

A

B

C

D

E

F

A

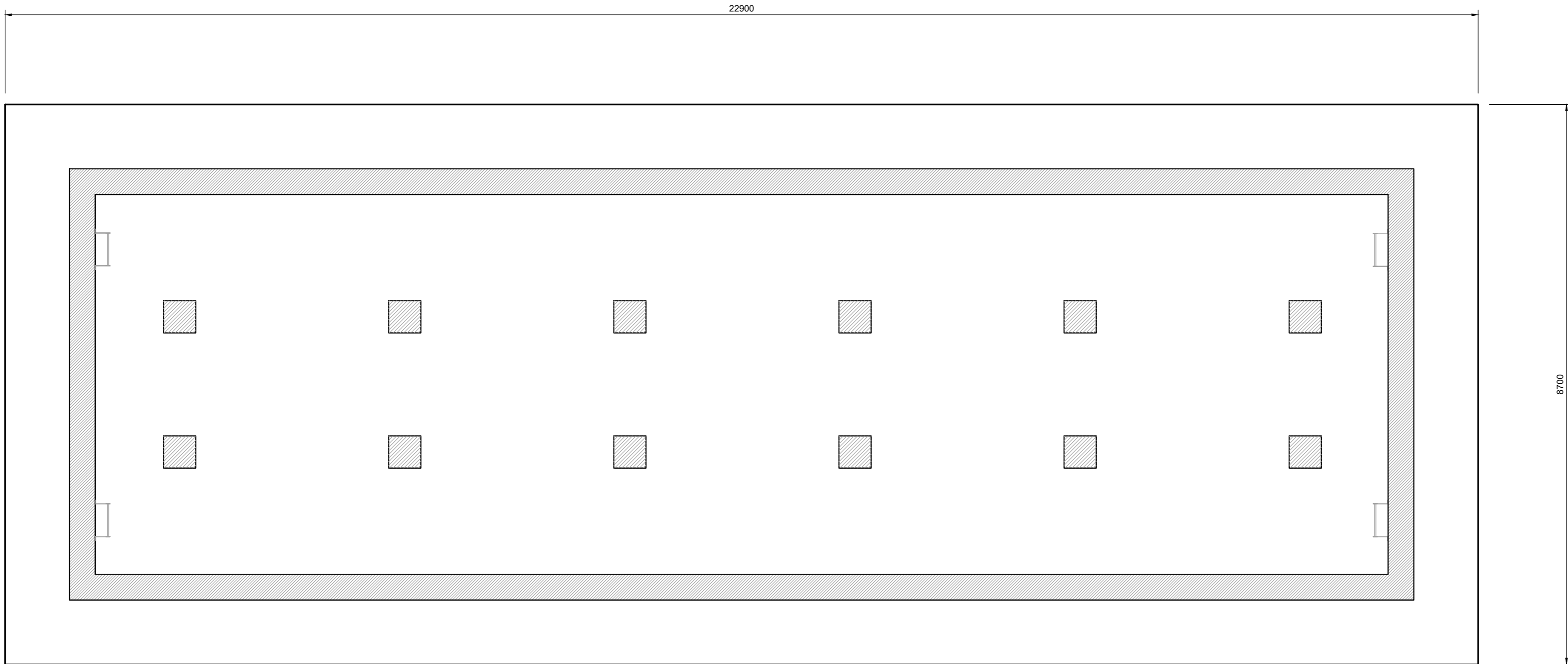
B

C

D

E

F



TYPICAL PLAN AT FOUNDATION LEVEL
1:50

GENERAL

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERING DRAWINGS.

DIMENSIONS MUST NOT BE SCALED OR ASSUMED. AFTER NOTIFICATION, DISCREPANCIES OR MISSING DIMENSIONS WILL BE CORRECTED IN WRITING BY THE ENGINEER.

LEVELS SHOWN TO FOUNDATIONS ARE PROVISIONAL AND WILL BE FINALIZED BY THE ENGINEER.

FOUNDATIONS HAVE BEEN DESIGNED FOR A PERMISSIBLE BEARING BEARING PRESSURE OF 100 N/m².

REINFORCEMENT SHALL COMPLY WITH SABS S20 AND BE BENT TO SABS S2.

