MANAGUA, NICARAGUA

OCTOBER 1980

# MAINTENANCE & LOGISTICS ANALYSIS

A.I.D. LOAN No. 524–U–032–RURAL HEALTH SERVICES

JUNTA NACIONAL DE ASISTENCIA Y PREVISION SOCIAL

J.N.A.P.S.

MANAGUA, NICARAGUA, CENTRAL AMERICA

CENTRAL NACIONAL DE INGENERIA Y MANTENIMIENTO

C.N.I.M.

# REPORT ON LOGISTICS AND MAINTENANCE SYSTEMS

PURCHASE OF TOOLS, EQUIPMENT AND SUPPLIES

FOR

THE NATIONAL MAINTENANCE CENTER - SUB-CENTERS

AND

REGIONAL HOSPITALS

A.I.D. LOAN NO. 524-U-032 - RURAL HEALTH SERVICES

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# PREFACE

This report could not have been prepared without the support and assistance of numerous persons at all levels of the Ministry, and A.I.D.. In particular, the staff of (C.N.I.M.) contributed by gathering information and coordinating the numerous activities necessary to prepare such a report. The author worked in close collaboration to prepare this document, which I hope will contribute to improve public health services for the people of Nicaragua. The recommendations were solely prepared by the consultant, and do not necessarily reflect the opinions of anyone else.

## I Statement of Purpose

The overall purpose of this report is to provide an analytical basis in the area of physical management in order to improve decision making in delivery of maintenance services. Physical resources refers to expendable supplies, non-expendable supplies (1) and facilities.

## II. Scope of Analysis

### A. Areas of Services Delivery

The focus of the Planning Project is Extension of Coverage in the following areas of service delivery:

National Center

Sub-Centers

Health Centers

Health Post-Rural

It is known that personnel facilities now operating in these areas are not performing to the capacity of which they are capable. In addition, the Ministry of Health is planning to increase the number of persons and facilities now operating. Therefore, Extension of Coverage means upgrading existing capacities and maintaining expanded capacities at a new and higher level of performance. Focusing on the areas of logistics and maintenance, this report will identify impediments to achieving these objectives and make specific recommendations for overcoming them.

### B. The Logistics and Maintenance Process

#### 1. Logistics

The logistics process embraces the following activities:

Recovery of information on inventories and consumption

Forecasting supply requirements

Procurement of supplies

Storage of supplies

Control (accountability) of supplies

Distribution of supplies

The essence of good logistics service is continuity. It is not enough to make an initial delivery of supplies and equipment. Subsequent deliveries must be made on a regular basis. Since different components (departments, division, offices, and clinical facilities) perform different activities, good communication between these components is necessary for proper sequential performance of logistics activities. The process is one in which each succeeding step depends on the timely performance of the previous one. If these activities are not performed adequately, and in sequence, disruption of the process or errors in judgement will result. For example, if information on inventories and consumption of supplies is not supplied on time, forecasting needs will be made on an inadequate data base. The result may be purchase of supplies which are already in stock or failure to purchase ones which are needed.

2. Maintenance

The maintenance process embraces three echelons:

Preventive Maintenance

Repair Maintnenace

Overhaul Maintenance

Preventive maintenance is a routine of services which the operator of a piece of equipment performs on a regular basis. For example, a person who uses a motorcycle in his work should periodically change the oil, adjust the chain, clean the airfilter and check air pressure in the tires. (Although most people associate preventive maintenance with vehicles, it is equally important for other types of equipment such as laboratory equipment). Repair maintenance occurs when a piece of equipment breaks down and a person with special training and the proper tools is required to re-

place a part or make a major adjustment. In the case of the motorcycle, a mechanic would be required to replace bearings or repair a carburator. Overhaul maintenance takes place when the piece of equipment needs to be rebuilt. This usually requires mechanics with more training and ample tools and work space. Each echelon of maintenance is more expensive than the one below it. The object of preventive maintenance is to avoid the need for repairs, and the object of making prompt repairs is to avoid complete breakdowns which require overhauling. As was the case with the logistics process, good communications between system components is necessary for the maintenance process to function. And here again, continuity of service is the measure of success in the process. The object is the first to prevent breakdowns, and when they do occur return the piece of equipment to use as soon as possible.

The maintenance process is closely inter-related with the logistics process and one cannot function without the other. Items of equipment, including vehicles, spare parts and lubricants, are provided through logistics process. The maintenance process keeps this equipment running so that supplies can be distributed and used properly once they reach their final destination.

C. The Organizational Context

The Ministry's administrative infrastructure embraces five levels:

Central National

Regional

Centros De Salud

Puestos De Salud

Comunidad-Rural

The extension of coverage program will focus primarily on improving the capacity of M.T.C.E. personnel at the community levels to deliver ser-

vices in the areas of primary health care. In order to understand the impact of the logistics and maintenance processes of these levels it is necessary to consider activities and components at all higher levels. Most expendable and non-expendable supplies directly related to the three areas of service delivery will be required at the CENTRAL NATIONAL y CENTROS DE SALUD and community levels. However, substantial amounts of supplies and facilities related to improving logistics, maintenance, and laboratory support will be required at all higher levels.

I now proceed with a brief description of logistics and maintenance activities.

1. Central Level

Departments, divisions, or offices at this level may be categorized as either normative or operational. The first group develops norms and determines policies and the second group carries them out. The principal normative components which affect the logistics and maintenance processes are the Oficina de Planificacion, the Direccion de Servicios Administrativos, and the Direccion de atencion a las Personas.

The principal operational components are, respectively, the Division de Compras y Syministros, and the Departemento de Mantenimiento e Ingenieria.

a. Logistics

The key component in the logistics process at this level is Direccion de Servicion Administrativos. Within it, is the Division de Compras y Suministros which has the almacen Central directly under its control. In terms of the activities of the logistics process, Compras y Suministros is responsible for recovering information, forecasting needs, and preparing the major annual procurement order, which is then sent to the Proveeduria Nacional de la Republica for execution. The Almacen Central is responsible for storage and distribution of supplies, for which it has a fleet of

trucks. Internal control is maintained through a continuous inventory.

b. Maintenance

The Departemento de Mantenimiento e Ingenieriam which is directly under the Division de Hospitales is the component with overall responsibility for maintenance activities. Directly under its control are the taller de Mantenimiento and the Garage de Transporte both located in Managua, Nic. The Taller de Mantenimiento employs 180 persons in the following trades: Bio-Med electrical and electronic appliance repair, x-ray equipment repair, welding, plumbing, carpentry, brick-laying, and painting. The 4 Hospitales in Managua have their own maintenance staffs, so the mission of the Taller de Mantenimiento Central National, is to provide general backup for these facilities. Furthermore, the Taller de Mantenimiento has outreach responsibility for providing maintenance support at all other levels of the system. The Garage de Transporte is responsible for both repair and overhaul maintenance of the Ministry's vehicles. The Garage is also supposed to provide outreach support to the regional and subregional levels.

2. Regional Level

The regions are under the supervision of the Director General de Salud. It is important to note that personnel working in logistics and maintenance at the regional and subregional levels answer to the Chief of the Region and not to the Direccion de Servicios Administrativos or the Departamento de Mantenimiento e Ingenieria at the central level.

Once a supply or piece of equipment is turned over to the region, personnel at the Central Level have no control over how it is processed, used or disposed of.

It is here that the principal logistics and maintenance facilities for the region are located. Although structure and means vary among regions, the following two sections contain representative descriptions of the gen-

eral situation.

a. Logistics

Each hospital Regional has a storeroom within the compound which supplies the hospital's internal needs. In addition, there is a separate warehouse where supplies for the remainder of the regions facilities and personnel are stored for distribution to subregional levels (Hospital de Area, Centro de Salud, Puestos de Salud Rural), when subregional facilities order supplies consumed and quantities on hand. In the same manner, when the Region requests supplies from the Almacen Central, they are supposed to supply consolidated information on consumption and inventories on hand for the entire region.

