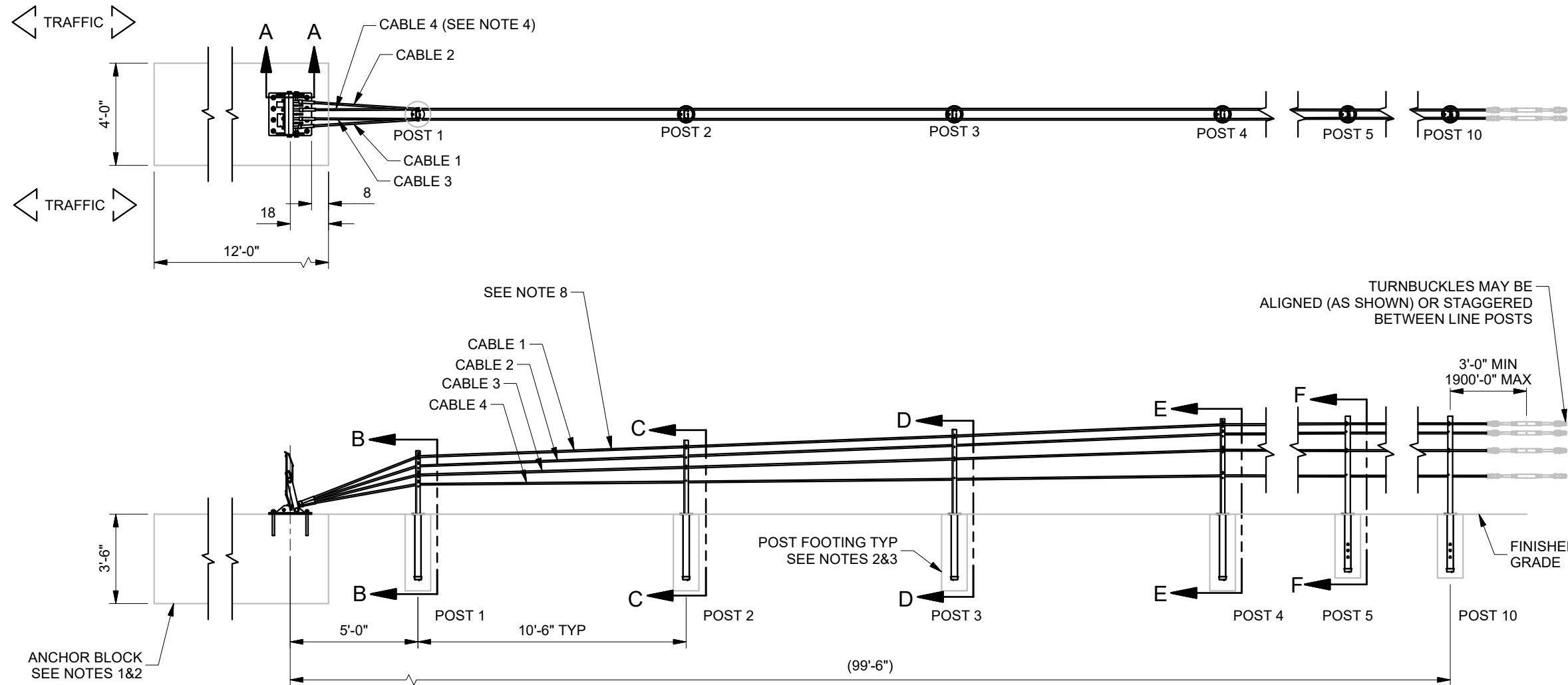


OPTIONAL COMPONENTS - PER PROJECT SPECIFICATION		
PART NO.	DESCRIPTION	QTY
005633G	CASS TRNBCKL STUD ASSY 1"	4
005836B	CASS #3 REBAR 8" OD	10
005910G	CASS STUD CBL ASSY 1" RT	4
119672G	CET CBL 105', R.H.T.,ASSY	4

DELINEATION OPTIONS - UPPER ANCHOR		
PART NO.	DESCRIPTION	QTY
003177B	REFL SHT,18X18,Y/B	1
211297B	TAPE,REFL,DG3,12,YLW	3
211299B	TAPE,REFL.,DG3,24,YELLOW	2

DELINEATION OPTIONS - POSTS 2, 4, 6, 8, & 10		
PART NO.	DESCRIPTION	QTY
005589B	REFL SHT,1 7/8X3 1/4,WHITE	5
005590B	REFL SHT,1 7/8X3 1/4,YELLOW	5

CET COMPONENTS LIST		
PART NO.	DESCRIPTION	QTY.
033588G	CASS SLV-STD 30.75 11GA.	4
034038G	CASS SLV S3X2'3 11GA	6
131665B	CET ANCHOR,LOWER,W/DECAL	1
131670G	CET ANCHOR,UPPER	1
131671G	CET U-SHAPED POST 1,60 1/2	1
131672G	CET U-SHAPED POST 2,65 1/2	1
131673G	CET U-SHAPED POST 3,70 1/2	1
131674G	CET U-SHAPED POST 4,75 1/2	1
131675G	CET POST 5-10,S3X5.7,SYT	6
131677B	CET REFL SHT PNL,18X18	1
131678G	CET ANCHOR LINK	2
CET HARDWARE BUCKET 119831B		
003240G	WASHER,FLAT,5/16 W,TY A,G	4
003245G	NUT,HX,5/16,A563,G	40
003914G	BOLT,HX,1X3 1/2,F3125,G	2
004225G	CABLE HOOK,SHLDR,5/16,A307,G	32
004486G	BOLT,HX,1X5,F3125,G	2
004902G	WASHER,FLAT,1X2,F436,G	10
004903G	NUT,HX,1,A194 2H,G	20
005823B	CASS,SLEEVE COVER,C POST	4
005825G	CABLE HOOK,LOCK,5/16,A307,G	8
005833B	CASS,SLVCVRBTM,5X3,C	4
005837B	CASS,SLEEVE COVER,BOTTOM,4X3	6
005839B	CASS,SLEEVE COVER,S3 POST	6
006401G	NUT,HX,1/4,A563	2
116884G	SCREW,HWH,#12X1,SELF TAPPING,P	8
118352G	ROD,THREADED,1X12,B7,G	8
118710B	ADHESIVE,HY200,330,HILTI	6
119824G	BOLT,HX,1/4X2,AT,A307	2
119836B	CET/S3 ASSEMBLY MANUAL	1
131676G	CET CABLE WASHER	4



APPROACH INSTALLATION: LENGTH OF NEED: 36'-6" (AT POST #4)
DEPARTURE INSTALLATION: LENGTH OF NEED: 57'-6" (AT POST #6)

