

DIVISION 1
GENERAL REQUIREMENTS

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DIVISION 1 – GENERAL REQUIREMENTS

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SUMMARY OF WORK

1. WORK COVERED BY CONTRACT DOCUMENTS

- .1 Work of this Contract comprises upgrading the existing wastewater treatment plant located in Iqaluit, NT.
- .2 Work includes but is not necessarily limited to the following general items:
 - .1 Construct new headworks building and clarifier building.
 - .2 Salvage and installation of equipment and materials.
 - .3 Supply and install new process equipment, piping and appurtenances, including chemical systems, pumps, Salnes filter, DAF unit, belt filter press, aeration equipment, strainer, and clarifiers.
 - .4 Demolition, removal and disposal of walls, piping, electrical, mechanical, and process components, redundant equipment and all other items to accommodate new components.
 - .5 Associated Mechanical, Electrical and Instrumentation/control work.
 - .6 Associated structural and architectural work.
 - .7 Associated civil and site works.
 - .8 Transportation to Site and Installation of above.

2. CONTRACT METHOD

- .1 Construct the Work under a single lump sum contract.

3. WORK UNDER OTHER CONTRACTS

- .1 The Nunavut Power Corporation will provide a new electrical service. Payment for the new service will be directly from the City to the Power Corporation. The Contractor shall be responsible for pole and transformer installation as per the drawings and specifications and coordination with the Power Corporation for the installation.

4. CONTRACTOR USE OF PREMISES

- .1 Contractor shall coordinate his activities with the Iqaluit Operation Personnel to ensure the uninterrupted treatment of wastewater to the existing lagoons and/or commissioned treatment plant.

SUMMARY OF WORK

- .2 Assume full responsibility for protection and safekeeping of Products under this Contract.
- .3 Obtain and pay for use of additional storage or work areas needed for operations under this Contract.

END OF SECTION

WORK SEQUENCE AND TIE-INS

1. SPECIAL SCHEDULING

- .1 Prior to starting any construction, the Contractor shall submit a detailed schedule for all work and activities which affect operation of the existing services, including work that involves breaking into or connecting to existing services.
- .2 The Contractor shall work with the City and the Engineer to finalize the work sequence for all work that affects operation of the existing services, to the satisfaction of the City and the Engineer. The Contractor's detailed schedule shall clearly indicate the required operation and/or lock-out of the existing services or system, related to the interruption or shutdown.
- .3 The City shall be responsible for operating and/or locking-out existing services or systems related to the interruption or shutdown.
- .4 Such scheduling shall be coordinated so as to minimize interruption to normal plant operations (i.e. existing lagoons, truck dump). In the event of conflict between construction activities and plant operations, plant operations shall be given priority and the Contractor shall re-schedule construction activities to accommodate plant operations.
- .5 The Contractor shall adhere to schedules approved by the Engineer.
- .6 Whenever proposing a change in the construction program of special items, submit the revised schedule to the Engineer for review and approval.
- .7 Claims for additional compensation or extension of the contract time on account of the special scheduling requirements will not be considered.
- .8 In general, every effort will be made to schedule shutdowns during normal working hours. However, in certain critical areas, it may be necessary to shutdown at night or on weekends and/or require the Contractor to work continuously for 24 hours per day until the connection is complete. No additional compensation will be made for such overtime work.

2. WORKING HOURS

- .1 Normal Contractor working hours inside the limits of the Owner's property are limited to 7:00 a.m. to 7:00 p.m., Monday to Friday.
- .2 Written approval by the Engineer and Owner is required to schedule work outside of the normal Contractor working hours.
- .3 Coordination of work requiring interaction between the Contractor and the Owner and or Engineer, shall be confined between the hours of 8:00 a.m. and 5:00 p.m. on weekdays.
- .4 Coordination of work requiring assistance from the City's Operating Personnel shall be confined between the hours of 7:30 a.m. and 3:30 p.m. on weekdays.

