



Contract 2821Q

**Supply and Installation of Chainlink Wire Mesh Fencing at Hugh Boyd Park,
Blundell Park and Manoah Steves Park**

Bidders are requested to respond to this Quotation call as instructed subject to the provisions contained herein.

Name of Bidder: _____

Address: _____

City: _____

Province: _____ Postal Code: _____

Telephone No: _____ Fax No.: _____

E-mail: _____

Contact Person: _____

Title: _____

Table of Contents

Cover Page	1
Table of Contents	2
Instructions to Bidders	3-4
Quotation Form	6
Quotation Annexures comprising of:	
– Undertaking of Liability Insurance	7
– List of Previous Contracts	8
– List of Subcontractors	9
– List of Equipment	10
List of Drawings	11
Specifications	12
Environmental Terms and Conditions of Contract	23
General Conditions of the Contract	GC1-GC8
Notice of No Bid	

Instructions to Bidders

1. Sealed quotations, plainly marked on the envelope:

CONTRACT 2821Q - SUPPLY AND INSTALLATION OF CHAINLINK WIRE MESH FENCING AT HUGH BOYD, BLUNDELL AND MANOAH STEVES PARK

will be received at the Information Counter, Main Floor, Richmond City Hall, addressed to the Purchasing and Risk Management Department, 6911 No. 3 Road, Richmond, BC, V6Y 2C1, until 12:00 noon, Local time:

Wednesday, April 19th, 2006

2. Quotations received in the office of the Purchasing and Risk Management after the above-mentioned time and date will be returned unopened.
3. Quotations must be submitted on the attached Forms and be authorized by a signing officer of the Bidder's company. The entire Request for Quotation must be returned to the City.
4. This Document and completed Forms will become part of the Contract Documents between the City and the successful Bidder.
5. The City reserves the right to accept all or any part of a quotation or to waive irregularities at their own discretion. The lowest or any quotation will not necessarily be accepted.
6. Proprietary names, unless otherwise stated, are used solely to establish standards of materials and finish. Items of other manufacture may be accepted as equal to those specified, at the discretion of the City.
7. The City of Richmond estimates that this contract will be awarded within two (2) weeks of the closing date. All bidders submitting Quotations for the Project will be advised as to the outcome. Please note that Bid results for those contracts posted on the City Web Site and/or BC Bid will be listed on BC Bid within two (2) weeks of the award of Contract.
8. Prices, in Canadian currency, shall be shown for the work specified and shall include all wages and benefits for those personnel engaged on this contract, expenditures for materials, equipment, travel expenses, assessments for Workers' Compensation, Unemployment Insurance, Canada Pension Plan or any similar statute, costs of subcontracts, insurance premiums, bonds, royalties, permits and licences, taxes, tariffs and duties, overhead, profit, and all other expenditures in connection with the work.

Instructions to Bidders (Cont'd)

9. The contractor will be required to Indemnify and Insure the City as shown in the General Conditions of the Contract.

Bidders shall have the Undertaking of Liability Insurance Form Letter L1-1 (attached) completed and submitted with their Quotation.

All policies and certificates shall be submitted to the Purchasing and Insurance Department before a contract is issued to carry out the work.

10. Bidders shall examine the contract documents and visit the site of the work to understand the contract requirements of the project. The City will not make allowances for the contractor's failure to make proper site investigation.
11. Each Bidder shall state on the lists provided to be submitted as part of his quotation, information regarding their previous contracts, subcontractors and equipment that he proposes to use to carry out this contract to completion. It is the intention of the City not to award the contract to any Bidder who does not furnish satisfactory evidence that he has the ability and experience to perform the various works covered under this Contract, and that he has sufficient capital and plant to enable him to execute the said works successfully, and to the satisfaction of the City, and to complete and deliver said works as quoted in his Quotation.
12. Inquires during submission of Quotation should be directed as follows:

Purchasing

Tel: 604-276-4287

David Phipps - Supervisor
Purchasing Department
City of Richmond

E-mail: purchasing@richmond.caTechnical

Tel: 604-233-3313

Marcus Liu – Parks Technologist
Parks Department
City of Richmond Operations Yard

E-mail: mliu@richmond.ca

The City, it's Agents and Employees shall not be responsible for any information given by way of verbal communication.

13. Quotations may be withdrawn by written notice only, provided such notice is received at the office of the City's Purchasing Department prior to time set as closing time for receiving Quotations.
14. Quotations shall be open for acceptance for 60 days following the submission closing date.

Instructions to Bidders (Cont'd)

15. Bidders are advised that submissions of quotes shall be in compliance to the Freedom of Information and Privacy Act.

16. Any interpretation of, additions to, deletions from, or any other corrections to the Contract Documents, will be issued as written addenda by the City of Richmond. It is the sole responsibility of any potential bidders to check the City of Richmond's Website, BCBid and or with the Purchasing Section to ensure that all available information has been received prior to submitting a bid.

Quotation Form

Purchasing and Risk Management Department
City of Richmond
6911 No. 3 Road
Richmond, BC V6Y 2C1

The undersigned Bidder, having carefully read and examined the Instructions to Bidders, Undertaking of Liability Insurance, Quotation Form, Quotation Annexures, General Conditions of Contract, Specifications and Drawings, and having full knowledge of the work required, does hereby offer to provide all necessary materials in strict accordance with the Specifications and to do all therein called for on the terms and conditions and under the provisions therein set forth at the:

LUMP SUM TOTAL QUOTED PRICE OF \$ _____

PAYMENT TERMS: _____

The above price includes and covers duties, Federal, (including G.S.T.), Provincial Taxes, handling and transportation charges, and all other charges incidental to and forming part of this Quotation.

The undersigned Bidder agrees to complete the whole of the works within _____ weeks of acceptance.

Name of Bidder: _____

Address: _____

Telephone No: _____

Name, Signature,
and Title of
Signing Officer: _____

Date: _____

E-mail: _____

Web Address: _____

FORM LETTER LI-1

Undertaking of Liability Insurance

(To be submitted with Quotation)

City of Richmond
6911 No. 3 Road
Richmond, BC V6Y 2C1

Dear Sirs:

We, the undersigned (insert insurance company's name) _____ do hereby undertake and agree to insure the Contractor in the amount of \$2,000,000.00 as outlined in the attached "General Conditions of the Contract" and agree to:

- a. Name the City of Richmond, its officers, officials, agents, and employees as additional insured in connection with the work being proposed by the Contractor.
- b. State that such policy applies to each insured in the same manner and to the same extent as if separate policy had been issued to each insured named in the policy.
- c. State that the policy cannot be cancelled, lapsed, or materially changed without at least 30 days written notice of cancellation delivered to the City Clerk of the City of Richmond at 6911 No. 3 Road, Richmond, BC V6Y 2C1.
- d. State that coverage provided by such insurance shall protect the Contractor and the City of Richmond during the performance of the works and services specified in the attached Form of Quotation and specifically that the insurance required by such Quotation shall be consistent with the requirements therein.

if the Contract is awarded to (insert bidder's name) _____

EXCEPTIONS:

Dated at _____, British Columbia, this ____ day of _____, 2006.

BY: _____ TITLE: _____

This form must be signed by the Insurance Company or an authorized Broker on behalf of the Insurance Company.

A SEPARATE FORM MUST BE SIGNED FOR EACH POLICY IF MORE THAN ONE POLICY.

List of Previous Contracts

The Bidder has recently undertaken and completed the Contracts described following and authorizes the City of Richmond to inquire as to the nature of the Bidders performance on these contracts.

	DESCRIPTION OF CONTRACT	TOTAL PRICE OF CONTRACT	DATE COMMENCED	DATE COMPLETED
--	--------------------------------	--------------------------------	-----------------------	-----------------------

Owner:

Located at:

Contract for:

Owner:

Located at:

Contract for:

Owner:

Located at:

Contract for:

Owner:

Located at:

Contract for:

(If additional space is required, attach additional)

List of Subcontractors

The Bidder agrees that the subcontractors shown herein is the list of subcontractors that he proposes to use to carry out those part of the work shown on the list and, subject to their approval by the City, the Bidder agrees to so employ the listed subcontractors and no others in their stead.