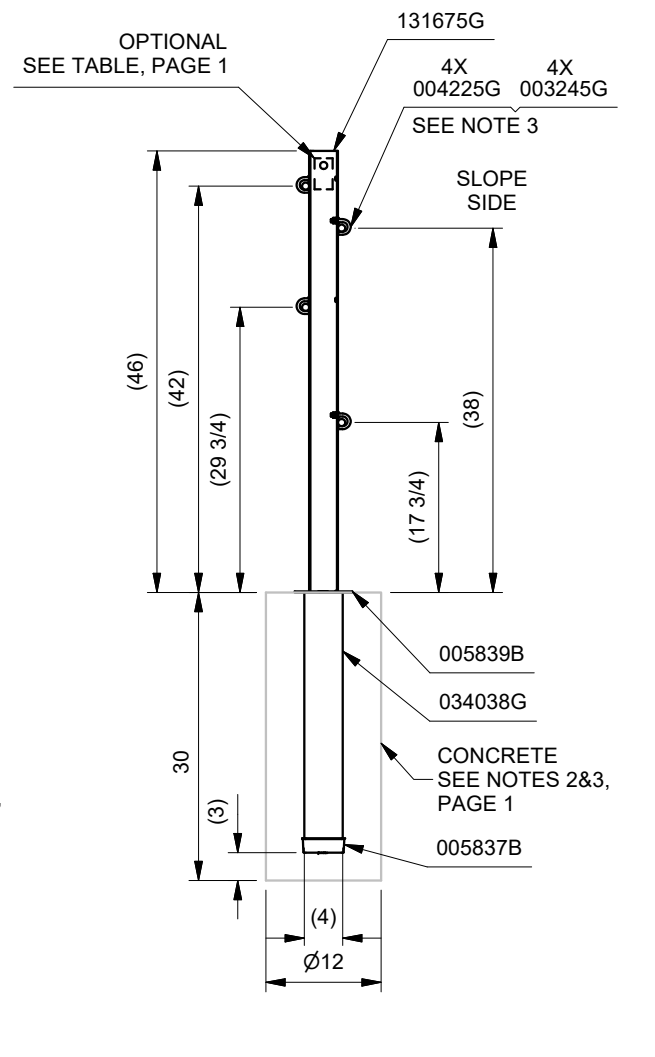
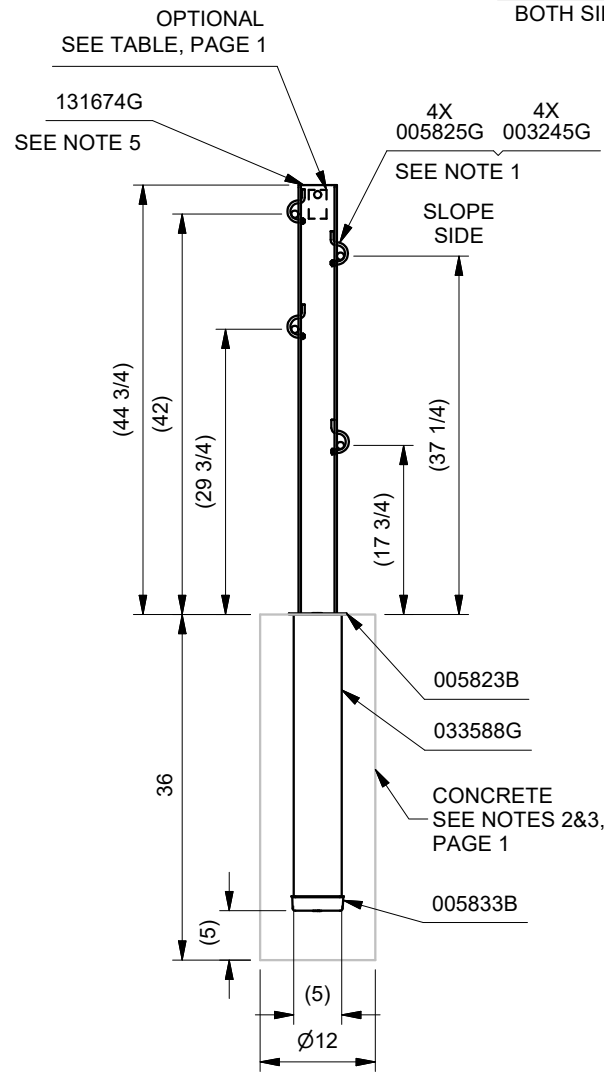
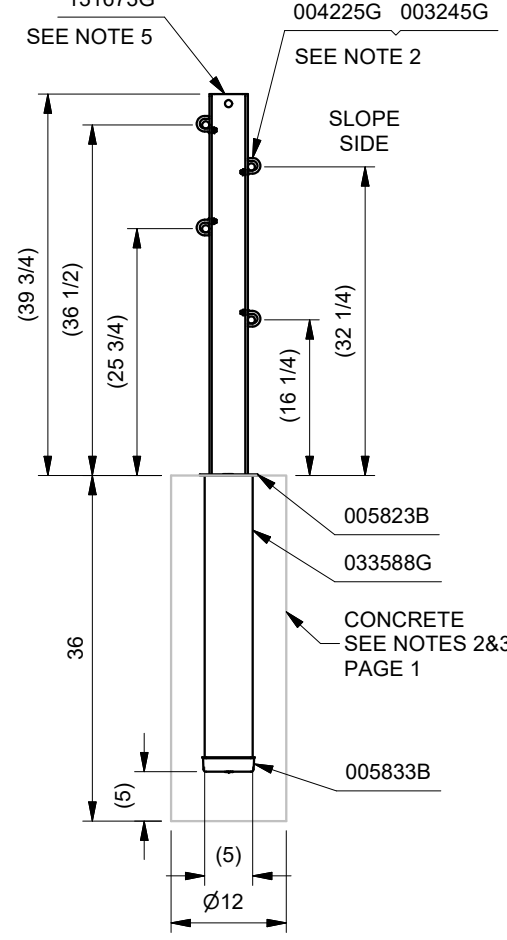
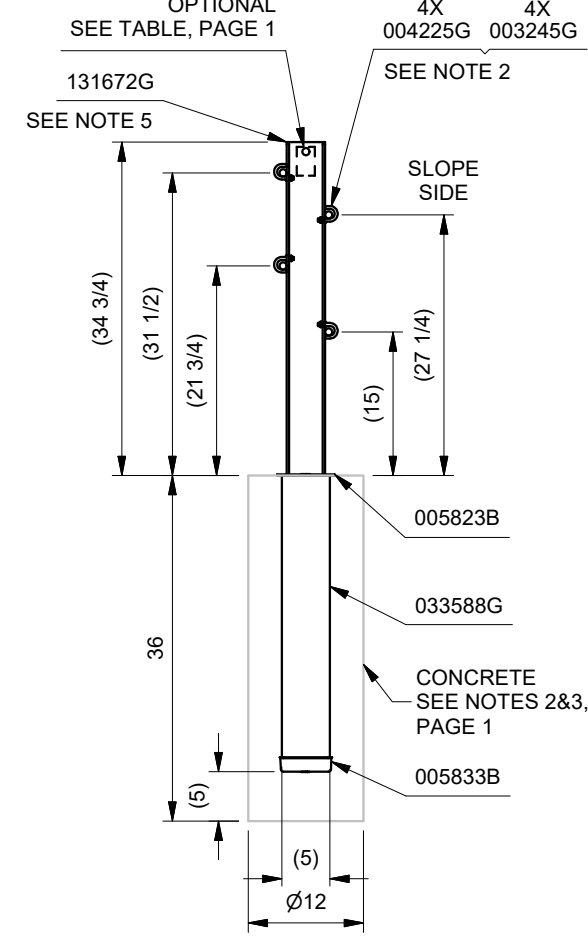
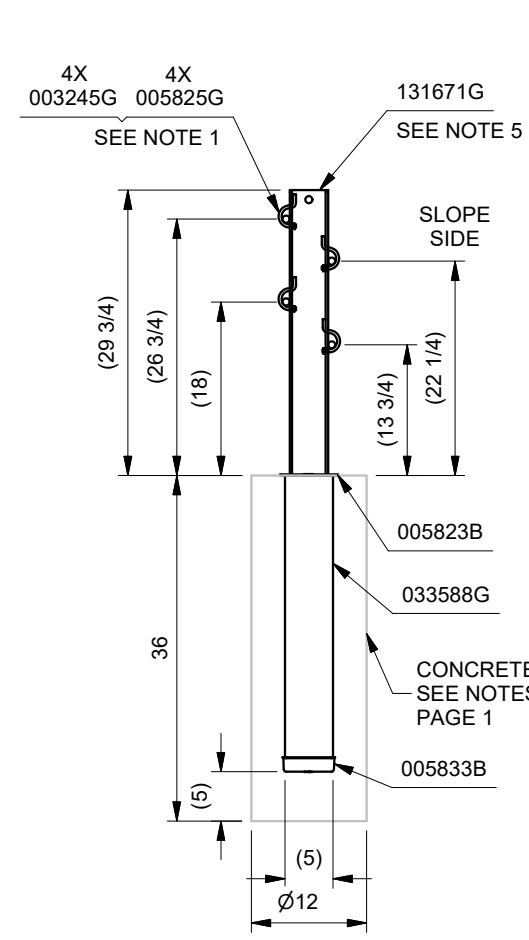
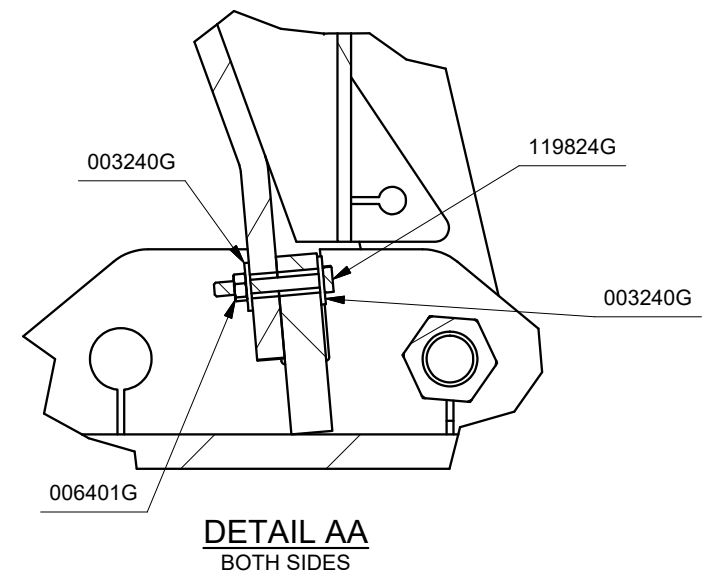
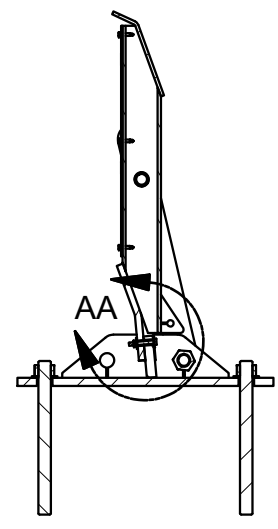
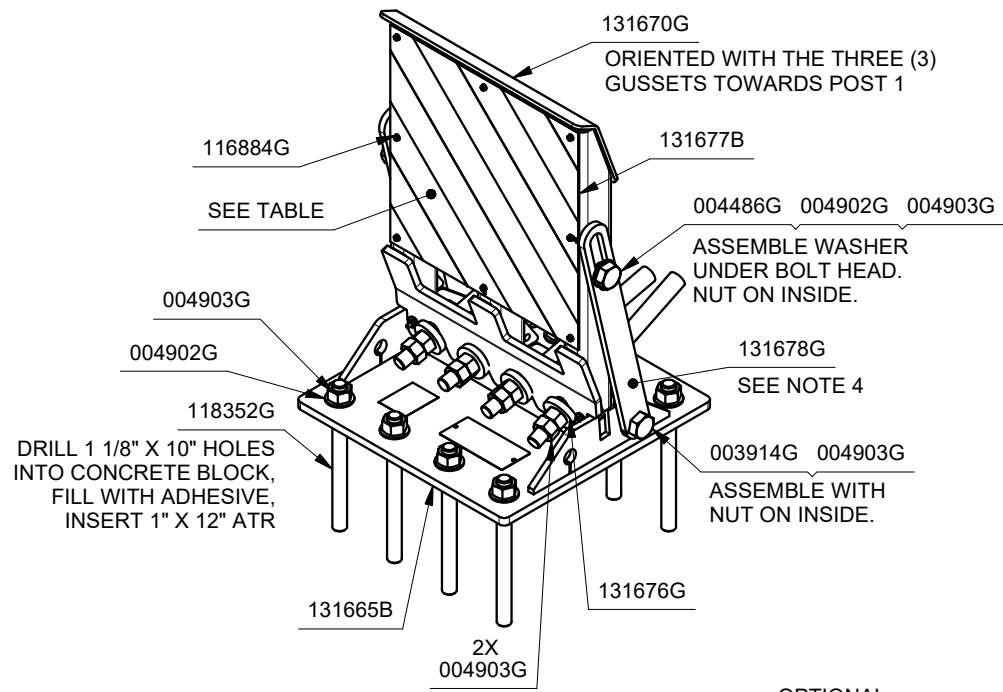
- NOTES:
- ANCHOR BLOCK SHALL BE 3000 psi MIN CONCRETE REINFORCED WITH SPECIFIED MACRO SYNTHETIC FIBER DOSED AT 4 lb/yd³. IF MACRO SYNTHETIC FIBERS ARE NOT UTILIZED, SEE MANUAL (119836B) FOR OTHER OPTIONS.
 - REMOVE AIR POCKETS FROM CONCRETE, CONCRETE MUST BE CONSOLIDATED. THE USE OF A VIBRATORY DEVICE SUCH AS A "STINGER" IS RECOMMENDED.
 - POST SOCKET FOOTING SHALL BE 3000 psi MIN CONCRETE REINFORCED WITH MACRO SYNTHETIC FIBER DOSED AT 4 lb/yd³. IF MACRO SYNTHETIC FIBERS ARE NOT UTILIZED, A Ø8" #3 REBAR RING (005836B) SHALL BE PLACED 3" (+1",-0") FROM THE TOP OF THE POST SOCKET FOOTING.
 - CABLE 4 (BOTTOM CABLE) SHALL BE INSTALLED ON THE DOWN SLOPE SIDE.
 - CET® ANCHOR ASSEMBLY SHALL UTILIZE 1" CABLE FITTINGS ONLY.
 - CABLE HEIGHT TOLERANCE IS ±1" FROM FINISHED GRADE.
 - SEE MANUAL (119836B) FOR ADDITIONAL DETAILS, TO INCLUDE MACRO SYNTHETIC FIBER SPECIFICATION, TENSIONING, OTHER FOUNDATION OPTIONS AND GRADING.
 - Ø3/4, 3X7, AASHTO M 30 OR ASTM A741, TYPE 1, CLASS A, PRE-STRETCHED WIRE ROPE REQUIRED.

