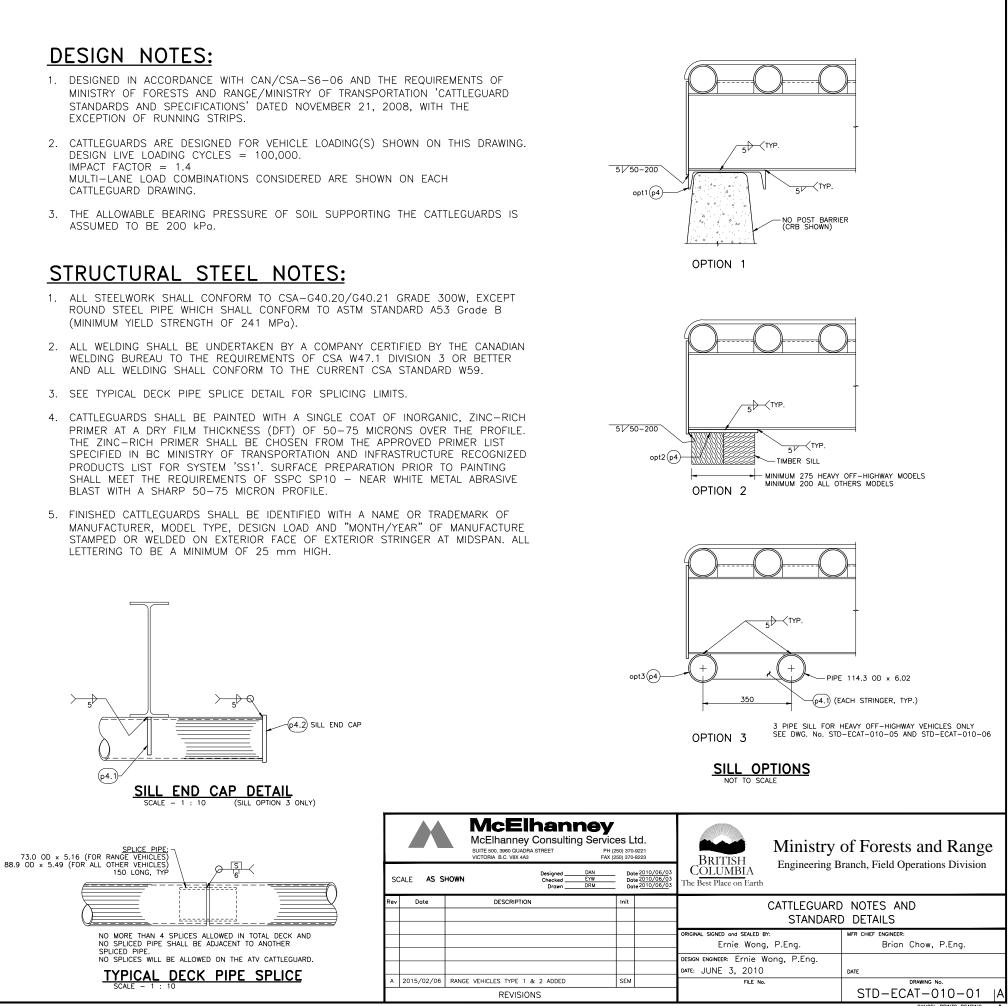
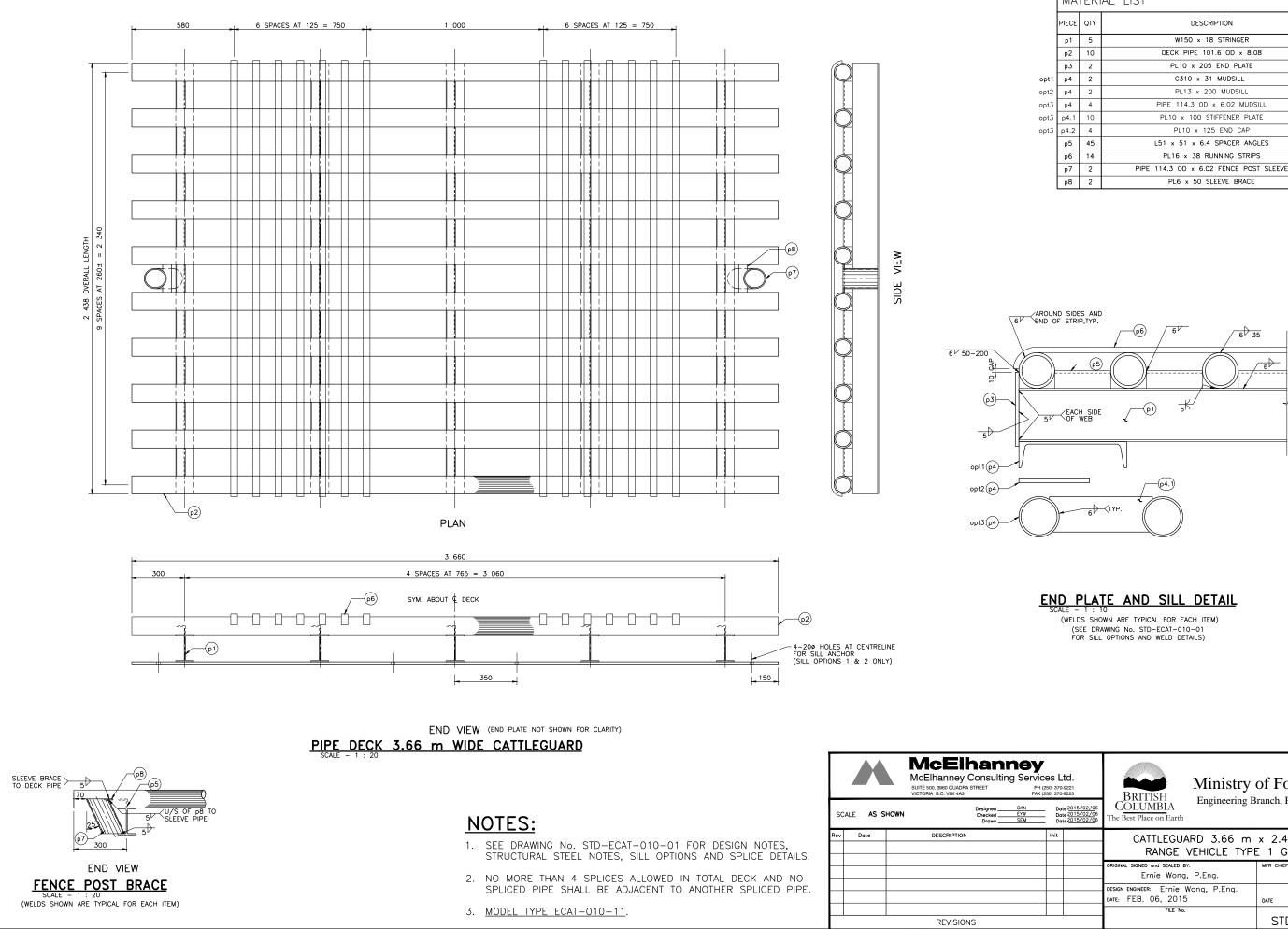


