

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 Section 02 83 10 – Lead Based Paint Minimum Precautions
- .2 Section 02 83 11 – Lead Based Paint Intermediate Precautions

1.2 SUMMARY

- .1 The existing soil within the Guardroom and Jail Cells is considered impacted with petroleum hydrocarbon, polycyclic aromatic hydrocarbon and/or inorganic metal contamination exceeding provincial and federal soil quality guidelines.
- .2 The work includes the sealing of impacted soils in the Guardroom and Jail Cells beneath a barrier to prevent contact with the soil by visitors.
- .3 The work should be completed in association with the lead based paint abatement work.
- .4 Site remediation work includes:
 - .1 Provide labour and tools as required to seal the impacted soil beneath a barrier to prevent direct contact with the soil by visitors.

1.3 REFERENCE STANDARDS

- .1 CCME (Canadian Council of Ministers of the Environment) Contaminated Sites, Contaminated Soil and Groundwater, and Remediation of Contaminated Sites most current publications.

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Cover impacted soil in accordance with applicable provincial and federal laws, regulations, codes and guidelines.
- .2 All personnel working with or in contact with the impacted soil shall implement the following measures:
 - .1 Personnel Protective Equipment – at a minimum, workers should wear long pants, long sleeves, gloves and safety glasses. Standard coveralls and work gloves are recommended as these can be removed at the end of the day and left on-site and eventually laundered, to avoid tracking soil and dust from the work site.
 - .2 Minimize Dust Generation - water down the work area to control dust or wear half-face respirators with P100 dust cartridges if dust cannot be contained.
 - .3 Clean zone / safe area – establish a safe location where workers may take lunch breaks and consume beverages away from the soil excavation work such as job trailer or an upwind exterior area.
 - .4 Practice Good hygiene – workers should wash hands before eating to avoid accidental ingestion of soil and dust. An on-site source of water, cleaning supplies and towels should be arranged for site workers.
 - .5 Decontamination – clean tools and equipment with soap and water when finished working impacted soils, prior to storage or use in other locations.

1.5 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00- Submittal Procedures.
- .2 Closeout Submittals:
 - .1 Provide confirmation of off-site disposal including weigh bills.

1.6 MATERIALS

- .1 Polyethylene 0.15 mm unless otherwise specified; in sheet size to minimize joints.
- .2 Geotextile Separation Layer: Terrafix 270 R or equivalent approved by Departmental Representative;
- .3 Tape: fibreglass - reinforced duct tape suitable for sealing polyethylene under dry conditions and wet conditions using amended water.
- .4 Finish flooring by others.

Part 2 Execution

2.1 PREPARATION

- .1 Protection:
 - .1 Protect and isolate work area from unnecessary vehicle or construction traffic during encapsulation of impacted soil.

2.2 METHOD OF REMEDIATION

- .1 Encapsulation:
 - .1 Place geotextile separation layer and polyethylene sheet over entire floor surface of guardroom and jail cells to provide a clean barrier over the environmentally impacted soils.
 - .2 Seal joints between sheets and along edges with walls using fibreglass reinforced duct tape to prevent direct contact with the underlying impacted soils.

2.3 RESTORATION

- .1 Finish flooring by others.
- .2 Restore any areas disturbed or damaged soil surfaces including haul road from landing area to match pre-work conditions.

2.4 EQUIPMENT DECONTAMINATION

- .1 Decontaminate and clean equipment on completion of work in contact with impacted soil

END OF SECTION