DRAWN: M. LOBERG	DATE: 5/16/2025	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN FEET-INCHES ACCORDING TO ASME Y14.5-2018 AND QMS-SE-003				
CHECKED: A. BASSI	DATE: 6/5/2025	DO NOT SCALE DRAWING				
REVISION DESCRIPTION		ECO	DATE	REV	BY	CHK
INITIAL RELEASE		9907	-	-	-	-
CET WAS TRADEMARK ALL LOCATIONS, DEPART LON WAS 120'-6" (21' PAST POST #10)		10350	04/06/26	A	ML	ASB

**CASS® S3 4:1
WITH CASS® END TERMINAL (CET®)**

VALTIR

DRAWING: **SS 2383** REV: **A** SHEET: **1 of 6**



- NOTES:
1. POSTS 1 & 4, ASSEMBLE WITH THREADS IN HOLE, LEG IN SLOT.
 2. POSTS 2 & 3, ASSEMBLE TOP TWO CABLE HOOKS SHORT LEG UP. BOTTOM TWO CABLES HOOKS SHORT LEG DOWN.
 3. POSTS 5-10, ASSEMBLE CABLE HOOK. SHORT LEG DOWN.
 4. THE SLIT IN THE BOTTOM HOLE OF CET® ANCHOR LINK MAY BE ORIENTATED IN EITHER UPSTREAM OR DOWNSTREAM DIRECTION.
 5. ALL CET® U-SHAPED POSTS (POST 1-4), FLAT FACE MUST BE ORIENTATED TOWARD THE CET® ANCHOR ASSEMBLY

DRAWN: M. LOBERG	DATE: 5/16/2025	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN FEET-INCHES ACCORDING TO ASME Y14.5-2018 AND QMS-SE-003				
CHECKED: A. BASSI	DATE: 6/5/2025	DO NOT SCALE DRAWING				
REVISION DESCRIPTION	ECO	DATE	REV	BY	CHK	
INITIAL RELEASE	9907	-	-	-	-	
CET WAS TRADEMARK ALL LOCATIONS	10350	04/06/26	A	ML	ASB	

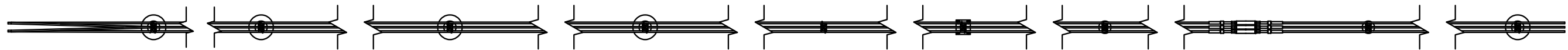
**CASS® S3 4:1
WITH CASS® END TERMINAL (CET®)**

DRAWING: SS 2383	REV: A	SHEET: 2 of 6
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TURNBUCKLES MAY BE STAGGERED BETWEEN LINE POSTS.
 MINIMUM (1) TURNBUCKLE PER CABLE REQUIRED FOR INSTALLATIONS OF 600' OR LESS



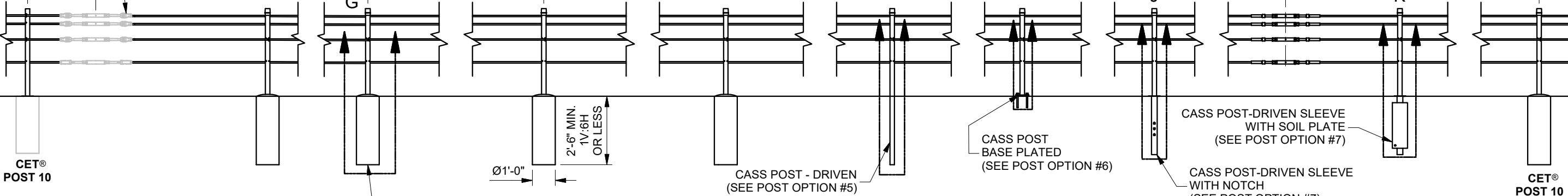
CASS S3 4-CABLE PLAN

PAY ITEM - CASS-S3 4-CABLE SYSTEM - (PAYMENT LINEAR FOOT)

TYPICAL 1000' BETWEEN PRE-STRETCHED CABLE SPLICES
 * MAXIMUM 2000' BETWEEN PRE-STRETCHED CABLE SPLICES
 * IF ALLOWED BY SPECIFYING AGENCY

