

**Part 1            General**

**1.1                SUMMARY**

- .1    Measurement Procedures.
  - .1    Measure removal of asphaltic concrete pavement in square metres for each thickness specified.
  - .2    Measure removal of Portland cement concrete pavement in square metres for each thickness specified.
  - .3    Measure removal of base and sub-base pavement materials in square metres.
  - .4    Measure removal of concrete and masonry foundations in cubic metres.
  - .5    Measure removal of culverts, pipe sewers and drains in metres for each diameter. End points of measurements will be at centres of manholes or catch basins or open ends of pipes, as applicable.
  - .6    Measure removal of manholes and catch basins.
  - .7    Measure removal of cable duct banks regardless of number of ducts in each bank, in metres from end to end of duct bank for each size.
  - .8    Measure removal of fences, curbs and guard rails in metres.
  - .9    Payment for salvage, stockpiling, sealing, disposal, alternative disposal, recycling, excavating and backfilling and restoration will be included in above removal items.
  - .10   Measure removal of waste materials designated for alternate disposal from the site in tonnes.

**1.2                REFERENCES**

- .1    Canadian Council of Ministers of the Environment (CCME).
  - .1    PN1326, Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products.
- .2    Department of Justice Canada (Jus).
  - .1    Canadian Environmental Assessment Act (CEAA), 1995, c. 37.
  - .2    Canadian Environmental Protection Act, 1999 (CEPA), c. 33.
- .3    Health Canada/Workplace Hazardous Materials Information System (WHMIS).
  - .1    Material Safety Data Sheets (MSDS).
- .4    Transport Canada (TC).
  - .1    Transportation of Dangerous Goods Act, 1992 (TDGA), c. 34.

**1.3                DEFINITIONS**

- .1    Demolition: rapid destruction of building following removal of hazardous materials.
- .2    Hazardous Materials: dangerous substances, dangerous goods, hazardous commodities and hazardous products, may include but not limited to: asbestos, PCB's, CFC's, HCFC's poisons, corrosive agents, flammable substances, ammunition, explosives, radioactive

substances, or other material that can endanger human health or well being or environment if handled improperly.

- .3 Waste Audit (WA): detailed inventory of materials in building. Indicates quantities of reuse, recycling and landfill.
  - .1 Involves quantifying by volume/weight amounts of materials and wastes generated during construction, demolition, deconstruction, or renovation project.
  - .2 Indicates quantities of reuse, recycling and landfill.
- .4 Waste Management Coordinator (WMC): contractor representative responsible for supervising waste management activities as well as coordinating related, required submittal and reporting requirements.
- .5 Waste Reduction Workplan (WRW): written report which addresses opportunities for reduction, reuse, or recycling of materials. WRW is based on information acquired from WA.

#### **1.4 SUBMITTALS**

- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data: submit WHMIS MSDS - Material Safety Data Sheets in accordance with Section 02 81 01 - Hazardous Materials.
- .3 Shop drawings.
  - .1 Submit for approval drawings, diagrams or details showing sequence of demolition work and supporting structures and underpinning, where required by authorities having jurisdiction.
  - .2 Submit drawings stamped and signed by qualified professional engineer registered or licensed in Province of Manitoba, Canada.
- .4 Hazardous Materials: provide description of Hazardous Materials and Notification of Filing with proper authorities prior to beginning of Work as required.
- .5 Waste Reduction Workplan: prior to beginning of Work on site submit detailed Waste Reduction Workplan in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal and indicate:
  - .1 Descriptions of and anticipated quantities in percentages of materials to be salvaged reused, recycled and landfilled.
  - .2 Schedule of selective demolition.
  - .3 Number and location of dumpsters.
  - .4 Anticipated frequency of tippage.
  - .5 Name and address of haulers, waste facilities and waste receiving organizations.
- .6 Certificates: submit copies of certified weigh bills, bills of lading, receipts from authorized disposal sites and reuse and recycling facilities for material removed from site on weekly basis upon request of Departmental Representative.
  - .1 Written authorization from Departmental Representative listed in Waste Reduction Workplan.