END OF SECTION

COORDINATION

1. SITE CONDITIONS/LIMITS

1.1 Examination of Site

- .1 Prior to commencing actual construction work, inspect field conditions, obtain and confirm actual site dimensions, examine surface conditions as required to ensure correct execution of the Work.
- .2 Commencement of construction constitutes acceptance of existing conditions and means dimensions have been considered, verified and are acceptable.

2. DOCUMENTS/INSTRUCTIONS

2.1 Documents Provided

- .1 The Engineer will provide, without charge, as many copies of the Contract Documents or parts thereof as are reasonably necessary for the performance of the Work.

2.2 Discrepancies/Omissions

- .1 Notify the Engineer immediately upon discovery of discrepancies or omissions in the Contract Documents or of any doubt as to the meaning or intent of any part thereof.

2.3 Documents on the Site

- .1 Maintain one copy of all current Contract Documents, all shop drawings and a site specific Health and Safety plan on site, in good order and available to the Engineer or his representatives.
- .2 This requirement does not include the executed Contract Documents.

2.4 Definition of Trades/Jurisdiction

- .1 For convenience of reference only, the specifications are separated into titled sections (see Table of Contents). Sections are identified by title and a five digit numbering system.
- .2 In the case of a dispute, the General Contractor shall decide which Subcontractor supplies and installs required materials or equipment. Extras will not be considered on the grounds of differences in interpretation of the specifications as to which Subcontractor does what work.

3. PROJECT COORDINATION

- .1 Coordinate progress schedules, submittals, use of site, temporary utilities, construction facilities and construction work.
- .2 Submit construction progress schedule in accordance with Section 01310.

COORDINATION

4. CUTTING AND PATCHING

4.1 Submittals

- .1 Submit written request and receive approval in advance of cutting or alteration which affects:
 - .1 Structural integrity of any element of Project.
 - .2 Integrity of weather-exposed or moisture-resistant elements.
 - .3 Efficiency, maintenance, or safety of any operational element.
 - .4 Visual qualities of sight-exposed elements.
 - .5 Work of Owner or separate contractor.
- .2 Include in Request:
 - .1 Identification of Project
 - .2 Location and description of affected work.
 - .3 Statement on necessity for cutting or alteration.
 - .4 Description of proposed work, and products to be used.
 - .5 Alternatives to cutting and patching.

4.2 Materials

- .1 Required for original installation.
- .2 Change in materials: Submit request for substitution under provisions of Section 01600.

4.3 Execution

- .1 Execute cutting, fitting, and patching including excavation and fill to complete the Work.
- .2 Fit the several parts together, to integrate with other work.
- .3 Uncover work to install ill-timed work.
- .4 Remove and replace defective and non-conforming work at no extra cost to owner.
- .5 Remove samples of installed work for testing.
- .6 Provide openings in non-structural elements of Work for penetrations of mechanical and electrical work.

COORDINATION

4.4 Inspection

- .1 Inspect existing conditions, including elements subject to damage or movement during cutting and patching.
- .2 Record and notify engineer of pre-existing damage.
- .3 After uncovering, inspect conditions affecting performance of work.
- .4 Beginning of cutting or patching means acceptance of existing conditions.

4.5 Preparation

- .1 Provide supports to assure structural integrity of surroundings; devices and methods to protect other portions of project from damage.
- .2 Provide protection from elements for areas which may be exposed by uncovering work; maintain excavations free of water and ice.

4.6 Performance

- .1 Execute work by methods to avoid damage to other work, and which will provide proper surfaces to receive patching and finishing.
- .2 Employ original installer to perform cutting and patching for weather-exposed and moisture-resistant elements, and sight-exposed surfaces.
- .3 Cut rigid materials using masonry saw or core drill. Pneumatic or impact tools not allowed without prior approval from engineer.
- .4 Restore work with new products in accordance with requirements of Contract Documents.
- .5 Fit work airtight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- .6 At penetration of fire-rated wall, ceiling, or floor construction, completely seal voids with fire-rated material, full thickness of the construction element.
- .7 Refinish surfaces to match adjacent finishes: for continuous surfaces refinish to nearest intersection; for an assembly, refinish entire unit.