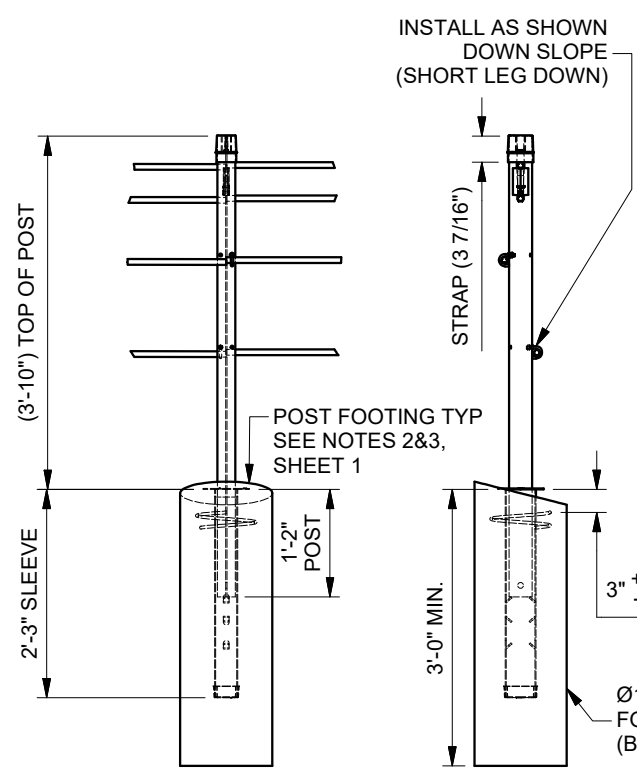
3'-0" MIN
 1900'-0" MAX

CET®

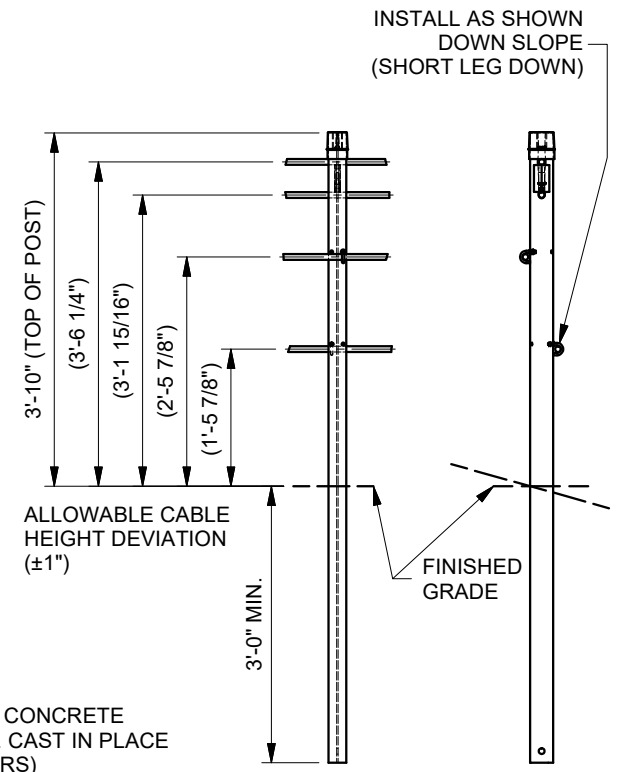


CASS S3 4-CABLE ELEVATION

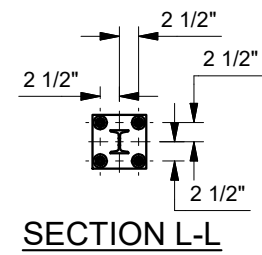
CASS S3 POST OPTIONS	
4	SYSTEM POST - IN CONCRETE
5	SYSTEM POST - DRIVEN
6	SYSTEM POST - BASE-PLATED
7	SYSTEM POST - DRIVEN SLEEVE



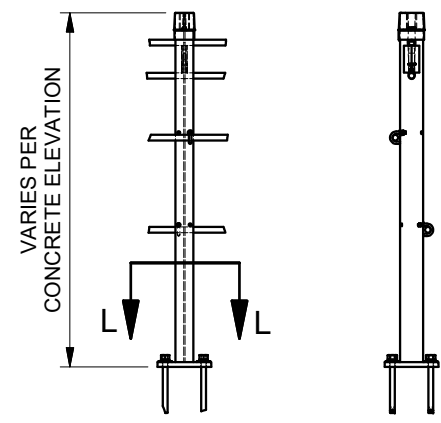
DETAIL G
 (CASS POST IN CONCRETE)
 (POST OPTION #4 SHOWN)



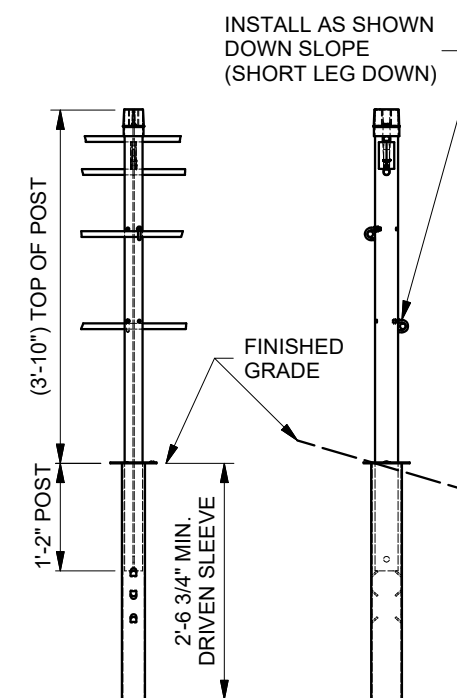
DETAIL H
 (CASS POST - DRIVEN)
 (POST OPTION #5 SHOWN)



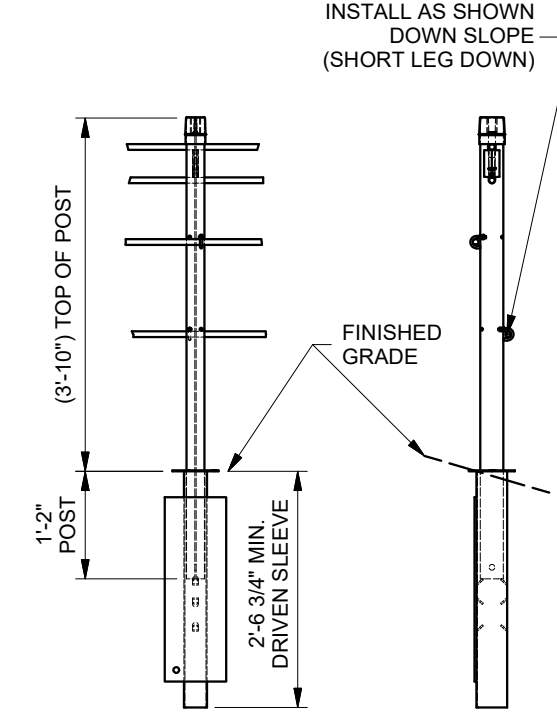
SECTION L-L



DETAIL I
 (CASS POST - BASE-PLATED)
 (POST OPTION #6 SHOWN)



DETAIL J
 (CASS POST - DRIVEN SLEEVE)
 (POST OPTION #7 SHOWN)



DETAIL K
 (CASS POST DRIVEN SLEEVE - SOIL PLATE)
 (POST OPTION #7 SHOWN)
 INSTALL WITH SOIL PLATE ON OPPOSITE SIDE OF NEAREST TRAFFIC

DRAWN: M. LOBERG	DATE: 5/16/2025	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN FEET-INCHES ACCORDING TO ASME Y14.5-2018 AND QMS-SE-003				
CHECKED: A. BASSI	DATE: 6/5/2025	DO NOT SCALE DRAWING				
REVISION DESCRIPTION	ECO	DATE	REV	BY	CHK	
INITIAL RELEASE	9907	-	-	-	-	
SEE SHT 1, CET WAS TRADEMARK ALL LOCATIONS	10350	04/06/26	A	ML	ASB	

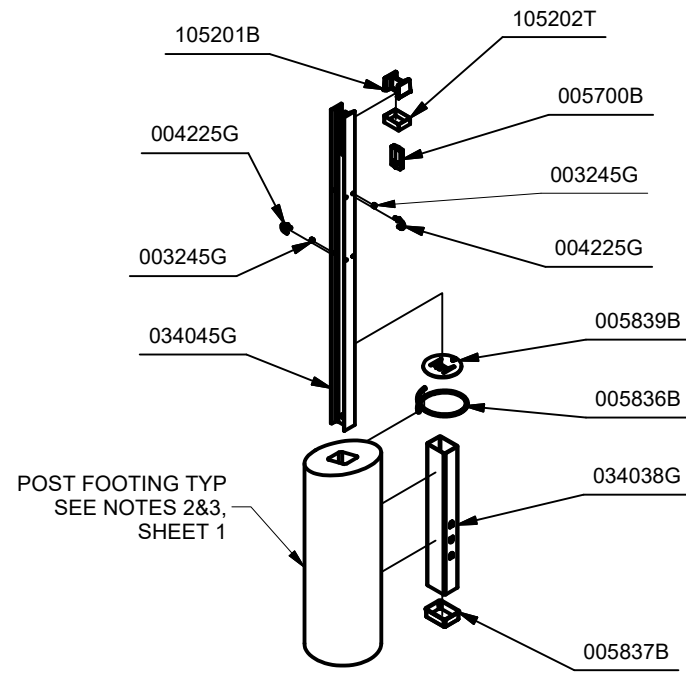
**CASS® S3 4:1
 WITH CASS® END TERMINAL (CET®)**

