Specification No. W81-1346

NORTHERN TERRITORY OF AUSTRALIA

Department of Transport and Works
Mitchell Street
DARWIN N.T. 5790

July 1981

SPECIFICATION FOR MCMINNS LAGOON FLOOD MITIGATION CHANNEL

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ENQUIRIES

Any enquiries of a technical nature regarding the work required should be referred to Mr. D. Hibbert, Department of Transport and Works (Telephone 89 6622)

Any enquiries regarding tendering procedure or the like, should be referred to the Contracts Officer (Telephone 89 6068)

NATURE OF CONTRACT

The Contract shall be a Schedule of Rates Contract.
**SECTION 1.00 PRELIMINARY CLAUSES**

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SECTION 1.00 - PRELIMINARY CLAUSES

1.01 QUOTATIONS
Quotations must be submitted on the relevant departmental Quotation Form for "Works and Services" which is available on application.

The attention of Tenderers is drawn to the Conditions of Quotation and Conditions of Contract appearing on the reverse of this form.

Tenderers are to note that this is a Schedule of Rates Contract.

1.02 LOCALITY
The Site of the Works is adjacent to and across Power Road approximately 30 kilometres South of the Darwin Post Office. Detailed locality plans are included in the Project Drawings.

1.03 EXTENT OF WORK
The work to be carried out under the Contract comprises:-

The construction of an open unlined drain with a drop structure and an inlet structure, a culvert under Power Road, disposal of surplus spoil as specified.

1.04 TIME FOR COMPLETION
The Contractor shall complete the whole of the works within fourteen (14) weeks from the date shown on the official order. The Contract Time is inclusive of all public holidays.

1.05 DEFECTS LIABILITY PERIOD
The defects liability period shall be twenty-six (26) weeks after the Superintendent has certified that the whole of the work has been completed in accordance with the Contract and to his satisfaction.
1.06 SCHEDULE OF DRAWINGS (Cont'd)

Other drawings and details supplied during the currency of the Contract shall form part of the Contract.

The Contractor shall keep at least one copy of each relevant drawing, specification and instruction at the site of works, available for inspection by any authorised representative of the Superintendent.

1.07 ACCESS TO WORKS AND MATERIAL

The Superintendent or any other persons authorised by him shall have free and uninterrupted access at all times to the works and during working hours to any workshop or premises not on the site of works where materials may be in preparation or stored for the purpose of this order.

The Contractor if so required by the Superintendent shall give the Superintendent all particulars as to the mode and place of manufacture of any of the materials proposed to be used in connection with this order and shall facilitate in every way in inspection of the same.

1.08 CONTRACTOR'S REPRESENTATIVE

The Contractor or his representative shall have sufficient command of the English language and of Australian building and technical terminology to be able to read, converse and receive instructions in English.

1.09 POWER TO DISMISS MEN

The Superintendent may require the instant dismissal from the works, of any agent, overseer, foreman or other person employed on the works, or in connection with the work, whether employed by the Contractor or not and the Contractor shall immediately comply with or ensure immediate compliance with such requirement and the Contractor shall not again employ a person so dismissed on or in connection with the works.

1.10 INTERPRETATION OF TERMS

Where such phrases as "as may be directed", "to approval", or "approved" etc. are used in this Specification, they shall mean that the direction and approval of the Superintendent is referred to, irrespective of any trade usage.

1.11 STANDARD SPECIFICATIONS AND CODES

Unless otherwise specified, materials, manufactured articles and workmanship shall conform to relative S.A.A. Specifications and Codes.
1.12 INFORMATION NECESSARY FOR QUOTING

Submission of a quotation shall be taken to mean that the Quoter has obtained all information necessary for its accurate preparation.

Before quoting, the Quoter shall visit the site of the works to ascertain the exact nature and extent of work.

No extra will be paid for any item that should reasonably have been foreseen by taking these precautions.

1.13 ACCESS TO SITE

Prior to entering the site of works, the Contractor shall contact the Officer in Charge of the site to explain the nature of the work to be carried out and for permission to enter to carry out this work.