- MINISTRY OF FORESTS AND RANGE/MINISTRY OF TRANSPORTATION 'CATTLEGUARD STANDARDS AND SPECIFICATIONS' DATED NOVEMBER 21, 2008, WITH THE EXCEPTION OF RUNNING STRIPS.
- DESIGN LIVE LOADING CYCLES = 100,000. IMPACT FACTOR = 1.4MULTI-LANE LOAD COMBINATIONS CONSIDERED ARE SHOWN ON EACH
- ASSUMED TO BE 200 kPa.

- ROUND STEEL PIPE WHICH SHALL CONFORM TO ASTM STANDARD A53 Grade B (MINIMUM YIELD STRENGTH OF 241 MPa).
- WELDING BUREAU TO THE REQUIREMENTS OF CSA W47.1 DIVISION 3 OR BETTER AND ALL WELDING SHALL CONFORM TO THE CURRENT CSA STANDARD W59.
- PRIMER AT A DRY FILM THICKNESS (DFT) OF 50-75 MICRONS OVER THE PROFILE. THE ZINC-RICH PRIMER SHALL BE CHOSEN FROM THE APPROVED PRIMER LIST SPECIFIED IN BC MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE RECOGNIZED PRODUCTS LIST FOR SYSTEM 'SS1', SURFACE PREPARATION PRIOR TO PAINTING SHALL MEET THE REQUIREMENTS OF SSPC SP10 - NEAR WHITE METAL ABRASIVE BLAST WITH A SHARP 50-75 MICRON PROFILE.
- MANUFACTURER, MODEL TYPE, DESIGN LOAD AND "MONTH/YEAR" OF MANUFACTURE STAMPED OR WELDED ON EXTERIOR FACE OF EXTERIOR STRINGER AT MIDSPAN. ALL LETTERING TO BE A MINIMUM OF 25 mm HIGH.