VALTIR

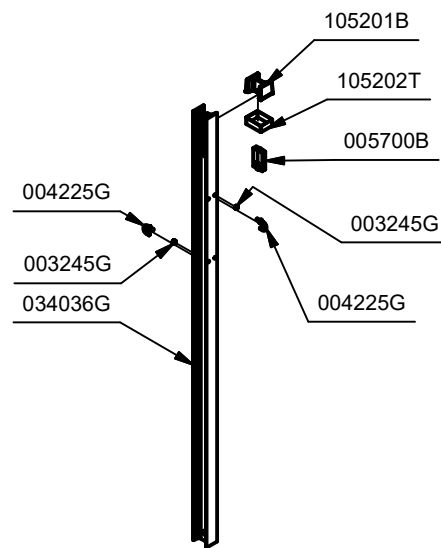
DRAWING: SS 2383	REV: A	SHEET: 3 of 6
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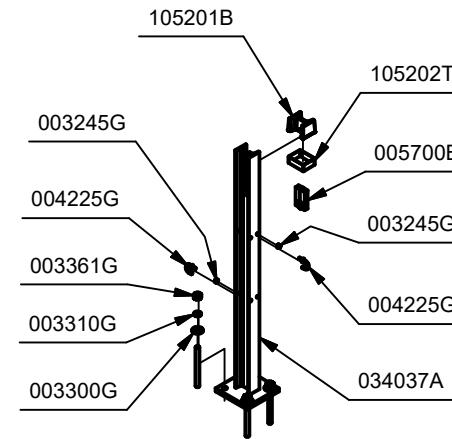
PARTS LIST - PRE-STRETCHED CABLE ASSEMBLIES				
PART NO.	TITLE	LENGTH	TERM-1	TERM-2
005829G	CASS CABLE PRE-STRETCH REEL	2000'	NONE	NONE
007016G	CABLE ASSEMBLY-INTERIOR	2000'	R.H.T.	L.H.T.
000216G	CABLE REEL - 2 X 1000' - 005816	2X1000'	R.H.T.	L.H.T.
000316G	CABLE REEL - 3 X 1000' - 005816	3X1000'	R.H.T.	L.H.T.
005816G	CABLE ASSEMBLY-INTERIOR	1000'	R.H.T.	L.H.T.
005753G	CABLE FIELD SPLICE SECTION	1025'	R.H.T.	NONE
005752G	CABLE FIELD SPLICE SECTION	1000'	R.H.T.	NONE
005798G	CABLE FIELD SPLICE SECTION	975'	R.H.T.	NONE
005797G	CABLE FIELD SPLICE SECTION	950'	R.H.T.	NONE
005796G	CABLE FIELD SPLICE SECTION	925'	R.H.T.	NONE
005795G	CABLE FIELD SPLICE SECTION	900'	R.H.T.	NONE
005794G	CABLE FIELD SPLICE SECTION	875'	R.H.T.	NONE
005793G	CABLE FIELD SPLICE SECTION	850'	R.H.T.	NONE
005792G	CABLE FIELD SPLICE SECTION	825'	R.H.T.	NONE
005791G	CABLE FIELD SPLICE SECTION	800'	R.H.T.	NONE
005790G	CABLE FIELD SPLICE SECTION	775'	R.H.T.	NONE
005789G	CABLE FIELD SPLICE SECTION	750'	R.H.T.	NONE
005788G	CABLE FIELD SPLICE SECTION	725'	R.H.T.	NONE
005787G	CABLE FIELD SPLICE SECTION	700'	R.H.T.	NONE
005786G	CABLE FIELD SPLICE SECTION	675'	R.H.T.	NONE
005785G	CABLE FIELD SPLICE SECTION	650'	R.H.T.	NONE
005784G	CABLE FIELD SPLICE SECTION	625'	R.H.T.	NONE
005783G	CABLE FIELD SPLICE SECTION	600'	R.H.T.	NONE
005782G	CABLE FIELD SPLICE SECTION	575'	R.H.T.	NONE
005781G	CABLE FIELD SPLICE SECTION	550'	R.H.T.	NONE
005780G	CABLE FIELD SPLICE SECTION	525'	R.H.T.	NONE
005779G	CABLE FIELD SPLICE SECTION	500'	R.H.T.	NONE
005778G	CABLE FIELD SPLICE SECTION	475'	R.H.T.	NONE
005776G	CABLE FIELD SPLICE SECTION	450'	R.H.T.	NONE
005775G	CABLE FIELD SPLICE SECTION	425'	R.H.T.	NONE
005769G	CABLE FIELD SPLICE SECTION	400'	R.H.T.	NONE
005768G	CABLE FIELD SPLICE SECTION	375'	R.H.T.	NONE
005767G	CABLE FIELD SPLICE SECTION	350'	R.H.T.	NONE
005766G	CABLE FIELD SPLICE SECTION	325'	R.H.T.	NONE
005765G	CABLE FIELD SPLICE SECTION	300'	R.H.T.	NONE
005764G	CABLE FIELD SPLICE SECTION	275'	R.H.T.	NONE
005763G	CABLE FIELD SPLICE SECTION	250'	R.H.T.	NONE
005762G	CABLE FIELD SPLICE SECTION	225'	R.H.T.	NONE
005761G	CABLE FIELD SPLICE SECTION	200'	R.H.T.	NONE
005760G	CABLE FIELD SPLICE SECTION	175'	R.H.T.	NONE
005759G	CABLE FIELD SPLICE SECTION	150'	R.H.T.	NONE
005758G	CABLE FIELD SPLICE SECTION	125'	R.H.T.	NONE
005757G	CABLE FIELD SPLICE SECTION	100'	R.H.T.	NONE
005756G	CABLE FIELD SPLICE SECTION	75'	R.H.T.	NONE
005755G	CABLE FIELD SPLICE SECTION	50'	R.H.T.	NONE
005754G	CABLE FIELD SPLICE SECTION	25'	R.H.T.	NONE
005840G	CABLE FIELD REPAIR SECTION	5'	R.H.T.	L.H.T.
119672G	CET CBL 105', R.H.T., ASSY	105'	R.H.T.	NONE



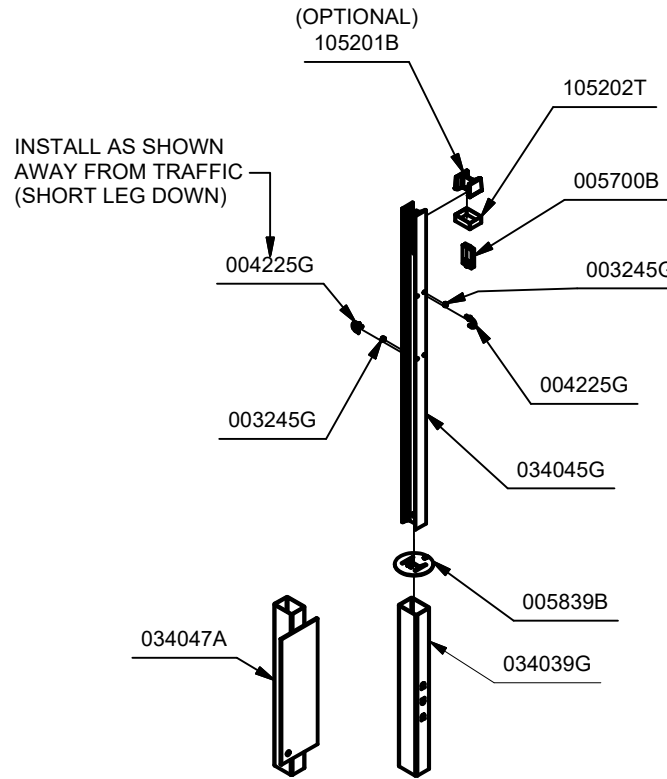
CASS-S3 POST - IN CONCRETE
(POST OPTION #4 - CAST IN PLACE & PRE-CAST)