Nothing contained in the contract documents shall create any contractual relation between any subcontractor and the City.

The Bidder agrees that if he is awarded the contract, he will bind every subcontractor by the terms of the contract documents, as far as applicable to his work.

Description of Parts of Work to be Sublet to Subcontractors	Name, Address, and Telephone Number of Subcontractor(s) to be Used to Carry Out the Various Parts of the Work Described
--	--

(If additional space is require, attach additional)

List of Equipment

The Bidder proposes to use the equipment listed below in carrying out the work covered by this Contract (list only the major pieces of equipment to be used):

Number of Units	Brief Description of Equipment (state its use, make, age, and general condition)	Check Whether:	
		Owned by Bidder	Rented/Leased

(If additional space is require, attach additional)

List of Drawings

Drawing No.	Sheet No.	Title
Pb 158	2	Senior Backstop Details
Pb 42	2	Standard Dugout Details
Pc 651	5	Hugh Boyd Synthetic Turf Sportsfields

Note: If you are downloading this from BCBid and/or the City's Website, full sized copies of the drawings can be obtained by calling Marcus Liu – Parks Department – 604-233-3313.

(If additional space is require, attach additional)

Specifications

Location of Work

- Hugh Boyd Park is located at Francis Road & No. 1 Road (9180 No. 1 Road)
- Blundell Park located at 6480 Blundell Road
- Manoah Steves Park is located at 10111 Fourth Avenue. (Steveston area)

Scope of Work

- The supply and installation of a perimeter fence enclosure for the development of an artificial turf sports field complex at Hugh Boyd Park
- The supply and installation of a senior softball backstop at Blundell Park
- The supply and installation of a senior softball backstop at Manoah Steves Park

All work is to be done in accordance with the City of Richmond's specifications for Chainlink Wire Mesh Fencing and Drawing No. Pc 651 (sheet 5), Pb 158 and Pb 42 (sheet 2).

Section 1 - Scope of Work General Requirements

1.1 General Conditions and Requirements

This section of the Specifications shall be read in conjunction with all drawings and forms part of the contract documents and is to be read, interpreted and coordinated with all other parts of the tender documents in conjunction with the General Conditions of the contract.

1.2 Contractor to Provide Everything

All work done under this contract shall include the supply of all labour, materials, tools, equipment, and all incidentals required to execute and complete all work as specified herein.

1.3 Execution of Contract

The whole of the work and the manner of performing this contract shall be under the direction and to the entire satisfaction of and be subject to the approval of the Parks Department of the City of Richmond, and in accordance with approved and accepted standard practices for the erection of chainlink fencing.

Installations and all work as required under this division of the Specifications shall be in full accordance with the complete intent of the drawings and Specifications, complete in every way when finally accepted and delivered to the owner.

Any deviation from the Specifications (without the approval of the Parks Dept or a designated authority will constitute a "Void" contract.

1.4 Materials and Workmanship

Labour used in the installation of the work shall be skilled in the appropriate classes of work in accordance with the generally established, approved and accepted standard practices currently recognized by the respective trades in the construction industry. The Physical Design Section will reserve the right to request the Contractor to remove any labour he may consider to be unsuitable.

1.5 Supervision

The Contractor shall employ and maintain on site at all times during the installation, as required by the Parks Dept., fully experienced, qualified and competent supervisors in each class of work included in the installation.

1.6 Inspection

Periodic inspections of the work shall be carried out by a fully experienced, qualified and competent employee of the Contractor throughout the entire construction period.

1.7 Standards

These Specifications shall be read in conjunction with and shall conform to those standard weights with the corresponding wall thickness for steel pipe of various nominal outside diameter, together with permissible weight and dimension tolerances as prescribed in the Standard Specification for Welded and Seamless Steel Pipe, ASTM Designation; A 120 - Schedule 40 and latest revision thereof.

1.8 Review

Prior to submission of quotation or tender, the Contractor submitting quotations or tenders on the work shall review all drawings and/or sketches carefully in conjunction with the planning of the work.

1.9 Clarification - Drawings and Documents

All measurements are to be as shown on drawings and exact measurements should be checked on site. However, if any bidder finds any discrepancies or variances,

inconsistencies, errors, or omissions which occur between the drawings and specifications, or any other contract documents, or within either documents itself, or requires clarification or any provisions contained therein, he shall submit his query to the Parks Dept. The Parks Dept. or a delegated authority will decide on the item and manner in which the work shall be installed.

1.10 Local Conditions

Prior to submission of quotation or tender, the contractor submitting quotations or tenders on the work will visit and be deemed to have visited the site(s) to ensure he is familiar with all conditions relating to the work, and must indicate if there are any special requirements necessary in order to ensure the execution of a complete and satisfactory installation acceptable to the Owner. No extra claim will be considered for loss, damage or unforeseen work due to the Contractor's failure to visit the site(s).

1.11 Materials Approved

All materials for permanent installations shall be new and as specified on drawings or approved equal. All alternative materials to those specified must meet with pre-approval from the Parks Dept..

1.12 Arrangement of Work

It shall be the responsibility of the contractor to coordinate scheduling of the work with all other trades to allow the most satisfactory installation and in conjunction with the City of Richmond's project manager and construction foreman.

1.13 Construction Period

The Contractor shall deliver all materials and carry out all work required by this contract starting with the post installations during the first week of July, 2006 and be completed no later than **September 29th, 2006**, for the opening School and Programmed Fall Season.

1.14 Other Related Work

Any other labour used in conjunction with the construction of chainlink fencing, such as concrete and carpentry work, etc., for backstop dugouts, shall be skilled in the appropriate classes of work, and is to be performed only by certified trades personnel in accordance with the generally established, approved and accepted standard of practices currently recognized by the respective trades in the construction industry.

Any such work considered not satisfactory by the City of Richmond may be rejected.

The Parks Dept. or a designated authority will reserve the right to request the contractor to remove and replace any labour and/or materials he may consider to be unsuitable.

Details

Hugh Boyd Artificial Turf Complex

Approximately 575 linear metres of 1.22 metres (4'-0) high all welded, galvanized fence sections complete with top & bottom rails and 6 gauge black vinyl coated mesh.

Approximately 140 linear metres of 4.88 metres (16'-0) high all welded, galvanized fence sections complete with rails @ every 1.22m (4'-0) high increments and 6 gauge black vinyl coated mesh.

Terminal & Line Post spacings will be determined based on the Artificial Turf 's sub-base drainage and services layout and may require frequent On-Site adjustments to prevent interference of sub-base services and utilities.

(1.22m high sections to include vinyl coated steel ties @ every diamond mesh at top and bottom rails)

Include optional pricing of powder coating (black colour) on all fencing framework as done by Modern Powder Coat or equal.

Manoah Steves & Blundell Park Senior Backstop

Two Senior Baseball Backstops with 27m (88'6") wings complete with covered dugouts and concrete flooring as per drawing Pb 158 & Pb 42 (sheet 2)

Section 2 - TECHNICAL SPECIFICATIONS

2.1 MATERIALS

2.1.1 Fabric Type (Galvanized Coated Mesh)

Unless otherwise specified on drawings and/or Section 5 for sports facilities:

To be chainlink 2 in. (50 mm) mesh x No. 6 gauge and 9 gauge (combination on the backstops only) (3.55 mm diameter) of continued width supplied without splices in rolls to the desired full height as specified on the drawings and shall be continuous from bottom to top rail. Chainlink fabric to be knuckled at top and bottom. The fabric shall be manufactured from the highest quality open hearth steel, hot dipped galvanized after weaving or woven from electrolytic galvanized wire with tensile strength of 100,000 psi (689.48 MPa) and have a minimum galvanized coating of 1.6 oz/ft² (48.79 mg/cm²) as per standard specification for Class II of zinc-coated

steel chainlink fence fabric ASTM (American Society for Testing and Materials) Specification designation: A392-68 and latest revision thereof.

