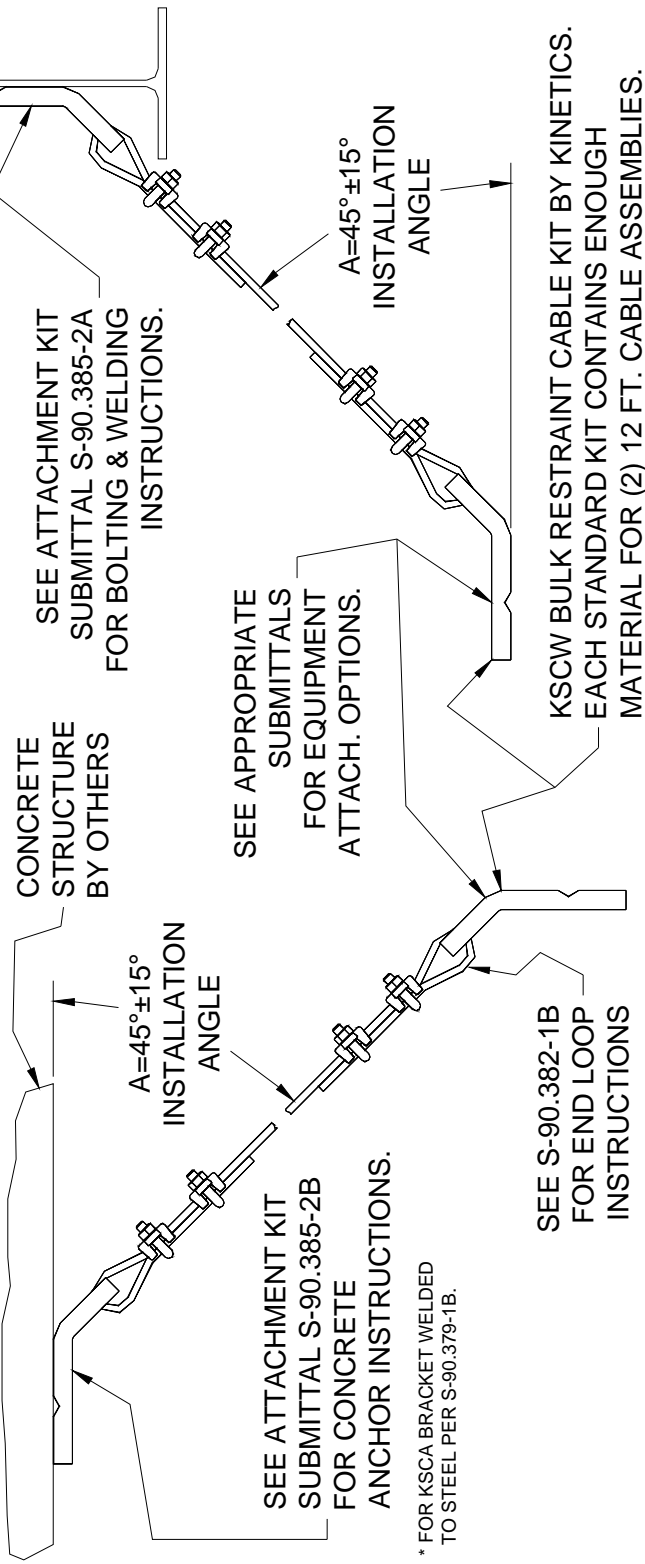
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MODEL	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°		
	in.	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----		955	II	955	II	825	II	675	II	475	I
KSWC-125B	1/8	1,635	III	1,175	III	1,415	III	1,155	III	815	II
KSWC-187B	3/16	2,960	IV	1,175	III	2,560	IV	2,090	IV	1,480	III
KSWC-250B	1/4										



## KSWC U-BOLT CLIP BULK CABLE RESTRAINT KIT (KSCA – KSCA)

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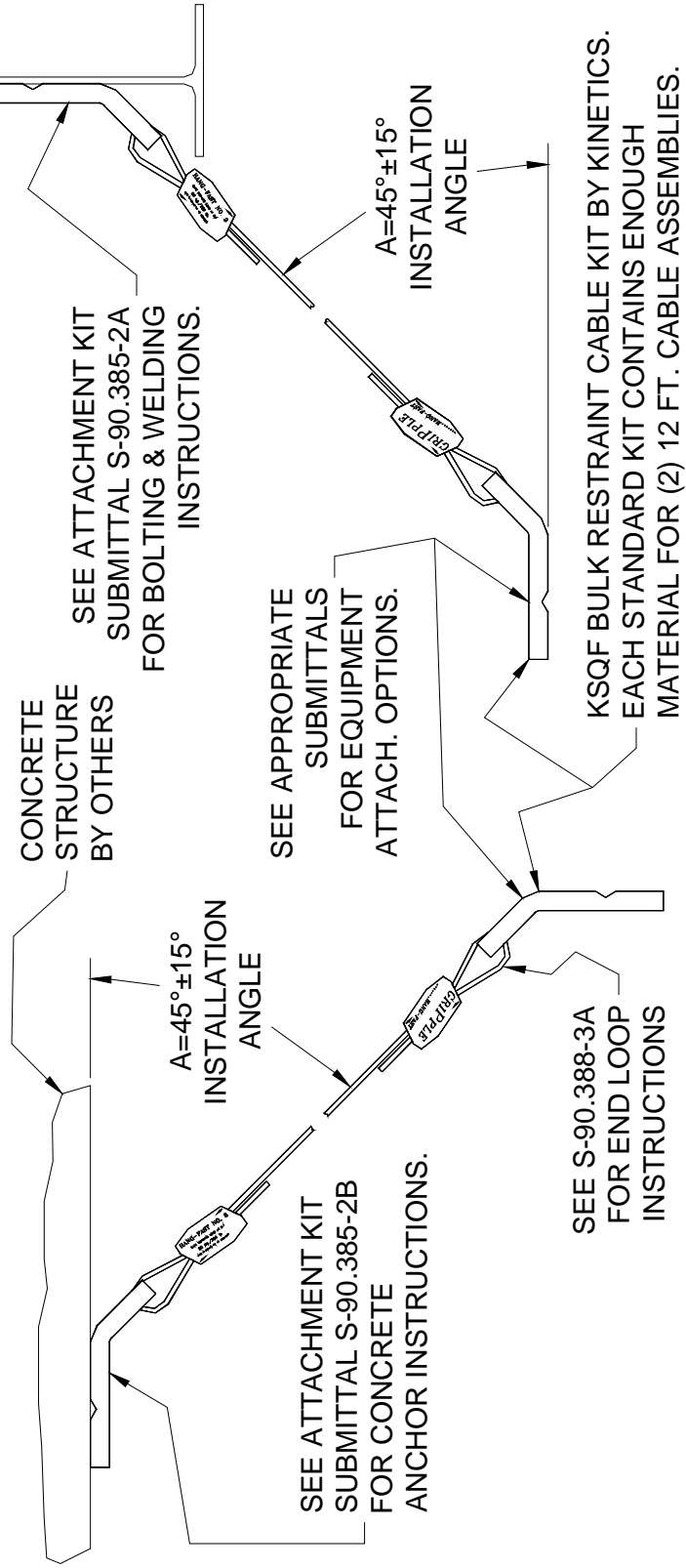
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MODEL	CABLE SIZE	MAX. CABLE TENSION		MAX. HORIZONTAL CABLE FORCE @ A=0°		MAX. HORIZONTAL CABLE FORCE @ A=30°		MAX. HORIZONTAL CABLE FORCE @ A=45°		MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
KSQF-125	1/8	500	-----	500	I	430	I	350	I	250	-0-
KSQF-187	3/16	1,235	-----	1,235	III	1,065	III	870	III	615	II