SYMBOLS

R = MILD STEEL BARS WITH CHARACTERISTIC STRENGTH of 250 MPa
Y = HOT ROLLED OR COLD WORKED HIGH YIELD STEEL BARS WITH CHARACTERISTIC STRENGTH OF 450 MPa.

ONLY REINFORCEMENT FABRICATED UNDER THE SABS MARK SHALL BE DEEMED TO COMPLY WITH SABS REQUIREMENTS.

CONCRETE

ALL CONCRETE WORK SHALL CONFORM WITH THE LATEST AMENDED ISSUE OF:

SANS 1200: STANDARD SPECIFICATION FOR CONCRETE AND
SANS 10100: THE STRUCTURAL USE OF CONCRETE.

A SET OF SIX CUBES MUST BE MADE FOR EVERY FIFTY CUBIC METER (OR PORTION THEREOF) OF CONCRETE POURED ON A SPECIFIC DAY. 2 OF THE CUBES MUST BE TESTED AT SEVEN DAYS, AND THE BALANCE MUST BE AVAILABLE FOR TESTING AT 28 DAYS.

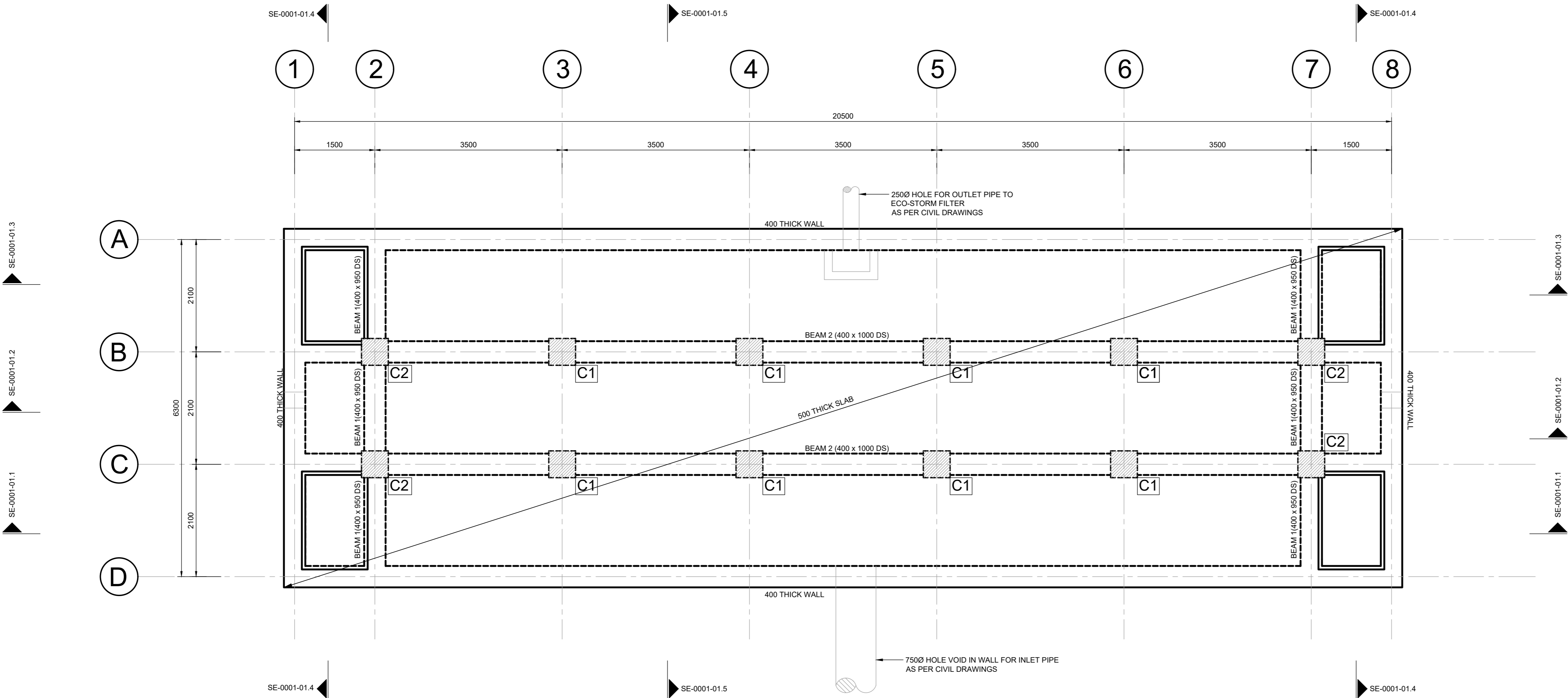
THE TEST RESULTS ARE TO BE SUBMITTED TO THE ENGINEERS IMMEDIATELY AND SHOULD ANY PROBLEMS BE ANTICIPATED NO SHUTTERING IS TO BE STRIPPED UNTIL FURTHER NOTICE FROM THE ENGINEERS.

