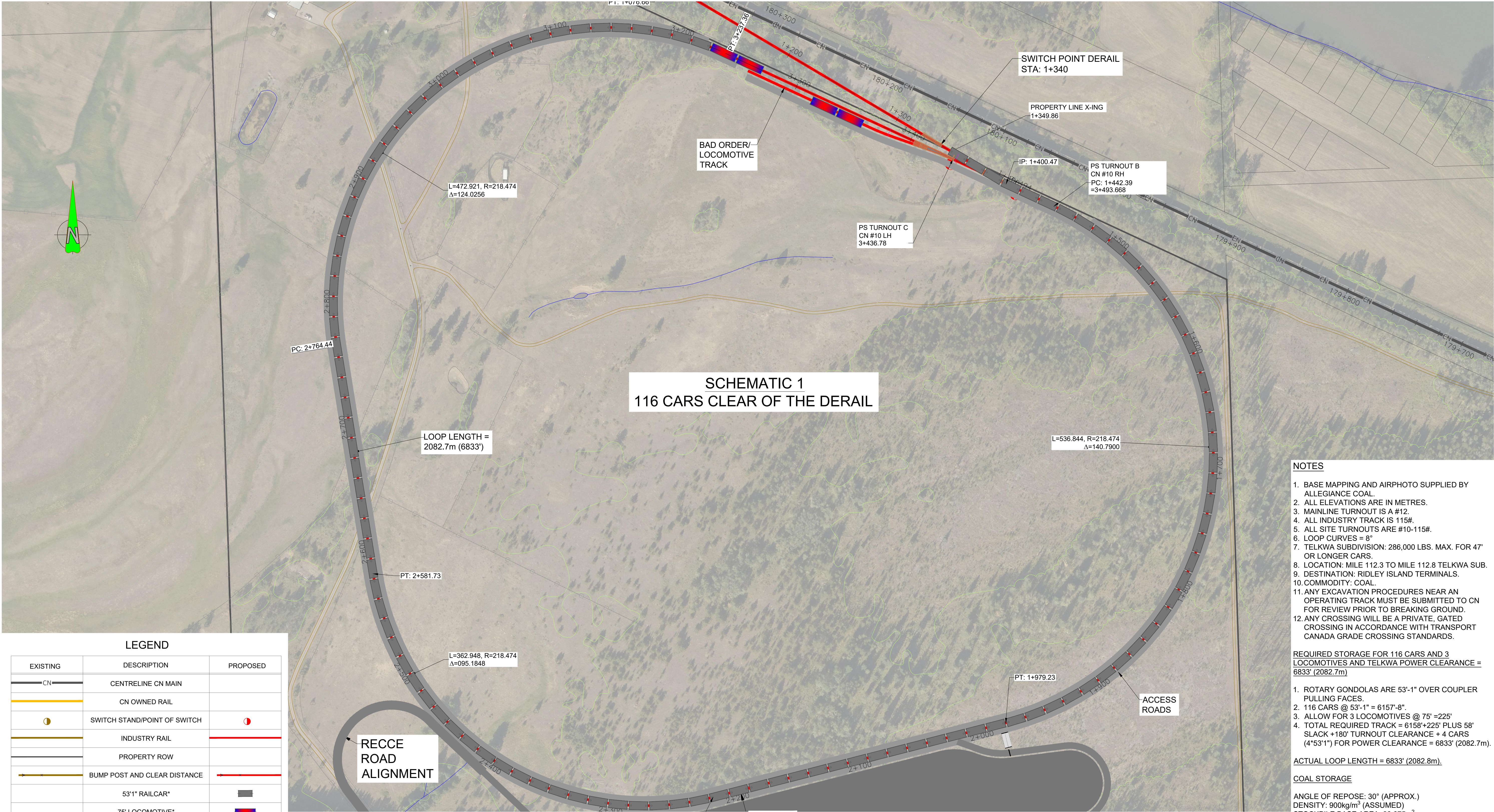




- NOTES**
1. BASE MAPPING AND AIRPHOTO SUPPLIED BY ALLEGIANCE COAL.
 2. ALL ELEVATIONS ARE IN METRES.
 3. MAINLINE TURNOUT IS A #12.
 4. ALL INDUSTRY TRACK IS 115#.
 5. ALL SITE TURNOUTS ARE #10-115#.
 6. LOOP CURVES = 8°
 7. TELKWA SUBDIVISION: 286,000 LBS. MAX. FOR 47' OR LONGER CARS.
 8. LOCATION: MILE 112.3 TO MILE 112.8 TELKWA SUB.
 9. DESTINATION: RIDLEY ISLAND TERMINALS.
 10. COMMODITY: COAL.
 11. ANY EXCAVATION PROCEDURES NEAR AN OPERATING TRACK MUST BE SUBMITTED TO CN FOR REVIEW PRIOR TO BREAKING GROUND.
 12. ANY CROSSING WILL BE A PRIVATE, GATED CROSSING IN ACCORDANCE WITH TRANSPORT CANADA GRADE CROSSING STANDARDS.