In the event that a request item is not available at the Almacen Central, the Regional Chief is authorized to make "emergency purchases", locally. The Regional Chief is responsible for making an annual forecast of supply requirements and forewarding it to the Direccion at the Central Level. In summary, all of the logistics process activities performed at the Central Level are also performed at the Regional Level. The most notable difference is that procurement of supplies from outside the system is done on a much more limited basis.

b. Maintenance

Each Hospital Regional has a few tradesmen (the number varies) who are responsible for maintenance. Typically, these would include an electrician, plumber, carpenter, auto mechanic, and janitor. Although practices vary with the region, these workers usually provide for internal hospital needs only. They do not ordinarily service subregional facilities.

III. Comprehensive Review

A. Objectives of the Extension of Coverage Project:

Optimal Utilization of Health Workers, Supplies, and Facilities through Adequate Logistics and Maintenance Support.

The Extension of Coverage Project, will focus on workers and facilities at the

lower levels of the administrative infrastructure-- Auxiliares de Enfermeria, Centros de Salud, and Puestos de Salud, and their voluntary counterparts in the communities. The capacity of these workers to serve the people (provide primary health care, install wells or organize spraying programs) is directly affected by the presence or absence of expendable supplies and functioning equipment.

B. Existing Responses in Logistics and Maintenance by the Ministry of Health

In section II. B., above, the activities necessary for sound logistics and maintenance support were described. In this section, the manner ( as best I understand it) in which these activities are performed will be described and evaluated. The same format will be used in the subsequent section on constraints.

1. Maintenance All Levels

a. Preventive Maintenance

Preventive Maintenance programs for vehicles, equipment and buildings are virtually non-existant at all levels.

There are other types of equipment such as refrigerators and laboratory instruments which also require preventive maintenance. The place to begin developing preventive maintenance programs is in training programs and in general this is not being done.

The second dimension to consider is "What role should the Departmento e Ingenieria play in developing and enforcing preventive maintenance programs?" Ideally, there should be written maintenance routines posted in work areas specifying the services to be performed and presenting a schedule for performing them. This would be followed up by periodic visits by Central or Regional maintenance personnel to insure that the routines are being performed. Neither the written programs, nor the follow-up visits now exist. Personnel in both the Taller de Mantenimiento and the Garage de Transporte have agreed that the

scheme of maintenance schedules and follow-up visits is appropriate, but they feel they lack the resources to develop it at this time.

b. Repair Maintenance

1) National Level

The organizational components at the National Level responsible for repair maintenance are the Taller de Mantenimiento and the Garage de Transporte. Both of these facilities are reasonably well organized internally and their personnel appear qualified, for the most part, to perform their jobs. But, both facilities are located in inadequate buildings, and both are under-equipped to carry out their responsibilities.

The chief of the Taller de Mantenimiento states that they are ready and willing to provide maintenance support to any level of the Ministry's system but they lack tools, a means of transportation and spare parts. For want of these things, the facility is greatly under utilized. On tours of hospitals at the Central and Regional Levels, I saw numerous items of equipment out of commission. The intent to do outreach maintenance support is not lacking at the Taller de Mantenimiento, but the means are. For example, since the Taller has only 6 vehicles assigned, technicians have to take busses, which is difficult when carrying tools and spare parts. In addition, it is difficult to obtain funds.

The biotechnicians face the same problems of lack of equipment and parts. Essentially, they have nothing to work with and their capacity to repair biomedical equipment at the Hospitals is very limited (as evidenced by the amount of equipment out of commission at the hospitals).

The situation at the Garage de Transporte is similar. The chief of the Garage estimates that the Ministry has about 466 vehicles, of which about 200 are out of commission. No precise documentation was available. The Garage is short of tools, and spare parts are also in short supply and difficult to obtain.

Formerly, the garage sent out a mechanic to do preventive and repairs maintenance on the Regional and Subregional levels. This practice has been discontinued because of lack of spare parts. As was the case with the Taller de Mantenimiento the problem is with resources, not intent.

2) Regional and Subregional Levels

Repair maintenance responses at these levels are discouraging. Nor surprisingly, tools and spare parts are lacking, but so is organization. At one region I visited, I found four tradesmen (electrician, plumber carpenter and Mechanic) working totally independently of one another. Whenever a repair has to be made in one of these areas, the tradesman goes directly to the administrator, he is not a specialist in maintenance and has no system for coordinating activities or setting priorities. Furthermore, these tradesmen seldom, if ever, perform repairs outside of the hospital. I visited a Centre-de-Salud located 20 minutes by paved road from a Hospital Regional. There, a new and serviceable electric refrigerator sat unused because a wall socket was out of order. The Auxiliar de Enfermeria apprised me that the Hospital electrician was too busy to come out and fix it. When I made inquiries of the electrician, he told me that he was not responsible for making repairs outside the Hospital. Meanwhile, the chain has been broken.

At Hospitales de Area, all maintenance activities are performed by a general handyman. Typically, he is under equipped and unqualified to perform repair maintenance on equipment of any complexity.

Repair maintenance on refrigeration, laboratory or x-ray equipment would have to be performed by technicians form the Central Level. We have already discussed the difficulties which they have in getting out in the field.

At the Centros y Puestos de Salud level, there are no personnel assigned to perform repair maintenance. When repairs are made, they are done by the medical

staff. As indicated above, preventive maintenance routines do not exist so vehicles, equipment, and buildings at this level are the most susceptible to deterioration.

c. Overhaul Maintenance

This activity can only be performed at the Central Level. There is little to say on the subject at this point in the report. Obviously if the Taller de Mantenimiento and Garage de Transporte lack sufficient tools and equipment to perform repair maintenance, they cannot perform overhaul maintenance either. I would like to observe, however, that if conditions in these workshops improved they could probably perform this maintenance process activity.

C. Constraints Which Prevent Effective Performance of Logistics and Maintenance Process Activities

The previous section described and evaluated the Ministry's responses to the logistics and maintenance processes. In many cases, I have been obliged to conclude that responses are inadequate to support the contemplated Extension of Coverage Project. This section will examine factors which prevent the logistics and maintenance systems from providing better service. Each process actively will be taken in turn and analyzed in terms of one or more of the following constraints:

Inter-institutional

Infrasturctural

Normative

Procedural

Leadership or supervision

Human resources

Material resources

Financial resources

1. Logistics

a. Recovery of Information Inventories and Consumption

Information on Inventories is a variable necessary for forecasting needs. Information on Consumption is used in control of supplies. At present, there is no operational procedure for recovering this information. This is related to the absence of procedural manuals which specify the responsibilities of each functionary performing the activities in the logistics process. The absence of these manuals is particularly constraining because, in infrastructural term, there are actually 8 logistics systems ( 1 Central System and 7 regional systems). A consistent set of procedures for use at all levels is necessary to facilitate the flow of information as well as improve deficiencies in other activity areas.

b. Forecasting Needs

An Extension of Coverage Project will create a greater demand for supplies. At present, there is no normative basis for forecasting needs which embraces all of the variables necessary for making accurate forecasts. Another potential constraint is human resources. Are there in this division capable of managing an adequate programming model? If not, qualified personnel will have to be brought in. To achieve this, strong support of high Ministry officials will be required.

c. Procurement of Supplies

In this activity the main constraint appears to be interinstitutional. Delays in procurement, procurement of supplies which do not meet specifications, and procurement of supplies on disadvantageous terms have been constantly mentioned. The problem is very serious because it may affect internal operation of the logistics and maintenance processes and because, for the moment at least, there appears to be no way to resolve it.

2. Maintenance

In contrast to the Logistics Process, the Maintenance Process Embraces a more discreet set of activities and these activities are performed by a smaller number of organizational components. This puts the maintenance process into something of an "all or nothing" situation. Properly supported, the Taller de Mantenimiento and Garage de Transporte have the potential to make great improvements in the areas of both Logistics and Maintenance. Without support, there is little they can do except be frustrated.