## **1.5 QUALITY ASSURANCE**

- .1 Regulatory Requirements: ensure Work is performed in compliance with CEPA, CEEA, TDGA, and applicable Provincial/Territorial regulations.
- .2 Site Meetings.
  - .1 Convene pre-installation meeting one week prior to beginning work of this Section and on-site installations in accordance with Section 01 32 15 Construction Progress Schedule to:
    - .1 Verify project requirements.
    - .2 Review installation and substrate conditions.
    - .3 Co-ordination with other building subtrades.
    - .4 Review manufacturer's installation instructions and warranty requirements.
  - .2 Arrange for site visit with Departmental Representative to examine existing site conditions adjacent to demolition work, prior to start of Work.
  - .3 Hold project meetings every week.
  - .4 Ensure key personnel including site supervisor, project manager, subcontractor representatives attend.
  - .5 Reporting Requirements: WMC to complete.
  - .6 WMC must provide written report on status of waste diversion activity at each meeting.
  - .7 Departmental Representative will provide written notification of change to meeting schedule established upon contract award 24 hours prior to scheduled meeting.

## **1.6 DELIVERY, STORAGE AND HANDLING**

- .1 Perform Work in accordance with Section 01 35 43 - Environmental Procedures.
- .2 Storage and Protection.
  - .1 Protect in accordance with Section 31 23 33.01 - Excavating, Trenching and Backfilling.
  - .2 Protect existing items designated to remain and items designated for salvage. In event of damage to such items, immediately replace or make repairs to approval of Departmental Representative and at no cost to Departmental Representative.
  - .3 Remove and store materials to be salvaged, in manner to prevent damage.
  - .4 Store and protect in accordance with requirements for maximum preservation of material.
  - .5 Handle salvaged materials as new materials.
- .3 Waste Management and Disposal.
  - .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
  - .2 Divert excess materials from landfill to site approved by Departmental Representative.
  - .3 Separate for reuse and recycling and place in designated waste in accordance with Waste Management Plan.

- .4 Place materials defined as hazardous or toxic in designated containers.
- .5 Handle and dispose of hazardous materials in accordance with CEPA, TDGA, Regional and Municipal, regulations.
- .6 Label location of salvaged material's storage areas and provide barriers and security devices.
- .7 Ensure emptied containers are sealed and stored safely.
- .8 Source separate for recycling materials that cannot be salvaged for reuse including wood, metal, concrete and asphalt, and gypsum.
- .9 Remove materials that cannot be salvaged for reuse or recycling and dispose of in accordance with applicable codes at licensed facilities.

## **1.7 SITE CONDITIONS**

- .1 Site Environmental Requirements.
  - .1 Perform work in accordance with Section 01 35 43 - Environmental Procedures.
  - .2 Ensure that selective demolition work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.
  - .3 Do not dispose of waste of volatile materials including but not limited to, mineral spirits, oil, petroleum based lubricants, or toxic cleaning solutions into watercourses, storm or sanitary sewers.
    - .1 Ensure proper disposal procedures are maintained throughout the project.
  - .4 Do not pump water containing suspended materials into watercourses, storm or sanitary sewers or onto adjacent properties.
  - .5 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authorities or as directed by Departmental Representative.
  - .6 Protect trees, plants and foliage on site and adjacent properties where indicated.
- .2 Existing Conditions.
  - .1 Remove contaminated or hazardous materials listed as hazardous as defined by authorities having jurisdiction as directed by Departmental Representative from site, prior to start of demolition Work, and dispose of at designated disposal facilities in safe manner in accordance with TDGA and other applicable regulatory requirements and Section 02 81 01 - Hazardous Materials.
  - .2 List of hazardous materials:
    - .1 None identified.

## **1.8 SCHEDULING**

- .1 Employ necessary means to meet project time lines without compromising specified minimum rates of material diversion.
  - .1 Notify Departmental Representative in writing when unforeseen delays occur.

