PROPOSED STOCK PILE YARD PHASE 1 SITE: MYRA FALLS MINE

(49° 34' 31" N, 125° 36' 24" W)





DWG No: 635-8-STOCKPILEPH1GA-001

PREPARED FOR:



SHEET: 1 OF 11

ONSITE

PREPARED BY:

COASTAL OPERATIONS 1040 CEDAR STREET CAMPBELL RIVER, BC, V9W 7E2 PH.: 250-287-9174 FAX: 866-235-6943

DESIGN BY: MIKE PAQUIN, EIT DESIGN DATE: AUGUST 2, 2017 REVIEWED BY: JEREMY ARAKI, P.ENG DRAWN BY: TODD FORBES SITE VISIT: MIKE PAQUIN, EIT SITE VISIT DATES: MAY 11, 2017 FILE NAME: STOCKPILEPH1GA.DWG SCALE: AS NOTED REVISION NUMBER: 3 REVISION DATE: OCTOBER 23, 2017 ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

DRAWING INDEX:

SHEET 2 OF 10 - NOTES

SHEET 3 OF 10 - PLAN VIEW 1:1000

SHEET 4 OF 10 - PLAN VIEW 1:1000 WITH SECTION

REFERENCE

SHEET 5 OF 10 - PLAN VIEW 1:500

SHEET 6 OF 10 - FUEL STORAGE PAD PLAN VIEW SHEET 7 OF 10 - SECTIONS G AND H

SHEET 8 OF 10 - S/W FILL RETAINING WALL VIEWS, SECTIONS A AND B

SHEET 9 OF 10 - SECTIONS C, D, AND E

SHEET 10 OF 10 - SECTION F AND DETAILS 1, 2, 3 AND 4

SHEET 11 OF 11 - CONCRETE BLOCK

(INTERLOCKING) WALL LAYDOWN PATTERN

NOTES:

1. REFERENCED CODES

- 1.1. BC BUILDING CODE 2012
- 1.2. HEALTH SAFETY AND RECLAMATION CODE FOR MINES IN BRITISH COLUMBIA, 2017
- 1.3. BRITISH COLUMBIA MINES ACT, 1996

2. STRUCTURE:

- 2.1. CONCRETE BLOCKS TO BE NO.1 GRADE STANDARD SIZED BLOCKS AS INDICATED IN DRAWING DETAILS.
- 2.2. ALL STEEL TO BE CSA G40.21 350A STEEL UNLESS OTHERWISE NOTED.
- 2.3. ALL GALVANIZED COMPONENTS TO ADHERE TO ASTM A123.

3. GEOTECHNICAL:

- 3.1. FOUNDATION DESIGN REFERENCES THE CANADIAN FOUNDATION ENGINEERING MANUAL. SUBSURFACE INFORMATION HAS BEEN GATHERED FROM SITE OBSERVATIONS OF SOIL EXPOSURES IN EXPOSED CUTS AND MACHINE DUG TEST PITS. FIELD CONDITIONS MAY VARY FROM THOSE ENCOUNTERED. IF, UPON EXCAVATION, FIELD CONDITIONS VARY FROM THOSE ENCOUNTERED, THEN CHANGES TO THE FOUNDATION DESIGN OR INSTALLATION MAY BE REQUIRED.
- 3.2. SEE THE GEOTECHNICAL REPORT PREPARED BY ONSITE ENGINEERING LTD (OEL) FOR, COMPLETED OCTOBER 2017. THE REPORT PREPARED BY OEL DETAILS COMPACTION REQUIREMENTS FOR TYPICAL EQUIPMENT SIZES AND MATERIAL TYPES, MAXIMUM SUBGRADE ELEVATION TOLERANCES, AND ACCEPTABLE MATERIAL GRADATIONS.

4. FIELD REVIEWS:

- 4.1. A PROFESSIONAL ENGINEER OR THEIR DESIGNATE IS REQUIRED TO INSPECT THE FOLLOWING ACTIVITIES AND/OR CONSTRUCTION ELEMENTS PRIOR TO PROVIDING RECORD DRAWINGS:
 - FOUNDATION SUBGRADE SOILS FOLLOWING EXCAVATION
 - PREPARED SUBGRADE IMMEDIATELY PRIOR TO PLACING THE HDPE LINER AND ASSOCIATED GEOTEXTILE
 - LAYOUT AND PLACEMENT OF GEOGRID PRIOR TO BACK FILL
 - OTHER SITE INSPECTIONS AT THE DISCRETION OF THE PROFESSIONAL

5. INSTALLATION NOTES:

- 5.1. NOTE THAT WHERE EXCAVATION SPECIFICATIONS ON THESE DRAWINGS CONFLICT WITH WORKSAFEBC REGULATIONS, WORKSAFEBC REGULATIONS ARE TO GOVERN.
- 5.2. CONTRACTOR MUST NOT DISTURB THE LYNX CONVEYOR FOOTINGS OR BEARING SOILS.
- 5.3. CONTRACTOR MUST NOT DISTURB FUEL TANK FOUNDATION SOILS TO PREVENT DIFFERENTIAL SETTLEMENT OF THE FUEL TANKS.
- 5.4. CONTRACTOR TO FIELD FIT CULVERT AROUND LIME SILOS TO PREVENT SILO FOUNDATION DISTURBANCE WHILE MAINTAINING MINIMUM SPECIFIED GRADE. DO NOT EXCEED MANUFACTURES BEND RADIUS SPECIFICATIONS DURING FIELD FIT ACTIVITIES. CULVERT MUST DISCHARGE INTO PRE-EXISTING CONTACT WATER DITCH.
- 5.5. RAIN GUN INSTALLATION TO BE FIELD FIT ONCE THE CONTRACTOR CONFIRMS THE LOCATION OF A SUITABLE TIE IN LOCATION AFTER INITIAL EXCAVATION HAS TAKEN PLACE.
- 5.6. THE CONSTRUCTION SITE IS AN HISTORIC MILL SITE AND DOCUMENTATION OF PRE-EXISITING UTILITIES AND STRUCTURES IS LIMITED. CONTRACTOR TO EXPECT UNIDENTIFIED UTILITIES DURING EXCAVATION.

6. DATA COLLECTION METHODOLOGY

THE DESIGN IS BASED ON FIELD INSPECTIONS AND A REVIEW BY AN OEL AND NYRSTAR REPRESENTATIVE COMBINED WITH LIDAR AND ORTHOGRAPHIC DATA PROVIDED BY NYRSTAR IN JUNE 2017. NO INDEPENDENT SURVEY BY OEL WAS COMPLETED FOR THIS WORK SITE.

DWG No: 635-8-STOCKPILEPH1GA-002

PREPARED FOR:

PREPARED BY:

SHEET: 2 OF 11

ONSITE

COASTAL OPERATIONS 1040 CEDAR STREET CAMPBELL RIVER, BC, V9W 7E2

REVIEWED BY: JEREMY ARAKI, P.ENG DRAWN BY: TODD FORBES SITE VISIT: MIKE PAQUIN, EIT SITE VISIT DATES: MAY 11, 2017 FILE NAME: STOCKPILEPH1GA.DWG SCALE: AS NOTED **REVISION NUMBER: 3** REVISION DATE: OCTOBER 23, 2017 ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

DESIGN BY: MIKE PAQUIN, EIT

DESIGN DATE: AUGUST 2, 2017

PROPOSED STOCK PILE YARD PHASE 1 SITE: MYRA FALLS MINE (49° 34' 31" N, 125° 36' 24" W)

SEAL OF B.C. P.ENG.

PH.: 250-287-9174 FAX: 866-235-6943

