The Departamento de Mantenimiento e Ingenieria is also constrained by its position in the Ministry's administrative infrastructure. Given the close relationship between the logistics and maintenance processes, it would be more efficient to place this department in the Dirreccion de Services Administrativos. This would improve general coordination of the two processes and hopefully it would provide the Department with more support for defending its budget.

a. Preventive Maintenance

Problems in this activity have been anticipated but they are difficult to classify in terms of the list of constraints I have been using. In my opinion, the real source of the problem is a lack of appreciation throughout the Ministry of the importance of Preventive Maintenance. Beyond this are procedural constraints of the absence of written guides and the general absence of preventive maintenance in training curricula. If I assume that Departamento de Mantenimiento e Ingenieria will take the lead in developing preventive maintenance schedules, we must still recognize that they have limited human resources with which to follow them up. Furthermore, they have no authority to oblige personnel to take care of their equipment. If immediate supervisors do not support such programs they will not succeed.

b. Repair Maintenance

Material constraints in the form of inadequate buildings and insufficient tools and spare parts impede the capacity of the Taller de Mantenimiento and Garage de Transporte to peform this process activity effectively at the Central Level or provide outreach support to lower levels of the system. Underlying this is the financial constraint. Even if money and supplies were not a problem, maintenance effort would be hampered by procedural and inter-institutional constraints connected with acquiring spare parts through Proveeduria Nacional. We regard an effective maintenance system as critical to the success of the Extension of Coverage Project, and because I feel this will probably be the most difficult area to make progress in.

At the Regional and Subregional levels, we can cite human, material, and financial resources constraints. So many examples of repair problems at these levels have been given that it is not necessary to provide more. There are also supervisory and infrastructural constraints which minimize the positive impact of what few maintenance resources there are. The typical lack of organization among maintenance personnel was discussed. Equally disturbing is the lack of an outreach responsibility for these tradesmen. Extension of Coverage will increase traffic through THE RURAL AREAS and the absence of maintenance support will limit the capacity of these facilities to deliver service.

c. Overhaul Maintenance

If the responses to repair maintenance are constraints by financial and material resources, then obviously the case will be the same for overhaul maintenance.

IV. General Considerations

Throughout this report, I have attempted to provide detailed information and specific suggestions on activities, responses and constraints in the logistics and maintenance processes. Before making specific recommendations for improve-

ment, however, it is appropriate to set the stage with some observations on the environment in which these processes operate.

A. The Cultural Value of Logistics and Maintenance

An Auxiliar de Enfermeria busily innoculating children in a vaccination campaign, or Promotor de Salud arriving at a rural community in a pickup truck laden with pipes and pumps are highly visible people, performing culturally esteemed activities. When people conceptualize the Extension of Coverage Project, these are the images which come forth. Far from most minds, however, is the unseen refrigerator which make a vaccination campaign impossible, or the mechanic in his workshop who does the routine work which enables the Promotor to deliver his supplies. Activities like maintaining equipment, managing warehouses, or keeping accurate records on the flow of supplies have almost no cultural value. That this is true, is reflected in the general state of affairs in the Logistics and Maintenance system. Yet timely performance of these mundane tasks are preconditions to the success of the Project. Decision makers in the Ministry should reassess their attitudes towards logistics and maintenance and exert leadership in creating a sense of value for these activities and the people who perform them.

B. Compartmentalization in the Ministry's Administrative Structure

At the moment, the Ministry's administrative infrastructure is highly compartalized.

V. Recommendation Concerning Norm, Procedures, and Organization

This section is divided into 2 parts: Specific recommendations concerning the logistics system and specific recommendations concerning the maintenance system. That discusses commodity inputs and financial alternatives for upgrading logistics and maintenance services.

A. The Logistics System

1. The Direccion de Servicios Administrativos should be given explicit

supervisory authority over all activities in the logistics process at all levels of the Ministry's administrative infrastucture. The Direccion should assume leadership in developing a complete set of norms and operational procedures, in other words, a logistics system design.

2. It is finally recommended that the Ministry accept technical assistance in the area of logistics. The multiple activities required to create an effective logistics system are too time consuming for Ministry functionaries to perform while going ahead with their regular job. An outside consultant has the advantage of being able to coordinate effort among several components across administrative boundaries. The person for this position should have field experience in rural health projects, be technically knowledgable in all activities of the logistics process and have a practical implementation, rather than a theoretical orientation. A period of 18 to 24 months of technical assistance is recommended.

B. The Maintenance System

1. Early in this report, I noted the close interrelationship between the logistics and the maintenance system. At the moment, they are functioning completely independently of each other, the one overseen by the Direccion de Servicios Administrativos and the other by the Direccion de Atencion a las Personas. I recommend that consideration be given to transferring the Departamento de Mantenimiento e Ingenieria to the Direccion de Servicios Administrativos. I feel that this would have the following advantages:

a) In the concluding section of this report, I am going to recommend that substantial amounts of commodities (tools and equipment) be provided to upgrade the Department's capacity in repair maintenance. If the desired result is achieved and equipment and vehicles move back into circulation, close coordination with the logistics system will facilitate redistribution of these vehicles.

b) One of the Department's most serious problem is its incapacity to

obtain spare parts and tools. While the ultimate sources of this problem are lack of funds and inadequate service from the Proveeduria Nacional, it is hoped that by transferring the department to the Direccion de Servicios Administrativos, greater significance will be attached to its mission and the integrity of its budget will be better defended. Furthermore, Mantenimiento e Ingenieria would have a closer relationship with Compras y Suministros, which would facilitate procurement of maintenance related supplies.

2. Presently, the Departamento de Mantenimiento e Ingenieria has no fund for "emergency purchases" comparable to the ones which the Jefes Regionales have. This leaves it with virtually no flexibility when requests for urgent repairs come in. I recommend that such a fund be established.

3. Though the Departamento de Mantenimiento e Ingenieria is responsible for providing maintenance support to facilities at all levels of the system, they should have more assigned. To them this is a serious lapse of judgement on someone's part. It is recommended that at least 9 pickup trucks be assigned to provide this department with the mobility it needs to do its job.

4. The Departamento de Auditoria Interna is now in possession of files on the Ministry's nonexpendable supplies by location. If my recommendations on vehicles commodities for the Departamento de Mantenimiento e Ingenieria are accepted, this component (hopefully) will be in a position to mount a systematic repair campaign.

Accordingly, it is recommended that the Department work closely with the Auditoria Interna to locate deadlined equipment and establish priorities for repair maintenance.

5. I noted that maintenance personnel at the Regional Level were generally disorganized. The Departamento de Mantenimiento e Ingenieria is the logical place from which leadership should come to improve this situation. It is recommended that outreach teams be established to go out to the regions and

organize maintenance personnel. This makes more sense in light of the fact that we are also recommending that the project provide tools and equipment at the Regional Level. If personnel are not presently available to perform this task, consideration should be given to providing them.

6. The absence of Preventive Maintenance Programs. It is recommended that Preventive Maintenance be included in the training curricula of all functionaries. In addition, written schedules of preventive maintenance services need to be prepared for a wide variety equipment. Again, it is recommended that the Departamento de Mantenimiento assume leadership in this area. This activity, too, would require additional personnel.

7. The Departmento de Manteniniento e Ingenieria has a training program in maintenance of hospital equipment. My evaluation of the curriculum is that it is adequate. The program does suffer from limited material resources in terms of insufficient tools and lack of pieces of equipment on which to train students. Since hospitals at all levels have an abundance of non-functioning equipment, I recommend that the Division de Hospitales and Jefaturas Regionales release some of these pieces for use in the training program. (What do they have to lose? The equipment is not working anyway). I presume that this would require a directive from the Direccion de Salud. In the following section of this report I am going to recommend providing tools and electronic equipment through the Project Loan agreement, to the training program.

8. The cumulative of my recommendations in the area of maintenance implies a much larger operation than presently exists. I am recommending an increased volume of work and additional personnel. If this comes to pass, I feel that technical assistance will be necessary in this area. The person for this position should have a technical background in 1 or more maintenance areas and administrative and organizational experience. I am suggesting a person who is primarily a manager, not just a mechanic or engineer. A period of 18 to 24 months of technical assistance is recommended.