**Part 2 Products**

**2.1 EQUIPMENT**

- .1 Leave machinery running only while in use, except where extreme temperatures prohibit shutting machinery down.

**Part 3 Execution**

**3.1 PREPARATION**

- .1 Inspect site with Departmental Representative and verify extent and location of items designated for removal, disposal, alternative disposal, recycling, salvage and items to remain.
- .2 Locate and protect utilities. Preserve active utilities traversing site in operating condition.
- .3 Notify and obtain approval of utility companies before starting demolition.
- .4 Disconnect and Cap Designated Mechanical Services.
  - .1 Natural Gas Supply Lines: remove in accordance with gas company requirements and contact utility company to arrange for removal.
  - .2 Sewer and Water Lines: remove to property line in accordance with authority having jurisdiction, contact utility company to arrange for removal as directed by Departmental Representative and securely plug to form watertight seal.
  - .3 Other Underground Services: remove and dispose of as indicated or as directed by Departmental Representative in accordance with Section 33 71 73.02 - Underground Electrical Service.
  - .4 Underground Storage Tanks: remove and dispose of in accordance with CCME PN1326 and Section 02 65 00 - Underground Storage Tank Removal.

**3.2 REMOVAL OF HAZARDOUS WASTES**

- .1 Remove contaminated or dangerous materials defined by authorities having jurisdiction, relating to environmental protection, from site and dispose of in safe manner to minimize danger at site or during disposal.

**3.3 REMOVAL OPERATIONS**

- .1 Remove items as indicated.
- .2 Do not disturb items designated to remain in place.
- .3 Removal of Pavements, Curbs and Gutters:
  - .1 Square up adjacent surfaces to remain in place by saw cutting or other method approved by Departmental Representative.
  - .2 Protect adjacent joints and load transfer devices.
  - .3 Protect underlying and adjacent granular materials.
- .4 Prevent contamination with base course aggregates, when removing asphalt pavement for subsequent incorporation into hot mix asphalt concrete paving,

- .5 Excavate at least 300 mm below pipe invert, when removing pipes under existing or future pavement area.
- .6 Decommission water wells and monitoring wells in accordance with Municipal and Provincial guidelines and regulations.
- .7 Remove as many trees as required and designated trees during demolition.
  - .1 Obtain written approval of Departmental Representative prior to removal of trees not designated.
- .8 Disposed of alternately trees designated for removal and identified by Departmental Representative to be healthy.
  - .1 Grind, chip, or shred other vegetation for mulching and composting, or use as mill pulp or process fuel.
- .9 Stockpile topsoil for final grading and landscaping.
  - .1 Provide erosion control and seeding if not immediately used.
- .10 Salvage.
  - .1 Items to be salvaged:
    - .1 Underground conduit;
    - .2 Copper wiring;
    - .3 Utility service lines;
    - .4 Concrete culverts;
    - .5 Light standards and concrete bases
    - .6 Signage
  - .2 Dismantle items containing materials for salvage and stockpile salvaged materials at locations as indicated.
- .11 Disposal of Material.
  - .1 Dispose of materials not designated for salvage or reuse on site as instructed by Departmental Representative at authorized facilities approved in Waste Reduction Workplan.
  - .2 Trim disposal areas to approval of Departmental Representative.
- .12 Backfill.
  - .1 Backfill in areas as indicated and in accordance with Section 31 23 33.01 - Excavating, Trenching and Backfilling.

### **3.4 STOCKPILING**

- .1 Label stockpiles, indicating material type and quantity.
- .2 Designate appropriate security resources/measures to prevent vandalism, damage and theft.
- .3 Locate stockpiled materials convenient for use in new construction to eliminate double handling wherever possible.

- .4 Stockpile materials designated for alternate disposal in location which facilitates removal from site and examination by potential end markets, and which does not impede disassembly, processing, or hauling procedures.