2.1.2 Fabric Type (Vinyl Coated Mesh)

Unless otherwise specified on Drawings :

To be black continuously extruded vinyl coated chainlink 2 in. (50 mm) mesh x No. 6 gauge. Steel core to be No. 9 gauge. Supplied without splices in rolls to the desired full height of up to 12'-0 high as specified on the drawings and shall be continuous from bottom to top rails. Chainlink fabric to be knuckled at top and bottom. Tensile strength of galvanized wire to be 100,000 psi (689.48 MPa) and have a minimum galvanized coating of 0.3 oz/sq. ft (9.14 mg/cm²) and be of same physical properties, characteristics and manufacturing process as prescribed under Section 2, Paragraph 1.1 of these specifications ("Fabric Type for Galvanized Mesh") and standard specification for zinc-coated steel chainlink fence fabrics ASTM (American Society for Testing and Materials) Specification designation: A392-68 and latest revision thereof.

Chainlink fabric shall be woven from plastic coated wire with vinyl coating continuously extruded (not sprayed or dipped) over the wire, to insure dense and impervious covering, free of voids having a smooth lustrous surface appearance.

2.2 POSTS, SPACINGS AND FOOTINGS

- 2.2.1 All posts to be standard continuous butt weld hot dipped galvanized schedule 40 steel pipe of sufficient strength to carry "live and dead" loads without visual deflection, complete with all necessary fittings and riveted caps. Posts shall be embedded into concrete footings of the proper diameter and shaped to ensure adequate support at specified depths, heights and spacings as shown on drawings and/or Section 4 and 5 of these specifications.

No tubing, conduit or open seam material will be permitted.

- 2.2.2 Footings to be of five sack mix minimum (2500 psi) 17.24 MPa) compressive strength at 28 days.

2.2.3 Line Posts (Wall Thickness 3.90 mm)

Standard continuous butt weld hot dipped galvanized schedule 40 steel pipe, minimum 2-3/8 in. OD (60 mm) shall be set into concrete footings at specified depths and spaced in line of fence 10 ft. (3 m) on centre unless otherwise noted. For the Artificial Turf Complex, terminal & line post spacings will be determined based on the Artificial Turf 's sub-base drainage and services layout and may

require frequent On-Site adjustments to prevent interference of sub-base services and utilities.

No tubing, conduit or open seam material will be permitted.

2.2.4 Terminal Posts: End, Corner, Straining and Gate Posts (Wall Thickness 5.15 mm)

Standard continuous butt weld hot dipped galvanized schedule 40 steel pipe, minimum 3-1/2 in. OD (90 mm), unless otherwise noted, shall be set into concrete footings at specified depths. Posts in excess of 6' (1.80 m) in height above finished ground level to be braced with identical pipe as top rail.

No tubing, conduit or open seam materials will be permitted.

2.3 TOP, CENTRE AND BOTTOM RAILS (Wall Thickness 3.55 mm)

2.3.1 Centre rails to be installed at 5' (1.50 m) and not more than 6' (1.80 m) on centres as required and to be minimum 1-5/8 in. OD (40 mm) standard continuous butt weld hot dipped galvanized schedule 40 steel pipe. Top rail only connected at joints with galvanized steel tube or slip-on pipe sleeve couplings if welded construction is not specified. Fence top rails to run in a straight line in each section of fence between corner posts with expansion strings every 100 linear feet (30.50 m) of continuous length.

Pipes to be sufficient strength to carry "live and dead" loads without visual deflection. No tubing, conduit or open seam material will be permitted.

2.3.2 All rails to have a minimum zinc coating of 1.6 oz./ft² (48.79 mg/cm²) of surface area.

2.4 BRACES - SAME SPECIFICATIONS AS TOP RAIL

2.4.1 All fencing exceeding 6' (1.80 m) in height shall be braced back from each terminal post, corner post, end post and gate post to next line post halfway up; or be horizontally braced spacing midway between top rail and bottom of fence and to extend from terminal post to first adjacent line post.

End and gate posts are to have one brace. Corner and straining posts are to have two braces.

2.5 TENSION WIRE

2.5.1 No. 6 gauge (5.0 mm diameter) bottom tension wire stretched taut, at bottom of fabric, installed within 2 in. (50 mm) above finished ground elevation and affixed to

chainlink fabric by hog rings 18 in. (46 cm) on centres, one up and one down alternately on diamonds fully closed. (Installed where specified in lieu of bottom rail.)

2.5.2 All tension wire to have a minimum zinc coating of 1.6 oz/ft² (48.79 mg/cm²) of surface area.

2.6 TENSION BARS

2.6.1 3/16 in. x 3/4 in. (5 mm x 19 mm) tension bars zinc coated as per standard specification for zinc-coated steel chainlink fence fabric ASTM designation: A 392-68 Class II (zinc coated 2.0 oz/ft² or 61 mg/cm²) of surface area.

2.7 TIE WIRE

2.7.1 No. 9 gauge vinyl coated steel wire to each post also ties to be made through the first diamond from bottom of each post. Every 12 in. (30 cm) for line posts and every mesh diamond for bottom and top/middle rails for the Artificial Turf Complex & every 12 in. spacings for the backstops.

2.8 TENSION BANDS AND BRACE BANDS

2.8.1 To be fabricated from 3/16 in. x 3/4 in. (5 mm x 19 mm) oval galvanized steel and shall be spaced not more than 15 in. (38 cm) apart on terminal posts.

2.9 GATES AND GATE POSTS

2.9.1 Gates to be of overall standard widths and heights unless otherwise noted on drawings. All gates to have 1-5/8 in. OD (40 mm) hot dipped galvanized steel pipe frame of electrically welded construction at all joints and shall match fence construction. Gates are to be supplied complete with galvanized malleable iron hinges, latch and latch catch and all necessary hardware.

2.9.2 Double Gates are to have centre rest with iron foot for closed position and chain hold-open when open. Gate latches are to be suitable for a padlock which can be attached and operated from either side of gate. Hinges are to permit gate to swing back against fence 180 degrees if required. Gate braces where required, shall be 1-5/8 in. OD (40 mm) hot dipped galvanized steel pipe.

2.9.3 Posts to be standard butt weld hot dipped galvanized schedule 40 steel pipe, minimum 3-1/2 in. OD (90 mm) and shall be embedded 3.5 ft. (1.05 m) into concrete.

2.9.4 Single Gates to 10 ft. (3 m) or double gates to 20 ft. (6 m) in width to have 3-1/2 in. OD (90 mm) posts which shall be embedded 3 ft. 6 in. (1.05 m) into concrete.

2.9.5 Single Gates from 10 ft. to 14 ft. (3 m to 4.3 m) or double gates from 20 ft. to 28 ft. (6 m to 8.5 m) in width to have 4-1/2 in. OD (115 mm) posts which shall be embedded 4 ft. (1.2 m) into concrete.

2.9.6 Single Gates from 14 ft. to 25 ft. (4.3 m to 7.60 m) or double gates from 28 ft. to 40 ft. (8.5 m to 12.2 m) in width to have 6-5/8 in. OD (168 mm) posts which shall be embedded 4 ft. 0 in. (1.2 m) into concrete.

2.9.7 Pipes to be of sufficient strength to support gate and withstand fabric tensioning. Posts to be braced with identical pipe as top rail.

2.10 FITTINGS

2.10.1 All fittings to be designed and manufactured of materials having sufficient strength to perform the necessary functions. All fittings shall be manufactured from first grade galvanized malleable iron and pressed steel or aluminum (corrosion resistant castings of latest design). Steel fittings shall have a 2.0 oz./ft² (61 mg/cm²) zinc coating of surface area.