INFORMACION COMPLEMENTARIA

AL INFORME COMPONENTE III

PRESTAMO A ID-524-U-032

CENTRALES

Los tallers del Mantenimiento del Ministerio de Salud, seran trasladados de lugar en el ano proximo.

El lugar donde se encuentran actualmente, es sismico y no permite suficiente seguridad, por lo tanto se ha considerado trasladar todo Mantenimiento a un area donde fue el Antiguo Aeropuerto Xolotlan. En este lugar quedaran los talleres conforme nueva planificacion.

FINANCIAMIENTO DE ESTAS NUEVAS INSTALACIONES:

Algunos talleres, seran financiados por medio del Componente III Prestamo A ID-524-U-032 como son:

Electricidad y Devanado

Aire Acondicionado y Refrigeracion.

Mecanica Automotriz

Fontaneria y Mecanica Hospitalaria (Industrial)

Albanileria y Obras Civiles.

Carpinteria y Tapizado.

Taller de Diagnostico Automotriz.

Bodaga de Mantenimiento (Repuestos)

Servicios Higienicos, Vestuarios.

Los Otros Talleres:

Electromedicina

Soldadura y Torno

Pintura

Costura

Lavanderia

Sala de Maquinas

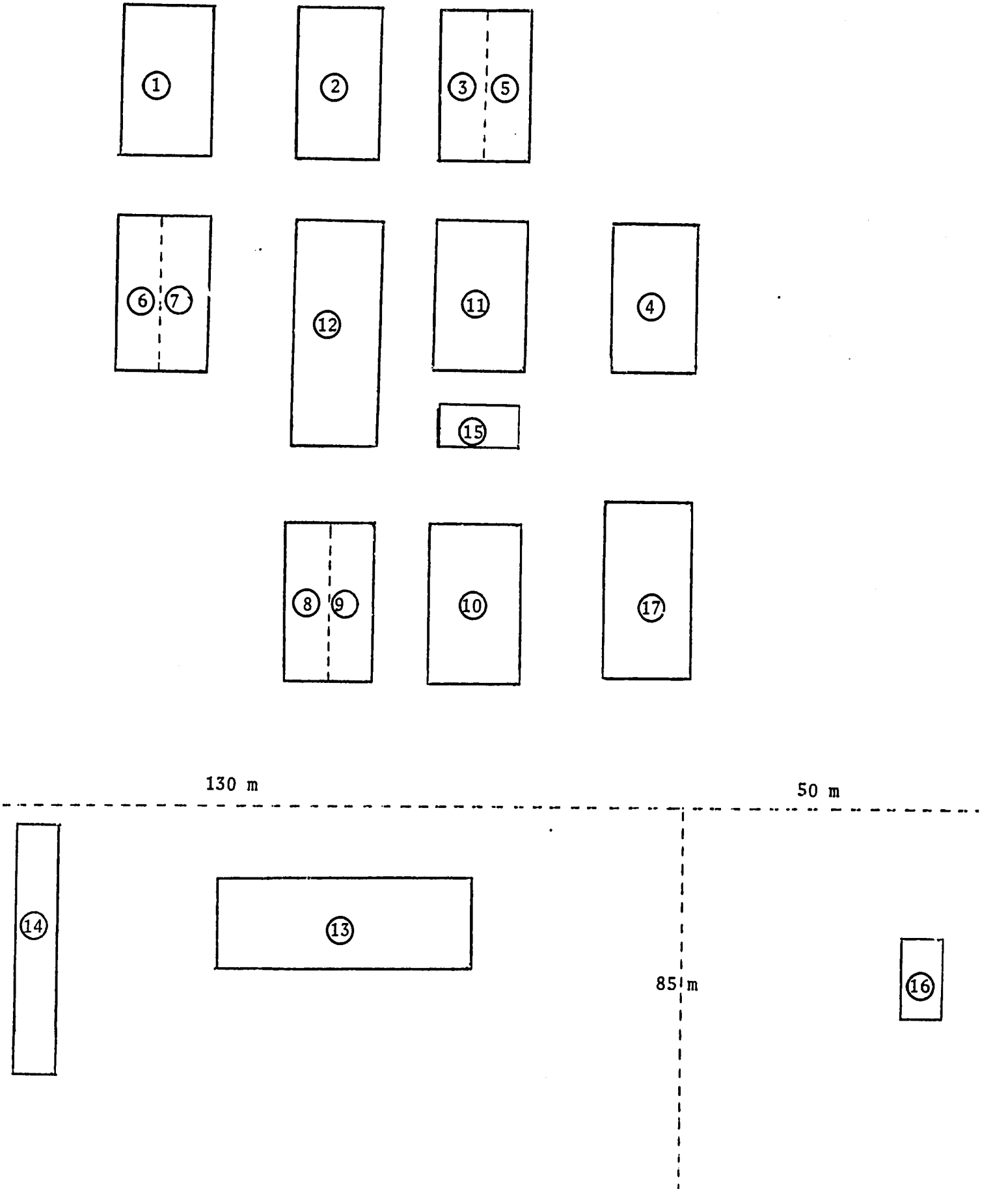
Oficinas Administrativas

Gasolinera

Sera construidos con fondos del Ministerio, considerando que los fondos del prestamo no son suficientes para cubrir estas construcciones.

Distribucion de Los

Talleres de Mantenimiento



| Regional | Leon - Chinandega Hospitales: |
|---|---|
| 1 | Hospital Escuela Leon |
| | Hospital San Vicente Leon |
| | Hospital Rosario Lacayo Leon |
| | Hospital Chinandega |
| | Hospital Corinto |
| | Hospital Mina Limon |
| | Hospital San Antonio |
| | Sub-Centro Leon |
| 2 | Managua Hospitales: |
| | Hospital Velez Paiz |
| | Hospital Manolo Morales |
| | Hospital Bertha Calderon |
| | Hospital Lenin Fonseca |
| | Hospital Psiquiatrico |
| | Hospital Dermatologico |
| | Hospital Aldo Chavarria |
| | Hospital Ocon |
| | Hospital Nacional del Nino |
| | Sub-Centro Militar |
| 3 | Granada-Rivas-Masaya-Carazo Hospitales: |
| | Hospital Jinotepe |
| | Hospital Diriamba |
| | Hospital Nandaime |
| | Hospital Rivas |
| | Hospital Granada |
| | Hospital Masaya |
| | Sub-Centro Jinotepe |

| Regional | |
|---|---|
| 4 | Esteli-Nuevas Segovia-Madriz Hospitales: |
| | Hospital La Trinidad |
| | Hospital Esteli |
| | Hospital Somoto |
| | Hospital Ocotal |
| | Hospital Jalapa |
| | Hospital Wiwili |
| | Sub-Centro Esteli |
| 5 | Matagalpa-Jinotega Hospitales: |
| | Hospital Matagalpa |
| | Hospital Aranguez |
| | Hospital Matiguaz |
| | Hospital Jinotega |
| | Hospital Waslala |
| | Sub-Centros Matagalpa |
| 6 | Boaco-Chontales-Rio San Juan Hospitales: |
| | Hospital Juigalpa |
| | Hospital Boaco |
| | Hospital San Carlos |
| | Sub-Centro: Juigalpa |
| 7 | Zelaya Norte Hospitales: |
| | Hospital Puerto Cabezas |
| | Hospital Siuna |
| | Hospital Bonanza |
| | Hospital Rosita |
| | Hospital Wilbascarma |
| | Sub-Centro: Bluefields |