### **3.5 REMOVAL FROM SITE**

- .1 Remove stockpiled material when it interferes with operations of project.
- .2 Remove stockpiles of like materials by alternate disposal option once collection of materials is complete.
- .3 Transport material designated for alternate disposal using approved haulers, facilities, receiving organizations listed in Waste Reduction Workplan and in accordance with applicable regulations.
  - .1 Written authorization from Departmental Representative is required to deviate from haulers, facilities and receiving organizations listed in Waste Reduction Workplan.
- .4 Dispose of materials not designated for alternate disposal in accordance with applicable regulations.
  - .1 Disposal Facilities: approved and listed in Waste Reduction Workplan.
  - .2 Written authorization from Departmental Representative is required to deviate from disposal facilities listed in Waste Reduction Workplan.

### **3.6 RESTORATION**

- .1 Restore areas and existing works outside areas of demolition to conditions that existed prior to beginning of Work and match condition of adjacent, undisturbed areas.
- .2 Use soil treatments and procedures which are not harmful to health, are not injurious to plants, and do not endanger wildlife, adjacent water courses or ground water.

### **3.7 CLEANING**

- .1 Remove debris, trim surfaces and leave work site clean, upon completion of Work
- .2 Use cleaning solutions and procedures which are not harmful to health, are not injurious to plants, and do not endanger wildlife, adjacent water courses or ground water.

**END OF SECTION**

**Part 1            General**

**1.1                REFERENCES**

- .1            Manitoba Infrastructure and Transportation
  - .1            Manitoba Infrastructure and Transportation Construction Specification 810,  
              Removing Asphalt [March 1986]

**Part 2            Products**

**2.1                EQUIPMENT**

- .1            Use cold milling, planning or grinding equipment with automatic grade controls capable of operating from stringline, and capable of removing part of pavement surface to depths or grades indicated.

**Part 3            Execution**

**3.1                PREPARATION**

- .1            Prior to beginning removal operation, inspect and verify with Departmental Representative areas, depths and lines of asphalt pavement to be removed.
- .2            Protection: protect existing pavement not designated for removal, light units and structures from damage. In event of damage, immediately replace or make repairs to approval of Departmental Representative at no additional cost.

**3.2                REMOVAL**

- .1            Remove existing asphalt pavement to lines and grades as indicated.
- .2            Use equipment and methods of removal and hauling which do not damage or disturb underlying pavement.
- .3            Prevent contamination of removed asphalt pavement by topsoil, underlying gravel or other materials.
- .4            Suppress dust generated by removal process.

**END OF SECTION**

**Part 1 General**

**1.1 SECTION INCLUDES**

- .1 Methods and procedures for demolition of structures, parts of structures, foundation walls and includes removal of overhead doors, dock levellers, dock seals and dock bumpers.

**1.2 REFERENCES**

- .1 Canadian Council of Ministers of the Environment (CCME).
  - .1 CCME PN1055-1993, Environmental Code of Practice for Underground Storage Tank Systems Containing Petroleum Products and Allied Petroleum Products.
  - .2 CCME PN1148-1994, Environmental Code of Practice for Aboveground Storage Tank Systems Containing Petroleum Products.
- .2 Canadian Standards Association (CSA International).
  - .1 CSA S350-M1980(R1998), Code of Practice for Safety in Demolition of Structures.
- .3 Department of Justice Canada (Jus).
  - .1 Canadian Environmental Assessment Act (CEAA), 1992, c. 37.
  - .2 Canadian Environmental Protection Act (CEPA), 1999, c. 33.
    - .1 SOR/2003-2, On-Road Vehicle and Engine Emission Regulations.
  - .3 Transportation of Dangerous Goods Act (TDGA), 1992, c. 34.
- .4 Underwriters' Laboratories of Canada (ULC).
  - .1 ULC/ORD-C107.19-1992, Secondary Containment of Underground Piping.
  - .2 ULC/ORD-C58.15-1992, Overfill Protection Devices for Underground Tanks.
  - .3 ULC/ORD-C58.19-1992, Spill Containment Devices for Underground Tanks.
- .5 U.S. Environmental Protection Agency (EPA)/Code of Federal Regulations (CFR), Title 40 - Protection of Environment, Chapter 1, Subchapter C - AIR, Part 86 - CONTROL OF EMISSIONS FROM NEW AND IN-USE HIGHWAY VEHICLES AND ENGINES.
  - .1 EPA CFR 86.098-10, Emission standards for 1998 and later model year Otto-cycle heavy-duty engines and vehicles.
  - .2 EPA CFR 86.098-11, Emission standards for 1998 and later model year diesel heavy-duty engines and vehicles.

