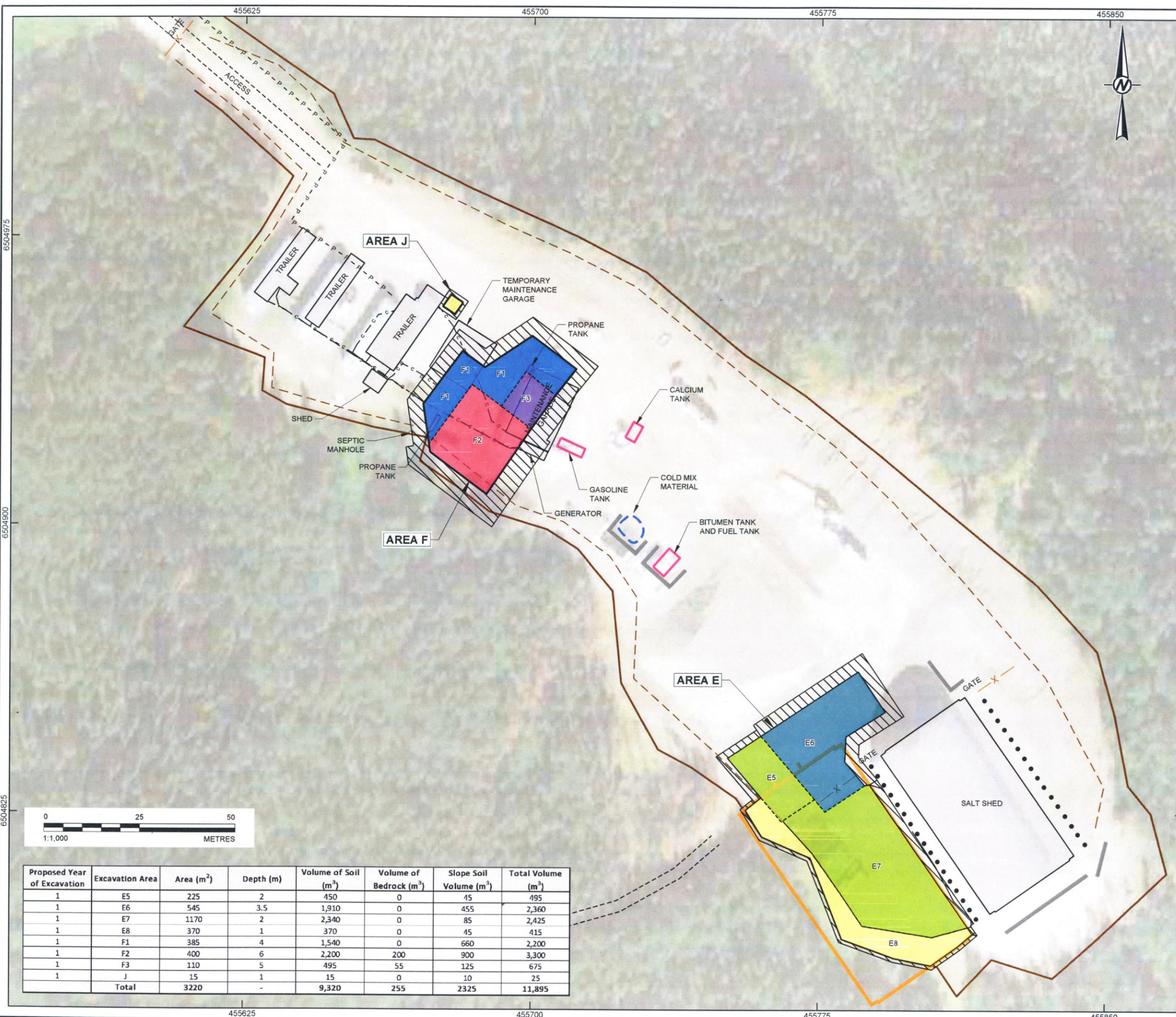


Path: \\golder\gsg\gait\04-Steamboat\GIS\Public Works and Government Services\Steamboat Maintenance Camp - Alaska Highway\99_PROJECTS\1660199_2000\DWG | File Name: 1660199_2000_10 - Excavation recover.dwg | Last Edited By: rjames Date: 2017-08-15 Time: 5:11:15 PM | Printed By: rjames Date: 2017-08-15 Time: 1:28:48 PM



LEGEND

- STRUCTURE
- POTENTIAL LOCATION OF FUTURE SALT SHED (TO BE CONSTRUCTED IN 2017 AFTER REMEDIATION YEAR 1)
- CONCRETE BARRIER
- TREELINE
- CREST OF SLOPE
- POWERLINE
- BURIED CABLE
- BURIED PIPE
- ABOVE GROUND STORAGE TANK
- COLD MIX MATERIAL
- FENCELINE / GATE
- EDGE OF ROAD
- ANCHOR PILE
- ESTIMATED SLOPE EXCAVATION (TO BE CONFIRMED BY CONTRACTOR)
- 1 mbgs EXCAVATION
- 2 mbgs EXCAVATION
- 2.5 mbgs EXCAVATION
- 3 mbgs EXCAVATION
- 3.5 mbgs EXCAVATION
- 4 mbgs EXCAVATION
- 5 mbgs EXCAVATION
- 6 mbgs EXCAVATION