END OF SECTION

FIELD ENGINEERING

1. REQUIREMENTS INCLUDED

- .1 Field engineering survey services to measure and stake the site.
- .2 Survey services to establish (and confirm) measurements for the Work.
- .3 Subsurface conditions.

2. RELATED REQUIREMENTS

- .1 Record Documents: Section 01300.
- .2 Owner's identification of existing survey control points and property limits.

3. QUALIFICATIONS OF SURVEYOR

- .1 Capable of performing the Work to the satisfaction of the Engineer.

4. SURVEY REFERENCE POINTS

- .1 Existing base horizontal and vertical control points are designated on drawings and/or an electronic copy of the original survey data will be provided.
- .2 Locate, confirm and protect control points. Preserve permanent reference points during construction.
- .3 Make no changes or relocations without prior written notice to the Engineer.
- .4 Report to Engineer when a reference point is lost or destroyed, or requires relocation because of necessary changes in grades or locations.
- .5 Require Surveyor to replace control points in accordance with the original survey control.

5. SURVEY BY CONTRACTOR

- .1 Layout and staking will be performed by the Contractor.
- .2 Establish two permanent benchmarks on site, referenced to established benchmarks or survey control points. Record locations with horizontal and vertical data in the Project Record Documents.
- .3 Establish lines and levels; locate and lay out by instrumentation.

FIELD ENGINEERING

6. RECORDS

- .1 Maintain a complete, accurate log of control and survey work as it progresses.
- .2 On completion of foundations and major site improvements, prepare a survey showing dimensions, locations, angles and elevations of the Work.

7. SUBMITTALS

- .1 On request of the Engineer, submit documentation to verify accuracy of field engineering work.
- .2 Submit certificate signed by Contractor certifying that elevations and locations of completed work are in conformance or non-conformance with Contract Documents.

8. SUBSURFACE CONDITIONS

- .1 Promptly notify the Engineer, in writing, if subsurface conditions at the place of the Work differ materially from those indicated, or a reasonable assumption of probable conditions based thereon.
- .2 After investigation, should the Engineer determine that the conditions do differ materially, instructions will be issued for changes in the Work as provided in General Conditions (GC).

END OF SECTION

REGULATORY REQUIREMENTS

1. PERMITS/INSPECTIONS

- .1 The Contractor shall obtain and pay for the building permit.
- .2 The Contractor shall obtain and pay for all permits, licences, certificates and governmental inspections required for the performance of the Work in force at the Tender closing date.
- .3 Give all required notices and comply with all local, provincial and federal laws, ordinances, rules, regulations, codes and orders relating to the Work, which are or become in force during the performance of the Work.

2. APPLICABLE CODES/STANDARDS

- .1 The NBC-1995 was used as a basis for designing the Work.
- .2 Where specified codes/standards are not dated, conform to latest issue of specified codes/standards as amended and revised to the Tender closing date.
- .3 Confine apparatus, the storage of Products and the operations of workers to limits indicated by laws, ordinances, permits and by directions of the Engineer. Do not unreasonably encumber the premises with products.

3. SAFETY

- .1 Observe and enforce all construction safety measures required by code, Workers' Compensation Board, and all applicable statutes. Appoint a suitably qualified employee who has sole responsibility on site on behalf of the Contractor, for compliance with the requirements and so advise the Owner in writing with copy to the Engineer.
- .2 In the event of discrepancy between such provisions, the most stringent provision shall apply.
- .3 Employ a qualified specialty Engineer for the design of all shoring and falsework for the temporary supports of all structural elements, earth banks, roads, etc.
- .4 Make available four (4) "Visitor safety helmets" for authorized visitors.
- .5 Where refuse burning is permitted by the Engineer, prevent staining or smoke damage to structure or materials. Replace stained or damaged work.
- .6 If "NO SMOKING" regulations are in effect in areas of the Work, ensure that all workers comply with the regulations.
- .7 Ensure that all workers comply with the Owner's safety regulations where such regulations are in effect.