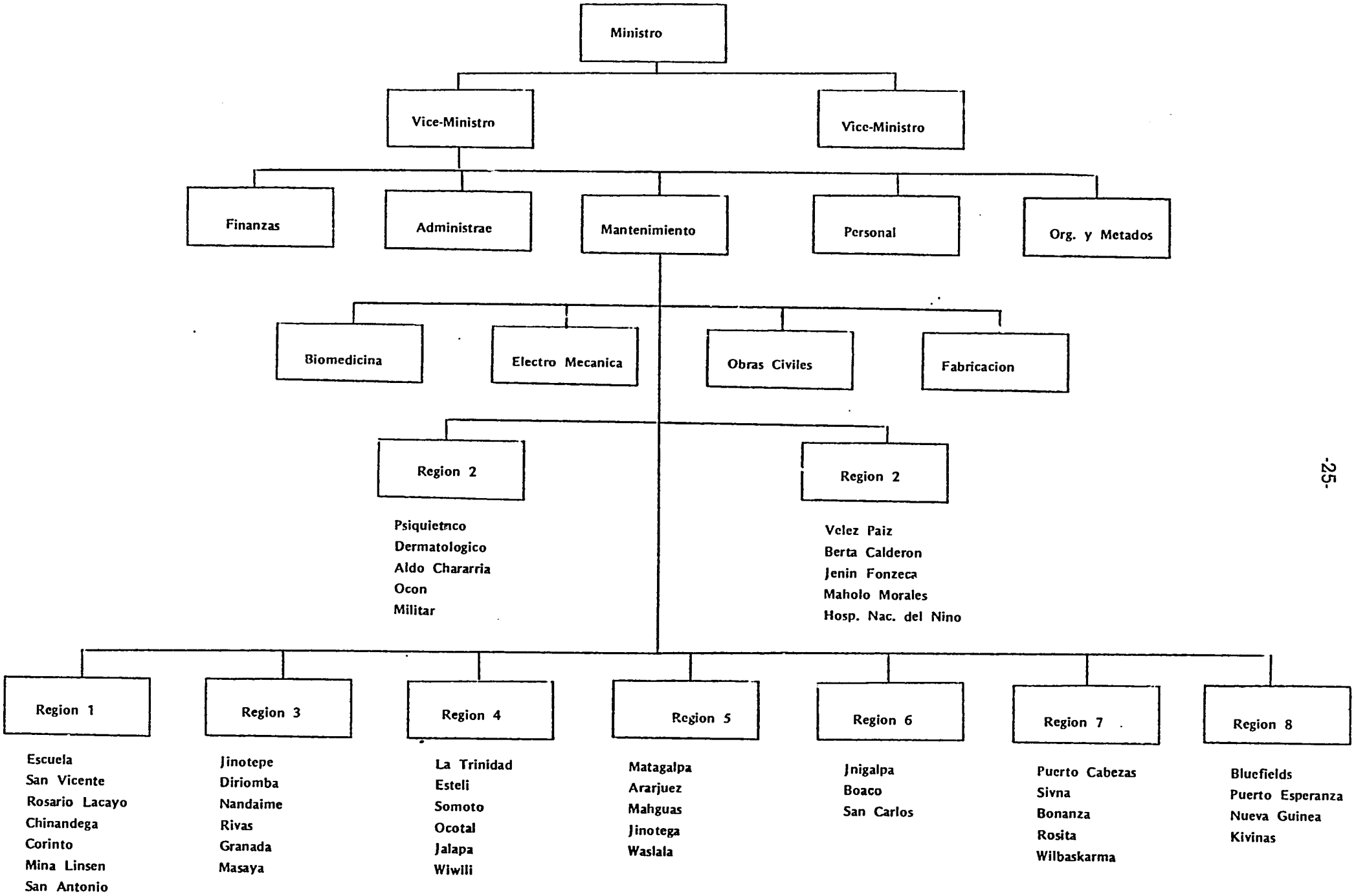
| Regional | |
|---|---|
| 8 | Zelaya Sur Hospitales: |
| | Hospital Bluefields |
| | Hospital Puerto Esperanza |
| | Hospital Nueva Guinea |
| | Hospital Kiriwas |
| | Sub-Centro: Bluefields |

## ACLARACION TALLERES

| | | |
|---|---|---|
| 1 | Electromedicina | 375 $m^2$ |
| 2 | Refrigeracion | 375 $m^2$ |
| 3 | Fontaneria y Mecan Hospital | 187.5 $m^2$ |
| 4 | Carpinteria | 375 $m^2$ |
| 5 | Electricidad y Devanado | 187.5 $m^2$ |
| 6 | Soldadura y Torno | 187.5 $m^2$ |
| 7 | Pintura | 187.5 $m^2$ |
| 8 | Albanilena y Obrasciviles | 187.5 $m^2$ |
| 9 | Costura y Tapicena | 187.5 $m^2$ |
| 10 | Lavandena | 450 $m^2$ |
| 11 | Sala de Magisinas | 375 $m^2$ |
| 12 | Oficinas Administr y Direcaon | 540 $m^2$ |
| 13 | Taller Automotriz | 660 $m^2$ |
| 14 | Taller de diagnostico Automotriz | 315 $m^2$ |
| 15 | Servicios Sanitanos y Vestuario | 112.5 $m^2$ |
| 16 | Gasolinera | 90 $m^2$ |
| 17 | Bodega Mantenimento de repuestos y materiales | 540 $m^2$ |

Terreno disponible:

Approx 180 m x 400 m


Ministro
Vice-Ministro
Vice-Ministro
Finanzas
Administrae
Mantenimiento
Personal
Org. y Metados
Biomedicina
Electro Mecanica
Obras Civiles
Fabricacion
Region 2
Psiquietrico
Dermatologico
Aldo Chararria
Ocon
Militar
Region 2
Velez Paiz
Berta Calderon
Jenin Fonzeca
Maholo Morales
Hosp. Nac. del Nino
Region 1
Escuela
San Vicente
Rosario Lacayo
Chinandega
Corinto
Mina Linsen
San Antonio
Region 3
Jinotepe
Diriomba
Nandaime
Rivas
Granada
Masaya
Region 4
La Trinidad
Esteli
Somoto
Ocotal
Jalapa
Wiwili
Region 5
Matagalpa
Ararjuez
Mahguas
Jinotega
Waslala
Region 6
Jnigalpa
Boaco
San Carlos
Region 7
Puerto Cabezas
Sivna
Bonanza
Rosita
Wilbaskarma
Region 8
Bluefields
Puerto Esperanza
Nueva Guinea
Kivinas

## MONTO ESTIMADO PARA LA CONSTRUCCION DE LOS TALLERES EN LA CENTRAL DE MANTENIMIENTO "EL RETIRO"

| NOMBRE DEL TALLER | AREA ESTIMADA | COSTO/$M^2$ | PRECIO ESTIMADO |
|---|---|---|---|
| Electricidad y Tornado | 187,5 $M^2$ | $ 370.00 | $ 69,375.00 |
| Aire acondicionado y Refrigeración | 187,5 $M^2$ | $ 385.00 | $ 72,187.50 |
| Mecánica Automotriz | 634,5 $M^2$ | $ 270.00 | $171,315.00 |
| Fontanería y Mecánica Industrial | 187,5 $M^2$ | $ 400.00 | $ 75,000.00 |
| Albañilería y Tareas Civiles | 200 $M^2$ | $ 380.00 | $ 76,000. |
| 6 (seis) servicios sanitarios, incluyendo duchas y baños techados..... | 36 $M^2$ | $1,000.00 | $ 36,000.00 |
| Taller Carpintería y tapizado | 187,5 $M^2$ | 385.00 | $ 72,187.00 |
| Taller Servicios generales (taller gasolinera) | 315 $M^2$ | 270.00 | $ 85,050.00 |
| Bodega de Mantenimiento. | 519,7 $M^2$ | 400.00 | $207,885.00 |
| TOTAL ESTIMADO..... | | | $1865,000.00 |

Marzo 6/80

"AÑO DE LA ALFABETIZACION"

Best Available Document

## P R O T E C C I O N

| NOMBRE | AREA | COSTO/L | PRECIO |
|---|---|---|---|
| Cerca protectora construida con tubos de acero y malla 8' de alto | 200m/l | 541.90m/l | 108.380.00 |

## I L U M I N A C I O N

| | | | |
|---|---|---|---|
| 10-Luminarias de mercurio alta presión 250 W con brazo | 2.5m/l | 3.750.00 | 37.500.00 |
| 10-Postes de concreto 30' de alto | | 536.00 | 5,360.00 |
| Cable de protura 3 X #10 | 300m/l | [illegible]29.20 | 8,760.00 |
| | | TOTAL..... | 150.000.00 |

