

PART 1 - GENERAL

1.1 Scope of Work

- .1 Work in this section includes all materials, equipment, and labour to install benches, bench pads, waste receptacles and waste receptacle pads as shown on the Contract drawings.

1.2 Related Sections

- .1 Section 01 33 00 – Submittal Procedures.
- .2 Section 03 30 00.01 Cast in Place Concrete Short Form
- .3 Section 11 66 00 – Athletic and Play Equipment - Reference
- .4 Section 32 12 16.01 – Asphalt Pathways and Courts

1.3 References

Latest references for:

- .1 ASTM A53 Specification for Pipe, Steel, Black and Hot-Dipped, Zinc Coated Welded and Seamless.
- .2 CSA G164-M Hot Dip Galvanizing of Irregularly Shaped Articles.
- .3 CAN/CGSB-1.40-M Primer, Structural Steel, Oil Alkyd Type.
- .4 CAN/CGSB-1.59-M Alkyd, Exterior Gloss Enamel.
- .5 CAN/CGSB-1.140-M Oil-Alkyd Type Red Lead, Iron Oxide Primer.
- .6 Aluminum Association Alloy AA 6063-T5 seamless extruded aluminum tubing.
- .7 OPSS MUNI 1004, Material Specification for Aggregates - Miscellaneous.
- .8 OPSS MUNI 1010, Material Specification for Aggregates - Base, Subbase, Select Subgrade, and Backfill Material.

1.4 Quality Control

- .1 Welding to CSA W59-I989, to be carried out by certified fabricator to CSA W47.1-I983 for steel welding, to CSA W47.2-I987 for aluminum welding.
- .2 Design, detail and fabricate steel in general to CSA S16.1.

1.5 Submittals

- .1 Submit product data in accordance with Section 01 33 00 - Submittal Procedures.

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- .2 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
 - .3 Indicate dimensions, sizes, assembly, anchorage and installation details for each furnishing specified.

1.6 Substitutions

- .1 Alternative products will not be accepted without approval of the Consultant and Owner's Representative. Alternatives, with prices, must be identified within the tender bid. Alternatives to match specified in size, materials, and thickness.

1.7 Utility Lines

- .1 Before commencing work, it is the contractor's responsibility to establish locations and extent of underground utility lines in area of excavation. Notify the Consultant and/or Owner's Representative of findings.
- .2 The location of utility lines will be at the cost of the contractor by means of private underground service locating company as required. Any damage to existing utility lines will be at the cost of the contractor.
- .3 Known underground and surface utility lines are indicated on drawings. No guarantee is given of completeness or accuracy.
- .4 Make good and pay for damage to existing utility lines resulting from work.
- .5 Indicate all located utilities lines and/or services on record drawings.

1.8 Protection.

- .1 Provide adequate protection around bench markers, layout markers, survey markers and geodetic monuments.
- .2 Provide protection to ensure no damage to existing facilities and equipment situated on site.
- .3 Effect approved measures to minimize dust as result of this work.

1.9 Stockpiling

- .1 Stockpile fill materials designated by the Consultant and / or Owner's Representative. Stockpile granular materials in manner to prevent segregation.
- .2 Protect fill materials from contamination.
- .3 Do not stockpile excavated material to interfere with site operation or drainage.

1.10 Waste Management and Disposal

- .1 Separate waste materials for reuse and recycling in accordance with project Waste Management Plan.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard, packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .4 Separate for reuse and recycling and place in designated containers Steel, Metal, Plastic waste in accordance with Waste Management Plan.
- .5 Fold up metal banding, flatten and place in designated area for recycling.

1.11 Tests and Inspections

- .1 Independent Inspection/Testing Agencies approved by the Owner's Representative, will be engaged by the Owner for the purpose of inspecting and/or testing portions of Work.
 - .1 Inspections/Testing to be sufficient for complete coverage of Work.
 - .2 Cost of such services will be borne by the Owner.
- .2 Employment of inspection/testing agencies does not relax the responsibility to perform Work in accordance with the Contract Documents.
- .3 If defects are revealed during inspection and/or testing, the appointed agency will request additional inspection and/or testing to ascertain full degree of defect. Correct defect and irregularities as advised by the Consultant and/or Owner's Representative at no cost to the Owner. Pay costs for retesting and reinspection.
- .4 Notify the appropriate agency and Consultant 48 hours in advance of the requirement for tests, in order that attendance arrangements can be made.

PART 2 - PRODUCTS

2.1 Benches

- .1 Acceptable Product: Maglin, 300 Series Backed Bench as supplied by Maglin Site Furniture. 1 800 716 5506.
 - Armrest: Two End Arms
 - Mounting Type: Surface mount
 - Material: Wood Grain Texture High Density Polyethylene
 - Material colour: Grey

Center Arm: Offset Center Arm
Lettering: No
Plaque: No
Backrest: Backed
Plaque Cutout: No
Skate Deterrent: No
Frame: Powder coated finish, Gloss colour to be determined from standard colour palette

- .2 Stainless steel tamper-proof fastenings
- .3 Quantity: 9
- .4 Submit shop drawings / product data sheets.
- .5 Approved equivalent.