CASS-S3 POST - DRIVEN
(POST OPTION #5 - DRIVEN)



CASS-S3 POST - BASE-PLATED
(POST OPTION #6 - BASE-PLATED)



CASS-S3 POST - DRIVEN SLEEVE
(POST OPTION #7 - DRIVEN SLEEVE - NOTCH & SOIL PLATE)
INSTALL WITH SOIL PLATE ON OPPOSITE SIDE OF NEAREST TRAFFIC

CASS S3 COMPONENTS LIST	
PART NO.	DESCRIPTION
003245G	NUT, HX, 5/16, A563, G
003300G	WASHER, FLT, 5/8, F844, G
003310G	5/8" LOCK WASHER
003361G	NUT, HX, 5/8, A563, DH, G
004225G	CABLE HOOK, SHLDR, 5/16, A307, G
005225G	TRACC 5/8"X7.5 HAS ROD ZP
005700B	CASS CABLE SPACER TL3
005836B	CASS #3 REBAR 8" OD
005837B	CASS, SLEEVE COVER, BOTTOM, 4X3
005839B	CASS, SLEEVE COVER, S3 POST
034036G	CASS-S3 PST DRVN X 6'-10"
034037A	CASS-S3 PST CONC X 3'-10"
034038G	CASS SLV S3 X 2'3 11GA
034039G	CASS SLV S3 DRVN X 2' 6 3/4"
034045G	CASS-TL3 (4T1) S3 POST
034047A	CASS-S3 SLV DRVN X 2'6.75
105201B	CASS, POST CAP, S3X5.7
105202T	CASS POST STRAP S3 TL3/4
118710B	ADHESIVE, HY200, 330, HILTI

NOTES:

- CABLE MOUNTED OR POST SPACER DELINEATORS MAY BE SUPPLIED DEPENDENT ON SPECIFICATIONS AND AVAILABILITY:

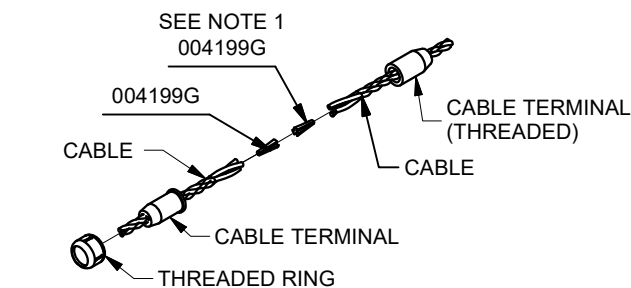
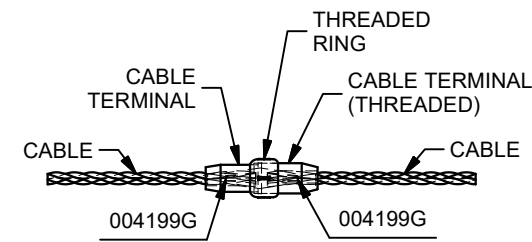
COLOR:	CABLE MOUNTED:	POST SPACER:
YELLOW	119495B	005701B
WHITE	119494B	005702B
BLUE	119496B	N/A
- IF INTERFERENCE OCCURS BETWEEN THE CABLE SPLICE AND CASS SYSTEM POST, SUPPLY A SPLICE INTERFERENCE POST.
 - LONG SPLICE POST 034061G IN LIEU OF LONG CASS-S3 POST 034036G.
 - SHORT SPLICE POST 034049G IN LIEU OF SHORT CASS-S3 POST 034045G.
- IF REQUIRED PER PROJECT PLANS SUPPLY:
 - CABLE PULLING TOOL 005850B.
 - CABLE TENSION METER 005878B.
 - CABLE THERMOMETER 005709B.
- PI-LIT IMPACT DETECTION DEVICE:

PART:	DESCRIPTION:
119750B	PI-LIT IDS GATEWAY IMPACT
119751B	PI-LIT IDS CABLE BRACKET

DRAWN: M. LOBERG	DATE: 5/16/2025	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN FEET-INCHES ACCORDING TO ASME Y14.5-2018 AND QMS-SE-003				
CHECKED: A. BASSI	DATE: 6/5/2025	DO NOT SCALE DRAWING				
REVISION DESCRIPTION	ECO	DATE	REV	BY	CHK	
INITIAL RELEASE	9907	-	-	-	-	
SEE SHT 1, CET WAS TRADEMARK ALL LOCATIONS	10350	04/06/26	A	ML	ASB	

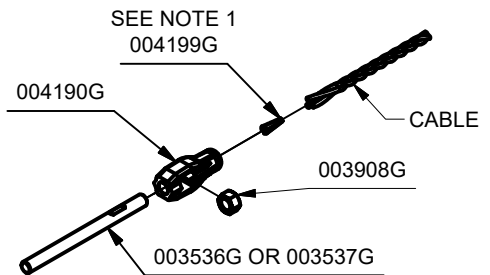
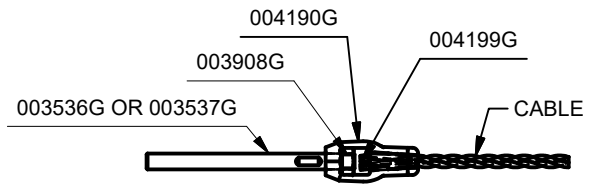
CASS® S3 4:1
WITH CASS® END TERMINAL (CET®)

DRAWING: SS 2383	REV: A	SHEET: 4 of 6
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TORPEDO CABLE SPLICE - 4099G

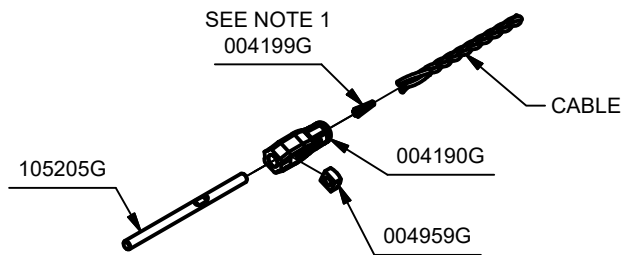
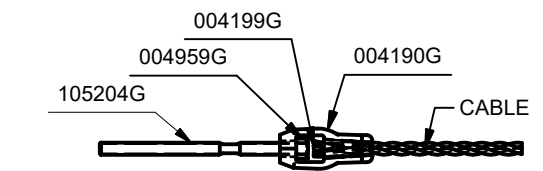
PARTS LIST - 004099G		
PART NO.	DESCRIPTION	QTY.
004199G	3/4" CABLE WEDGE (3 x 7)	2