## KSQF GRIPPLE BULK CABLE RESTRAINT KIT (KSCA – KSCA)

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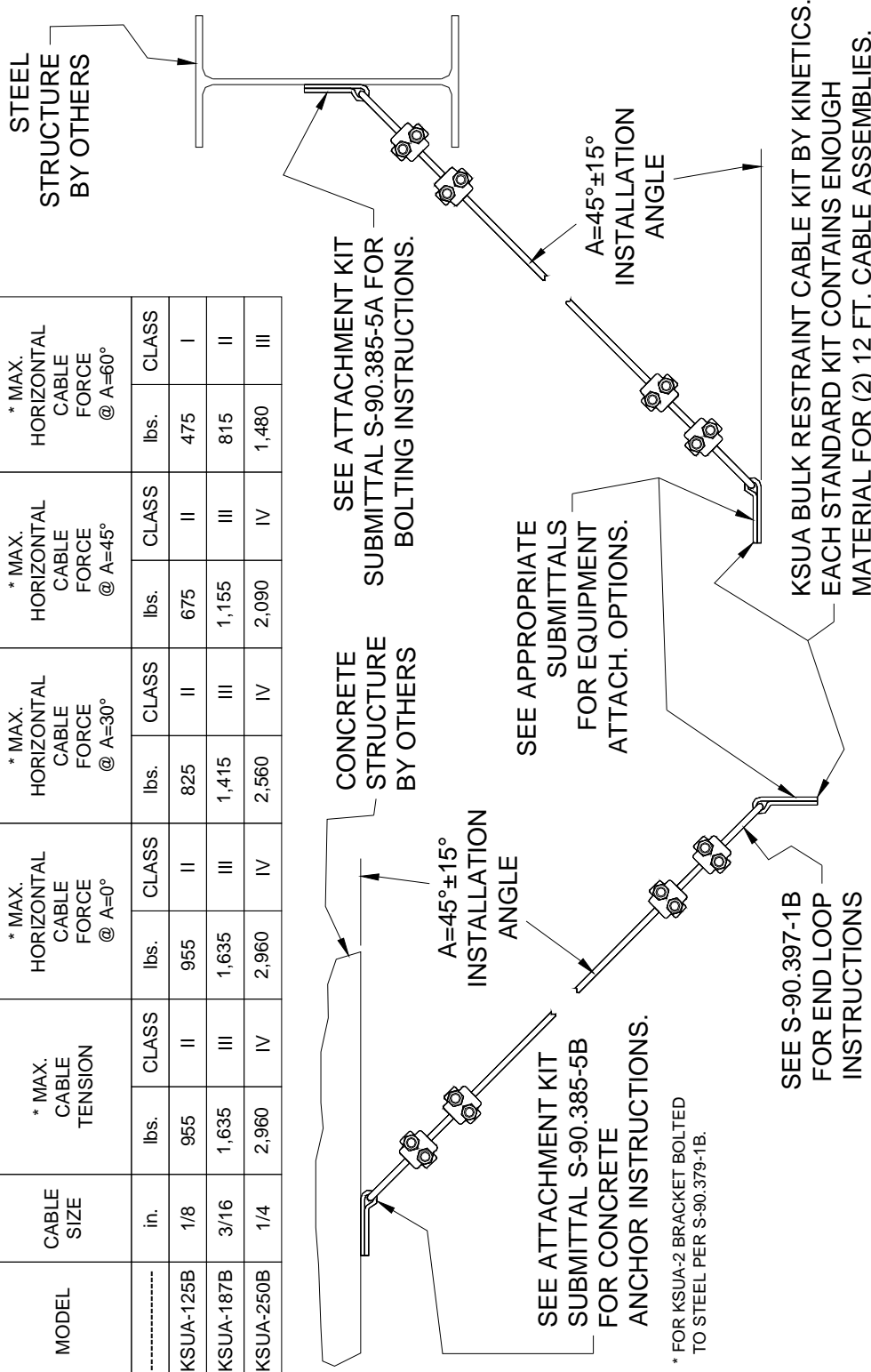
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MODEL	CABLE SIZE	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----	in.										
KSUA-125B	1/8	955	II	955	II	825	II	675	II	475	I
KSUA-187B	3/16	1,635	III	1,635	III	1,415	III	1,155	III	815	II
KSUA-250B	1/4	2,960	IV	2,960	IV	2,560	IV	2,090	IV	1,480	III



## KSUA U-BOLT CLIP BULK CABLE RESTRAINT KIT (KSUA – KSUA)

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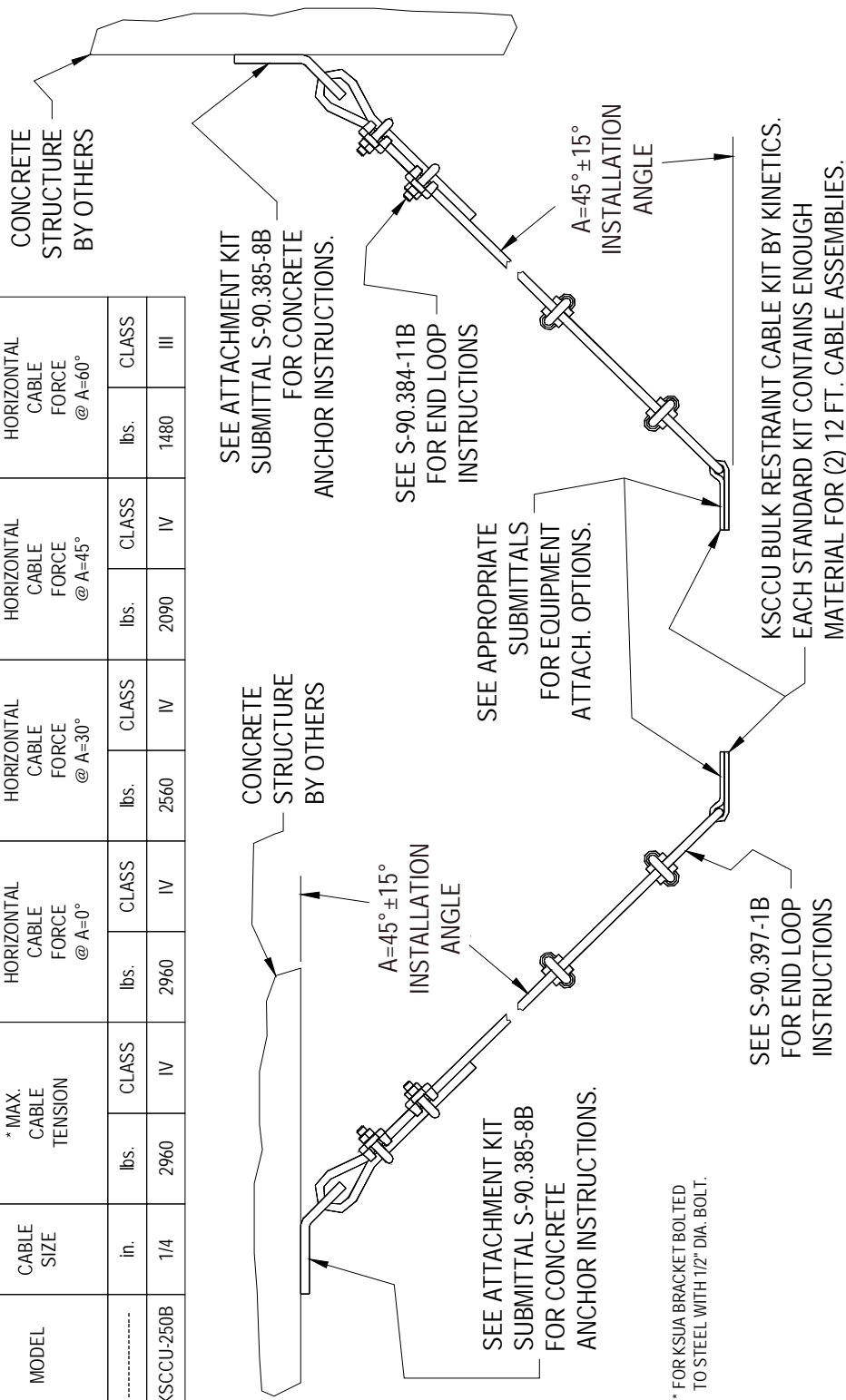
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 World Wide Web: www.kineticsnoise.com  
 Email: sales@kineticsnoise.com

DOCUMENT:

P7.3.3



MODEL	CABLE SIZE	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
----- KSCCU-250B	1/4	2960	IV	2960	IV	2560	IV	2090	IV	1480	III



## KSCCU U-BOLT CLIP BULK CABLE RESTRAINT KIT (CCA – KSUA)

PAGE 1 OF 1 - DRAWING # S-90.384-10A

RELEASE DATE: 5/21/04



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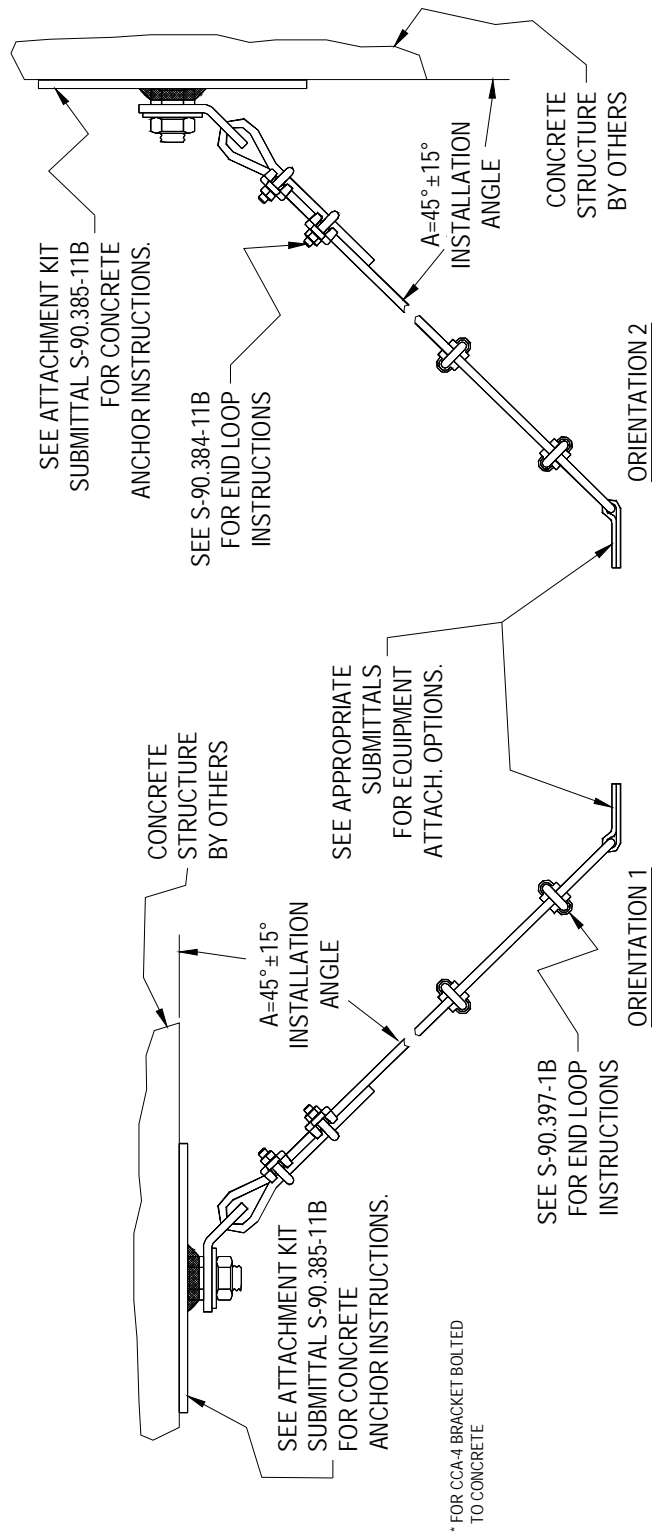
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 Fax: 614-889-0540  
 World Wide Web: www.kineticsnoise.com  
 Email: sales@kineticsnoise.com