REGULATORY REQUIREMENTS

- .8 Do not load or permit to be loaded any part of the Work with a weight, load or force that will exceed the design load and/or endanger its safety.

4. CLEANING OF STREETS

- .1 Conform to local ordinances and by-laws relating to littering of streets.
- .2 Take precautions to prevent depositing mud or debris on public or private roadways adjacent to the Work. Clean up immediately, otherwise the Engineer will direct necessary cleanup with all costs back charged to the Contractor.

5. WORKING LIMITS/TEMPORARY EASEMENTS

- .1 Confine all operations within the Owner's property limits.
- .2 Arrange for encroachment on areas beyond property lines separately with the property owners.
- .3 Obtain consent of adjoining property owners regarding need for any temporary easements or any other encroachments. Upon completion of Contract, make good any damage to adjacent property.

6. TAXES/DUTIES/PATENTS

6.1 Customs Duties

- .1 Include customs duties in the Tender Price.
- .2 Exemption Certificates or other such documents which would permit purchase of goods exempt of customs duties will be considered by Owner if they apply, only after award of Contract.

6.2 Patent Fees

- .1 The following sections apply to the Contractor with respect to the furnishing of goods and services under this Contract:
 - .1 Pay all royalties and patent licence fees required for the performance of the Contract. Hold the Owner harmless from and against all claims, demands, losses, costs, damages, actions, suits or proceedings arising out of the performance of the Contract which are attributable to an infringement or an alleged infringement of any patent or invention by the Contractor or anyone for whose acts the Contractor may be liable.
 - .2 The Owner shall hold the Contractor harmless against all claims, demands, losses, costs, damages, actions, suits or proceedings arising out of the performance of the

REGULATORY REQUIREMENTS

Contract which are attributable to an infringement or an alleged infringement of any patent or invention in executing anything for the purpose of the Contract, the model, plan or design of which was supplied by the Owner.

- .2 The following section applies to the Contractor with respect to the purchase of Equipment from Third Party Suppliers under this Contract

- .1 The Contractor will ensure that all Suppliers have fully investigated all specifications, including any furnished by Owner and Engineer, in connection with the goods, and based on such investigation and its past experience and superior knowledge with respect to the goods, has determined the production, sale or use thereof will not infringe any patent, patent pending, trademark, trade secret, proprietary information, know-how, copyright, or unpatented invention (hereinafter in this Article referred to separately and collectively as "Intellectual Property Interest"). Suppliers warrant to the Owner and Engineer and their successors in interest that Owner's use of the goods, whether manufactured in accordance with Owner's and Engineer's specification, if any, or otherwise, do not and will not infringe upon any Intellectual Property Interest and Supplier shall defend, indemnify and hold Owner and Engineer and their successors in interest free and harmless from and against any and all claims, demands, costs and liabilities, including legal expenses, arising out of any such infringement or claim of infringement. Owner and Engineer may be represented by and actively participate through its own counsel in any suit or proceeding if it so desires, and the costs of such representation shall be paid by Supplier. Owner and Engineer are relying upon the experience, skill and superior knowledge of Supplier with respect to the goods and makes no representation that Supplier will be safe in manufacturing or preparing the goods as required under this Contract. In no event shall Owner and Engineer or their successors in interest be liable to Supplier for infringement of any Intellectual Property Interest or claim thereof. In the event Owner and Engineer and/or their successors in interest is or are enjoined from the use and/or sale of the goods or any part thereof, then, in addition to any other rights or remedies Owner and Engineer may have under the circumstances, Supplier shall (at its sole expense) take all reasonable steps to procure for Owner and Engineer and their successors in interest the right to use and sell the goods, or any part thereof or, if Supplier cannot so procure the aforesaid right within a reasonable time, Supplier shall then promptly (at Supplier's sole expense):

- .1 Modify the goods or any part thereof so as to avoid infringement of any Intellectual Property Interest, or
- .2 Replace the goods or any part thereof with goods which do not infringe any Intellectual Property Interest, or
- .3 Remove the goods or any part thereof and refund any compensation theretofore paid to Seller and pay to Owner any transportation costs and expenses that may have been paid or incurred by Owner in connection with the goods or any part thereof so removed.

