PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

.1 Section 03 30 00.01 - Cast-In-Place Concrete Short Form.

.2 Section 32 11 17 - Reshaping Granular Roadbed.

1.2 ADMINISTRATIVE REQUIREMENTS

.1 Co-ordination: arrange with authority having jurisdiction for relocation of buried services that interfere with execution of work.
.1 Pay costs of relocating services.

PART 2 - PRODUCTS

2.1 MATERIALS

.1 Granular 'A', Granular 'B', and Granular 'C'.

PART 3 - EXECUTION

3.1 EXAMINATION

.1 Evaluation and Assessment:
.1 Examine test pit information as shown on drawings.
.2 Before commencing work establish locations of buried services on and adjacent to site.

3.2 PREPARATION

.1 Temporary erosion and sedimentation control:
.1 Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to requirements of authorities having jurisdiction.
.2 Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.
.3 Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

3.2 PREPARATION (Cont'd)

.2 Protection of in-place conditions:
.1 Protect excavations from freezing.
.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 Departmental Representative's approval.
.4 Protect natural and man-made features required to remain undisturbed. Unless otherwise indicated or located in an area to be occupied by new construction, protect existing trees from damage.
.5 Protect buried services that are required to remain undisturbed.

.3 Removal:
.1 Remove trees, stumps, logs, brush, shrubs, bushes, vines, undergrowth, rotten wood, dead plant material, exposed boulders and debris within work area.

3.3 EXCAVATION

.1 Shore and brace excavations, protect slopes and banks and perform work in accordance with Provincial regulations.

.2 Strip topsoil over areas to be covered by new construction, over areas where grade changes are required, and so that excavated material may be stockpiled without covering topsoil.
.1 Stockpile topsoil on site for later use.

.3 Excavate as required to carry out work.
.1 Do not disturb soil or rock below bearing surfaces.
.2 Notify Departmental Representative when excavations are complete.
.3 If bearings are unsatisfactory, additional excavation will be authorized in writing and paid for as additional work.
.4 Excavation taken below depths shown without Departmental Representative's written authorization to be filled with concrete of same strength as for footings at Contractor's expense.

3.4 FIELD QUALITY CONTROL

.1 Testing of materials and compaction of backfill will be carried out by testing laboratory designated by Departmental Representative.

.2 Not later than 1 week minimum before backfilling or filling, submit to designated testing agency, samples of backfill as described in PART 1 - ACTION AND INFORMATIONAL SUBMITTALS.

.3 Do not begin backfilling or filling operations until material has been approved for use by Departmental Representative .

.4 Not later than 48 hours before backfilling or filling with approved material, notify Departmental Representative to allow compaction tests to be carried out by designated testing agency.

3.5 BACKFILLING

.1 Remove snow, ice, construction debris, organic soil and standing water from spaces to be filled.

.2 Lateral support: maintain even levels of backfill around structures as work progresses, to equalize earth pressures.

.3 Compaction of subgrade: compact existing subgrade under walks, paving, and slabs on grade, to same compaction as fill.
.1 Fill excavated areas with selected subgrade material compacted as specified for fill.

.4 Placing:
.1 Place backfill, fill and base course material in 150 mm lifts: add water as required to achieve specified density.

.5 Compaction: compact each layer of material to following densities for material to ASTM D 698:
.1 To underside of base courses: 95%.
.2 Base courses: 100%.
.3 Elsewhere: 90%.

.6 Under paving:

3.5 BACKFILLING (Cont'd)

.6 (Cont'd)
.1 Use select backfill up to bottom of granular base courses.
.2 Use Granular 'B' for base courses.

.7 Under seeded and sodded areas: use site excavated material to bottom of topsoil except in trenches and within 600 mm of foundations.

.8 Against foundations (except as applicable to trenches and under slabs and paving): excavated material or imported material with no stones larger than 200 mm diameter within 600 mm of structures.

3.6 GRADING

.1 Grade so that water will drain away from buildings, walls and paved areas, to catch basins and other disposal areas approved by Departmental Representative.

3.7 CLEANING

.1 Leave Work area clean at end of each day.

.2 Dispose of cleared and grubbed material off site daily.

.3 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment.

END OF SECTION