Section 3 - STANDARD REQUIREMENTS AND PROVISIONS

3.1 Location of all facilities to be staked out prior to commencing work for confirmation and any discrepancy shall be notify

3.2 All measurements shown on attached plans are approximate only. Exact measurements should be checked on the site.

3.3 A qualified fence erection steel worker must be present in the field and in charge of all erections on projects.

3.4 ALL JOINTS OF FENCING FRAME WORK INCLUDING BACKSTOPS, DISCUS AND HAMMER CAGES, GATES, ETC., SHALL BE OF WELDED CONSTRUCTION, UNLESS OTHERWISE NOTED ON DRAWINGS OR SPECIFIED.

3.5 All field welds and exposed steel to be painted with "Galvicon" or approved equal.

3.6 All fabrics to be installed on playing field side of facilities unless otherwise noted.

3.7 All fabric on backstop dugouts to be mounted on outside of posts.

- 3.8 All fabric on walkway, school and park site fencing to be mounted on outside of posts unless otherwise noted.
- 3.9 All chainlink wire mesh fabric to be knuckled at top and bottom.
- 3.10 Centre rails to be installed as required and shown on drawings for the respective facility. (See Section 2, Paragraph 3.1 and 3.2)
- 3.11 Twelve foot (3.65 m) high fencing, including tennis court enclosures, requires top, centre and bottom rail, unless tension wire at bottom of fabric is specified.
- 3.12 Framework of backstops to be constructed with bottom rail unless otherwise specified.
- 3.13 Baseboards shall be installed on the inside of backstop.
- 3.14 ALL CHAINLINK WIRE MESH FENCE FABRIC, including backstop wings, SHALL BE OF CONTINUED WIDTH supplied without splices in rolls to the desired full height as specified on the drawings and shall be continuous from bottom to top rail up to and including 12'-0 high. (3.66 m).
- NOTE: Splices of chainlink fabric may be permitted only where specified on drawings, in cases where mesh type and/or wire gauge changes are required, with fabric overlapping not less than 8 in. (200 mm). Any fabric splices which cannot be avoided shall be made at top rail only.
- 3.15 Bottom tension wire (where applicable) to be tied with hog rings 12 in. (30 cm) on centre, one up and one down, alternately on diamonds - fully closed. Tension wires to be tied with No. 9 gauge (3.55 mm diameter) aluminum wire to each post, also ties to be made through the first diamond from bottom of each post. The tension wire to be installed within 2 in. (50 mm) of finished ground elevation.
- 3.16 All wire clips to be secured so that pointed or jagged ends do not protrude from fencing.
- 3.17 Provide 3/8 in. (10 mm) diameter tie rods where shown.
- 3.18 Clamps, bolts, tension bars, bands and couplings are to be steel, turnbuckles are to be malleable iron, all hot dipped galvanized.
- 3.19 Receptacles and post tops are to be aluminum weatherproof tops. Tops are to be provided for all posts and riveted to posts.
- 3.20 Top rail sleeves where applicable, are to be fabricated from not less than No. 12 gauge galvanized steel tubing, 7 in. (180 mm) in length. All sleeves must be provided with a centre stop to prevent top rail from passing through further than centre of sleeve.

- 3.21 Brace bands and tension bands to be fabricated from 3/16 in. x 3/4 in. (5 mm x 19 mm) oval galvanized steel.
- 3.22 All posts and top rails to be plain end.
- 3.23 Fence top rails to run in a straight line in each line of fence between corner posts.
- 3.24 Fences not to exceed 400 lineal feet (122 metres) continuous run, without installation of straining post.
- 3.25 Construction sleeves may be placed in concrete footings where required to facilitate placement of posts.
- 3.26 Concrete to be raised by 1 in. (25 mm) minimum and 2 in. (50 mm) maximum above grade level in dome shape to provide a watershed on each post, unless otherwise noted on drawings.
- 3.27 Care must be taken not to damage surrounding grounds with equipment. If grounds become too soft on account of rain, heavy trucks will not be allowed on developed sites.
- 3.28 CLEAN UP/REINSTATEMENT
- 3.2.8.1 During progress of work and conclusion, the Contractor shall remove all materials, tools and equipment used in the work, clean up all surplus materials, cuttings, packing, crating, debris, refuse, including excavation material and remove from site and return all grounds to their original condition.
- 3.2.8.2 Removal and disposal of existing concrete footings from backstops or any other fencing structures which are to be deleted or relocated shall be the entire responsibility of the contractor, including filling or post cavities with suitable backfill material, compaction, grading, seeding and reinstatement of surrounding grounds to their original condition.
- 3.29 All fencing materials shall be subject to the approval of the Physical Design Section/Urban Development Division of the City of Richmond, and inspection of same shall be granted upon request prior to delivery and installation.
- 3.30 Metric equivalents are rounded off to the nearest millimetre.
- 3.31 Drawings to be read in conjunction with Specifications.

Section 4 - SENIOR BACKSTOPS

4.1 Fabric type as prescribed in Section 2 under Paragraph 1.1 for "GALVANIZED COATED MESH", of these Specifications, except for mesh size which shall be 2 in. (50 mm) mesh x No. 6 gauge galvanized.

4.2 Height

12 ft. to 18 ft. high (3.65 m to 5.50 m) overall unless otherwise noted on drawings.

4.3 Line Posts

Minimum 2-3/8 in. OD (60 mm) shall be set into concrete footings 3.5 ft. (1.05 m) spaced in line of fence 10 ft. (3 m) on centre.

4.4 Terminal Posts: End and Corner Posts

Minimum 2-7/8 in. OD (73 mm) shall be set into concrete footings 4 ft. (1.20 m).

4.5 Top, Centre and Bottom Rails

Minimum 1-5/8 in. OD (40 mm) hot dipped galvanized steel pipe as prescribed in Section 2 under Paragraphs 3.1 and 3.2 of these Specifications.

4.6 Baseboards of all backstops are to be pressure treated and installed on the inside of backstop. Baseboards shall be constructed continuous, throughout the entire length, including all wing sections.

4.7 Chainlink wire mesh of all backstops installed with hood structures shall be joined at the top rail of backstop frame and secured with continuous tie wire

Environmental Terms and Conditions of Contract

1.0 Environmental Policy Requirements

1.1 The City of Richmond's Environmental Purchasing Policy

The City of Richmond's Environmental Purchasing Policy states:

In order to increase the development and awareness of environmentally sound products and services, City of Richmond staff will review their contracts and tender specifications for goods and services, to ensure that wherever possible and economically feasible, specifications are amended to provide for consideration of environmental characteristics. Consideration may be given to those environmental products that are certified by an independent accredited organization.

The City of Richmond as a whole will endeavour to increase its use of products and services that are more responsible to the environment in the way they are made, used, transported, stored and packaged and disposed of. It is recognized that analysis is required in order to ensure that the products are made available at competitive prices, and that the environmental benefits provided by a product or service should not significantly affect the intended use of that product or service.

- 1.1.1 The City of Richmond reserves the right to request information from bidders that will demonstrate compliance to this environmental purchasing policy.
- 1.1.2 Bidders are asked to supply information on environmentally preferable products and services that meet all specifications and performance requirements.
- 1.1.3 Placing the City of Richmond in breach of its environmental policy or environmental laws will result in the termination or suspension of an agreement, at the sole discretion of the City.

General Conditions Of The Contract

1. Definitions

The two parties to this contract are the Contractor and the City, defined as follows:

The Contractor: The successful bidder for the work upon receipt of a purchase order and written acceptance of his Quotation from the City.

The City: City of Richmond.

Contract Documents: Means and includes the Instructions to Bidders, General Conditions of the Contract, Specifications, Drawings, Quotation Form, and the awarding Purchase Order to the successful bidder.

2. Work to Satisfaction of City

The whole of the works and the manner of performing this Contract shall be done to the entire satisfaction and approval of the City, and it shall be the sole judge of the work and materials in respect of both quality and quantity, and its decision with regard to work or materials, or as to the meaning and intention of this Contract, or any part or parts thereof, shall be binding and final upon the Contractor.