DOCUMENT:

P7.3.4



MODEL	CABLE SIZE	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
.....	in.										
KSCCU4-250B	1/4	2960	IV	2960	IV	2560	IV	2090	IV	1480	III
											ORIENTATION
											1 or 2



## KSCCU4 U-BOLT CLIP BULK CABLE RESTRAINT KIT (CCA-4 – KSUA)

PAGE 1 OF 1 - DRAWING # S-90.384-13A

RELEASE DATE: 5/21/04



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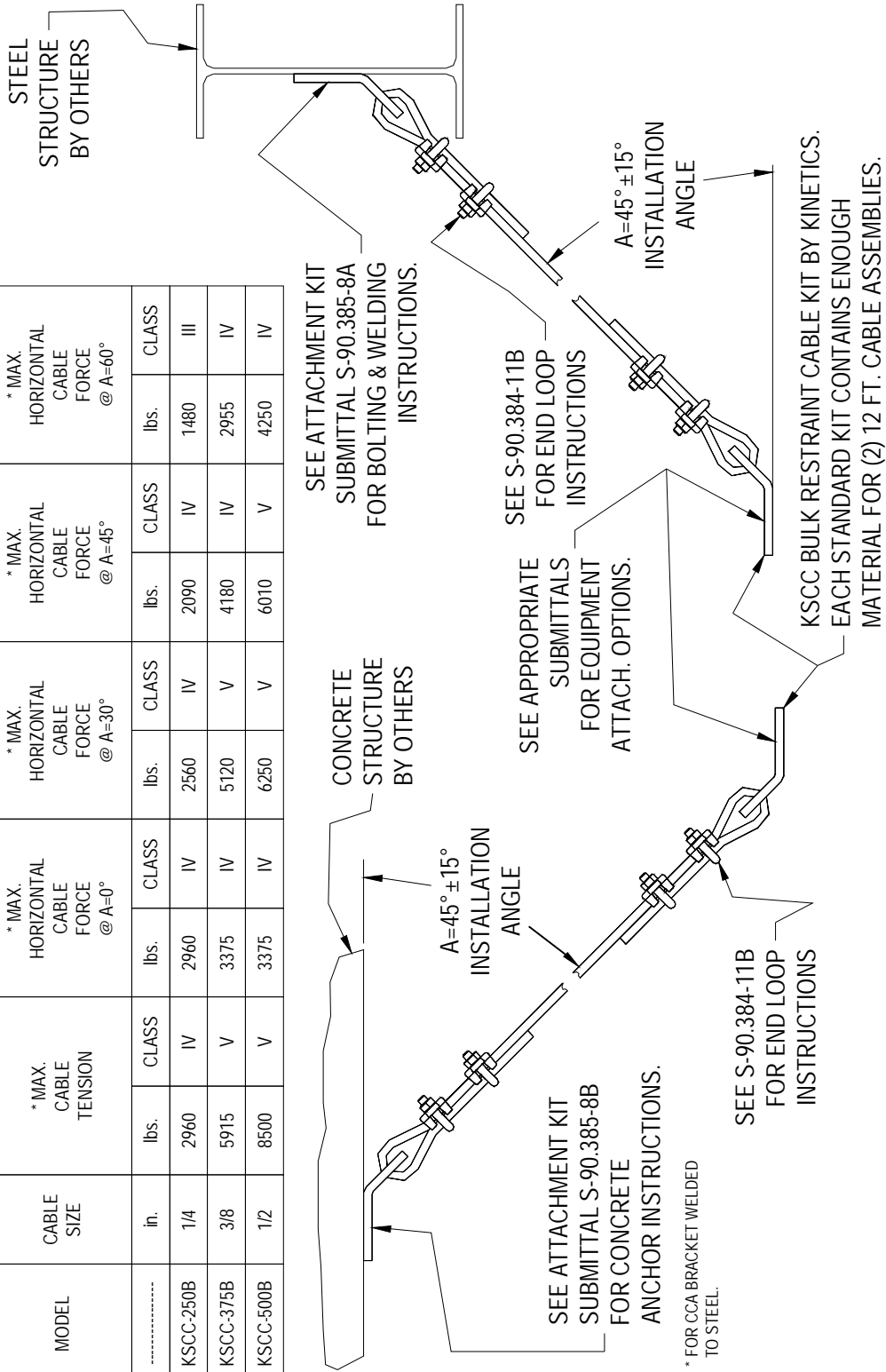
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DOCUMENT:

P7.3.5



MODEL	CABLE SIZE	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----	in.										
KSCC-250B	1/4	2960	IV	2960	IV	2560	IV	2090	IV	1480	III
KSCC-375B	3/8	5915	V	3375	IV	5120	V	4180	IV	2955	IV
KSCC-500B	1/2	8500	V	3375	IV	6250	V	6010	V	4250	IV



**KSCC U-BOLT CLIP BULK CABLE RESTRAINT KIT (CCA – CCA)**

PAGE 1 OF 1 - DRAWING # S-90.384-11A

RELEASE DATE: 5/21/04



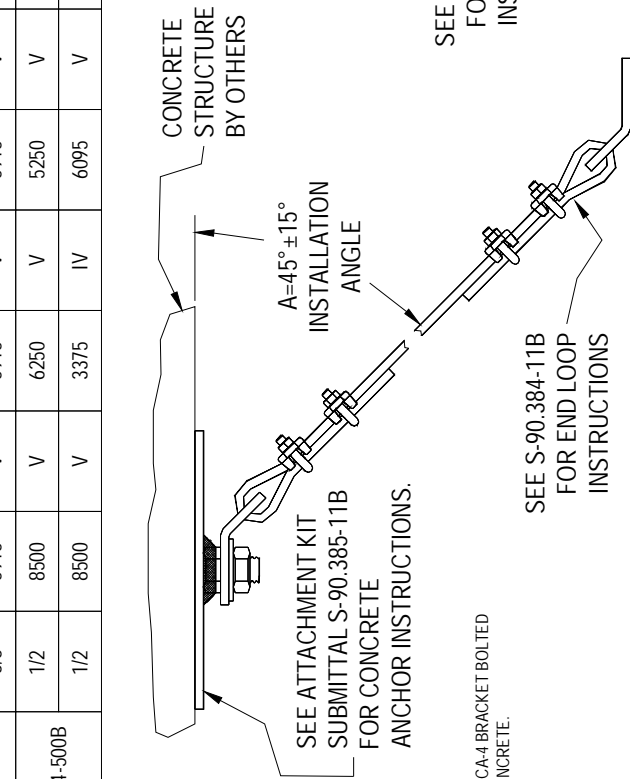
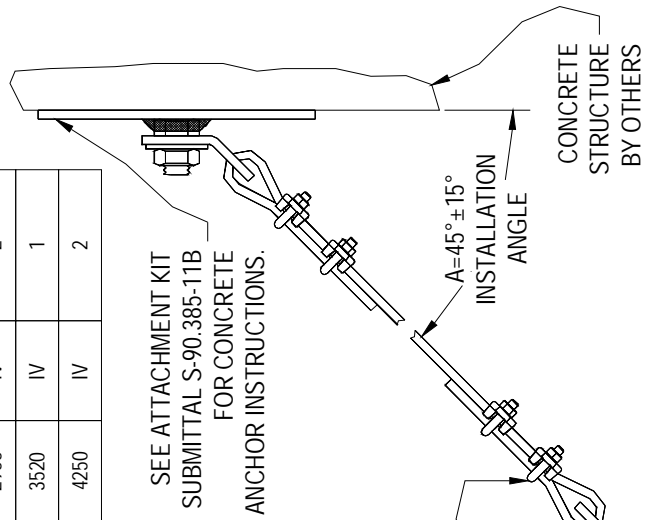
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 Email: sales@kineticsnoise.com

DOCUMENT:  
**P7.3.6**



MODEL	CABLE SIZE	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
KSCC4-250B	1/4	2960	IV	2960	IV	2560	IV	2090	IV	1470	III
	3/8	5915	V	5915	V	5020	V	5585	V	2955	IV
KSCC4-375B	3/8	5915	V	5915	V	5915	V	5585	V	2955	IV
	1/2	8500	V	6250	V	5250	V	5585	V	3520	IV
KSCC4-500B	1/2	8500	V	3375	IV	6095	V	5585	V	4250	IV



\* FOR CCA-4 BRACKET BOLTED TO CONCRETE.

