

Part 1 General

1.1 REFERENCES

- .1 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-8.2-M88, Sieves, Testing, Woven Wire, Metric.

1.2 SUBMITTALS

- .1 Make submittals in accordance with Section 01 33 00 - Submittal Procedures.

1.3 QUALITY ASSURANCE

- .1 Submit design and supporting data at least 2 weeks prior to beginning Work.
- .2 Keep design and supporting data on site.
- .3 Health and Safety Requirements:
 - .1 Do construction occupational health and safety in accordance with Alberta Workplace Health and Safety regulations.

1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Divert excess materials from landfill to local stockpile for reuse where possible.

Part 2 Products

2.1 MATERIALS

- .1 Sand Backfill
 - .1 Sand is to be clean and free-running, conforming to grading below (sieve sizes to CAN/CGSB-8.2-M88).
 - .2 Table 1: Sand Backfill Gradation Limits

Sieve Size (mm)	Percent Passing Sieve Size
10	100
5	90-100
0.630	25-60
0.08	0-3

Part 3 Execution

3.1 SITE PREPARATION

- .1 Remove clutter and obstructions from surfaces to be excavated.

3.2 PREPARATION/PROTECTION

- .1 Protect existing features and existing utilities as required.
- .2 Keep excavations clean, free of standing water, and loose soil.
- .3 Where soil is subject to significant volume change due to change in moisture content, cover and protect to Engineer approval.
- .4 Protect natural and man-made features required to remain undisturbed. Protect buried services that are required to remain undisturbed.

3.3 STOCKPILING

- .1 Stockpile fill materials in areas approved by Departmental Representative.
 - .1 Stockpile granular materials in manner to prevent segregation.
- .2 Protect fill materials from contamination.

3.4 DEWATERING AND HEAVE PREVENTION

- .1 Keep excavations free of water while Work is in progress.

3.5 EXCAVATION

- .1 Sections of concrete slab shall be saw cut as indicated on drawings. Fill below slab shall be removed and disposed of as indicated.
- .2 Excavation must not interfere with bearing capacity of adjacent foundations.
- .3 Dispose of surplus and unsuitable excavated material in approved location on site.
- .4 Earth bottoms of excavations to be undisturbed soil, level, free from loose, soft or organic matter. Remove unsuitable material from trench bottom including those that extend below required elevations to extent and depth as directed by Departmental Representative.
- .5 Hand trim, make firm and remove loose material and debris from excavations.
 - .1 Where material at bottom of excavation is disturbed, compact foundation soil to density at least equal to undisturbed soil.

3.6 BEDDING AND SURROUND OF UNDERGROUND SERVICES

- .1 Place and compact granular material for bedding and surround of underground services.
- .2 Place bedding and surround material in unfrozen condition.

- .3 Place 150 mm of sand fill under precast base.
- .4 Provide lean-mix concrete to protect exposed existing utilities as indicated in drawings.

3.7 BACKFILLING

- .1 Do not proceed with backfilling operations until completion of following:
 - .1 Departmental Representative has inspected and approved installations.
 - .2 Departmental Representative has inspected and approved of construction below finish grade.
 - .3 Inspection, testing, approval, and recording location of underground utilities where applicable.
- .2 Areas to be backfilled to be free from debris.
- .3 Backfilling around installations:
 - .1 Place bedding and surround material as specified in drawings.
 - .2 Place layers simultaneously on both sides of installed Work to equalize loading. Difference not to exceed 600 mm.
- .4 Place fill in areas as indicated in 150mm lifts and compact to density indicated.
- .5 Consolidate and level fill with internal vibrators.

END OF SECTION