NOTE:

1. Dimensions without units are millimeters.

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		REINFORCING STEL											CATTLE GUARD EEL, CONCRETE, STRUCTURAL STEEL, AND GRID UNIT TABLE OF QUANTITIES																
																-		٨	IOMIN	AL CAT	TLE G	UARD V	NIDTH	1		-			
		D	ESCRIPTION	3.6				8 m		4 m		0 m		6 m		2 m		3 m		4 m		0 m		5 m		2 m		8 m 11.	
				-		-			-		-		-		-		-		-				-		-		-	LGTH. QUAN	. L
			forcing bars, A1	8	2300 2150		2300 8 2150 20	2300 2150		2300 2150		2300 2150	8 20	2300		2300 2150	8	2300 2150	8	2300 2150		2300 2150	8 20	2300 2150	8 20	2300		2300 8 2150 20	ŀ
			forcing bars, A2 forcing bars, A3	20 32	2150		2150 20 2700 40	2150		2150		2150	20 54	2150 2700		2150	20 64	2150	20 70	2150		2150		2150	 84	2150 2700			ŀ
			forcing bars, A4	10	3900		4500 10	5100		5700		6300	10	6900		7500	10	8100	10	8700		9300				10500		11100 10	1
			forcing bars, A5	8	3500		4100 8	4700	-	5300		5900	8	6500		7100	8	7700	8	8300		8900	8	9500		10100		10700 8	1
			A (1.8 m)	2		1			3		2		1				3		2		5				3		6	1	L
			B (2.4 m)	1.10		1	2		1.10		1		2		3		1		2		1 10		4		2		1 10	4	╞
			lateral supports, m3 end supports, m3	1.19 3.07		1.19 3.59	1.19 4.11		1.19 4.62		1.19 5.12		1.19 5.66		1.19 6.16		1.19 6.67		1.19 7.19		1.19 7.71		1.19 8.21		1.19 8.73		1.19 9.24	1.19 9.76	_
			crete, m3	4.26		4.78	5.30		5.81		6.31		6.85		7.35		7.86		8.38		8.90		9.40		9.92		10.43		+
	Rail, ASC Rail, ASC Rail, Typ		27 beams	416		468	540		624		676		728		780		884		936		1040		1040		1144		1248	1248	+
			E 40	920		1073	1226		1380		1533		1686		1839		1993		2146		2300		2452		2606		2760	2912	-
				360		420	480	-	540		600		660		720		780		840		900		960		1020		1080	1140	+
		Rail, Type		472 101.0		552 109.5	632 118.0		708	-	788 135.0		868 143.5	-	945 152.0		1024 160.5		1104 169.0		1180 177.5		1264 186.0		1340 194.5		1416 203.0	1500 211.5	_
			ng steel, kg						120.5		135.0	-	143.5		152.0		100.5		109.0		1/7.5		180.0		194.5		203.0	211.5	
۱,	-	Structura	al steel weights do not																										
	CATTLE GUARD WING																												
	LIST OF MATERIALS PER WING															 W 200	1 v 27		>			_					.50 🖈	1.50	
			REQUI	IRED P	PER INS	STALLATION							W 200 x 27 Tack weld L 25 x 25 x 3.17 450 12 12 12 12 12 12 12 12												\mathbf{k}				
		ART RIPTION	WOOD WING	O WING ANGLE IRON WING						ALUMINUM TUBING WING					to M12 x 200 studs														
	diag	tside gonal ports	<i>Two 50 x 150 x 2100</i> <i>treated S4S</i>						One 50 mm OD x 3.17 x 4200 mm aluminum tubing					150 x 50 x C 130 x 10.4															
-	Middle support		One 50 x 150 x 1800 treated S4S) mm	1850		51 x 6.4 x galvanized						9.5 shim																
	-	zontal e no.1	One 50 x 150 x 1675 treated S4S	1675 mm One 12 mm x 1980 mm					One 50 mm OD x 3.17 x 1830 mm aluminum tubing					\				X	Tack I			100	>			LE LE			/
		No. 2 One 50 x 150 x 1. treated 54.			-				One 50 mm OD x 3.17 x 760 mm aluminum tubing					Elastomeric both sides both sides															
94-70	No	No. 3 One 50 x 150 x 455 treated S4S							None								/								$\langle \rangle$		>>		1/1/
	No	No. 4 None			One 12 mm x 990 mm galvanized steel bar				None					Rail (typ.)														ð	
	No	No. 5 None			One 12 mm x 610 mm galvanized steel bar				None							DE	- IAIL	Α		125		12	25 2	25	:1				> 7
	No	No. 6 None			One 12 mm x 225 mm galvanized steel bar			None					GRID UNIT LIST OF MATERIALS						—		•				•		Z		X#1.1/
	P	Post 150 x 150 x 2400 r treated S4S			m One 150 x 150 x 2100 mm treated S4S or approved alternate				One 150 x 150 x 2400 mm treated S4S or approved alternate					GRID UNIT TYPE A 4 each W 200 x 27 x												,		У ^р	
Farmaul IIAn	an	Top Toenall diagonal Top supports to the anchor post with 16d assembly galvanized nails as required.			<i>M10 x 150 mm galvanized hex bolt w/nut and flat washer</i>				M20 x 400 mm galvanized steel rod threaded on one end w/nut and washers & 75 mm radius hook in other end.					1925 mm long 13 each ASCE 40 crane rail (with minimum spacing), or II 50 tubular cross bar sections, 05 (with minimum spacing), Type I or Type II, 1780 mm															
[1] 1] 1] 1] 1] 1] 1] 1] 1] 1] 1] 1] 1] 1	an	ttom chor embly	sill				4 ei Atta	2 each 6.4 x 125 x 250 mm flat irons welded to 100 mm tubing. 4 each M10 x 150 mm galvanized hex bolts embedded in concrete. Attach the flat iron plates to the bolts with washer & nuts.					GRID UNIT TYPE B 5 each W 200 x 27 x 1925 mm long 13 each ASCE 40 crane rail (with minimum spacing), or II tubular cross bar sections, (with minimum spacing), (with minimum spacing), Type I or Type II, 2380 mm																
CLT:06T //-m			Toenail diagonal supports to wooden w/16d galvanized na	sill		and .	nut											,	B		BENI	DINC			L				NO