ALL CONCRETE SHALL BE VIBRATED ACCORDING TO SPECIFICATION. ALL CONCRETE MUST BE CURED CONTINUOUSLY FOR SEVEN DAYS AFTER POURING AND EFFECTIVELY PROTECTED AGAINST DEHYDRATION.

SHUTTERING AND PROPPING MAY ONLY BE STRUCK AFTER THE LAPSE OF THE FOLLOWING TIMES: (ORDINARY PORTLAND CEMENT IN NORMAL CONDITIONS)		
POSITION OF SHUTTERING PROPS	Striking Time Days	
BEAM SIDE WALLS & UNLOADED COLUMNS	2	
SLAB SOFFITS WITHOUT REMOVAL OF SLAB PROPS	4	
BEAM SOFFITS WITHOUT REMOVAL OF PROPS	7	
PROPS UNLOADED SLABS	10	
PROPS UNLOADED BEAMS	14	
BEAMS AND SLABS MUST BE POURED WITH THE FOLLOWING CAMBERS		
BEAM OR SLAB ELEMENT	CAMBER	
CANTILEVER BEAMS AND SLABS	SPAN/150	
OTHER BEAMS AND SLABS	SPAN/400	
CONCRETE STRENGTHS ARE SPECIFIED IN TERMS OF CLAUSES IN SABS 1200. FOR THE VARIOUS ELEMENTS THEY ARE AS FOLLOWS		
STRUCTURAL ELEMENT	CONCRETE GRADE	
BLINDING	15	
BASES/ FOOTINGS	40	
BEAMS/ SLABS	40	
WALLS	40	
COLUMNS	40	
THE STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING IMPOSED FLOOR LOADS:		
STRUCTURE	LOADING (kN/m ²)	
LIVE LOAD	40	
CONCRETE COVER TO REINFORCEMENT (in mm) - UNLESS OTHERWISE SPECIFIED		
BASES/ FOOTINGS	-	60
STRAP BEAMS	-	60
PILECAP (TOP AND SLIDES)	-	60
COLUMNS	-	60
PILECAP (BOTTOM)	-	75
BEAMS	-	60
GROUND BEAMS	-	60
SLAB (TOP STEEL)	-	60
RETAINING WALLS (EARTH FACE)	-	60
SLAB (BOTTOM STEEL)	-	60

CUT-OFF AND REMOVE 213m LENGTH OF THE EXISTING CONCRETE CHANNELS TO ALLOW FOR THE FITTING OF THE STILLING BASIN. ANY EXPOSED REBAR TO BE ADEQUATELY PROTECTED.

CONCRETE MIX TO HAVE PENETRON ADMIX TO 0.8% OF CEMENT CONTENT BY WEIGHT. MIX BY CERTIFIED PENETRON BATCH PLANT.



TYPICAL SLAB AND BEAM LAYOUT
1:50

										GENERAL NOTES										CONTRACTOR / CONSULTANT										TRANSNET CAPITAL PROJECTS										Transnet Port Terminals										TRANSNET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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										5. CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS: a) CONCRETE WORK TO TRANSNET'S SPECIFICATION SABS AND SANS 10300. b) CONCRETE PLACING TO BE DONE IN ACCORDANCE WITH SANS 10100 PART 2, CLAUSE 10.2. c) CONCRETE CURE STRENGTHS ARE CHARACTERISTIC STRENGTHS TO SANS 10100 PARTS 1 AND 2										11. FORMWORK AND SURFACE FINISH FORMED SURFACES: a) VISIBLE SURFACE SMOOTH b) UNEXPOSED SURFACE ROUGH																				OPERATING DIVISIONS										TITLE										NAME										SIGN										DATE										DATE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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