In the event of either, being unable to contact the Administrative Officer, or being refused permission to enter the premises the Contractor shall notify the Superintendent.

Work shall not proceed in such areas until further advised by the Superintendent.

1.14 OBVIOUS WORK

Where a construction or item of work is to be obviously inferred or is usual and proper in the class of work generalised in the Specification, the same is to be included, notwithstanding that such construction or necessary item is not specifically mentioned in this Specification.

1.15 OVERTIME

If it is necessary for the Contractor or any Sub-Contractor to work on other than ordinary working week days or outside normal working hours, the Contractor shall give due notice of the intention to do so and obtain the prior approval of the Superintendent. However, if such work must be undertaken without notice because of an emergency, the circumstances shall be reported to the Superintendent as soon as possible thereafter.

The additional cost of wages and other costs caused by overtime or shift work shall be borne in full by the Contractor, except that the Department will not charge for its supervision.

1.16 COMMENCEMENT OF WORK

See Conditions of Contract, on reverse of quotation form.

At the commencement of work and from time to time, the Contractor shall confer with any Sub-Contractors, persons engaged on separate orders, in connection with the work and with the Superintendent for the purpose of co-ordination and execution for the various phases of the work.

The Contractor shall ascertain from the Sub-Contractor and persons engaged on separate contracts in connection with the work, the extent
1.16 **COMMENCEMENT OF WORK (Cont'd)**

of all chasing, cutting and forming of all openings, holes, grooves etc. as directed.

The Contractor shall ascertain the routes of all services and the position of all floor outlets, traps, etc., in connection with the installation of plant and services and arrange for the construction of work accordingly. The breaking and cutting of complete work must be avoided wherever possible.

1.17 **GENERAL PROVISIONS**

1.17 (a) **Description of Materials**

To facilitate the writing of this Specification and to clearly indicate the type of material or article, the practice has been adopted of specifying items as being a particular maker's brand, trade name or catalogue number.

It must be understood that it is not intended to give any preference to the Manufacturer or Brand mentioned wherever articles or materials are specified and if the Contractor proposed to use substitutes, he must submit samples of full particulars of the articles proposed to be used and the Superintendent shall decide whether or not the proposed substitute may be used. This clause is to be strictly observed.

1.17 (b) **Supply of Materials and Labour**

Unless specified to the contrary, any mention or description in these specifications of materials or fittings or of operations, shall be deemed to mean that the Contractor shall provide each item mentioned or described and shall perform each operation mentioned or called for in buildings in, fixing or installing material or fitting.

1.17 (c) **Fire Precautions**

The contractor will be required to take all necessary precautions to ensure that no fire hazard is created through the carrying out of the work, whether through the storage of inflammable materials or burning of paint pots, rubbish etc. Under no circumstances shall fires be lit before permission is obtained from the Officer-In-Charge of the area.

1.17 (d) **Working Periods on Departmental Contracts**

The Contractors are reminded that the normal working period on Departmental Contracts is a five (5) day week, from Monday to Friday inclusive, from 7.30 a.m. to 4.30 p.m. and excluding gazetted Public Holidays.
1.17 (d) Working Periods on Departmental Contracts (Cont'd)

Should a Contractor wish to carry out any work outside these hours he must obtain written approval from the Superintendent before commencing. Any work executed during overtime hours, for which approval has not been received, may result in the rejection of the work and the contractor will be required to remove and re-execute the work at his own expense.

1.18 WATER

1.18 (a)

Water is available without cost to enable this work to be undertaken. Contractor is to arrange with the Officer-In-Charge as to where it can be obtained and under what conditions.

1.19 SANITARY ACCOMMODATION

The Contractor shall provide adequate and clean sanitary accommodation connected with sewer for use of all persons employed upon the works and clear away and remove such accommodation from site on completion of the Contract.

1.20 LIGHT AND POWER

The Contractor shall install at his own expense, any temporary electric light and power installations required, all in accordance with regulations and pay all charges incurred.