REQUIRED STORAGE FOR 116 CARS AND 3 LOCOMOTIVES AND TELKWA POWER CLEARANCE = 6833' (2082.7m)

1. ROTARY GONDOLAS ARE 53'-1" OVER COUPLER PULLING FACES.
2. 116 CARS @ 53'-1" = 6157'-8".
3. ALLOW FOR 3 LOCOMOTIVES @ 75' = 225'
4. TOTAL REQUIRED TRACK = 6158'+225' PLUS 58' SLACK +180' TURNOUT CLEARANCE + 4 CARS (4'53'1") FOR POWER CLEARANCE = 6833' (2082.7m).

ACTUAL LOOP LENGTH = 6833' (2082.8m).

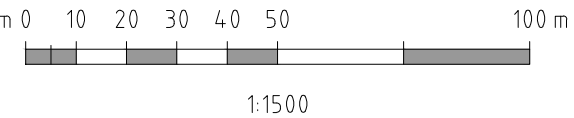
COAL STORAGE
ANGLE OF REPOSE: 30° (APPROX.)
DENSITY: 900kg/m³ (ASSUMED)
STOCKPILE BASE AREA: 30,675m²
STOCKPILE HEIGHT: 5m (MAX.)
STOCKPILE VOLUME: 134,500m³ (121,000 TONNES)

LEGEND		
EXISTING	DESCRIPTION	PROPOSED
	CN	
	CENTRELINE CN MAIN	
	CN OWNED RAIL	
	SWITCH STAND/POINT OF SWITCH	
	INDUSTRY RAIL	
	PROPERTY ROW	
	BUMP POST AND CLEAR DISTANCE	
	53'1" RAILCAR*	
	75' LOCOMOTIVE*	

*NOTE: RAILCARS SHOWN ARE 53'1" COAL CARS, BUT ARE SHOWN TWICE AS WIDE AS THEY ACTUALLY ARE FOR VISIBILITY.

SCHEMATIC 1
116 CARS CLEAR OF THE DERAIL

PLAN



REFERENCE DRAWINGS		
DRAWING NO	DRAWING DESCRIPTION/TITLE	REF
1		
2		
3		
4		
5		
6		
7		
8		

PRELIMINARY - NOT
FOR CONSTRUCTION

C	22/04/01	LANDOWNER NAME REMOVED	DMM	-
B	18/12/07	ADDED TELKWA POWER CLEARANCE	DMM	NH
A	18/11/28	ISSUED FOR CLIENT REVIEW	DMM	DMM
REV	YYMMDD	DESCRIPTION	DRWN	APVD

CLIENT:

TELKWA COAL
LIMITED

Morch Engineering Inc.
Civil Engineering Consulting Services
Nanaimo, BC (250)-713-8905

Copyright © Morch Engineering, all rights reserved. The information contained in this document is the exclusive property of Morch Engineering and shall not be reproduced, or disclosed, or communicated to any unauthorized person, or used in any other unauthorized manner/form whatsoever, without the express written permission of Morch Engineering.

TITLE: TELKWA COAL			
CLIENT NO:	-	DRWN:	DMM DATE: 18/09/05
PROJECT NO:	18012	DSGN:	DMM DATE: -
DRAWING SIZE:	22x34	CHKD:	- DATE: -
SCALE:	1:1500H 1:150V	APVD:	- DATE: -