REGULATORY REQUIREMENTS

6.3 Changes in Taxes/Duties/Fees

- .1 The Contract Price shall include all taxes, duties and fees applicable on the Tender closing date.
- .2 If changes occur after receipt of Tenders, the Contract Price shall be adjusted accordingly.

7. EXISTING UTILITIES

- .1 Conform to Territorial and municipal regulations during construction in proximity to utility structures.
- .2 Notify appropriate utility companies and municipal departments minimum one week in advance of commencing such work:
 - .1 For telephone, NorthwesTel.
 - .2 For sanitary systems, City of Iqaluit.
 - .3 For power, Nunavut Power Corporation.
- .3 Make arrangements with utility companies for protection of pipelines, conduits, drainlines, wiring and other structures, whether underground, on the surface or overhead, and satisfy the company or department that the methods or operations are effective.
- .4 Indemnify and save harmless the Owners of these existing utilities from any loss or damage which may be suffered by reason of the operations of the Contractor in the performance of this Contract.

END OF SECTION

REFERENCES

1. REFERENCE STANDARDS

- .1 Within the text of the specifications reference may be made to the following standards:

.1	ABC	Alberta Building Code
.2	ACI	American Concrete Institute
.3	AISC	American Institute of Steel Construction
.4	ANSI	American National Standards Institute
.5	ASTM	American Society for Testing and Materials
.6	AWWA	American Water Works Association
.7	CCA	Canadian Construction Association
.8	CEC	Canadian Electrical Code (published by CSA)
.9	CEMA	Canadian Electrical Manufacturers Association
.10	CGSB	Canadian Government Specification Board
.11	CISC	Canadian Institute of Steel Construction
.12	CLA	Canadian Lumberman's Association
.13	CPCA	Canadian Painting Contractors Association
.14	CPCI	Canadian Prestressed Concrete Institute
.15	CRCA	Canadian Roofing Construction Association
.16	CSA	Canadian Standards Association
.17	FM	Factory Mutual Engineering Corporation
.18	IEEE	Institute of Electrical and Electronic Engineers
.19	IPCEA	Insulated Power Cable Engineers Association
.20	NAAMM	National Association of Architectural Metal Manufacturers
.21	NBC	National Building Code
.22	NEMA	National Electrical Manufacturers
.23	TTMAC	Terrazo, Tile and Marble Association of Canada
.24	ULC	Underwriters Laboratories of Canada

- .2 If there is question as to whether any product or system is in conformance with applicable standards, the Engineer reserves the right to have such products or systems tested to prove or disprove conformance. The cost for such testing will be borne by the Owner in the event of conformance with Contract Documents or by the Contractor in the event of non-conformance.
- .3 Where specified standards are not dated, conform to latest issue of specified standards as amended and revised to the Tender closing date.

END OF SECTION

PROJECT MEETINGS

1. PRECONSTRUCTION MEETING

- .1 Within thirty (30) days after award of Contract, the Engineer will request and conduct a pre-construction meeting of parties in contract to discuss and resolve administrative procedures and responsibilities. Meetings will be in Iqaluit.
- .2 Representatives of the Owner, Engineer, Contractor, Major Subcontractors, Field Inspectors and Supervisors shall be in attendance.
- .3 After time and location of this meeting has been established, the Engineer shall notify all parties concerned a minimum of seven (7) days before the meeting.
- .4 The Engineer will chair and record discussions and decisions, and circulate the minutes to all parties concerned.
- .5 Agenda to include the following:
 - .1 Appointment of official representatives of participants in the Work.
 - .2 Schedule of the Work, progress scheduling (Section 01310).
 - .3 Schedule of submission of shop drawings, samples, colour chips, (Section 01300).
 - .4 Requirements for temporary facilities, site sign, offices, storage sheds, utilities, fences (Section 01500).
 - .5 Delivery schedule of specified equipment (Section 01310).
 - .6 Site security (Section 01500).
 - .7 Contemplated Change Notices and Change Order procedures, approvals required, mark-up percentages permitted, time extensions, overtime, administrative requirements (GC).
 - .8 Record drawings (Section 01720).
 - .9 Maintenance manuals (Section 01730).
 - .10 Take-over procedures, acceptance, warranties (Section 01700).
 - .11 Monthly progress claims, administrative procedures, photographs, holdbacks (GC).
 - .12 Appointment of inspection and testing agencies or firms (Section 01400).
 - .13 Insurances, transcript of policies (GC).
 - .14 Record mutually agreed variations to Contract documents.