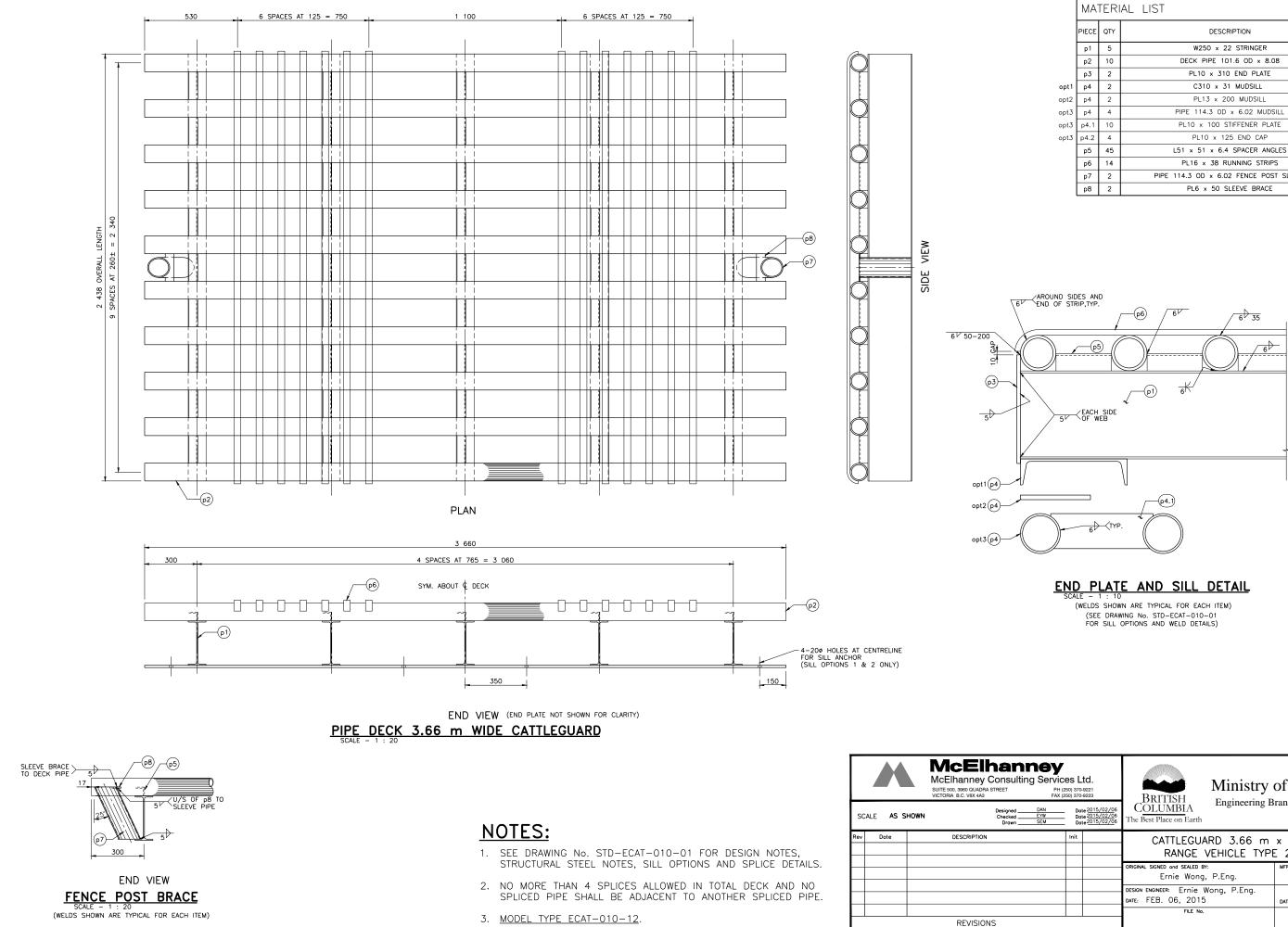
CANCEL PRINTS BEARING



	MATERIAL LIST				
	PIECE	QTY	DESCRIPTION	LENGTH mm	WEIGHT kg
	p1	5	W150 x 18 STRINGER	2 438	219.4
	p2	10	DECK PIPE 101.6 OD x 8.08	3 660	680.8
	pЗ	2	PL10 x 205 END PLATE	3 660	117.8
opt1	p4	2	C310 x 31 MUDSILL	3 660	224.7
opt2	p4	2	PL13 x 200 MUDSILL	3 660	149.4
opt3	p4	4	PIPE 114.3 OD x 6.02 MUDSILL	3 660	235.7
opt3	p4.1	10	PL10 × 100 STIFFENER PLATE	290	22.8
opt3	p4.2	4	PL10 x 125 END CAP	475	18.6
	p5	45	L51 x 51 x 6.4 SPACER ANGLES	172	36.8
	p6	14	PL16 x 38 RUNNING STRIPS	2 504	167.3
	p7	2	PIPE 114.3 OD x 6.02 FENCE POST SLEEVE	210	6.8
	p8	2	PL6 x 50 SLEEVE BRACE	172	0.8
				opt1	1 454.4 kg

opt1 1 454.4 kg

ices Ltd. H (250) 370-9221 X (250) 370-9223 Dote <u>2015/02/06</u> Dote <u>2015/02/06</u>	DUTTELL	of Forests and Range ranch, Field Operations Division	
Init	CATTLEGUARD 3.66 m x 2.438 m LONG FOR RANGE VEHICLE TYPE 1 G.V.W. 4,500 kg		
	ORIGINAL SIGNED and SEALED BY: Ernie Wong, P.Eng.	MFR CHIEF ENGINEER: Brian Chow, P.Eng.	
	design engineer: Ernie Wong, P.Eng. date: FEB. 06, 2015	DATE	
	FILE No.	DRAWING NO. STD-ECAT-010-11	