Provided by the Development Best Available Document

VEHICULOS:

Vehículos del tipo doble cabina con tina para traslado de personal de Mantenimiento Preventivo y Materiales en las Zonas y los Supervisores regionales:

| | | | | |
|---|---|---|---|---|
| 1 | Camioneta de Tina y Doble Acabina. | Zona A) León, Chinandega | 155.000.00 | 155.000.00 |
| 1 | Camioneta de Tina y Doble cabina. | Zona B) Masaya, Carazo, Granada, Rivas. | 155.000.00 | 155.000.00 |
| 1 | Camioneta de Tina y Doble cabina | Zona C) Boaco, Chontales, y Río San Juan | 155.000.00 | 155.000.00 |
| 1 | Camioneta de Tina y Doble Cabina | Zona D) Matagalpa, Jinotega | 155.000.00 | 155.000.00 |
| 1 | Camioneta de Tina y Doble Cabina. | Zona E) Estelí, Nva. Segovia y Madriz. | 155.000.00 | 155.000.00 |
| 1 | Camioneta de Tina y Doble Cabina. | Zona F) Zona Zelaya Norte | 155.000.00 | 155.000.00 |
| 1 | Camioneta de Tina y Doble Cabina. | Zona G) Zona Zelaya Sur | 155.000.00 | 155.000.00 |
| 1 | Camioneta de Tina y Doble Cabina. para Supervisión | Zona A,B,C ) | 155.000.00 | 155.000.00 |
| 1 | Camioneta de Tina y Doble Cabina. para Supervisión. | Zona B y C. ) | 155.000.00 | 155.000.00 |
| 9 | | | 1.395.000.00 | 1.395.000.00 |

Proposed Central Maintenance Shop
Tools and Equipment

| | | |
|---|---|---|
| Refrigeration | $11,118.42 | |
| Electrical | 17,727.24 | |
| Mechanical | 49,312.62 | |
| Electro-Medical | 50,678.96 | |
| Revision. Additional Tools and Equipment for Central Work Shops | | |
| Machinist. Lathe 16" inch/metric Model Harrison - Complete | $29,972.40 | |
| Automotriz. Boxford Lathe 10 inch | 6,778.08 | |
| Sub-Total | | $ 165,587.72 |
| Additional tools and equipment to supply and furnish Central Work Shops and all Trades not supplied before: | | |
| Machinist<br>Automotriz<br>Carpenters<br>Masons<br>Industrial<br>Plumbers<br>Upholster<br>Welders<br>Training Aid Equipment | (See Attached Sheets for prices) | |
| Total for tools and equipment = Sub-total | | $ 146,642.10 |
| TOTAL | | $ 312,229.82 |

| Raginas | Catalogo Brodhead-Garret 1978-1979 49th' | | Central |
|---|---|---|---|
| 96 | Boxford Brecision lathe model 500 | Stoch | US$ |
| " | Swing over bed 18" | | |
| " | Distance between centres 26" | 125462 | 2,994.00 |
| 97 | Steady rest 1/4" to 2 1/2" capacity | 125513 | 51.55 |
| " | Follow rest 1/4" to 1 1/2" capacity | 125524 | 30.35 |
| " | Slutted face plate 8 7/8" dia. | 125535 | 45.50 |
| " | Lever uperatet double tool cross slide | 125500 | 227.40 |
| " | Six station shanks | 125608 | 724.55 |
| " | Multi-size collat chuck 1 1/2" cap. | 125619 | 394.10 |
| " | | 125620 | 90.95 |
| " | | 125630 | 295.00 |
| " | | 125652 | 180.00 |
| " | | 125663 | 135.00 |
| " | | 125674 | 185.00 |
| " | | 125685 | 195.00 |
| " | | 372050 | 68.00 |
| " | | 372060 | 68.00 |
| | (1978 tool prices) | | $ 5,648.40 |
| | 20% contingency | | 1,129.68 |
| | TOTAL | | $ 6,778.08 |
| 98 | Harrison 16" inch/metric lathe | | |
| " | Swing over bed 16 1/2" | | |
| " | Distance between centers 60" | 341460 | 10,995.00 |
| " | Complete hydrahlic tracing eg. | 341493 | 4,775.00 |
| " | | 341511 | 200.00 |
| " | | 341522 | 285.00 |
| " | | 341533 | 495.00 |
| " | | 341544 | 655.00 |

Reginas

| | | |
|---|---|---|
| 98 | 341555 | 750.00 |
| " | 341566 | 895.00 |
| " | 341577 | 240.00 |
| " | 341588 | 385.00 |
| " | 341599 | 110.00 |
| " | 341606 | 160.00 |
| " | 341617 | 125.00 |
| " | 341628 | 160.00 |
| " | 341639 | 135.00 |
| " | 341640 | 186.00 |
| " | 341650 | 266.00 |
| " | 341661 | 595.00 |
| " | 341672 | 595.00 |
| " | 341683 | 485.00 |
| " | 341694 | 504.00 |
| " | 341701 | 185.00 |
| " | 341712 | 300.00 |
| " | 341723 | 95.00 |
| " | 341734 | 1,375.00 |
| " | 341745 | 225.00 |
| " | 341756 | 65.00 |
| " | 341767 | 92.00 |
| " | 341778 | 34.00 |
| " | 341789 | 35.00 |
| | | $ 24,977.00 |
| | 20% contingency | 4,995.40 |
| | Total | $ 29,972.40 |

Reginas

| | | | | |
|---|---|---|---|---|
| 43 | | Band sawa 24" | 432890 | $ 2,275.00 |
| 42 | | Bointer 12" | 413476 | 2,370.00 |
| 45 | | Rock well 12" radial arm saw 200 w. 3 Ph. 2 UP. | 110356 | 795.00 |
| 246 | (1) | Automotive tool storage cabinet cabinet with set of 463 tools | 458899 | 3,112.00 |
| 245 | (1) | Electricity tool storage cabinet Mod. TM 13 CT with all tools | 458811 | 3,788.00 |
| 243 | (2) | Metal working tool storage cabinet Mod. TM 11 CT with tools | 458665 | 5,770.00 |
| 242 | (3) | Wood working tool storage cabinet Mod. TM 10 CT with tools | 458632 | 27,479.00 |
| 248 | (2) | Power technology tool storage cabinet Mod. TS 16 CT with tools | 458950 | 6,966.00 |
| 261 | (2) | World of manufacturing tool storage | 472416 | 7,384.00 |
| 573 | (6) | Power Mechanics Bench PM 2 B | 471088 | 5,812.00 |
| 585 | (1) | Programmed Scopeless Engine Analysen | 370836 | 1,595.00 |
| 593 | | Hand operated press and accessories | 189344 | 2,825.00 |
| 605 | | Hunter multo-service lift-rack group | 323094 | 5,957.90 |
| 654 | (10) | Wright combination tool set 128 pieces | 193440 | 3,180.50 |
| 513 | | Refrigeration and air conditioning training unit Model P 950 LE | 443219 | 4,300.00 |
| 289 | (4) | Bic Appliance Repair Bench Model AR 26 | 471077 | 3,932.00 |
| 362 | (2) | Two year electronics consule power y metering package AM 4010 with bench | 015467 | 5,670.00 |
| 373 | (5) | Electrical work benches model ET 825 PW | 156537 | 2,885.00 |

CATALOGO

Mc MASTER-CARR

| | | | | |
|---|---|---|---|---|
| 1632 | (20) | Carpenter's tool kit | 6553 A14 | 3,300.00 |
| 1630 | (40) | Wood workers tool sits 37 piece | 7283 A14 | 7,320.00 |
| 1625 | (20) | Elect. tool kit 121 piece | 6554 A11 | 8,100.00 |
| 993 | (15) | 2 HP portable compressors | 4300 K31 | 6,415.35 |
| 997 | (15) | Filter regulator labricator | 4957 K23 | 970.00 |
| | | 1978 catalog prices | | $122,201.75 |
| | | 20% contingency | | 24,440.35 |
| | | Total | | $146,642.10 |

Proposed National Central Maintenance Shops in Managua, Nic.
Old Airport Site.