ORIENTATION 2

ORIENTATION 1

# KSCC4 U-BOLT CLIP BULK CABLE RESTRAINT KIT (CCA-4 – CCA)

PAGE 1 OF 1 - DRAWING # S-90.384-12A

RELEASE DATE 5/21/04



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DOCUMENT:

P7.3.7



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MODEL	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°		
	in.	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----											
KSWC-125B	1/8	955	II	955	II	825	II	675	II	475	I
KSWC-187B	3/16	1,635	III	1,175	III	1,415	III	1,155	III	815	II
KSWC-250B	1/4	2,960	IV	1,175	III	2,560	IV	2,090	IV	1,480	III

STEEL STRUCTURE BY OTHERS

SEE ATTACHMENT KIT SUBMITTAL S-90.385-2A FOR BOLTING & WELDING INSTRUCTIONS.

CONCRETE STRUCTURE BY OTHERS

SEE APPROPRIATE SUBMITTALS FOR EQUIPMENT ATTACH. OPTIONS.

KSCW BULK RESTRAINT CABLE KIT BY KINETICS. EACH STANDARD KIT CONTAINS ENOUGH MATERIAL FOR (2) 12 FT. CABLE ASSEMBLIES.

A=45°±15° INSTALLATION ANGLE

SEE ATTACHMENT KIT SUBMITTAL S-90.385-2B FOR CONCRETE ANCHOR INSTRUCTIONS.

\* FOR KSCA BRACKET WELDED TO STEEL PER S-90.379-1B.

SEE S-90.382-1B FOR END LOOP INSTRUCTIONS

**KSWC U-BOLT CLIP BULK CABLE RESTRAINT KIT (KSCA – KSCA)**

PAGE 1 OF 1 - DRAWING # S-90.384-2A


RELEASE DATE: 5/21/04



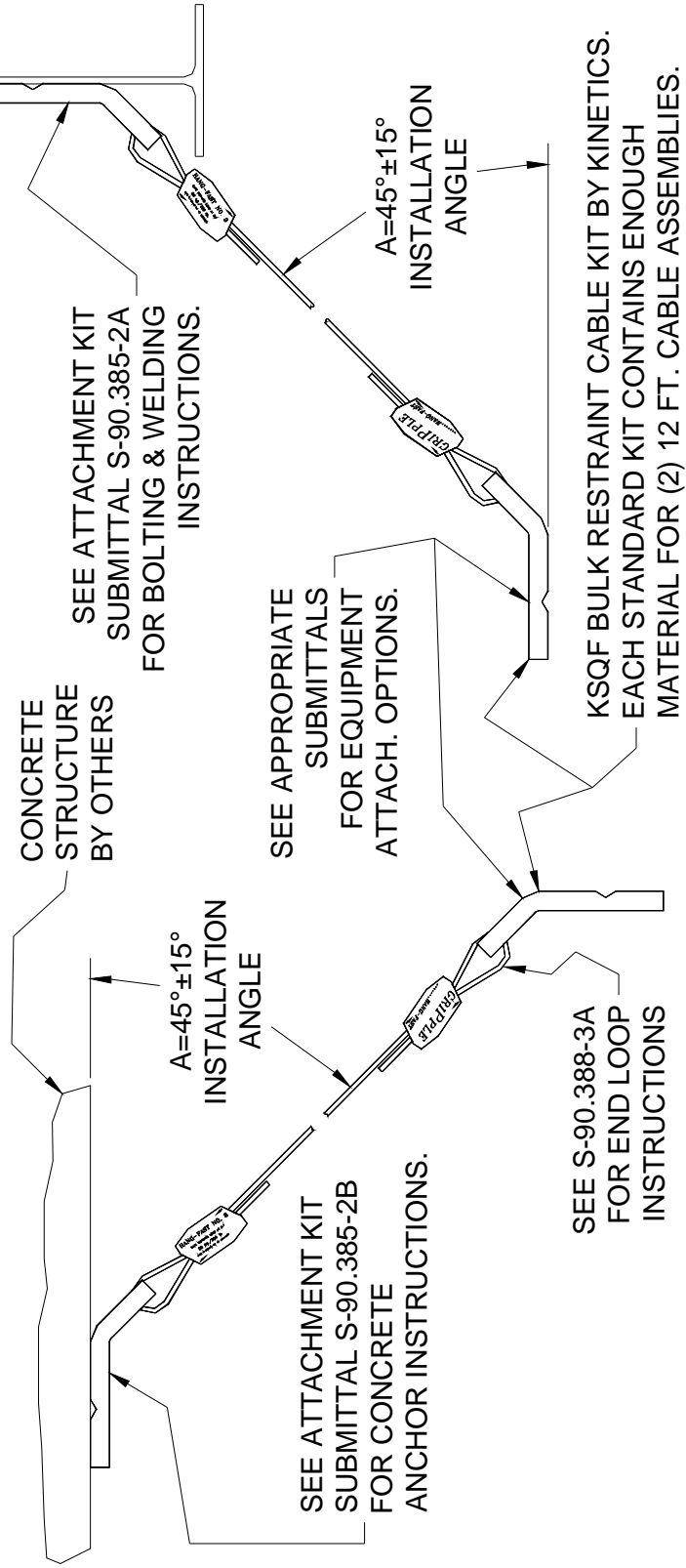
**KINETICS**  
Noise Control

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DOCUMENT:  
**P7.3.1**  


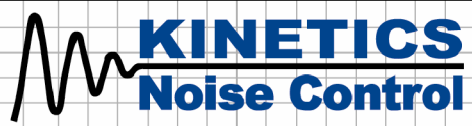
MODEL	CABLE SIZE	MAX. CABLE TENSION		MAX. HORIZONTAL CABLE FORCE @ A=0°		MAX. HORIZONTAL CABLE FORCE @ A=30°		MAX. HORIZONTAL CABLE FORCE @ A=45°		MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
KSQF-125	1/8	500	-----	500	I	430	I	350	I	250	-0-
KSQF-187	3/16	1,235	-----	1,235	III	1,065	III	870	III	615	II



## KSQF GRIPPLE BULK CABLE RESTRAINT KIT (KSCA – KSCA)

PAGE 1 OF 1 - DRAWING # S-90.384-4A

RELEASE DATE: 5/21/04



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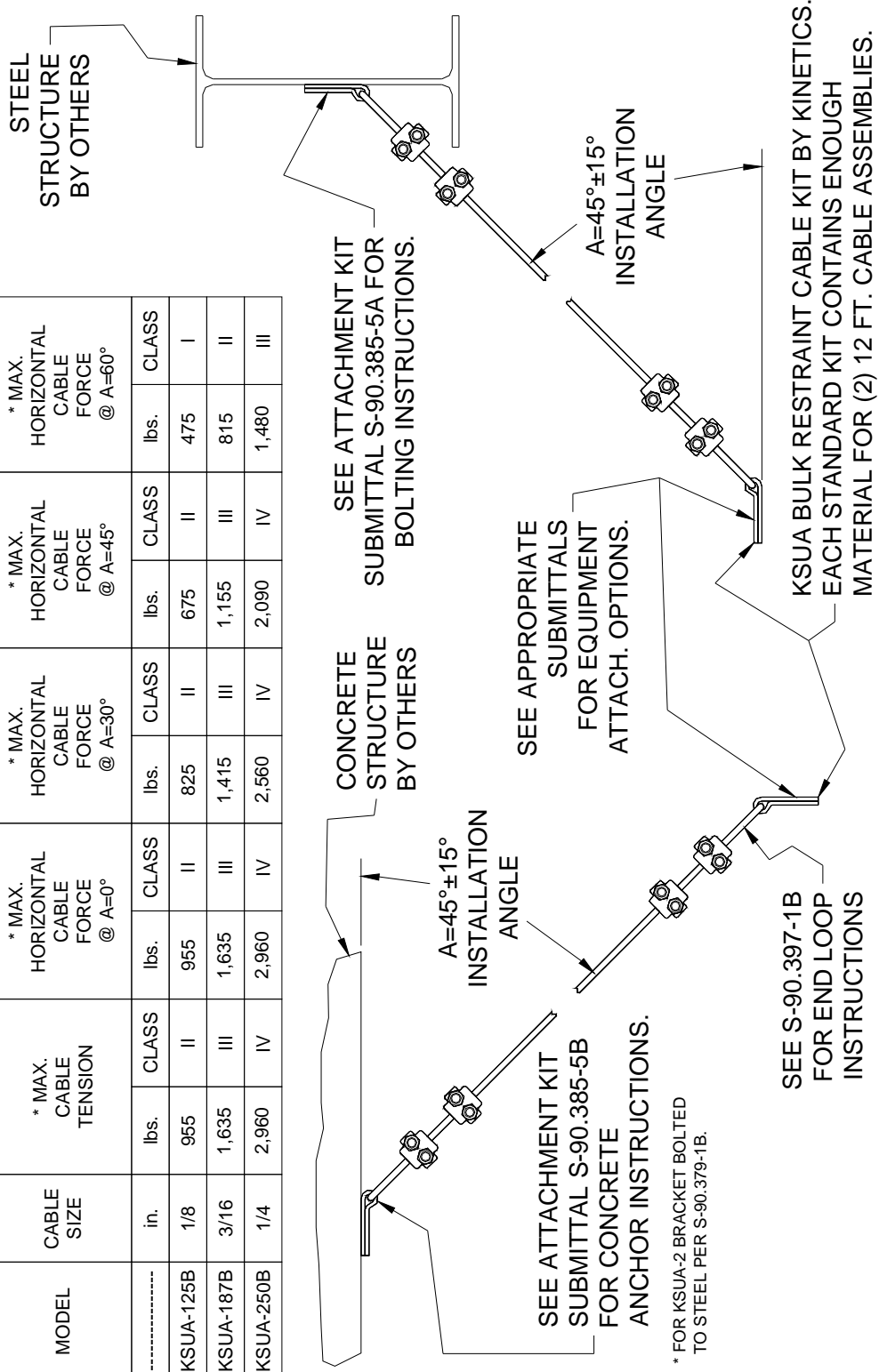
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DOCUMENT:

P7.3.2



MODEL	CABLE SIZE	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----	in.										
KSUA-125B	1/8	955	II	955	II	825	II	675	II	475	I
KSUA-187B	3/16	1,635	III	1,635	III	1,415	III	1,155	III	815	II
KSUA-250B	1/4	2,960	IV	2,960	IV	2,560	IV	2,090	IV	1,480	III



## KSUA U-BOLT CLIP BULK CABLE RESTRAINT KIT (KSUA – KSUA)

PAGE 1 OF 1 - DRAWING # S-90.384-8A

RELEASE DATE: 5/21/04



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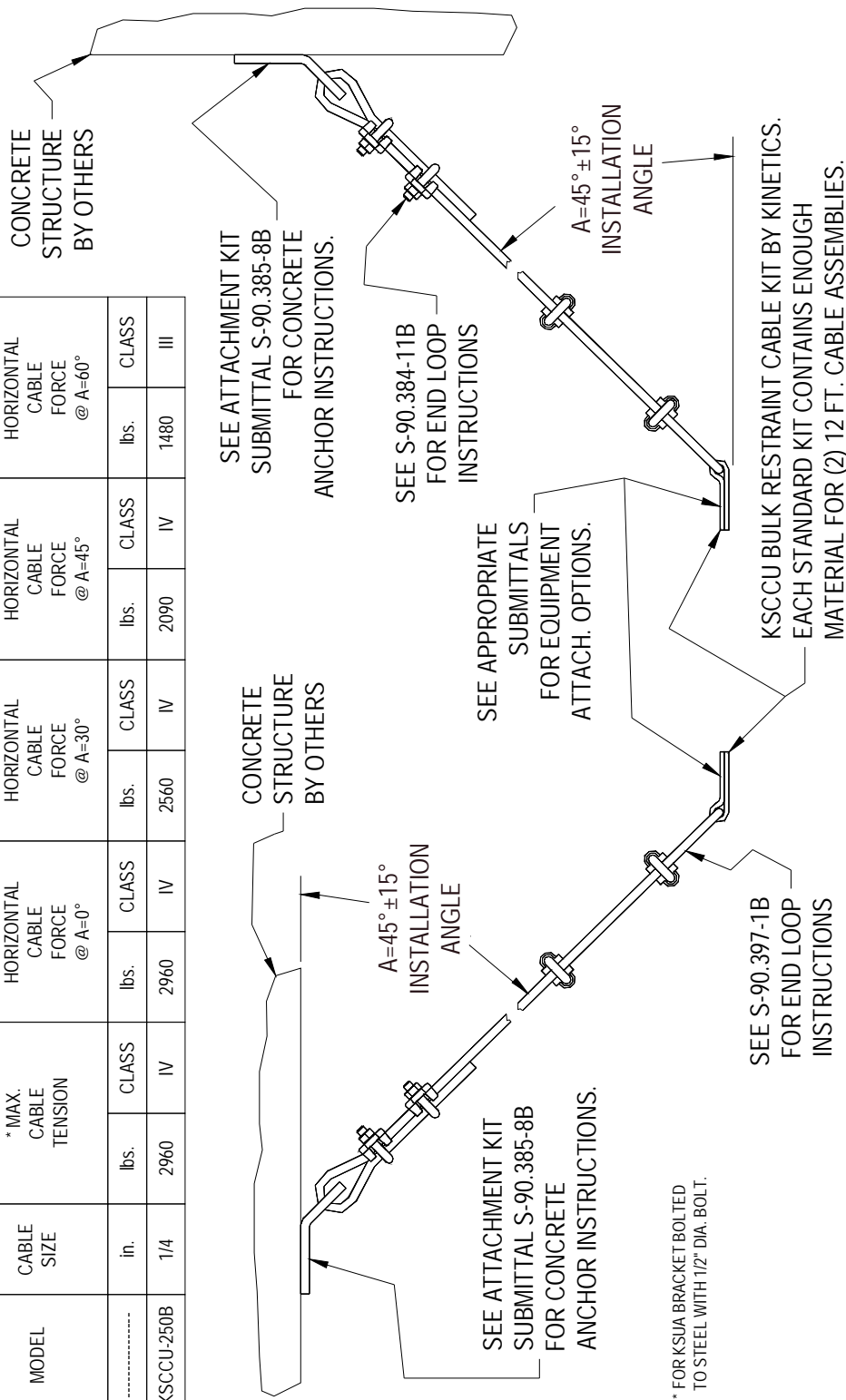
DOCUMENT:

P7.3.3





MODEL	CABLE SIZE	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
----- KSCCU-250B	1/4	2960	IV	2960	IV	2560	IV	2090	IV	1480	III



## KSCCU U-BOLT CLIP BULK CABLE RESTRAINT KIT (CCA – KSUA)

PAGE 1 OF 1 - DRAWING # S-90.384-10A

RELEASE DATE: 5/21/04



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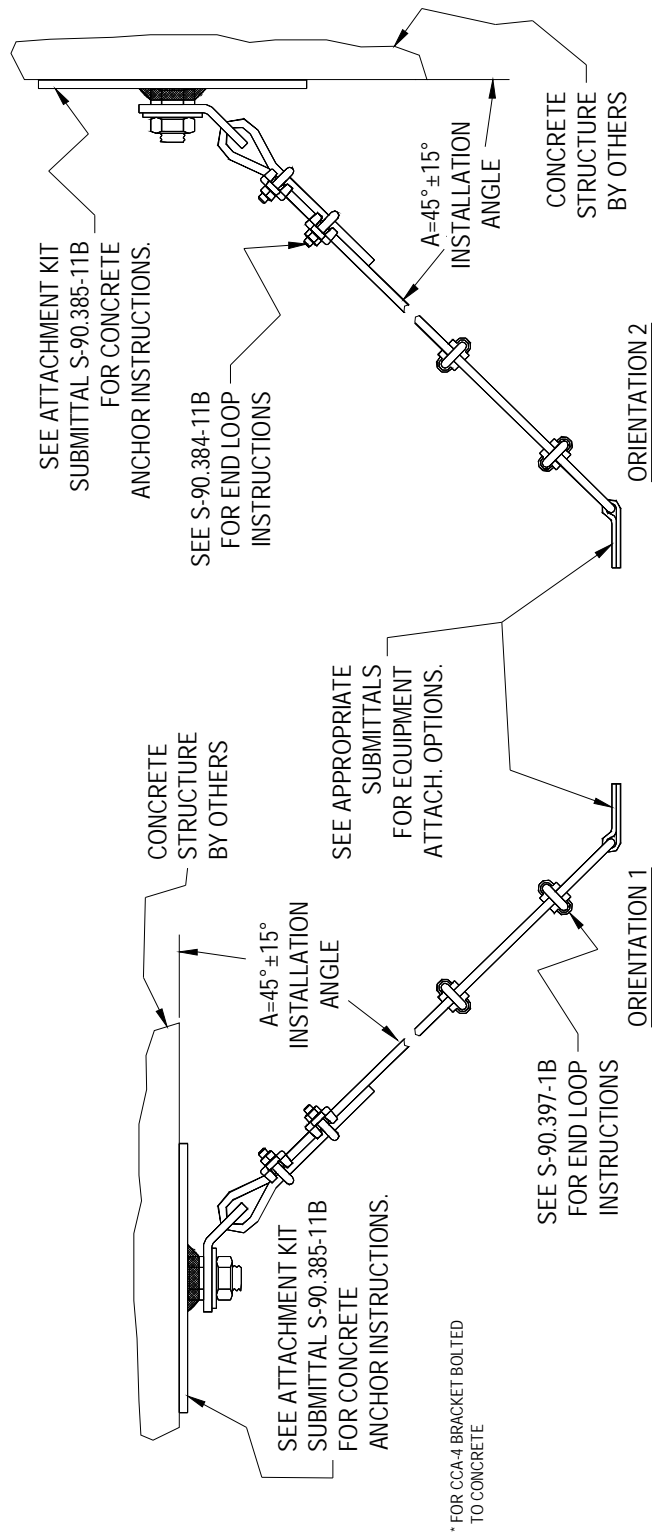
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DOCUMENT:

P7.3.4



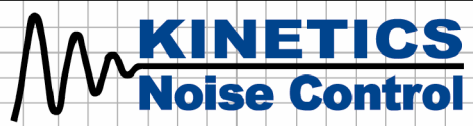
MODEL	CABLE SIZE	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°		
		in.	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	ORIENTATION	
KSCCU4-250B	1/4	2960	IV	2960	IV	2560	IV	2090	IV	1480	III	1 or 2