		CANCEL PRINTS BEARING PREVIOUS LETTER	



	MATERIAL LIST				
	PIECE	QTY	DESCRIPTION	LENGTH mm	WEIGHT kg
	p1	5	W250 x 22 STRINGER	2 438	273.1
	p2	10	DECK PIPE 101.6 OD x 8.08	3 660	680.8
	р3	2	PL10 x 310 END PLATE	3 660	178.1
opt1	p4	2	C310 x 31 MUDSILL	3 660	224.7
opt2	p4	2	PL13 x 200 MUDSILL	3 660	149.4
opt3	p4	4	PIPE 114.3 OD x 6.02 MUDSILL	3 660	235.7
opt3	p4.1	10	PL10 x 100 STIFFENER PLATE	290	22.8
opt3	p4.2	4	PL10 x 125 END CAP	475	18.6
	p5	45	L51 x 51 x 6.4 SPACER ANGLES	158	33.8
	p6	14	PL16 x 38 RUNNING STRIPS	2 517	168.2
	р7	2	PIPE 114.3 OD x 6.02 FENCE POST SLEEVE	330	10.6
	p8	2	PL6 x 50 SLEEVE BRACE	158	0.7
				opt1	1 570 kg

ices Ltd. H (250) 370-9221 X (250) 370-9223 Dote 2015/02/06 Dote 2015/02/06 Dote 2015/02/06	DUTTELL	Ministry of Forests and Range Engineering Branch, Field Operations Division		
Init	CATTLEGUARD 3.66 m x 2.438 m LONG FOR RANGE VEHICLE TYPE 2 G.V.W. 8,850 kg			
	ORIGINAL SIGNED ond SEALED BY: Ernie Wong, P.Eng.	MFR CHIEF ENGINEER: Brian Chow, P.Eng.		
	design engineer: Ernie Wong, P.Eng. date: FEB. 06, 2015	DATE		
	FILE No.	STD-ECAT-010-12		
		CANCEL PRINTS BEARING		