3. Work to be in Conformity with Contract Documents and Drawings

All work shall be done in strict conformity with the Contract Documents and drawings which form a part of the Contract. The intent of the contract documents is to include all labour, materials, equipment, services, supplies and all the things necessary for the proper and complete execution of the work.

4. Permits

The Contractor shall comply with all codes, laws, regulations, and ordinances which concern the work, and unless otherwise provided herein shall obtain and pay for all applicable permits, licences, and certificates.

5. Use of Premises

The Contractor shall confine the use of the premises for his work as directed by the City and shall comply with regulations which govern the building or institution where the work is located.

At the conclusion of the work, the Contractor shall clean up and remove all debris and rubbish to the satisfaction of the City.

General Conditions of the Contract (Cont'd)

6. Light, Power, and Heat

The City's supply of electrical energy will be available to the Contractor without charge.

The City's supply of water will be available to the Contractor without charge.

The Contractor, upon completion of the work, shall remove temporary connections and extension of services, leaving the existing structures and services undamaged.

7. Warranty

Unless otherwise specified, the Contractor warrants that only the best workmanship and materials will be employed and if, within a period of one (1) year from the date of acceptance of the work by the City, such work or supplies or any portion thereof are found by the City to be defective or faulty due to imperfect or bad workmanship or material, the Contractor agrees to replace such defective supplies and correct such defective work forthwith without expense to the City.

8. Liens

The Contractor shall fully indemnify the City from and against any and all liability or expenses by way of legal costs or otherwise in respect of any claim which may be made for a lien or charge at law or inequity or to any claim or liability under the Builders Lien Act, or to any attachment for debt, garnishee process, or otherwise.

9. Patent Fees

The Contractor shall pay all royalties and licence fees and shall save the City harmless from loss on account of suits or claims of infringement of patents in the doing of the work.

10. Default

- (a) The City may, by notice of default to the Contractor, terminate the whole or any part of this Contract if the Contractor fails to perform any provision of this Contract within the time specified or to perform any other provision of this contract.
- (b) In the event the City terminates this Contract in whole or in part as provided in clause (a), the City may procure supplies or services similar to those so terminated, and the Contractor shall be liable to the City for any excess costs for such similar supplies or services.

General Conditions of the Contract (Cont'd)

- (c) The Contractor shall not be liable for any excess costs under clause (b) if failure to perform the Contract arises by reason of strikes, lockouts, acts of God, or acts of the City.

11. Taxes

Unless otherwise provided herein, the Contractor shall pay all government sales or excise taxes in force at the date of the Agreement, provided that any increase or decrease in such taxes shall increase or decrease the amount due under the Contract accordingly. Invoices shall show the appropriate amounts for Goods and Services Taxes and Provincial Sales Taxes separately.

12. Laws

The laws of British Columbia shall govern the work.

13. Time

Time shall be the essence in this Contract.

14. Assignment

Neither party to the Contract shall assign the Contract without the written consent of the other.

15. Notices

Any notice required to be given in this Contract shall be deemed to be duly given to the City if sent by registered mail addressed to the City's Purchasing and Risk Management Department at Richmond "City Hall, 6911 No. 3 Road, Richmond, BC V6Y 2C1" and to the Contractor if sent by registered mail addressed to the Contractor at the address set forth in the Quotation.

16. Inquiries

Contractor's inquiries to the City during construction should be directed to the following:

Marcus Liu
Parks Technologist
City of Richmond, Operations Yard
5599 Lynas Lane,
Richmond, BC V7C 5B2

Telephone: 604-233-3313
E-mail: mliu@richmond.ca

General Conditions of the Contract (Cont'd)**17. Settlement of Complaints Re: Work**

If, in the opinion of the Purchasing and Insurance Department, the work is improperly, defectively, or insufficiently performed, or being performed, the Purchasing and Insurance Department may, in writing, order the Contractor to re-execute or correct the work in accordance with such order; and if the Contractor fails to comply with such order within ten working days, the Purchasing and Insurance Department may, at any time thereafter, execute or cause to be executed the order so given, and the Contractor shall, on demand, pay to the City of Richmond, all costs, damages, and expenses incurred in respect thereof or occasioned by reason of the non-compliance by the Contractor with any such orders; and if the Contractor fails to pay such costs, damages, and expenses, the City of Richmond may retain and deduct such costs, damages, and expenses from any amount then or thereafter payable to the Contractor under this Contract.

18. Other Contractors

The City may have his own work forces and other contractors on the site while the work of this Contract is under way. The City shall coordinate the work of all Contractors on the site and require their coordination with each other.

The Contractor shall report to the City any apparent deficiencies in other contractors' work which would affect the work of this Contract immediately the deficiencies come to his attention.

19. Changes in the Work

The City may make changes to the work; the Contract price, and time being adjusted accordingly. Except for emergencies, all changes will be made by written order.

20. Protection

The Contractor shall maintain protection of all his work and materials from damage and shall protect the City's and any adjoining property from injury due to the Contractor's work.

21. Payments

The City shall make progress payments once a month for work completed and materials on the site upon receipt of the Contractor's invoice.

Except for the final payment, the City shall holdback 10% of the amount of progress claims. The City shall pay the holdback 55 days after completion of the work upon receipt of the contractor's written claim for final payment accompanied by a Statutory Declaration stating that the Contractor has discharged every obligation and paid or

General Conditions of the Contract (Cont'd)

satisfied every just claim incurred by him in connection to the Contract, including claims by his subcontractors, and upon receipt of clearance from the Workers' Compensation Board.

22. Indemnification and Insurance

The Contractor will indemnify, hold, and save harmless the City from and against all claims, losses, damages, costs, actions, and other proceedings, made, sustained, brought or prosecuted in manner, based upon, occasioned by, attributable to any injury, including death, property damage, infringement, or damage arising from any act or omission of the Contractor, his employees, officers, volunteers, servants, or agents or persons from whom the Contractor has assumed responsibility in the performance or purported performance of this agreement.

The Contractor shall, at his own expense, through the terms of the contract secure, maintain, and pay for the following coverages:

- (a) Comprehensive General Liability Insurance with a limit of not less than \$2,000,000 inclusive per occurrence for bodily injury and property damage and \$2,000,000 for personal injury. The policy or policies shall cover all premises and operations necessary or incidental to the performance of this agreement and include but not necessarily be limited to the following coverages:
1. Contractual liability assumed under this agreement.
 2. Contingent employer's liability with respect to operations of sub-contractors.
 3. Owner's protective liability.
 4. Cross liability.
 5. Automobile liability (non-owned, hired).
 6. Completed operations liability 24 months after completed operations.
 7. Voluntary medical payments.
- (b) "Course of Construction" Property Damage Insurance covering all risks of physical loss or damage on an occurrence basis, including loss of use of property, and including losses or damage from flood or earthquake. The coverage provided shall amount to no less than 80% of the total value of the work done and material delivered to the site, or under the control of the Contractor, payable to the City and Contractor as their interests may appear, and protecting each in such terms as

General Conditions of the Contract (Cont'd)

will preclude subrogation claims by the insurer against anyone insured thereunder.

The City, its officers, officials, and employees shall be added as additional named insured on all such policies. All such insurance provided by these policies shall be primary regardless of any insurance or self insurance that may be enforced at the time of any loss or claim that insures the City, its officers, officials, and employees.

The policy or policies shall be underwritten by an insurance company or companies licensed to do business in the Province of British Columbia and who meet with the reasonable approval of the City. Prior to the commencement of the work defined by this agreement, the Contractor shall furnish the City through the Office of the Purchasing and Insurance Department a certified original copy of all such policies as evidence that such insurance is in force. The Contractor agrees that such insurance policies cannot be cancelled, lapsed, or materially changed without at least 30 days' written notice to the City.