PROJECT MEETINGS

2. PROGRESS MEETINGS

- .1 The Engineer will schedule and administer progress meetings throughout the progress of the Work.
- .2 Agenda for progress meetings to include the following:
 - .1 Review and approval of minutes of previous meeting.
 - .2 Review of Work progress since previous meeting.
 - .3 Field observations, problems, conflicts.
 - .4 Problems which impede construction schedule.
 - .5 Review of off-site fabrication delivery schedule.
 - .6 Corrective measures and procedures to regain projected schedule.
 - .7 Revisions to construction schedule.
 - .8 Progress, schedule, during succeeding work period.
 - .9 Review submittal schedules: expedite as required.
 - .10 Maintenance of quality standards.
 - .11 Pending changes and substitutions.
 - .12 Review proposed changes for effect on construction schedule and on completion date.
 - .13 Outstanding action items
 - .14 Date and location of next meeting
 - .15 Note: Should any discrepancies or inconsistencies be noted, please notify the writer as soon as possible and have it recorded in the next meeting. If no notifications are recorded, the minutes will be deemed correct and acceptable to all.
 - .16 Other business.
 - .17 Distribution list.
- .3 The Engineer shall distribute written notice of the first meeting seven (7) days in advance of the meeting date.
- .4 Provide physical space, table and chairs for all local participants. Teleconferencing will be utilized for out of town participants.

PROJECT MEETINGS

- .5 The Engineer shall preside at meetings.
- .6 The Engineer shall record the minutes of progress meetings. Include significant proceedings and decisions. Identify "action by" parties and date for completion of duty.
- .7 The Engineer shall reproduce and distribute copies of minutes within five (5) working days after each meeting and transmit to meeting participants and affected parties not in attendance.
- .8 Representatives of Contractor, Subcontractor and Suppliers attending meetings must be qualified and authorized to act on behalf of the party each represents.

END OF SECTION

SUBMITTALS

1. SHOP DRAWINGS AND PRODUCT DATA

- .1 "Shop Drawings" mean custom drawings, product data, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided by the Contractor to illustrate details of a portion of the Work.
- .2 Arrange for the preparation of clearly identified shop drawings as specified or as the Engineer may reasonably request. Shop drawings are to clearly indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of the Work. Where articles or equipment attach or connect to other articles or equipment, clearly indicate that all such attachments and connections have been properly coordinated, regardless of the trade under which the adjacent articles or equipment will be supplied and installed. Shop drawings are to indicate their relationship to design drawings and specifications. Notify the Engineer in writing of any deviations in shop drawings from the requirements of the Contract Documents.
- .3 Examine all shop drawings prior to submission to the Engineer to ensure that all necessary requirements have been determined and verified and that each shop drawing has been checked and coordinated with the requirements of the Work and the Contract Documents. Examination of each shop drawing shall be indicated by stamp, date and signature of a responsible person of the Subcontractor for supplied items and of the General Contractor for fabricated items. Shop drawings not stamped, signed and dated will be returned without being reviewed and stamped "Re-submit".
- .4 Submit shop drawings with reasonable promptness and in an orderly sequence so as to cause no delay in the Work. Failure to submit shop drawings in ample time is not to be considered sufficient reason for an extension of Contract Time and no claim for extension by reason of such default will be allowed. Jointly prepare a schedule fixing the dates for submission and return of shop drawings (refer to Section 01200 - Meetings).
- .5 The Engineer will review and return shop drawings in accordance with the schedule agreed upon or otherwise with reasonable promptness so as to cause no delay in the Work.
- .6 Submit sufficient copies for the operation and maintenance manual (6) and for the contractor's use and records and for the Engineer. The Engineer will retain two (2) copies.
- .7 Shop drawing review by the Engineer is solely to ascertain conformance with the general design concept. Responsibility for approval of detail design inherent in shop drawings rests with the Contractor and review by the Engineer shall not imply such approval.
- .8 Review by the Engineer shall not relieve the Contractor of his responsibility for errors or omissions in shop drawings or for proper completion of the Work in accordance with the Contract Documents.