**1.3 DEFINITIONS**

- .1 Hazardous Materials: dangerous substances, dangerous goods, hazardous commodities and hazardous products, may include but not limited to: poisons, corrosive agents, flammable substances, ammunition, explosives, radioactive substances, or other material that can endanger human health or well being or environment if handled improperly.
- .2 Waste Management Co-ordinator (WMC): contractor representative responsible for supervising waste management activities as well as co-ordinating related, required submittal and reporting requirements.

- .3 Waste Audit (WA): detailed inventory of materials in building. Involves quantifying by volume/weight amounts of materials and wastes generated during construction, demolition, deconstruction, or renovation project. Indicates quantities of reuse, recycling and landfill.
- .4 Waste Reduction Workplan (WRW): written report which addresses opportunities for reduction, reuse, or recycling of materials. WRW is based on information acquired from WA.

#### **1.4 SUBMITTALS**

- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 The WMC is responsible for fulfilment of reporting requirements.
- .3 Prior to beginning of Work on site submit detailed Waste Reduction Workplan in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal and indicate:
  - .1 Descriptions of and anticipated quantities in percentages of materials to be salvaged reused, recycled and landfilled.
  - .2 Schedule of selective demolition.
  - .3 Number and location of dumpsters.
  - .4 Anticipated frequency of tippage.
  - .5 Name and address of haulers, waste facilities and waste receiving organizations.
- .4 Submit copies of certified weigh bills, bills of lading, receipts from authorized disposal sites and reuse and recycling facilities for material removed from site on a weekly basis upon request of Departmental Representative.
  - .1 Written authorization from Departmental Representative is required to deviate from haulers, facilities, receiving organizations listed in Waste Reduction Workplan.
- .5 Where required by authorities having jurisdiction, submit for approval drawings, diagrams or details showing sequence of demolition work and supporting structures and underpinning.
- .6 Submit drawings stamped and signed by qualified professional engineer registered or licensed in Province of Manitoba, Canada.

#### **1.5 QUALITY ASSURANCE**

- .1 Regulatory Requirements: Ensure Work is performed in compliance with CEPA,CEAA, TDGA, and applicable Provincial/Territorial and Municipal regulations.
- .2 Meetings:
  - .1 Prior to start of Work arrange for site visit with Departmental Representative to examine existing site conditions adjacent to demolition work.
  - .2 Hold project meetings every week.
  - .3 Ensure key personnel, site supervisor, project manager, WMC and subcontractor representatives attend.

- .4 WMC must provide written report on status of waste diversion activity at each meeting.
- .5 Departmental Representative will provide written notification of change to meeting schedule established upon contract award 24 hours prior to scheduled meeting.

**1.6 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
- .2 Divert excess materials from landfill to site approved by Departmental Representative.

**1.7 ENVIRONMENTAL PROTECTION**

- .1 Ensure Work is done in accordance with Section 01 35 43 - Environmental Procedures.
- .2 Ensure that demolition work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.
- .3 Fires and burning of waste or materials is not permitted on site.
- .4 Do not bury rubbish waste materials.
- .5 Do not dispose of waste or volatile materials including but not limited to: mineral spirits, oil, petroleum based lubricants, or toxic cleaning solutions into watercourses, storm or sanitary sewers.
  - .1 Ensure proper disposal procedures are maintained throughout project.
- .6 Do not pump water containing suspended materials into watercourses, storm or sanitary sewers, or onto adjacent properties.
- .7 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with authorities having jurisdiction.
- .8 Protect trees, plants and foliage on site and adjacent properties where indicated.
- .9 Prevent extraneous materials from contaminating air beyond application area, by providing temporary enclosures during demolition work.
- .10 Cover or wet down dry materials and waste to prevent blowing dust and debris. Control dust on all temporary roads.