Maintenance of such insurance and the performance of the Contractor of his obligations under this clause shall not relieve the Contractor of liability under the indemnification provisions here and above set forth. The foregoing insurance provisions shall not limit the insurance required by Municipal, Provincial, or Federal law.

It shall be the full responsibility of the Contractor to determine whether any additional insurance coverage is necessary and advisable for its own protection and/or to fulfil its obligations under this Contract. Any such additional insurance shall be provided and maintained by the Contractor its own expense.

It is understood that this agreement is strictly between the Contractor and the City and the Contractor is an independent contractor for the City and no employment relationship, partnership, agency, or joint venture exists between the City, the employees of the Contractor and/or its agents and/or their employees, and/or its Contractors and/or their employees. Any disputes between the Contractor and any of its employees and/or its agents and/or their employees and/or their Contractors and/or their employees shall be resolved by the Contractor with no involvement by the City.

23. Workers' Compensation Board Coverage/Prime Contractor

The Contractor agrees that it shall at its own expense procure and carry or cause to be procured and carried and paid for, full Workers' Compensation Board coverage for itself and all workers, employees, servants and others engaged in or upon any work or service which is the subject of this contract. The Contractor agrees that the City has the unfettered right to set off the amount of the unpaid premiums and assessments for such Workers' Compensation Board coverage against any monies owing by the City to the Contractor. The City shall have the right to withhold payment under this contract until

General Conditions of the Contract (Cont'd)

the Workers' Compensation Board premiums, assessments or penalties in respect of work done or service performed in fulfilling this contract had been paid in full.

The Contractor agrees that it is the Prime Contractor for the purposes of the Workers' Compensation Board Occupational Health and Safety Regulations for the Province of British Columbia. The Contractor shall have a safety program acceptable to the Workers' Compensation Board and shall ensure that all Workers' Compensation Board safety rules and regulations are observed during performance of this contract, not only by the Contractor but by all subcontractors, workers, material men and others engaged in the performance of this contract. Prior to commencement of construction, the Contractor shall complete and file a "Construction Notice of Project" with the Workers' Compensation Board and shall provide a copy of the same to the City confirming that the Contractor shall be the Prime Contractor responsible for coordination of safety and health under Part 3 of the Workers Compensation Act and Part 20 of the WCB Occupational Health and Safety Regulations.

The Contractor shall provide the City with the Contractor's Workers' Compensation Board registration number and a letter from the Workers' Compensation Board confirming that the Contractor is registered in good standing with the Workers' Compensation Board and that all assessments have been paid to the date thereof prior to the City having any obligation to pay monies under this contract. The Contractor shall also provide a signed copy of the Prime Contractor Designation Document.

The Contractor shall indemnify the City and hold harmless the City from all manner of claims, demands, costs, losses, penalties and proceedings arising out of or in any way related to unpaid Workers' Compensation Board assessments owing from any person or corporation engaged in the performance of this contract or arising out of or in any way related to the failure to observe safety rules, regulations and practices of the Workers' Compensation Board, including penalties levied by the Workers' Compensation Board.



Note: Receipt of this completed form will assist us in calling for future bids. Please complete and submit this form prior to the closing date and time as shown on the Request for Quotation/Proposal/Tender form.
Please remember to include Quotation/Proposal/Tender No. at right.

Quotation/Proposal/Tender

No **2821Q**

A Quotation/Proposal/Tender is not being submitted for the following reason(s):

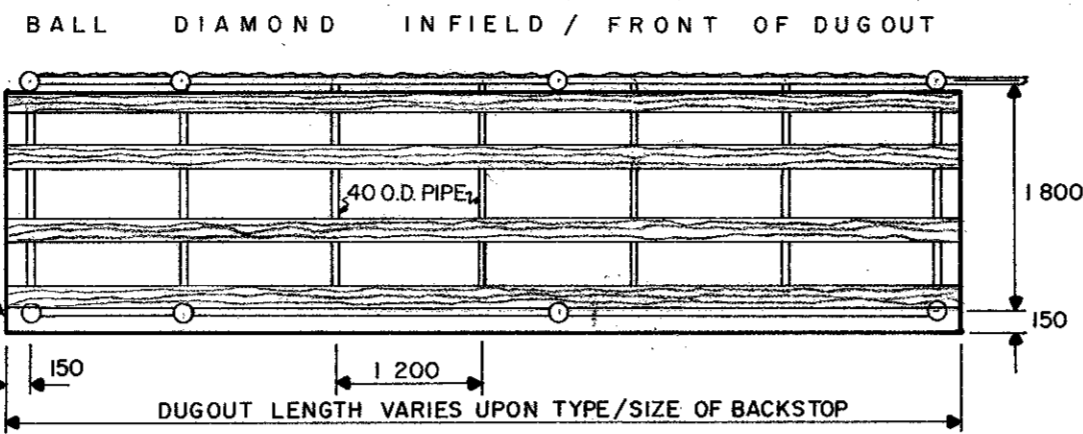
- | | |
|--|--|
| <input type="checkbox"/> We do not manufacture/supply the required goods/services | <input type="checkbox"/> Cannot obtain raw materials/goods in time to meet delivery requirements |
| <input type="checkbox"/> We do not manufacture/supply to stated specifications | <input type="checkbox"/> Cannot meet delivery requirements |
| <input type="checkbox"/> Specifications are not sufficiently defined | <input type="checkbox"/> Cannot quote/tender a firm price at this time |
| <input type="checkbox"/> Insufficient information to prepare quote/proposal/tender | <input type="checkbox"/> Insufficient time to prepare quote/tender. |
| <input type="checkbox"/> Quantity too small | <input type="checkbox"/> We are unable to competitively quote/tender at this time. |
| <input type="checkbox"/> Quantity too large | <input type="checkbox"/> We do not have facilities to handle this requirement |
| <input type="checkbox"/> Quantity beyond our production capacity | <input type="checkbox"/> Licensing restrictions (please explain) |
| <input type="checkbox"/> Cannot meet packaging requirements | <input type="checkbox"/> Agreements with distributors/dealers do not permit us to sell directly. |
| <input type="checkbox"/> Cannot handle due to present plant loading | <input type="checkbox"/> Other reasons or additional comments (please explain below) |

I / We wish to quote / tender on similar goods / services in future <input type="checkbox"/> Yes <input type="checkbox"/> No	Authorized Company Official – Signature and Title	Date
This space for City of Richmond Comments	Firm Name	
	Address	
	City	
	Province	Postal Code
	Telephone Number	

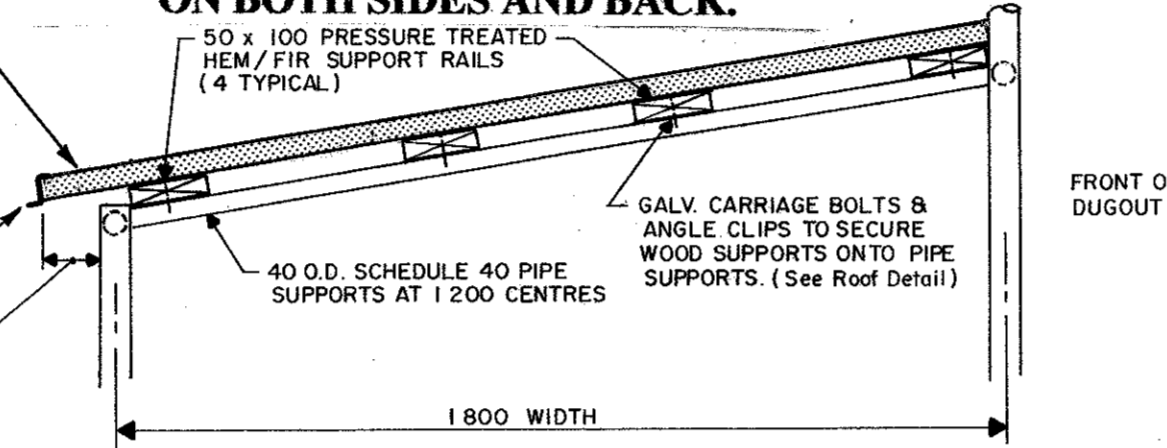
ROOF CLADDING
OPTION "A"
 C.L.900R CORRUGATED SHEET METAL ROOF CLADDING NO. 20 GAUGE DARK GREEN BAKED ENAMEL FINISH AS PER DOFASCO'S 5000 SERIES COLOR CHART (SUPPLIED BY METROL INDUSTRIES)