- NOTES**
1. BUILDINGS/INFRASTRUCTURE ARE AS OF SEPTEMBER 9, 2016 AND ARE BASED ON GOLDER SITE OBSERVATIONS AND A SURVEY CONDUCTED BY VECTOR GEOMATICS LAND SURVEYING LTD.
 2. LOCATION AND DIMENSIONS OF THE TEMPORARY MAINTENANCE GARAGE ARE APPROXIMATE
 3. mbgs = METRES BELOW GROUND SURFACE
 4. VOLUMES ARE APPROXIMATE
 5. ACCESS TO TRAILERS, ASTs AND SALT SHED MUST BE MAINTAINED AT ALL TIMES
 6. BARRICADES AND SIGNAGE MUST BE PROVIDED BY THE CONTRACTOR WHEN THE EXCAVATION IS LEFT OPEN.
 7. MATERIAL WITHIN THE EXCAVATION BOUNDS HAS CSR AND/OR CCME EXCEEDANCES AND MUST BE DISPOSED OF AT A PERMITTED FACILITY
 8. MATERIAL EXCAVATED OUTSIDE THE EXCAVATION LIMITS MAY HAVE CSR AND/OR CCME EXCEEDANCES AND SHOULD BE GEOTECHNICALLY AND ENVIRONMENTALLY ASSESSED FOR BACKFILL SUITABILITY IF TO BE PLACED BACK INTO THE EXCAVATION.
 9. CONTAMINATED SITES REGULATION (CSR) - STANDARDS ARE FROM THE CONTAMINATED SITES REGULATION B.C. REG. 375/96, O.C. 1480/96 AND M271/2004 INCLUDING AMENDMENTS UP TO MINISTERIAL ORDER NO. M426 (ALSO REFERRED TO AS STAGE 10 AMENDMENTS, OR OMNIBUS), INCLUDING UP TO ERRATA VERSION 2 (JANUARY 27, 2017).
 10. CANADIAN COUNCIL OF MINISTERS OF THE ENVIRONMENT (CCME) - CANADA WIDE STANDARDS FOR PETROLEUM HYDROCARBONS (PHC) IN SOIL (JANUARY 2008) AND CANADIAN SOIL QUALITY GUIDELINES FOR THE PROTECTION OF ENVIRONMENTAL AND HUMAN HEALTH POLYCYCLIC AROMATIC HYDROCARBONS (2010).
 11. EXCAVATIONS MAY ENCOUNTER DEBRIS OR OTHER OBSTRUCTIONS NOT IDENTIFIED DURING BOREHOLE DRILLING AND TEST PITTING.
 12. LAYOUT OF FUTURE SALT SHED WAS PROVIDED BY PUBLIC SERVICES AND PROCUREMENT CANADA MAY 28, 2017
 13. VOLUME FOR ESTIMATED SLOPE VOLUME PROVIDED FOR TRANSPORT, DISPOSAL AND BACKFILL PURPOSES ONLY, TIME OF SLOPE EXCAVATION TO BE COVERED UNDER TEMPORARY SLOPING AND SHORING.
 14. SIDE SLOPE AREA SHOWN ON FIGURE ASSUMES 1:1 SIDE SLOPE. ACTUAL SIDE SLOPE ANGLE TO BE CONFIRMED BY CONTRACTOR PRIOR TO EXCAVATING.
 15. PRIORITY OF EXCAVATION IS AS FOLLOWS: E6, F & J AND THEN H, E5, E7 & E8

- REFERENCES**
1. SURVEY PLAN OBTAINED FROM VECTOR GEOMATICS LAND SURVEYING LTD. CAD FILE: 1609392SP_R0_EMAIL.DWG. DATED: SEPTEMBER 9, 2016.
 2. BACKGROUND IMAGE SUPPLIED BY AND SOURCED UNDER LICENSE FROM BING IMAGES FOR ARCMAP ON: MARCH 28, 2017 IMAGE DATE: JULY, 2010 IMAGE GEOREFERENCED BY GOLDER AND INTENDED FOR INDICATIVE PURPOSES ONLY
 3. DATUM: NAD83 PROJECTION: UTM ZONE 10.



Proposed Year of Excavation	Excavation Area	Area (m ²)	Depth (m)	Volume of Soil (m ³)	Volume of Bedrock (m ³)	Slope Soil Volume (m ³)	Total Volume (m ³)
1	E5	225	2	450	0	45	495
1	E6	545	3.5	1,910	0	455	2,360
1	E7	1170	2	2,340	0	85	2,425
1	E8	370	1	370	0	45	415
1	F1	385	4	1,540	0	660	2,200
1	F2	400	6	2,200	200	900	3,300
1	F3	110	5	495	55	125	675
1	J	15	1	15	0	10	25
	Total	3220	-	9,320	255	2325	11,895

CLIENT
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

PROJECT
STEAMBOAT MAINTENANCE CAMP, KILOMETRE 537.9
ALASKA HIGHWAY, B.C.

TITLE
PROPOSED REMEDIAL EXCAVATION EXTENTS - YEAR 1

CONSULTANT
Golder Associates

YYYY-MM-DD: 2017-08-16
 DESIGNED: [Signature]
 PREPARED: [Signature]
 REVIEWED: [Signature]
 APPROVED: [Signature]

PROJECT NO. 1660199
 REV. 1
 DRAWING 10

25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A4B1