## KSCCU4 U-BOLT CLIP BULK CABLE RESTRAINT KIT (CCA-4 – KSUA)

PAGE 1 OF 1 - DRAWING # S-90.384-13A

RELEASE DATE: 5/21/04



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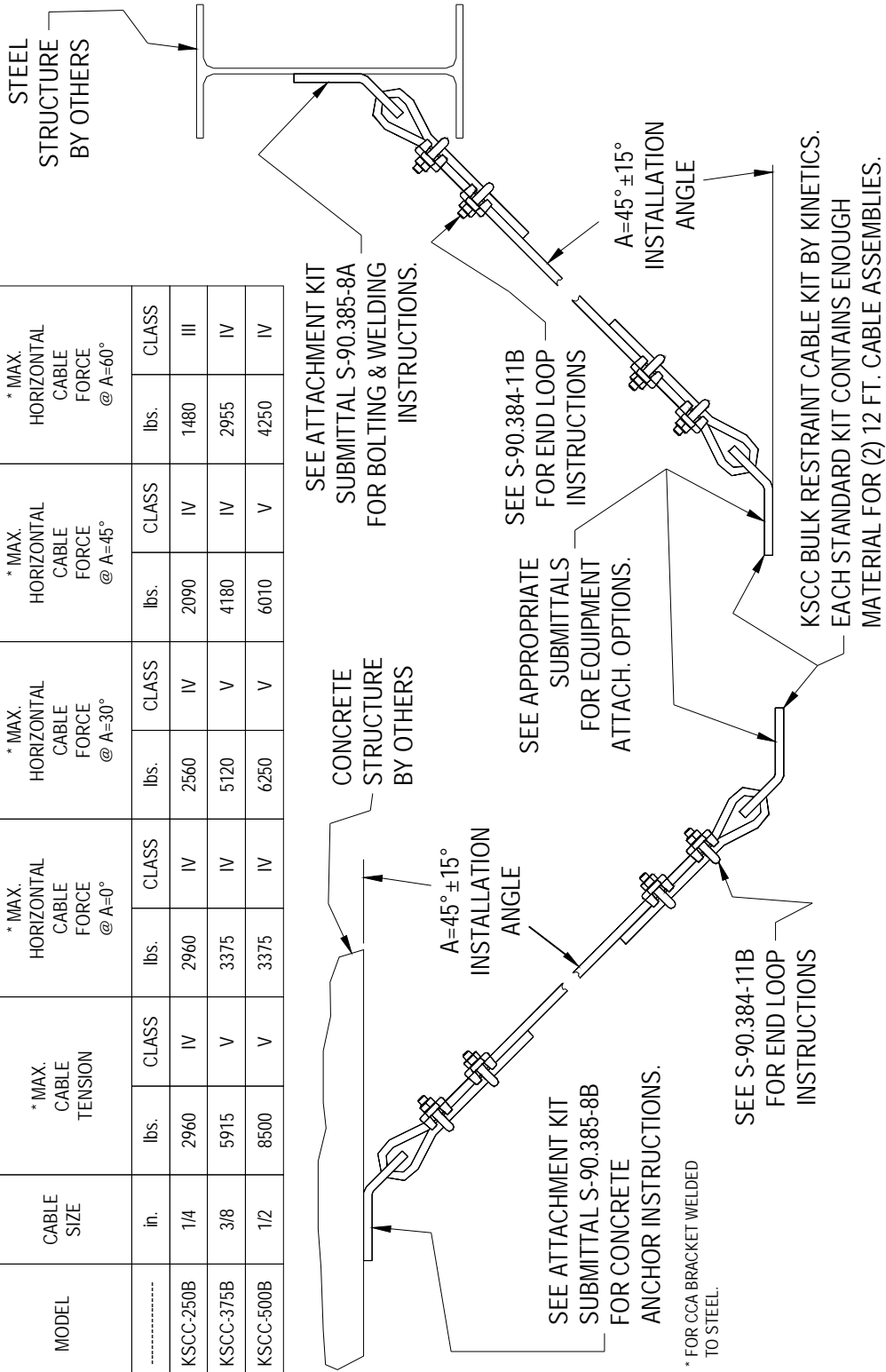
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DOCUMENT:

P7.3.5



MODEL	CABLE SIZE	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
-----	in.										
KSCC-250B	1/4	2960	IV	2960	IV	2560	IV	2090	IV	1480	III
KSCC-375B	3/8	5915	V	3375	IV	5120	V	4180	IV	2955	IV
KSCC-500B	1/2	8500	V	3375	IV	6250	V	6010	V	4250	IV



## KSCC U-BOLT CLIP BULK CABLE RESTRAINT KIT (CCA – CCA)

PAGE 1 OF 1 - DRAWING # S-90.384-11A

RELEASE DATE: 5/21/04



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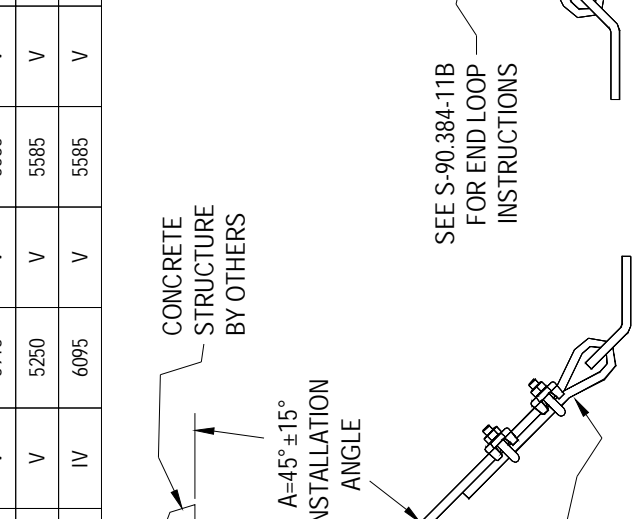
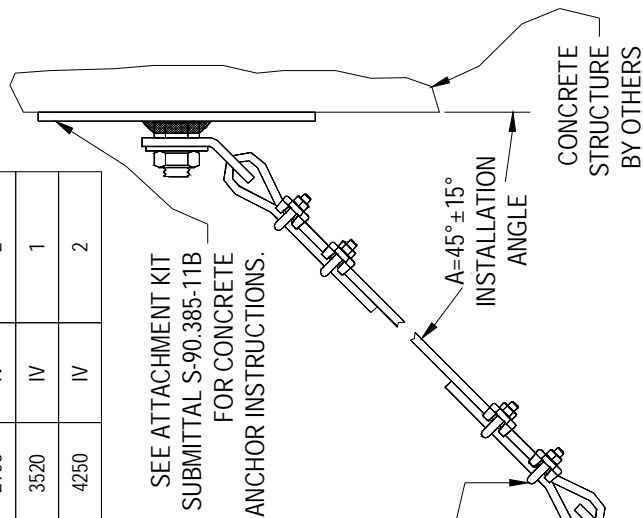
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MODEL	* MAX. CABLE TENSION		* MAX. HORIZONTAL CABLE FORCE @ A=0°		* MAX. HORIZONTAL CABLE FORCE @ A=30°		* MAX. HORIZONTAL CABLE FORCE @ A=45°		* MAX. HORIZONTAL CABLE FORCE @ A=60°	
	in.	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	ORIENTATION
KSCC4-250B	1/4	2960	IV	2560	IV	2090	IV	1470	III	1 or 2
	3/8	5915	V	5020	V	5585	V	2955	IV	1
KSCC4-375B	3/8	5915	V	5915	V	5915	V	2955	IV	2
	1/2	8500	V	5250	V	5585	V	3520	IV	1
KSCC4-500B	1/2	8500	V	6095	V	5585	V	4250	IV	2



\* FOR CCA-4 BRACKET BOLTED TO CONCRETE.

## KSCC4 U-BOLT CLIP BULK CABLE RESTRAINT KIT (CCA-4 – CCA)

PAGE 1 OF 1 - DRAWING # S-90.384-12A

RELEASE DATE 5/21/04



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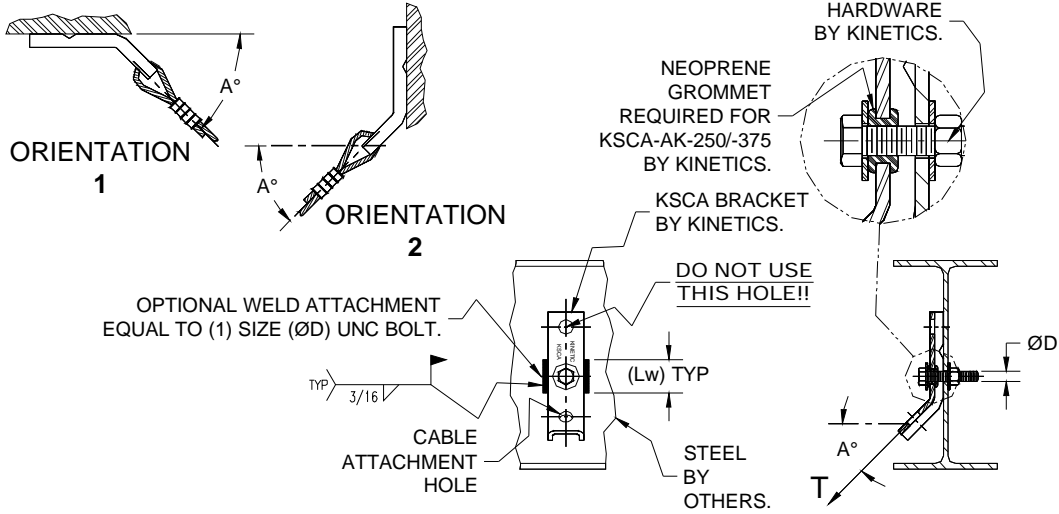
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P7.3.7