OPTION "B"
 MCPH i26- "HIGH" CORRUGATED SHEET METAL ROOF CLADDING NO. 26 GAUGE DARK GREEN BAKED ENAMEL FINISH AS SUPPLIED BY VICWEST STEEL, ON 13mm.(1/2") PRESSURE TREATED PLYWOOD

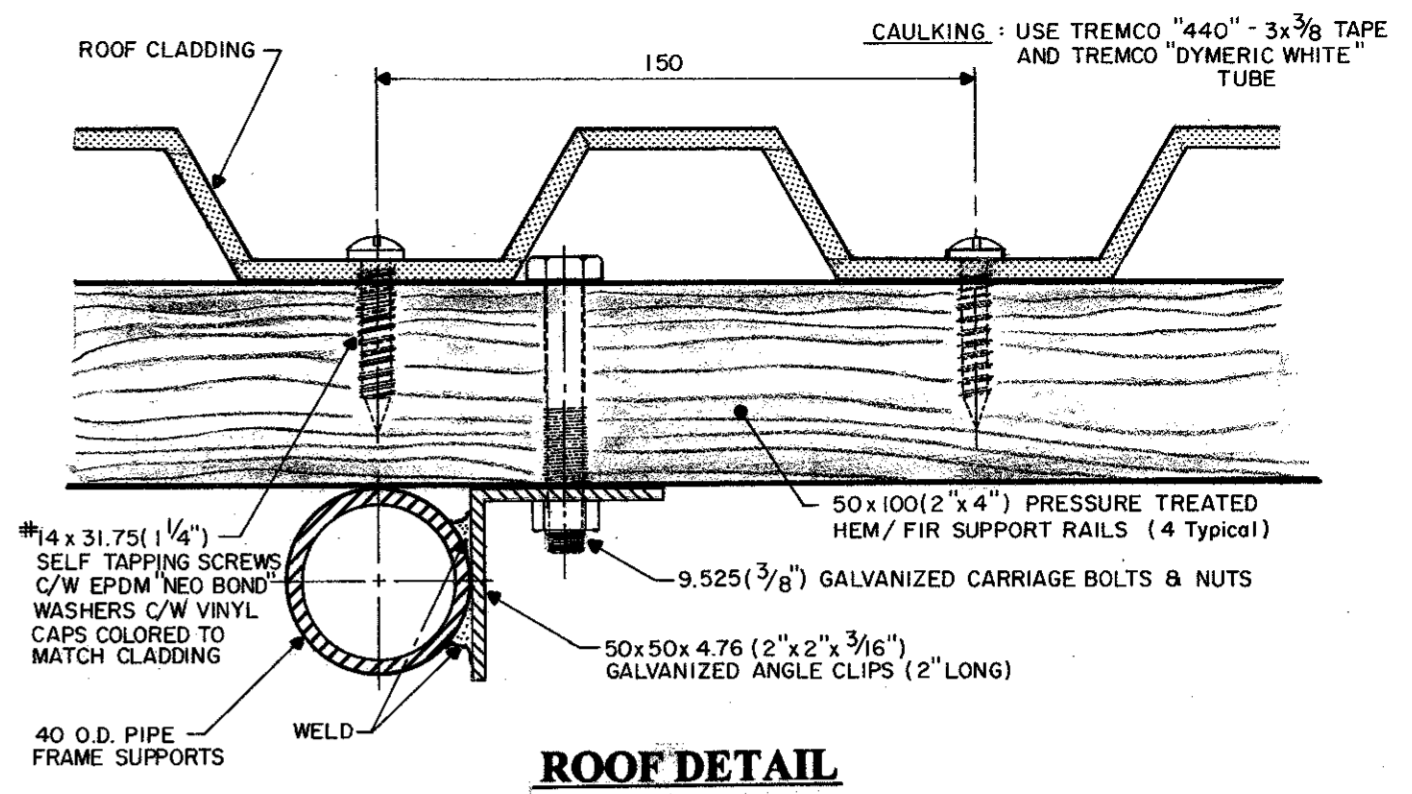
"J" TRIM
 150 OVERHANG (Typical)



TOP VIEW OF ROOF FRAMEWORK
NOTE: INSTALL "J" TRIM GUTTER/CAPPING ON BOTH SIDES AND BACK.