Construction of seven new work shops
One warehouse
Six rest-rooms with showers

| | | | |
|---|---|---|---|
| Electrical | $ 6,937.50 | | |
| Refrigeration, A.C. | 7,218.75 | | |
| Mechanical Automotriz | 17,131.50 | | |
| Plumber Industrial Mech. | 7,500.00 | | |
| Mason - Common Labor | 7,600.00 | | |
| Six rest-rooms with showers | 3,600.00 | | |
| Carpenter & Upholstery | 7,218.70 | | |
| Gasoline Service Station | 8,505.00 | | |
| Warehouse | 20,788.50 | | |
| Sub-total | | $86,499.95 | |
| Security Protection: | | | |
| Fencing & Yard lights | | | |
| Fence | $10,838.00 | | |
| Ten-250-watt mercury lights | 3,750.00 | | |
| Ten 30-Ft. high concrete posts | 536.00 | | |
| Cable | 876.00 | | |
| Sub-total | | $ 16,000.00 | |
| TOTAL | | $102,499.95 | |
| Construction of work shops and Protection | | | $ 102,499.95 |
| Tools, Equipment, Central work shops | | | $ 312,229.82 |
| GRAND TOTAL | | | $ 414,729.77 |

[illegible] EQUIPMENT AND SUPPLIES — CENTRAL MECHANICA



| QTY. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE | EXTENSION PRICE |
|---|---|---|---|---|---|
| 2 | Dry Chemical fire extinguishers | 9GT5809C | Sears Craftsman | 56 80 | 113 60 |
| 3 | H.D. Bench Vise | 9GT5181 | " | 67 35 | 202 05 |
| 2 | Clamp-Vise | 9GT5247 | " | 7 60 | 15 20 |
| 2 | Versatil portable vise | 9GT5179 | " | 38 25 | 76 50 |
| 3 | Home-N-Shop Vacs 2 1/2 Inch Diam. | 9GT1787N | " | 113 85 | 341 55 |
| 3 | Extension for 9GT1787N | 9GT16964 | " | 6 80 | 20 40 |
| 3 | Attachment set for 9GT1787N | 9GT16973 | " | 6 80 | 20 40 |
| 3 | Flexible Hose " " | 9GT17818C | " | 9 70 | 29 10 |
| 2 | Auto Attachement for " | 9GT16978 | " | 3 65 | 7 30 |
| 3 | Wet Nozzle " " | 9GT17817 | " | 7 90 | 23 70 |
| 1 | Dry Nozzle " " | 9GT16925 | " | 7 70 | 23 10 |
| 3 | Adapter " " | 9GT16976 | " | 1 65 | 4 95 |
| 1 | Attachment " " | 9GT16975C | " | 27 60 | 27 60 |
| 2 | Bench Grinder | 9GT1945L | " | 165 60 | 496 80 |
| 2 | 295 Amp. AC Expanded Range ARC Welder | 9GT20139N | " | 211 60 | 423 20 |
| 2 | Wheel Kit for 9GT20139N | 9GT20692 | " | 10 60 | 21 20 |
| 6 | Weld Cleaner With Wire Brush | 9GT2074 | " | 9 80 | 58 80 |
| 2 | ARC Weld it Yourself Manual | 9GT20256 | " | 1 00 | 2 00 |
| 6 | Conventional Electrodes 3/32" x 14 Inch | 9GT20273C | " | 33 35 | 200 10 |
| 6 | " " 1/8 x 14 Inch | 9GT20274C | " | 21 85 | 131 10 |
| 3 | Contact Type Electrodes 1/8 x 14 Inch | 9GT20284C | " | 21 90 | 65 70 |
| 3 | Electrode Holder | 9GT2071 | " | 10 35 | 31 05 |
| 3 | 25-FT Extension Power Cord | 9GT20699 | " | 39 70 | 119 10 |
| 3 | Two-Stage OXY- Acetylene Outfit | 9GT5441C | " | 184 00 | 552 00 |

* NOTE: Item # 9GT1945L has been replaced by 9GT1936

LIST OF TOOLS, EQUIPMENT AND SUPPLIES

CENTRAL MECHANICA



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE | | EXTENDED PRICE | |
|---|---|---|---|---|---|---|---|
| 1 | Two - Stage Welding Torch Alone | 9GT54406 | Sears Craftsman | 35 | 65 | 35 | 65 |
| 1 | " " Cutting Attachment Alone | 9GT54407 | " | 36 | 80 | 36 | 80 |
| 1 | " " Oxigen Regulator Alone | 9GT54302 | " | 54 | 05 | 54 | 05 |
| 1 | " " Acetylene Regulator Alone | 9GT54303 | " | 56 | 35 | 56 | 35 |
| 1 | Welding Tips for 9GT54401 | 9GT54441 | " | 6 | 80 | 40 | 80 |
| 1 | " " " " | 9GT54442 | " | 6 | 80 | 40 | 80 |
| 1 | " " " " | 9GT54443 | " | 6 | 80 | 20 | 40 |
| 1 | " " " " | 9GT54444 | " | 6 | 80 | 20 | 40 |
| 1 | " " " " | 9GT54445 | " | 6 | 80 | 20 | 40 |
| 1 | Cutting Tips for 9GT54402 | 9GT54451 | " | 7 | 35 | 44 | 10 |
| 1 | " " " " | 9GT54452 | " | 7 | 35 | 44 | 10 |
| 1 | " " " " | 9GT54453 | " | 7 | 35 | 44 | 10 |
| 3 | " " " " | 9GT54454 | " | 7 | 35 | 22 | 05 |
| 3 | " " " " | 9GT54455 | " | 7 | 35 | 22 | 05 |
| 2 | Trucks for Gas Cylinders | 9GT54298 | " | 35 | 60 | 71 | 20 |
| 2 | Spark Lighters | 9GT5440 | " | 0 | 60 | 1 | 20 |
| 6 | Extra Flints for 9GT5440 | 9GT54405 | " | | 05 | 3 | 90 |
| 2 | Adapters for Acetylene Tank "B" Tank | 9GT5408 | " | 5 | 75 | 11 | 50 |
| 2 | " " " "BG" Tank | 9GT5409 | " | 5 | 75 | 11 | 50 |
| 1 | Twin-Type Welding - Hose | 9GT54271 | " | 18 | 35 | 110 | 10 |
| 2 | Oxy-Acetylene Welder's Handbook | 9GT5411 | " | 6 | 20 | 12 | 40 |
| 6 | Copper- Coated Gas Rods 3/32" Inch. | 9GT20404 | " | 6 | 85 | 41 | 10 |
| 6 | Copper- " " " 1/8" Inch. | 9GT20406 | " | 5 | 70 | 34 | 20 |
| 2 | Lock - Type Hand Level | 9GT8600 | " | 29 | 90 | 59 | 80 |