SUBMITTALS

- .9 Responsibility for verification and correlation of field dimensions, fabrication processes, techniques of construction, installation and coordination of all parts of the Work rests with the Contractor.
- .10 Shop drawings will be returned to the Contractor with one of the following notations:
 - .1 When stamped "REVIEWED", distribute additional copies as required for execution of the Work.
 - .2 When stamped "REVIEWED AS MODIFIED", ensure that all copies for use are modified and distributed, same as specified for "REVIEWED".
 - .3 When stamped "REVISE & RESUBMIT", make the necessary revisions, as indicated, consistent with the Contract Documents and submit again for review.
 - .4 When stamped "NOT REVIEWED", submit other drawings, brochures, etc. for review consistent with the Contract Documents.
 - .5 Only shop drawings bearing "REVIEWED" or "REVIEWED AS MODIFIED" shall be used on the Work unless otherwise authorized by the Engineer.
- .11 After submittals are stamped "REVIEWED" or "REVIEWED AS MODIFIED", no further revisions are permitted unless re-submitted to the Engineer for further review.
- .12 Any adjustments made on shop drawings by the Engineer are not intended to change the Contract Price. If it is deemed that such adjustments affect the Contract Price, clearly state as such in writing prior to proceeding with fabrication and installation of work.
- .13 Make changes in shop drawings which the Engineer may require consistent with Contract Documents. When re-submitting, notify the Engineer in writing of any revisions other than those requested by the Engineer.
- .14 Shop drawings indicating design requirements not included in the Contract Documents require the seal of a qualified Professional Engineer, registered in the place of the Project. Engineering calculations shall be submitted for review, if requested, and sealed by a qualified Professional Engineer.

2. SAMPLES

- .1 Submit samples for the Engineers review as specified or as the Engineer may reasonably request. Clearly label samples as to origin and intended use in the Work. Reference samples to drawings and specifications.
- .2 Submit samples with reasonable promptness and in orderly sequence so as to cause no delay in the Work. Failure to submit samples in ample time is not to be considered sufficient reason for an extension of Contract Time and no claim for extension by reason of such default will be

SUBMITTALS

allowed. Jointly prepare a schedule fixing the dates for submission and return of samples (refer to Section 01200 - Meetings).

- .3 Notify the Engineer in writing, at the time of submission, of any deviations in samples from requirements of Contract Documents.
- .4 The Engineer' review will be for conformity of design concept and general arrangement only. Such review is not to be considered relief of responsibility for errors or omissions in samples or of responsibility for meeting all requirements of the Contract Documents.
- .5 Any adjustments made on samples by the Engineer are not intended to change the Contract Price. If it is deemed that such adjustments affect the Contract Price, clearly state as such in writing and retain approval from engineer prior to proceeding with fabrication and installation of the Work.
- .6 Make changes in samples which the Engineer may require consistent with Contract Documents.

3. OPERATING/MAINTENANCE MANUALS

- .1 See Section 01730.

4. RECORD DRAWINGS

- .1 See Section 01720.

5. PHOTOGRAPHS AND PUBLICITY

- .1 No photographs of the site or of any portion of the Work will be permitted without prior approval of the Engineer.
- .2 No press or publicity releases will be permitted without prior approval of the Engineer.

6. CASH FLOW FORECAST

- .1 Submit to the Engineer, immediately after award of Contract, a cash flow forecast of approximate costs to the Work, compiled on a monthly basis over the term of the Contract.

END OF SECTION