1.21 CO-OPERATION AND MAKING GOOD

The Contractor shall be responsible for arranging that each shall attend upon and assist the other trades. Damage caused in the course of the works shall be made good by the appropriate trades to the satisfaction of the Superintendent.

1.22 DAMAGE TO SERVICES

The Contractor shall contact the Officer-In-Charge of the area, or his representative, before work commences and in-company with the Superintendents Representative check with them the location of all services.

He shall immediately notify the Superintendents Representative and the Officer-In-Charge of the area, in the event of damage to any water, gas, steam, compressed air, electric, drainage, sewerage, telephone, fire alarm, control cable or other services in the area.
1.22 DAMAGE TO SERVICES (Cont'd)

He shall render any assistance required in connection with any such incident, but otherwise work in that vicinity shall be stopped immediately and not recommenced until instructions are received from the Superintendents Representative.

Where the service is indicated on the drawing and/or in the Specification, or is evident on the site, or has been pointed out by the Officer-In-Charge of the area or by the Superintendents Representative, or by a representative of either, the Contractor shall be liable for the cost of any necessary repairs.

Where the Contractor encounters any services, details of which are not given in the drawings and/or specification and which are not evident on the site or which have not been pointed out to him and has carried out his operations with reasonable care, the cost of reinstatement, diversion or other associated work may be paid as an extra to the Contract.

1.23 SALVAGED MATERIAL

Materials salvaged from the work, other than that specified to remain the property of the Superintendent, shall become the property of the Contractor, either for re-use in the work as may be specified, or, if not so re-used, for disposal by the Contractor clear of the site of the works.

1.24 STORAGE OF CONTRACTOR'S MATERIAL

Contractor's materials and plant shall only be stored in the location directed by the Superintendents Representative.

If no storage facilities are available, it shall be the responsibility of the Contractor to provide storage facilities.

All care shall be taken to avoid inconvenience to persons occupying and visiting the premises.

1.25 SITE CONTROL

Note the following:-

1.25 (a)

The Contractor shall observe all rules and regulations in force in the area in which the works are to be carried out and shall comply with all notices and instructions issued by the Superintendent in relation to such Rules and Regulations.

1.25 (b)

Delivery of materials for works, space for storage of same and for building sheds, offices and workshops will be allowed only as arranged between the Contractor and the Superintendent and subject to the approval of the Officer-In-Charge of the area. This information should be sought when visiting the site before tendering.
1.26 PROTECTION AND PROVISION FOR TRAFFIC

The Contractor shall provide all necessary lights, barriers, flags and the like at all times during the Contract period to ensure the safety of all persons, vehicles and animals.

1.27 REMOVAL OF RUBBISH AND FINAL CLEANING UP

The Contractor shall remove all rubbish and debris from the site from time to time as is necessary and as directed.

On completion, the Contractor shall ensure that the premises and/or site are cleaned, surplus materials, debris, etc., removed, areas under floors, cleared of rubbish, all as may be applicable to the work under the Contract, so that the whole is left fit for immediate use and to the satisfaction of the Superintendent.

1.28 PRECAUTIONS IN CARRYING OUT WORKS

In carrying out the work, the Contractor and Sub-Contractors shall comply with all requirements under Acts, Regulations, Ordinances, By-Laws, Orders and Rules and other special requirements of proper Authorities concerning storage, transport and use of materials, plant, equipment, work processes and safety precautions.

Where any current Australian Standard published by the Standards Association of Australia is appropriate to storage, transport and use of materials, plant, equipment, to work processes or to safety precautions, the provisions of such Standard shall be observed except if they conflict with any statutory or special requirements of proper Authority in which case the latter shall apply.

In the absence of any such statutory or special requirements or relevant Australian Standard, the Contractor and all Sub-Contractors shall ensure that suitable procedures are observed and all proper care is taken.

1.29 METRIC MATERIALS OR EQUIPMENT

The Contractor shall make every effort to obtain the materials and goods required for the carrying out of the works in the units of measurement set out in the Contract.