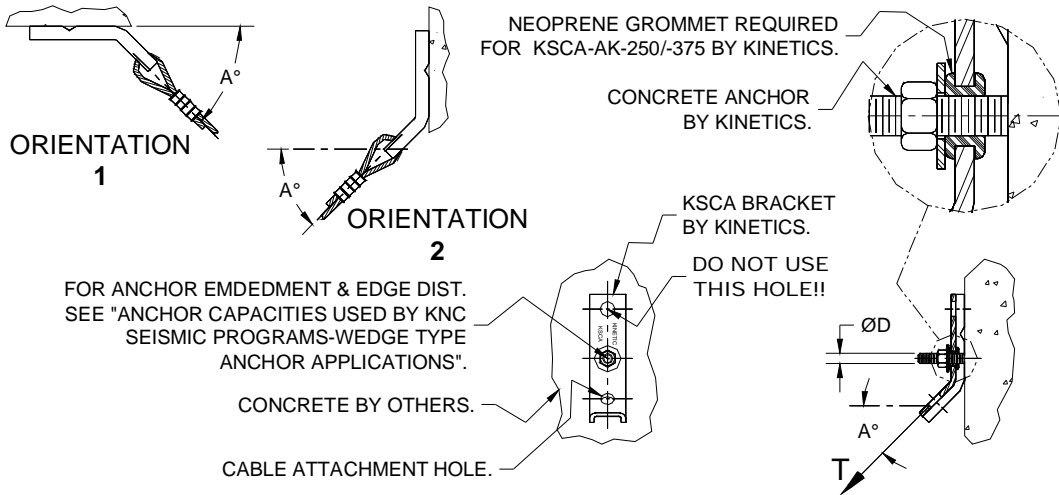
## THROUGH BOLTED OR WELDED

MODEL	BOLT/ ANCHOR SIZE (ØD) (UNC)	WELD LENGTH (Lw)	MAX. HORIZ. FORCE ORIENTATION 1 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=60°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=60°	
			lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
KSCA-AK-250	0.25	1.00	570	II	985	II	695	II	405	I	625	II	705	II	695	II	570	II
KSCA-AK-375	0.38	1.25	1,175	III	2,405	III	1,700	III	995	II	1,175	III	1,725	III	1,700	III	1,385	III
KSCA-AK-500	0.50	2.00	1,175	III	2,970	IV	2,970	IV	1,820	III	1,175	III	2,970	IV	2,970	IV	2,540	IV



## ANCHORED TO CONCRETE

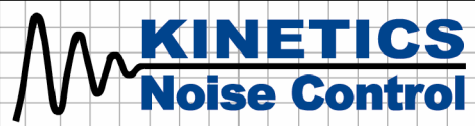
MODEL	BOLT/ ANCHOR SIZE (ØD) (UNC)	MAX. HORIZ. FORCE ORIENTATION 1 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=60°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
KSCA-AK-250	0.25	200	-0-	415	I	255	I	140	-0-	215	-0-	240	-0-	255	I	240	-0-
KSCA-AK-375	0.38	435	I	990	II	560	II	300	I	450	I	520	II	560	II	570	II
KSCA-AK-500	0.50	665	II	1,620	III	865	II	455	I	670	II	785	II	865	II	935	II



## KSCA-AK CABLE ANCHORAGE HARDWARE KIT FOR KSCA BRACKETS

PAGE 1 OF 1 - DRAWING # S-90.385-2A & S-90.385-2B

RELEASE DATE: 5/21/04



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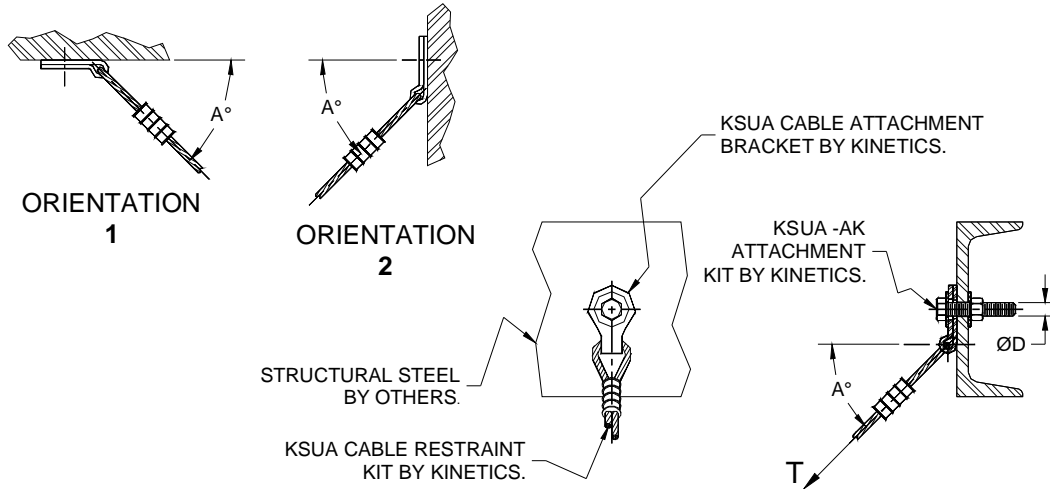
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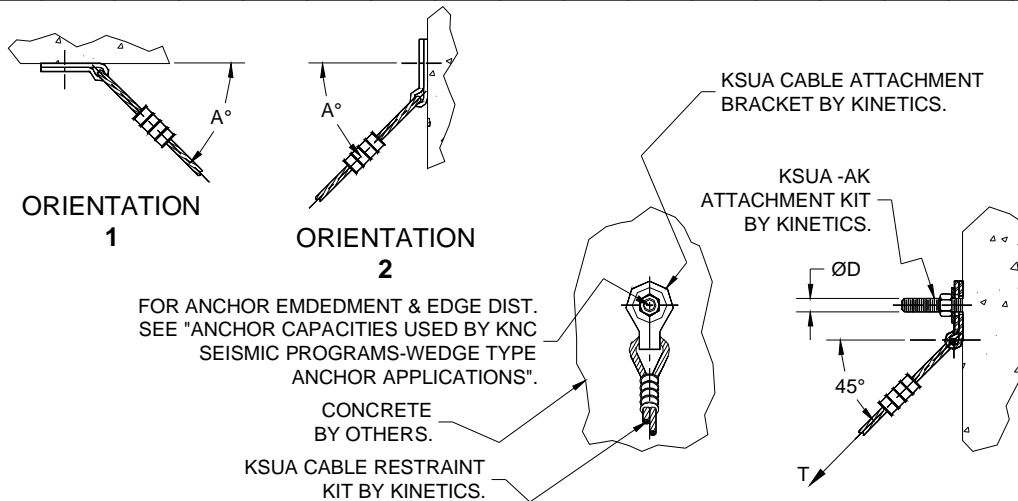
# THROUGH BOLTED OR WELDED

MODEL	BOLT/ ANCHOR SIZE (ØD) (UNC)			MAX. HORIZ. FORCE ORIENTATION 1 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=60°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=60°		
	in.	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	
KSUA-AK-250	0.25	1,085	III	625	II	450	I	290	I	540	II	505	II	450	I	360	I			
KSUA-AK-375	0.38	2,650	IV	1,530	III	1,095	III	710	II	1,325	III	1,230	III	1,095	III	880	II			
KSUA-AK-500	0.50	4,850	IV	2,800	IV	2,010	IV	1,300	III	2,425	IV	2,250	IV	2,010	IV	1,615	III			



# ANCHORED TO CONCRETE

MODEL	BOLT/ ANCHOR SIZE (ØD) (UNC)			MAX. HORIZ. FORCE ORIENTATION 1 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=60°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=60°		
	in.	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	
KSUA-AK-250	0.25	530	II	260	I	170	-0-	100	-0-	185	-0-	175	-0-	170	-0-	150	-0-			
KSUA-AK-375	0.38	1,360	III	575	II	360	I	220	-0-	390	I	380	I	360	I	330	I			
KSUA-AK-500	0.50	2,390	IV	885	II	550	II	330	I	580	II	570	II	550	II	510	II			



FOR ANCHOR EMBEDMENT & EDGE DIST. SEE "ANCHOR CAPACITIES USED BY KNC SEISMIC PROGRAMS-WEDGE TYPE ANCHOR APPLICATIONS".