2.2 Recycle / Waste Receptacle

- .1 Acceptable product: Maglin, MRR-1400 Series Recycle Receptacle as supplied by Maglin Site Furniture. 1 800 716 5506.
 - .1 Material: Orange Peel Texture High Density Polyethylene
 - .2 Material Colour: Grey – Recycle option chosen
 - .3 Face Plate Colour: Face plate colour to be chosen
 - .4 Liner Capacity (Gallons): 23
 - .5 Stream: 3
 - .6 Frame: Powder coated finish, Gloss colour to be determined from standard colour palette
- .2 Quantity: 4
- .3 Submit shop drawings / product data sheets.
- .4 Approved equivalent.

2.3 Bench Pads

- .1 Standard Concrete Pad: Acceptable material: slabs, 2100mm x 1070mm x 100mm thick, with #4 rebars @200mm O.C. both ways, complete with 4 steel lifting loops and light broom finish model # as manufactured by Kustom Pre-cast Concrete Ltd., 1935 Dunrobin Road Kanata ON. (613) 839-5251.
 - .1 Quantity: 1
 - .2 Approved equivalent.
- .2 Accessible Concrete Pad: Acceptable material: slabs, 2960mm x 1370mm x 100mm thick, with #4 rebars @200mm O.C. both ways, complete with 4 steel lifting loops and light broom finish model # as manufactured by Kustom Pre-cast Concrete Ltd., 1935 Dunrobin Road Kanata ON. (613) 839-5251.

- .1 Quantity: 1
- .2 Approved equivalent.

2.4 Cast-In-Place Concrete Waste Receptacle Base

- .1 Acceptable material: Poured-in-place concrete, as per detail drawings.
 - .1 Quantity: 4

2.5 Bike Racks

- .1 Bike Rack type A: Galvanized steel tubular bike rack with 7-bike capacity by Equiparc, 1-800-363-9264.
 - .1 Model: EP 5911-7
 - .2 Quantity: 3.
- .2 Bike Rack type B: Galvanized steel tubular bike rack with 3-bike capacity by Equiparc, 1-800-363-9264.
 - .1 Model: EP 5911-3
 - .2 Quantity: 1.
- .3 Colour: Meteor Grey
- .4 Installation: Surface mount installation.
- .5 Install as per manufacturer's specifications and instructions using stainless steel tamper-proof fastenings.
- .6 Provide product data sheets, shop drawings with anchorage details.
- .7 Approved equivalent.

2.6 Basketball Hoop

- .1 Heavy-Duty Outdoor Basketball system, with 4-1/2"galvanized steel pole 48" gooseneck, aluminum backboard & 240SG double playground goal as supplied by Sport Systems Canada, 877-600-4667.
- .2 Model BBIG-01, Institutional In-Ground Basketball with 240SG.
- .3 Quantity: 4
- .4 Provide shop drawings with hoop and footing details.
- .5 Approved equal.

2.7 Tennis Net System

- .1 Premier RD Tennis Posts and complete Net system as supplied by Sport Systems Canada, 1 877-600-4667.
- .2 Quantity: 2 Net systems

- .3 Components of each System
 - .1 Posts: 63050 Premier RD Tennis Posts – GREEN. Premier™ RD, 3" round 11-gauge steel. Features: welded lacing rods, cast aluminum alloy caps & gear housings, baked on polyester powder coat finish in green (black 63051), chrome plated gear plate & handle, internal wind with a self-locking gear mechanism, plated steel gears, case hardened small gear & removable handle.
 - .2 24" Round Steel Groundsleeve, Part # SE-DS-63424
 - .3 T-Plug for 3" OD Ground Sleeve SE-DS-63418
 - .4 Centre Pipe Anchor, Part # SE-DS-63428
 - .5 Deluxe Centre Strap, Part # SE-DS-20600
 - .6 TN-30 Tennis Net, Part # SE-DS-30029, Vinyl coated polyester headband included.
- .4 Provide shop drawings.
- .5 Approved equal.

PART 3 - EXECUTION

3.1 Installation

- .1 Assemble furnishings in accordance with manufacturer's instructions, and approved shop drawings.
- .2 Install furnishing true, plumb, and anchored (using vandal resistant anchors) as indicated on approved shop drawings.
- .3 Use vandal proof nuts as per manufacturer specifications.
- .4 Touch-up damaged finishes to approval of Consultant.

3.2 Cleaning

- .1 Progress Cleaning:
 - .1 Leave Work area clean at end of each day. Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment.

3.3 Protection After Completion

- .1 Protect and maintain site furnishings including accessories, until acceptance of project work.
- .2 Immediately remove from site, damaged furnishings and accessories. Replace repair, refinish or otherwise make good to approval of Consultant.

END OF SECTION