Notwithstanding the last preceding paragraph, if, during the progress of the works the Contractor discovers that any materials or goods are not procurable in the units of measurement set out in the schedule in sufficient time to avoid delay in the performance of the contract, he shall notify the Superintendent in writing and seek his direction.
1.31 PROTECTION OF PROPERTY

For the duration of the contract the Contractor shall take all necessary precautionary measures, and ensure their continued efficiency, to protect all Territory and Commonwealth property, as well as that belonging to, or vested in, statutory authorities and private persons, companies, institutions, clubs, etc., against loss, theft or damage resulting from negligence by the Contractor's personnel or that of his Sub-Contractors and agents. This protection shall apply to the building site as well as adjoining sites and means of access and/or transport.

1.32 PROTECTION OF EQUIPMENT

All equipment, whether supplied under the contract or existing, at the site and surroundings, likely to be damaged or affected by ingress or deposit of foreign matter resulting from the Contractor's operations or those of his Sub-Contractors or agents, shall be protected by the Contractor in an approved manner. Such protection shall be maintained in a satisfactory condition.

It shall be installed in such a manner that the operation of the equipment should this be required to function, is in no way hampered.

1.33 CYCLONE PRECAUTIONS

During the period 1 November to 30 April, the Contractor shall ensure that unfinished work, equipment, sheds, hoardings, materials and any other movable items on the site, are protected, stored, or secured to the extent necessary to ensure that in strong wind conditions they will not be a danger to persons or property because of collapse, movement or any other cause.

1.34 NOTICE TO CONTRACTORS

LODGEMENT OF QUOTATIONS

Quotations shall be enclosed in a sealed envelope endorsed with the name of the work and quotation item number (if any) and lodged at the place named in the advertisement or other invitation for submission of Quotations, by the date and time given, provided that Quotations sent by prepaid post in time to be delivered to the place of lodgement of Quotations in the ordinary course of mail within the time stated for receiving Quotations will be considered.

Notwithstanding the foregoing provision, Quotations received in telegraphic
1.34 NOTICE TO CONTRACTORS (Cont'd)

LODGEメント OF QUOTATIONS

or telexed form at the place named in the advertisement or other invitation for submission of Quotations by the date and time nominated may be admitted for consideration provided that the telegram or telex includes complete details of the quoted price, any qualifications, conditions or alternatives applicable to the Quotation and that the conforming Quotation has been lodged for transmission before the date and time nominated and the details provided in the telegram or telex agree with those in the conforming Quotation. Tenders conveyed orally will not be considered.

Telegraphic or telexed Quotations received after the date and time nominated may be considered only if it can be clearly established that they were lodged with the Postal Authority and under normal circumstances would have been received at the place nominated for receipt of Quotations by the date and time nominated. Quotations lodged through the Quoter's own telex service and received after the date and time specified will not be admitted.

1.35 WORK IN EASEMENTS

During the construction of the works in an easement, drainage reserve or the like, the Contractor shall confine his operations to within the boundaries of such easement or reserve. Any concessions the Contractor may desire outside the abovementioned boundaries to obtain access to the easement or for any purpose shall be obtained by him or at his expense from the property owner or other party concerned. Any agreement reached shall be confirmed in writing and copies forwarded to the Superintendent and the landowner concerned.

On completion of the Contract the easement or reserve and anything pertaining thereto shall be restored as near as possible to the condition prevailing immediately prior to the commencement of these works and to the satisfaction of the owner.

Before final payment is made the Contractor shall, if so requested, produce a written certificate from the landowner stating that all claims for compensation and damages have been paid in full.
SECTION 2.00 - ROADS AND SITWORKS

INDEX OF TECHNICAL CLAUSES

NOTE: This Index refers to the "Standard Specification for Roads and Siteworks" - Edition No. 3 - copies of which are available from this Department on request.

The Contractor shall comply with the sections, as noted below and the inclusions attached.

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Attached are the following inclusions: -

| R3.04 | DISPOSAL OF SURPLUS SPOIL |
| R7.22 | DUMPED ROCK |
INCLUSIONS

Add the following clauses after clause R3.03

R3.04 DISPOSAL OF SURPLUS SPOIL

The Contractor shall dispose of all surplus material as previously specified within 2Km. of the site of the works. The rate for excavation and disposal shall include disposal within 2Km. of the site (Item 1 of the Bill of Quantities.)