**1.8 EXISTING CONDITIONS**

- .1 Should material resembling spray or trowel applied asbestos or other designated substance listed as hazardous be encountered in course of demolition, stop work, take preventative measures, and notify Departmental Representative immediately. Do not proceed until written instructions have been received.
- .2 List items to be salvaged for re-use:
  - .1 Loading dock arm mounted lights.

- .2 Loading dock signal lights.
- .3 Remove, protect and store salvaged items as directed by Departmental Representative. Salvage items as identified by Departmental Representative.
- .4 Structures to be demolished to be based on their condition on date that tender is accepted.
- .5 Existing warehouse components to be removed for waste disposal and/or recycling including:
  - .1 Loading dock doors, door tracks and related components;
  - .2 Loading dock levellers and related components;
  - .3 Loading dock platform lift and related components;
  - .4 Interior doors, frames and hardware;
  - .5 Exterior light fixtures, metal canopies and signage.
  - .6 PIL Booth #6.

## **1.9 SCHEDULING**

- .1 Employ necessary means to meet project time lines without compromising specified minimum rates of material diversion.
  - .1 In event of unforeseen delay notify Departmental Representative in writing.

## **Part 2 Products**

### **2.1 EQUIPMENT**

- .1 Equipment and heavy machinery to:
  - .1 On-road vehicles to meet applicable emission requirements as prescribed in CEPA-SOR/2003-2, On-Road Vehicle and Engine Emission Regulations.
  - .2 Off-road vehicles to meet applicable emission requirements as prescribed in EPA CFR 86.098-10 and EPA CFR 86.098-11.
- .2 Leave machinery running only while in use, except where extreme temperatures prohibit shutting machinery down.

## **Part 3 Execution**

### **3.1 PROTECTION**

- .1 Prevent movement, settlement or damage of adjacent structures, services, walks, paving, trees, landscaping, adjacent grades parts of existing building to remain.
  - .1 Provide bracing, shoring and underpinning as required.
  - .2 Repair damage caused by demolition as directed by Departmental Representative.

- .2 Support affected structures and, if safety of structure being demolished or adjacent structures or services appears to be endangered, take preventative measures, stop Work and immediately notify Departmental Representative.
- .3 Prevent debris from blocking surface drainage system, elevators, mechanical and electrical systems which must remain in operation.

### **3.2 PREPARATION**

- .1 Do Work in accordance with Section 01 35 29.06 - Health and Safety Requirements.
- .2 Disconnect and re-route electrical and telephone service lines entering buildings to be demolished.
  - .1 Post warning signs on electrical lines and equipment which must remain energized to serve other properties during period of demolition.
- .3 Disconnect and cap designated mechanical services.
  - .1 Natural gas supply lines: remove in accordance with gas company requirements.
  - .2 Sewer and water lines: remove to property line in accordance with authority having jurisdiction.
  - .3 Other underground services: remove and dispose of as directed by Departmental Representative in accordance with Section 33 71 73.02 - Underground Electrical Service.
- .4 Underground storage tanks and piping: Remove and dispose in accordance with Section 02 65 00 - Underground Storage Tank Removal as directed and CCME PN1055 ULC/ORD-C107.19, ULC/ORD-C58.15 and ULC/ORD-C58.19.
- .5 Do not disrupt active or energized utilities traversing premises and designated to remain undisturbed.

### **3.3 SAFETY CODE**

- .1 Do demolition work in accordance with Section 01 56 00 - Temporary Barriers and Enclosures.
- .2 Blasting operations not permitted during demolition.
- .3 Do blasting operations in accordance with CSA S350.