## KSUA-AK CABLE ANCHORAGE HARDWARE KIT FOR KSUA BRACKETS

PAGE 1 OF 1 - DRAWING # S-90.385-5A & S-90.385-5B

RELEASE DATE: 5/21/04



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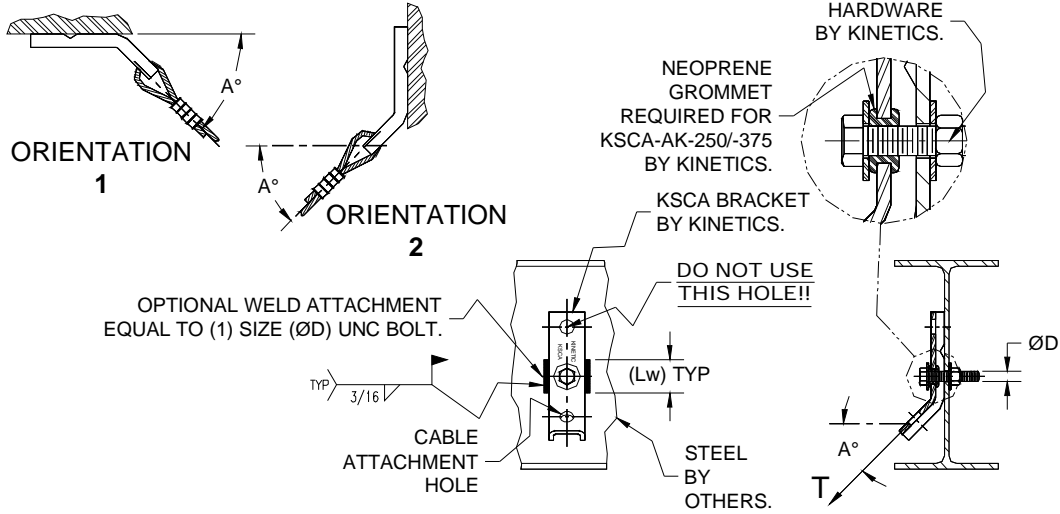
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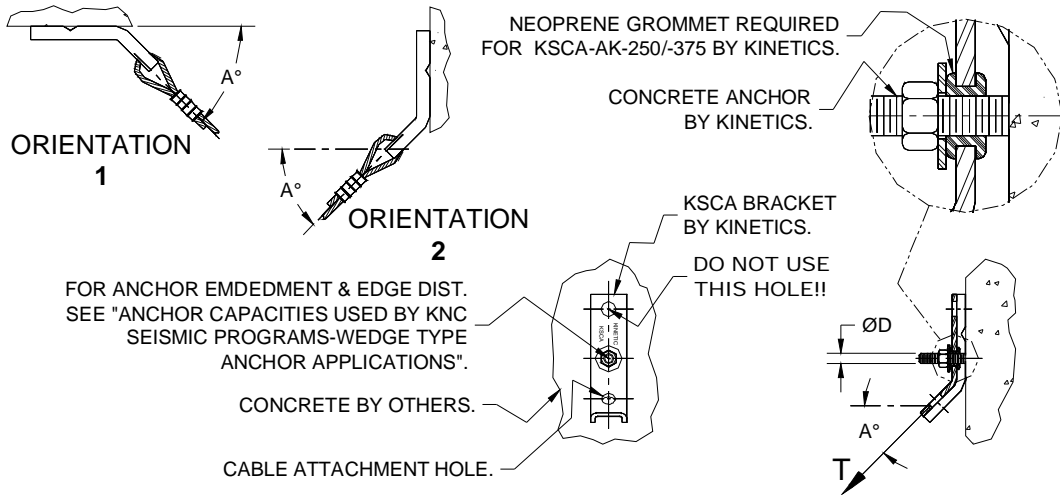
## THROUGH BOLTED OR WELDED

MODEL	BOLT/ ANCHOR SIZE (ØD) (UNC)	WELD LENGTH (Lw)	MAX. HORIZ. FORCE ORIENTATION 1 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=60°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=60°	
			lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
KSCA-AK-250	0.25	1.00	570	II	985	II	695	II	405	I	625	II	705	II	695	II	570	II
KSCA-AK-375	0.38	1.25	1,175	III	2,405	III	1,700	III	995	II	1,175	III	1,725	III	1,700	III	1,385	III
KSCA-AK-500	0.50	2.00	1,175	III	2,970	IV	2,970	IV	1,820	III	1,175	III	2,970	IV	2,970	IV	2,540	IV



## ANCHORED TO CONCRETE

MODEL	BOLT/ ANCHOR SIZE (ØD) (UNC)	MAX. HORIZ. FORCE ORIENTATION 1 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=60°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=60°	
		lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS
KSCA-AK-250	0.25	200	-0-	415	I	255	I	140	-0-	215	-0-	240	-0-	255	I	240	-0-
KSCA-AK-375	0.38	435	I	990	II	560	II	300	I	450	I	520	II	560	II	570	II
KSCA-AK-500	0.50	665	II	1,620	III	865	II	455	I	670	II	785	II	865	II	935	II



## KSCA-AK CABLE ANCHORAGE HARDWARE KIT FOR KSCA BRACKETS

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RELEASE DATE: 5/21/04



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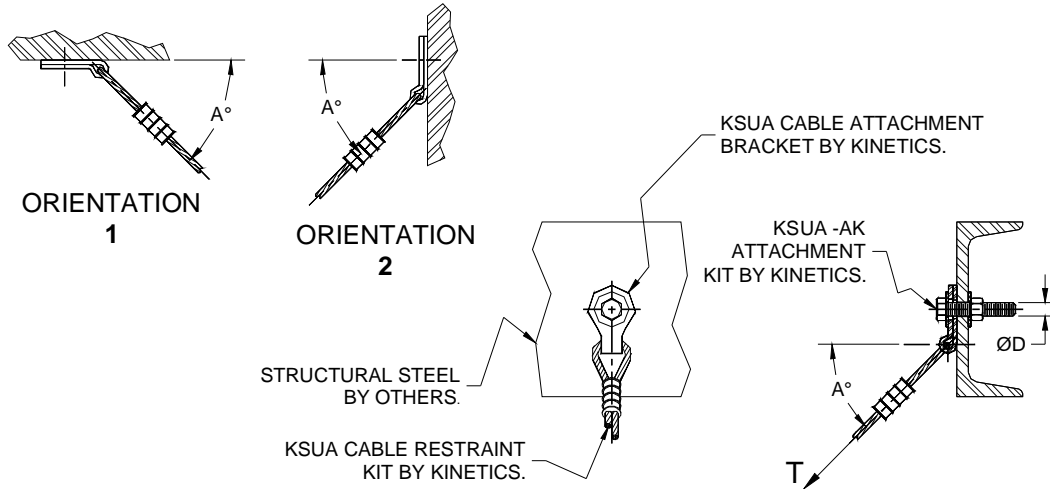
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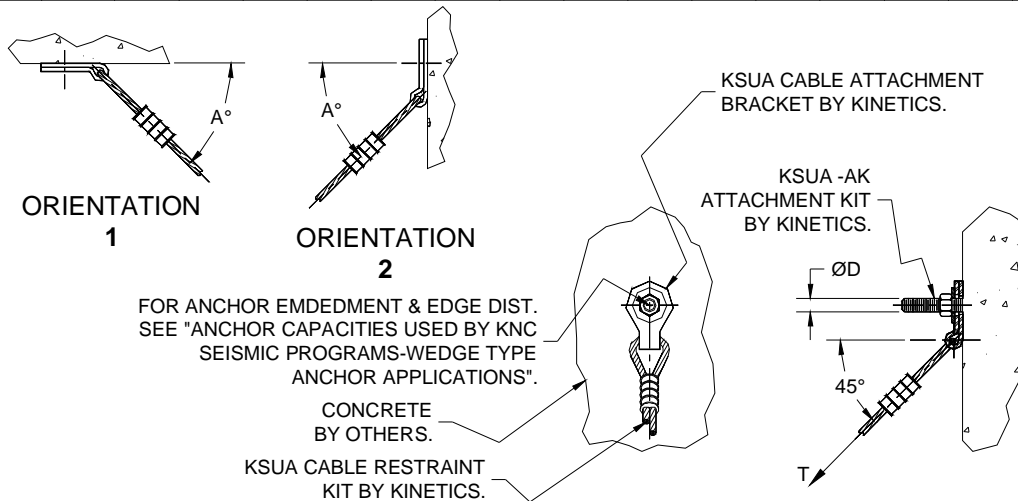
# THROUGH BOLTED OR WELDED

MODEL	BOLT/ ANCHOR SIZE (ØD) (UNC)			MAX. HORIZ. FORCE ORIENTATION 1 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=60°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=60°		
	in.	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	
KSUA-AK-250	0.25	1,085	III	625	II	450	I	290	I	540	II	505	II	450	I	360	I			
KSUA-AK-375	0.38	2,650	IV	1,530	III	1,095	III	710	II	1,325	III	1,230	III	1,095	III	880	II			
KSUA-AK-500	0.50	4,850	IV	2,800	IV	2,010	IV	1,300	III	2,425	IV	2,250	IV	2,010	IV	1,615	III			



# ANCHORED TO CONCRETE

MODEL	BOLT/ ANCHOR SIZE (ØD) (UNC)			MAX. HORIZ. FORCE ORIENTATION 1 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 1 @ A=60°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=0°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=30°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=45°		MAX. HORIZ. FORCE ORIENTATION 2 @ A=60°		
	in.	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	lbs.	CLASS	
KSUA-AK-250	0.25	530	II	260	I	170	-0-	100	-0-	185	-0-	175	-0-	170	-0-	150	-0-			
KSUA-AK-375	0.38	1,360	III	575	II	360	I	220	-0-	390	I	380	I	360	I	330	I			
KSUA-AK-500	0.50	2,390	IV	885	II	550	II	330	I	580	II	570	II	550	II	510	II			



FOR ANCHOR EMBEDMENT & EDGE DIST. SEE "ANCHOR CAPACITIES USED BY KNC SEISMIC PROGRAMS-WEDGE TYPE ANCHOR APPLICATIONS".

## KSUA-AK CABLE ANCHORAGE HARDWARE KIT FOR KSUA BRACKETS

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