SIDE VIEW OF ROOF FRAMEWORK



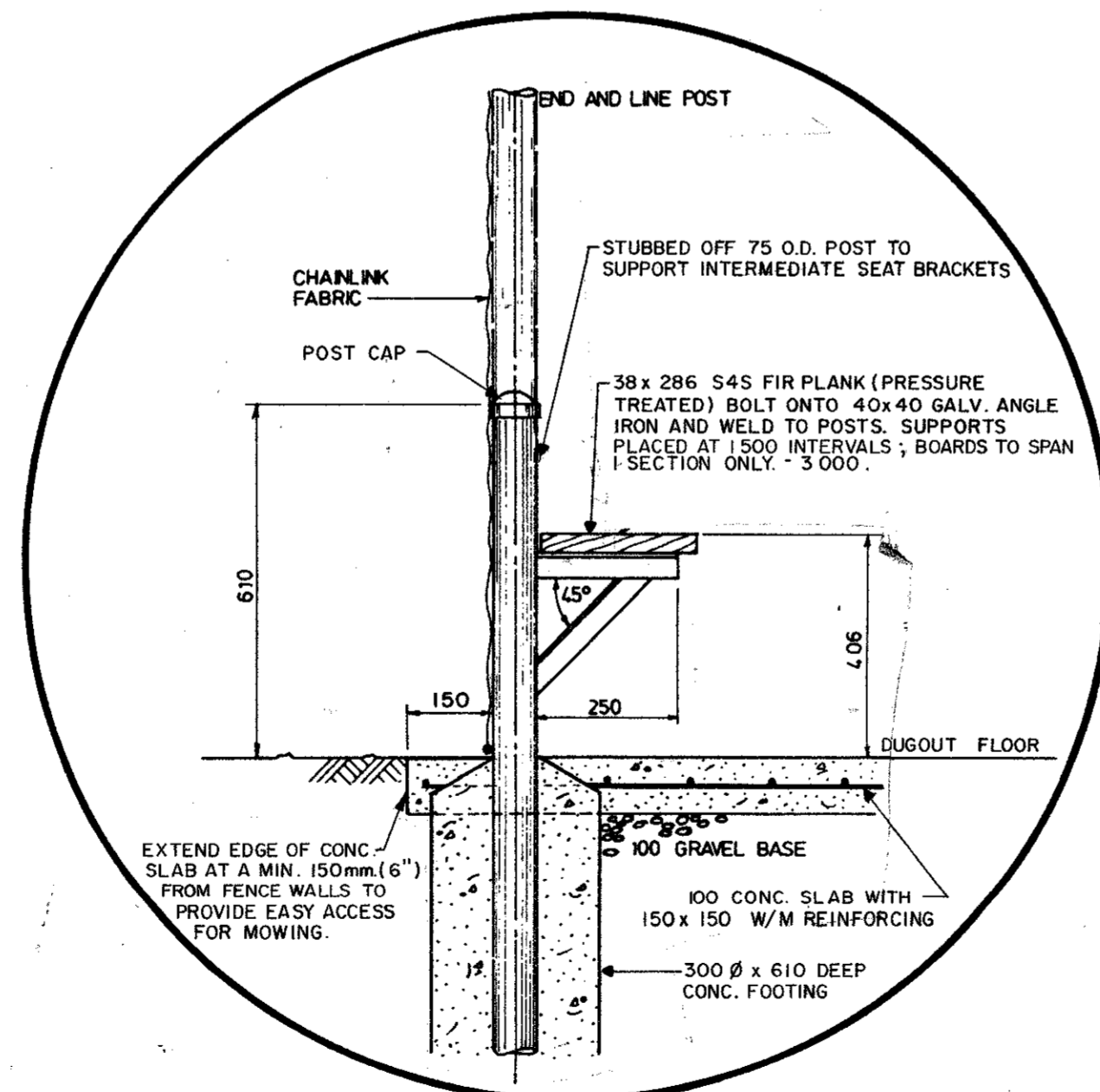
ROOF DETAIL

- General Notes:**
- DUGOUT FRAMEWORK SHALL BE HOT DIPPED GALVANIZED SCHEDULE 40 STEEL PIPE OF ELECTRICALLY BUTT WELDED CONSTRUCTION AT ALL JOINTS
 - ALL WOOD USED IN CONSTRUCTION SHALL BE PRESSURE TREATED.
 - DUGOUT ROOF CLADDING SHALL BE DARK GREEN (BAKED ENAMEL FINISH) AS SPECIFIED ABOVE OR APPROVED EQUAL.
 - ALL POST CAPS SHALL BE TACK-WELDED OR RIVETED TO POSTS.
 - DRAWING SHALL BE READ IN CONJUNCTION WITH THE CITY OF RICHMOND STANDARD DRAWING & SPECIFICATIONS FOR CHAINLINK FENCING.
 - ALL DIMENSIONS ARE EXPRESSED IN MILLIMETRES UNLESS OTHERWISE NOTED.

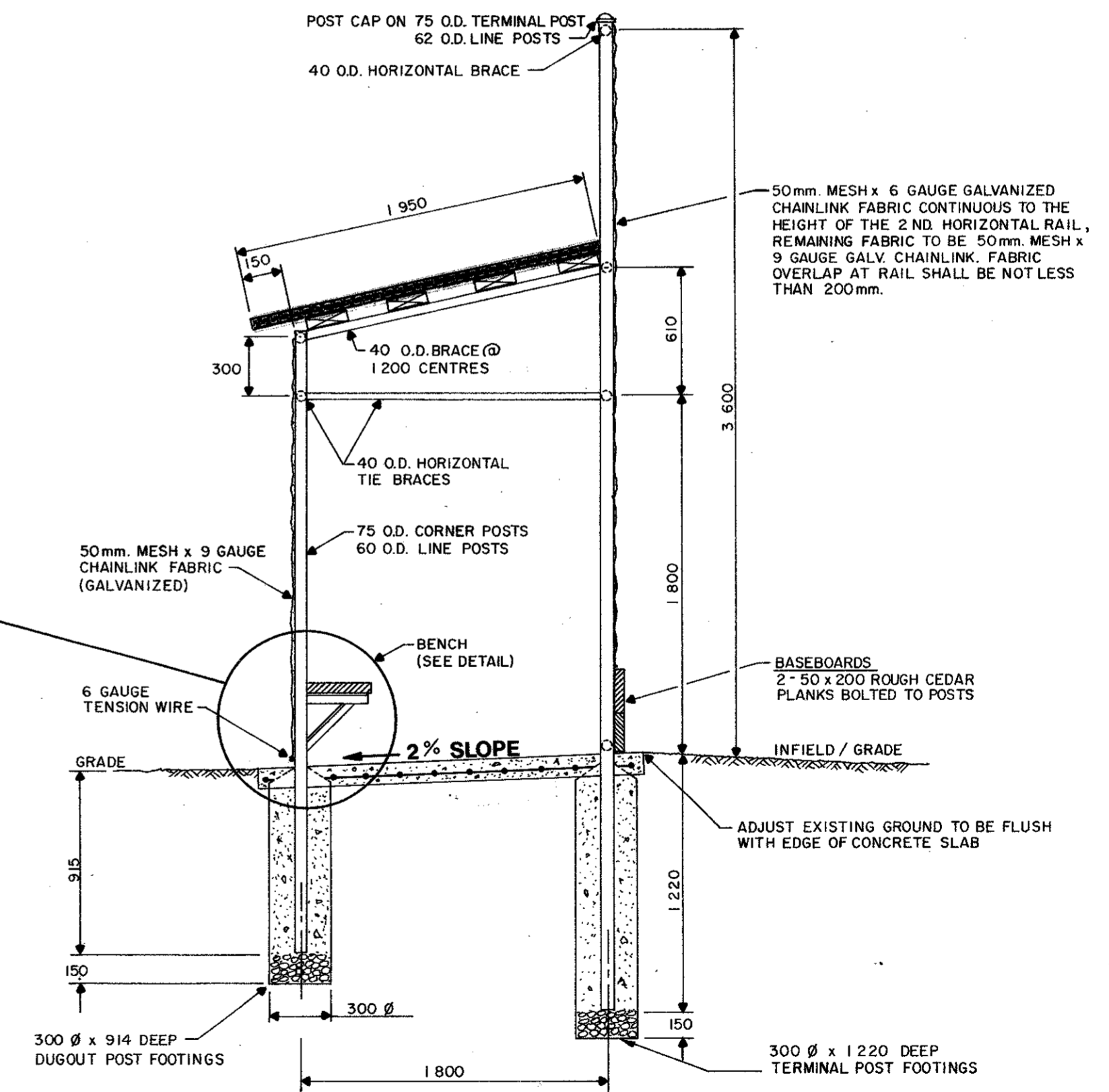
- Concrete Dugout Slabs:**
- CONCRETE SHALL BE BATCH PRODUCED FROM A REPUTABLE READY MIX SUPPLIER USING TYPE 10 NORMAL PORTLAND CEMENT AND BE GUARANTEED TO MEET OR EXCEED A MINIMUM COMPRESSIVE STRENGTH OF 20 Mpa FOLLOWING 28 DAYS OF CURE.
 - THE CONCRETE SHALL HAVE AN AGGREGATE MIX WHICH DOES NOT EXCEED 20mm. IN DIAMETER. SLUMP SHALL BE MAINTAINED AT THE MINIMUM POSSIBLE FOR EFFICIENT PLACEMENT AND ACHIEVEMENT OF A DENSE, HOMOGENEOUS MIXTURE.
 - CONCRETE SLAB SHALL BE 100mm. THICK AND REINFORCED WITH 152 x 152 x MW 18.7 x MW 18.7 (6" x 6" x 6/6) WELDED WIRE MESH.
 - SCORE SLAB CONTROL JOINTS EVERY 2.43 METRES
 - CONCRETE SLAB TO BE LIGHT BROOM FINISH ON EXPOSED SURFACES
 - SLOPE CONCRETE SLAB AWAY FROM FINISHED INFIELD GRADE ELEVATION TOWARDS BACK OF DUGOUT @ 2%.

Pipe Schedule:

TERMINAL POSTS	75mm. O.D.
CORNER POSTS	75mm. O.D.
LINE POSTS	60mm. O.D.
TOP RAILS	40mm. O.D.
INTERMEDIATE RAILS	40mm. O.D.
OVERHANG UPRIGHTS	60mm. O.D.



BENCH & CONCRETE FLOOR DETAIL



CROSS SECTION THROUGH DUGOUT

REV'N	DATE	DR'N	CH.

SEE REDUCED STD. DWG. P-20 SHT.2 OF 2.

THE CORPORATION OF THE TOWNSHIP OF RICHMOND	
DESIGN D.P.	STANDARD DUGOUT DETAILS (CORRUGATED SHEET METAL ROOF)
DR/TR M.L.	
CHECKED	
ENGINEER	
SCALE N. T. S. DATE FEB 1994 DRAWING No. Pb 42 SHEET No. 2 OF 2	