In the event that the Superintendent requires the Contractor to dispose of surplus material in excess of 2Km. from the site of the works, the Contractor shall be paid at a rate of km./m³ (Item 2 of the Bill of Quantities.)

All volumes shall be solid measurement excavation and a survey will be carried out after the completion of the Contract to determine the volume of material excavated by the Contractor.

Add the following clauses after R7.21.

R7.22 DUMPED ROCK

Dumped rock will be provided and placed by the Contractor in the location shown on Drawing No. W81-2226 to the satisfaction of the Superintendent. All exposed faces shall be hand packed.

The stone shall consist of sound durable rock obtained from an approved source and shall be reasonably well graded in sizes ranging from 150mm. average dimension to 450mm. average dimension.
SECTION 3.00 STRUCTURAL CONCRETE WORKS

INDEX OF TECHNICAL CLAUSES

NOTE: This Index refers to the "Standard Concrete Specification for Major Works" - issued July 1978, copies of which are available from the Department on request.

The contractor shall comply with the sections as noted below and inclusions attached.

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1. Volume of concrete in floor for each one metre length of box for each cell is 0.18 m³.

2. 0 = Volume of concrete required for two endwalls, cut offs, walls and Aprons for first cell.

3. All concrete shall be Class 15 MPa / 20 mm.

4. 2 No. 10 mm dia reinforcing bars shall be incorporated in the headwall extending 1000 mm into each wingwall.
STANDARD GALV CAP
CORNER POST

STANDARD GATES 1 x 2000, 1 x 900

CONCRETE BLOCK 225 x 600 x 200
WITH A 75 LONG SOCKET TO SUIT THE BOLT.

STREET FRONTAGE

WELDED JOINT
FINISHED JOINT ON SUMP

BRACING TO CORNER POST

GENERAL NOTES
1. ALL POSTS, MAILS, BRACING AND GATES TO BE OF MEDIUM GALVANISED.
2. MESH SHALL BE 25 HEAVILY GALVANISED.
3. ALL CONNECTIONS TO BE MADE WITH STANDARD GALV FITTINGS EXCEPT OTHERWISE NOTED - HINGES, CATCHES ETC. TO BE GALVANISED.
4. JOINTS IN RAILS TO BE MADE ONLY AT POSTS.
5. STANDARD GALV CAPS ARE TO BE FITTED WHERE CORNER E/Gate Posts Project Above The Top Rail Of The Fence.
6. LACING WIRE SHALL BE 15 GALVANISED.
7. POSTS TO BE SET A MINIMUM OF 600 SQM, OR ALTERNATIVELY 250 MM CONCRETE BLOCK 225 X 600 X 200
   8. THE CONCRETE BLOCK MAY BE 150 SQM AND SHALL BE WEATHERED TO SHED WATER AND DRAIN THE POSTS.
   9. THE FENCE SHALL BE CONSTRUCTED ON THE LINES SHOWN ON THE SITE PLAN.
10. IF THE FENCE IS ERECTED ON THE BOUNDARY OF A GOVERNMENT PROPERTY THE OUTER FACE OF THE FENCE SHALL BE TO THE BOUNDARY LINE AND THE POSTS OR REINFORCEMENT LAND IF THE FENCE IS ERECTED ON A GOVERNMENT PROPERTY THE CHAINWIRE MESH SHALL BE ON THE SIDE SHOWN ON THE SITE PLAN OR (IF NOT SHOWN) AS DIRECTED.

STANDARD HEIGHT | 1 MESH WIDTH
|-----------------|-----------------
| 100 mm          | 100 mm          |
| 200 mm          | 100 mm          |
| 300 mm          | 100 mm          |
| 400 mm          | 100 mm          |

CONCRETE BLOCK 225 X 600 X 200
WITH A 75 LONG SOCKET TO SUIT THE BOLT.