**1" CABLE FIELD SPLICE
5909G (LEFT) & 5910G (RIGHT)**

PARTS LIST - 005909G		
PART NO.	DESCRIPTION	QTY.
003537G*	1" STUD FLATTENED - L.H.T.	1
003908G	1" HVY HEX NUT A563 DH	1
004190G	CBL 3/4 X 5.75 CAST, C-1622	1
004199G	3/4" CABLE WEDGE (3 x 7)	1

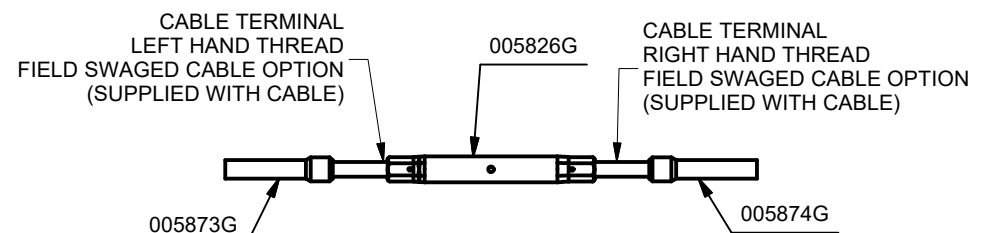
*R.H.T. PART NO. 003536G



**3/4" CABLE FIELD SPLICE
5634G (LEFT) & 5635G (RIGHT)
(MAY NOT BE USED TO ANCHOR THE CET)**

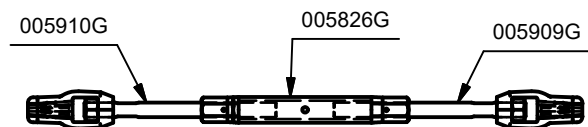
PARTS LIST - 005634G		
PART NO.	DESCRIPTION	QTY.
004190G	CBL 3/4 X 5.75 CAST, C-1622	1
004199G	3/4" CABLE WEDGE (3 x 7)	1
004959G	3/4" HEAVY SQUARE NUT	1
105204G*	ROD, THREADED, 3/4X13, LHT	1

*R.H.T. PART NO. 105205G



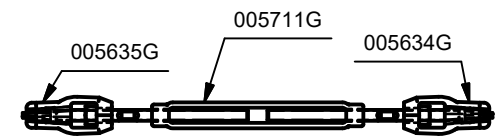
**SWAGED SPLICE - 5872G
(CLOSED BODY STYLE)**

PARTS LIST - 005874G		
PART NO.	DESCRIPTION	QTY.
005874G	CASS CBL SWAGED END RHT	1
005873G	CASS CBL SWAGED END LHT	1
005826G	CASS TURNBUCKLE 1" X 14"	1



**1" CABLE SPLICE - 5633G
(CLOSED BODY STYLE)**

PARTS LIST - 005633G		
PART NO.	DESCRIPTION	QTY.
005826G	CASS TURNBUCKLE 1" X 14"	1
005909G	1" STUD ASSEMBLY L.H.T.	1
005910G	1" STUD ASSEMBLY R.H.T.	1



**3/4" CABLE SPLICE - 5698G
(OPEN BODY STYLE)**

PARTS LIST - 005698G		
PART NO.	DESCRIPTION	QTY.
005634G	STUD ASSY, CABLE, CASS, 3/4, LHT	1
005635G	STUD ASSY, CABLE, CASS, 3/4, RHT	1
005711G	3/4-12 TURNBUCKLE BODY - OPEN	1

CASS S3 & CET TEMPERATURE & TENSION CHART			
°F	Tension (lbf) *	°C	kN
-15	7500	-26	33.4
-10	7300	-23	32.5
-5	7100	-21	31.6
0	7000	-18	31.1
5	6800	-15	30.2
10	6600	-12	29.4
15	6500	-9	28.9
20	6300	-7	28.0
25	6100	-4	27.1
30	6000	-1	26.7
35	5800	2	25.8
40	5600	4	24.9
45	5500	7	24.5
50	5300	10	23.6
55	5100	13	22.7
60	5000	16	22.2
65	4800	18	21.4
70	4600	21	20.5
75	4500	24	20.0
80	4300	27	19.1
85	4100	29	18.2
90	4000	32	17.8
95	3800	35	16.9
100	3600	38	16.0
105	3500	41	15.6
110	3300	43	14.7
115	3100	46	13.8
120	3000	49	13.3
125	2800	52	12.5
130	2700	54	12.0
135	2600	57	11.6
140	2500	60	11.1
145	2400	63	10.7
150	2300	66	10.2
160	2100	71	9.3
170	1900	77	8.5
180	1700	82	7.6
190	1500	88	6.7
200	1300	93	5.8

1. ALLOWABLE DEVIATION FROM CHART IN TANGENT SECTIONS: +800, -200 POUNDS/FORCE.
2. TAKE CABLE TENSION MEASUREMENTS IN **TANGENT SECTIONS**. READINGS ARE TYPICALLY HIGHER IN CURVED CABLE SECTIONS.
3. IF UTILIZING STANDARD (NOT PRE-STRETCHED) CABLES, THE TENSION IS HIGHER - CONSULT WITH VALTIR.

- NOTES:
1. INSERT WEDGE PAST CABLE END (3/8"-5/8"). FOLD (1) CABLE WIRE OVER WEDGE. SEAT WEDGE & CABLE BEFORE CLOSING THE SPLICE.
 2. TURNBUCKLES SHALL BE INSTALLED WITH A MINIMUM OF 1-1/2" THREAD ENGAGEMENT. TO ALLOW FOR MAINTENANCE ADJUSTMENTS AT A LATER DATE, VALTIR SUGGESTS INSTALLER UTILIZE NO MORE THAN THREE (3") THREAD ENGAGEMENT.
 3. WHEN CUTTING CABLE LENGTHS IN THE FIELD FROM CABLE REELS, IT MAY BE PERMISSIBLE TO UTILIZE A CABLE TORPEDO SPLICE (PN#004099G) BETWEEN TURNBUCKLES. **DO NOT USE TORPEDO SPLICE(S) FOR CABLE LENGTHS SHORTER THAN 100', IE: A TORPEDO SPLICE SHALL NOT BE INSTALLED CLOSER THAN 100' FROM ANY OTHER FITTING ON SAME CABLE.**

PLEASE CONTACT VALTIR, CONSULT VALTIR'S MANUAL OR SPECIFYING AGENCY TO DETERMINE IF APPROPRIATE FOR SPECIFIC APPLICATION.

DRAWN: M. LOBERG	DATE: 5/16/2025	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN FEET-INCHES ACCORDING TO ASME Y14.5-2018 AND QMS-SE-003				
CHECKED: A. BASSI	DATE: 6/5/2025	DO NOT SCALE DRAWING				
REVISION DESCRIPTION	ECO	DATE	REV	BY	CHK	
INITIAL RELEASE	9907	-	-	-	-	
SEE SHT 1, CET WAS TRADEMARK ALL LOCATIONS	10350	04/06/26	A	ML	ASB	

CASS® S3 4:1
WITH CASS® END TERMINAL (CET®)

VALTIR

DRAWING: **SS 2383** REV: **A** SHEET: **5 of 6**