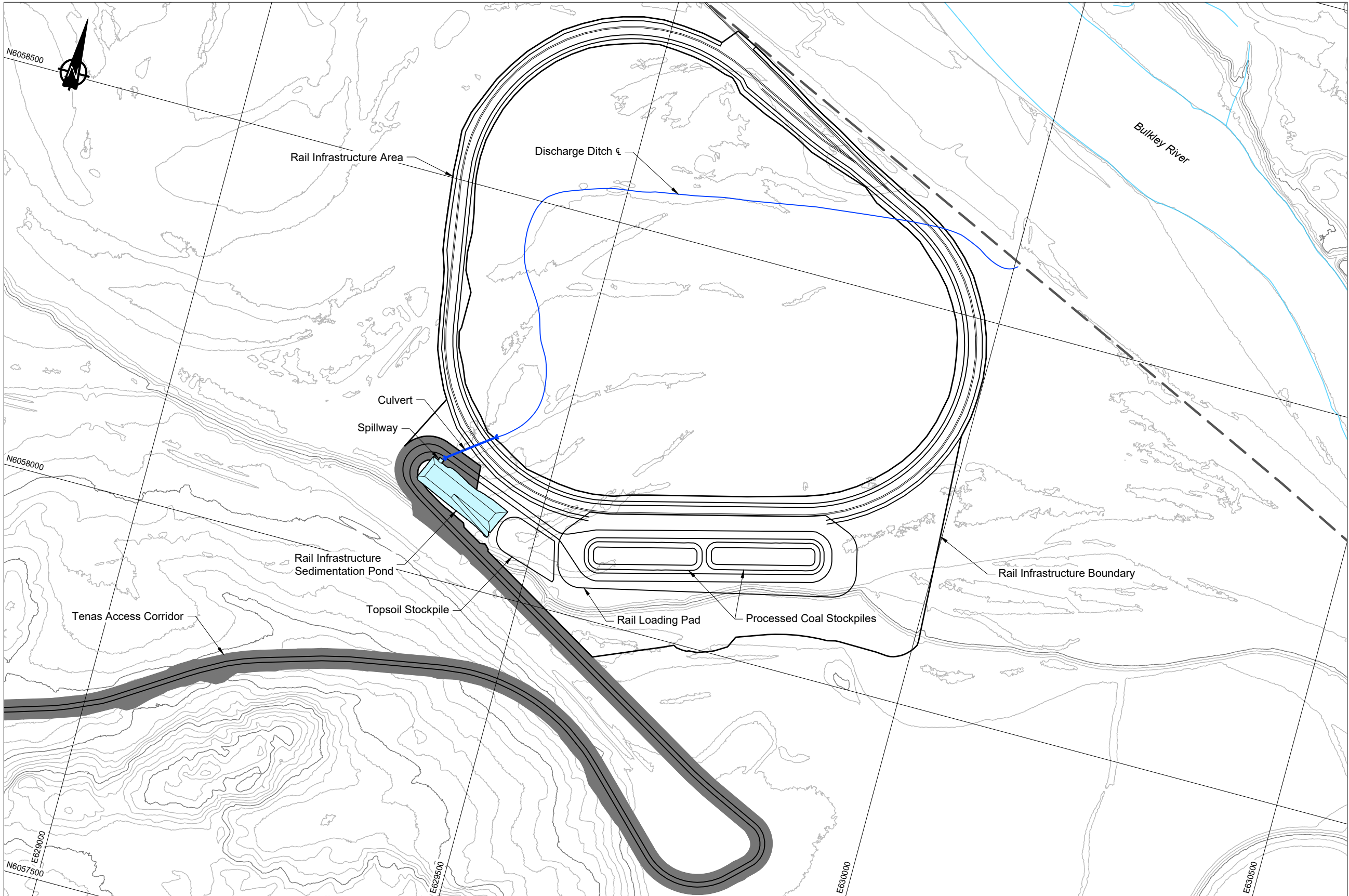
PROJECT:

Typical rail car set up prior to loading of the train after Canadian National Rail (CNR) drop off

FIGURE

1.21-4

\\ark-adf\share\env\Projects\01_SITES\Telkwa Coal\040_AutoCAD\Water Management\Mine Plan Progression\1CT027.003_Pond Rail Infrastructure.dwg



LEGEND

- Water Management Feature
- Spillway
- Culvert
- Existing Watercourse
- Proposed Road
- CN Railroad
- Sedimentation Pond

NOTES

- Contours shown at 2.0m intervals.
- All dimensions shown in meters unless otherwise stated.
- Pile designs by SRK Consulting Ltd.

REFERENCE

NAD83 UTM Zone 9.



SRK JOB NO.: 1CT027.003
FILE NAME: 1CT027.003 Pond Rail Infrastructure.dwg



Telkwa Coal

Environmental Assessment

Water Management Rail
Infrastructure Area

DATE:
2021/07/16

APPROVED:
SAB

FIGURE:
1.21-5