### **3.4 REMOVAL OF HAZARDOUS WASTES**

- .1 Remove contaminated or dangerous materials as defined by authorities having jurisdiction, relating to environmental protection, from site and dispose of in safe manner to minimize danger at site or during disposal.
- .2 Prior to start of demolition work remove contaminated or hazardous materials listed as hazardous and as defined by authorities having jurisdiction as directed by Departmental Representative from site and dispose of at designated disposal facilities in safe manner and in accordance with TDGA and other applicable requirements and Section 02 81 01 - Hazardous Materials. Refer Existing Conditions in Part 1.

### **3.5 DEMOLITION**

- .1 Demolish structures.
- .2 To permit construction of addition and as indicated.
- .3 Crush concrete generated due to demolition of foundations to size suitable for recycling as directed.
  - .1 Where possible identify markets which will accept crushed material as aggregate.
  - .2 For further information regarding acceptable uses contact Provincial/Territorial aggregate producers associations and Ministries of Transportation.
- .4 Remove existing equipment, services, and obstacles where required for refinishing or making good of existing surfaces, and replace as work progresses.
- .5 At end of each day's work, leave Work in safe and stable condition.
  - .1 Protect interiors of parts not to be demolished from exterior elements at all times.
- .6 Demolish to minimize dusting. Keep materials wetted to minimize dusting.
- .7 Contain fibrous materials (e.g. Insulation) to minimize release of airborne fibres while being transported within facility.
- .8 Only dispose of material specified by selected alternative disposal option for own use.
  - .1 Additional disposal options to be provided by Departmental Representative on-site waste diversion representative prior to disposal.
- .9 Do not dispose materials in landfill or waste stream destined for landfill.
- .10 Remove and dispose of demolished materials except where noted otherwise and in accordance with authorities having jurisdiction.
- .11 Remove following materials and equipment, store, protect, and reinstall in new building, using qualified tradesmen and leave ready for installation by other sections of Work:
  - .1 Loading dock arm mounted lights.
  - .2 Loading dock signal lights.
- .12 Use natural lighting to do Work where possible.
  - .1 Shut off lighting except those required for security purposes at end of each day.

### **3.6 STOCKPILING**

- .1 Label stockpiles, indicating material type and quantity.
- .2 Designate appropriate security resources/measures to prevent vandalism, damage and theft.
- .3 Locate stockpiled materials convenient for use in new construction. Eliminate double handling wherever possible.

- .4 Stockpile materials designated for alternate disposal in location which facilitates removal from site and examination by potential end markets, and which does not impede disassembly, processing, or hauling procedures.
- .5 Separate from general waste stream each of following materials. Stockpile materials in neat and orderly fashion in location for alternate disposal. Stockpile materials in accordance with applicable fire and safety regulations.
  - .1 Power source poles deemed unfit for reuse.
  - .2 Wiring and conduit.
  - .3 Outlets/switches.
  - .4 Floor receptacles.
  - .5 Metal duct work, baffles, HVAC equipment.
  - .6 Insulation batts.
  - .7 Miscellaneous metals.
- .6 Supply separate, clearly marked disposal bins for categories of waste material.

### **3.7 REMOVAL FROM SITE**

- .1 Remove stockpiled material when it interferes with operations of project construction.
- .2 Remove stockpiles of like materials by alternate disposal option once collection of materials is complete.
- .3 Transport material designated for alternate disposal using approved haulers, facilities receiving organizations listed in Waste Reduction Workplan and in accordance with applicable regulations.
  - .1 Written authorization from Departmental Representative is required to deviate from haulers, facilities, receiving organizations listed in Waste Reduction Workplan.
- .4 Dispose of materials not designated for alternate disposal in accordance with applicable regulations.
  - .1 Disposal facilities must be those approved of and listed in Waste Reduction Workplan.
  - .2 Written authorization from Departmental Representative is required to deviate from disposal facilities listed in Waste Reduction Workplan.

**END OF SECTION**