LIST OF TOOLS, EQUIPMENT AND SUPPLIES — CENTRAL HOSPITAL — PAGE 3 OF 23

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Extension Ladders | [illegible] | [illegible] | 224 | 70 | 449 | 40 |
| 3 | H.D. 2-Way Convertible Ladder | [illegible] | " | 155 | 90 | 467 | 70 |
| 2 | Aluminum Scaffolds | [illegible] | " | 74 | 95 | 149 | 90 |
| [illegible] | Welders' Gloves | [illegible] | " | 2 | 95 | 17 | 70 |
| [illegible] | Face Gear Guard Against Light Bumps | [illegible] | " | 3 | 05 | 30 | 50 |
| [illegible] | [illegible] Ft Semi Non Gear Reduct. EG. | [illegible] | " | 281 | 75 | 281 | 75 |
| 2 | Compact Sprayer - Compressor | 30GT[illegible] | " | 120 | 75 | 241 | 50 |
| 1 | Spray Guns | 30GT15634 | " | 100 | 50 | 201 | 00 |
| 1 | Inflator Kit | 30GT16276 | " | 3 | 50 | 3 | 50 |
| 6 | Hose Repair Kit | 30GT16302 | " | 1 | 60 | 9 | 60 |
| 4 | Flexible Nylon Air Hose 25 Feet | 30GT16221 | " | 12 | 20 | 48 | 80 |
| 6 | Professional- Type Blow Gun 1/4 Inch | 30GT16236 | " | 3 | 90 | 31 | 20 |
| 3 | Dual Tipe Air Chuck | 30GT16272 | " | 2 | 80 | 8 | 40 |
| 6 | Double Male Couplings 1/4 Inch. | 30GT16251 | " | 1 | 40 | 8 | 40 |
| 6 | 1/4 Inch Male, Female Studs | 30GT16245 | " | 2 | 15 | 12 | 90 |
| 6 | Quick Connector Sets | 30GT16244 | " | 3 | 20 | 19 | 20 |
| 2 | Check Valves 1/4 Inch. | 30GT16261 | " | | | | |
| 4 | Globe Valves | 30GT16257 | " | 4 | 60 | 18 | 40 |
| 2 | Oil Lubricators | 30GT16016 | " | 14 | 65 | 29 | 30 |
| 6 | Pressure Gauge | 30GT16042 | " | 3 | 20 | 19 | 20 |
| 2 | H.D. Pressure Regulator Gauge | 30GT16032 | " | 11 | 50 | 23 | 00 |
| 2 | Air Filter and Regulator Gauge | 30GT16023 | " | 22 | 75 | 45 | 50 |
| 1 | Two Stages Stationary Elect. Compressor | 30GT17318N | " | 17 | 80 | 17 | 80 |
| 2 | Dual- Voltage Power Plants | 32GT32194N | " | 9 | 90 | 19 | 80 |

LIST OF TOOLS, EQUIPMENT AND SUPLIES

CENTRAL MECANICA



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE | | EXTENDED PRICE | |
|---|---|---|---|---|---|---|---|
| 2 | Repair kit with tool | 34GT6066 | Sears Craftsman | 37 | 00 | 74 | 00 |
| 4 | Repair kit 300 piece | 34GT6065 | " | 32 | 70 | 130 | 80 |
| 2 | Portable Bench-Mount Conduit Vise | 34GT5007 | " | 11 | 65 | 23 | 30 |
| 3 | Fish Tape Reel 100 FT | 34GT5140 | " | 19 | 00 | 57 | 00 |
| 2 | 3 Wire Grounded extension Cords 100 FT | 34GT3838C | " | 25 | 45 | 50 | 90 |
| 4 | Volt- Ammeter | 34GT5195 | " | 50 | 75 | 203 | 00 |
| 6 | Line Cord Energizer | 34GT5197 | " | 9 | 50 | 57 | 00 |
| 2 | Universal Test Indicator set | 9GT40755 | " | 40 | 10 | 80 | 20 |
| 1 | Dial Indicator set | 9GT3866 | " | 33 | 45 | 33 | 45 |
| 2 | Battery Pow. 3 1/2 Inch Diam. Magnifying Glas | 9GT40823 | " | 12 | 10 | 24 | 20 |
| 1 | Combination Rule | 9GT4026 | " | 3 | 35 | 3 | 35 |
| 1 | Reference Rable Rule | 9GT4011 | " | 1 | 95 | 1 | 95 |
| 1 | Depth Gauge | 9GT40442 | " | 5 | 85 | 5 | 85 |
| 1 | Magnetic Base Indicator Holder | 9GT3890S | " | 25 | 25 | 25 | 25 |
| 1 | 4 piece Center Finder Set | 9GT4004 | " | 8 | 00 | 8 | 00 |
| 2 | Standard Scale Dial Caliper | 9GT40172 | " | 51 | 20 | 102 | 40 |
| 2 | Metric " " " | 9GT3866S | " | 52 | 90 | 105 | 80 |
| 1 | Dial Caliper | 9GT40831 | " | 10 | 60 | 10 | 60 |
| 2 | Divider | 9GT38592 | " | 6 | 30 | 12 | 60 |
| 2 | Inside Caliper | 9GT3859[illegible] | " | 6 | 30 | 12 | 60 |
| 2 | Outside " | [illegible] | " | 6 | 30 | 12 | 60 |
| 2 | Micrometer sets 0-61 Inch. | 9GT38609 | " | 258 | 20 | 516 | 40 |
| 1 | Mandrel Micrometer 0-4 Inch. | [illegible]T38607 | " | 79 | 0[illegible] | 79 | 0[illegible] |
| 2 | Digit Depth Micrometer. | 9GT38645 | " | 60 | 70 | 121 | 40 |

LIST OF TOOLS, EQUIPMENT AND SUPLIES

CENTRAL MECANICA



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE. | | EXTENDED PRICE | |
|---|---|---|---|---|---|---|---|
| 1 | 4 piece V- Block and Clamp set | 9GT4083 | Sears Craftsman | 21 | 15 | 21 | 15 |
| 4 | V-Thread Gauge | 9GT4031 | " | 16 | 45 | 65 | 80 |
| 3 | Circular Gauge 0-36 AWG. | 9GT4023 | " | 8 | 40 | 25 | 20 |
| 2 | Lathe-Center Gauge | 9GT40642 | " | 3 | 20 | 6 | 40 |
| 1 | Drill Gauge | 9GT4047 | " | 3 | 95 | 3 | 95 |
| 1 | 4 Pc. Small-Hole Gauge set | 9GT4056 | " | 20 | 75 | 20 | 75 |
| 6 | Taper Leaf Gauge 26 Leaves | 9GT4094 | " | 7 | 15 | 42 | 90 |
| 1 | Inside Micrometer Sets Standard | 9GT3864 | " | 50 | 30 | 50 | 30 |
| 1 | " " " Metric | 9GT36642 | " | 50 | 30 | 50 | 30 |
| 1 | " Gauge set 5/16 TO 6 Inch. | 9GT4027 | " | 47 | 60 | 47 | 60 |
| 2 | Chest and Cabinet sets | 9GT65391N3 | " | 287 | 50 | 575 | 00 |
| 3 | Handle for tool Cart | 9GT65243 | " | 21 | 20 | 63 | 60 |
| 3 | 635 Pc. Mechanic tool set alone | 9GT65227C | " | 50 | 60 | 151 | 80 |
| 1 | Tool Chest | 9GT46343N | " | 1263 | 85 | 1263 | 85 |
| 6 | 21 Pc. Standard Drive - set 3/8" SQ. DR. | 9GT33227 | " | 36 | 50 | 219 | 00 |
| 4 | 21 Pc. Metric Drive set 3/8" SQ. DR. | 9GT44149 | " | 36 | 50 | 146 | 00 |
| 2 | 21 Pc. Drive Standard set 1" SQ. DR. | T9GT47969N | " | | | | |
| 4 | 48 Pc. Standard Drive set 1/4" SQ. DR. | 9GT44392 | " | 66 | 70 | 266 | 80 |
| 6 | 16 Pc. Standard Wrenches | 9GT44963 | " | 52 | 99 | 317 | 40 |
| 2 | 14 Pc. Metric Combination Wrenches | 9GT4291 | " | 27 | 50 | 55 | 00 |
| 4 | 5 Pc. Standard Ratching Wrenches | 9GT4368 | " | 18 | 00 | 72 | 00 |
| 1 | 5 Pc. Metric " " | 9GT4369 | " | 18 | 00 | 72 | 00 |
| 4 | 7 Pc. Nut Driver Standard Sizes | 9GT4196 | " | 14 | 50 | 58 | 20 |
| 2 | 7 Pc. " " " " | 9GT4197 | " | 14 | 50 | 29 | 60 |

LIST OF TOOLS, EQUIPMENT AND SUPPLIES — CENTRAL MECANICA — PAGE 6 OF 11

| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| 6 | 3 Pc. Adjustable end Wrenches | 9GT44607 | Sears Craftsman | 19 09 | 114 70 |
| 6 | " " " 12" | 9GT44605 | " | 11 10 | 66 60 |
| 6 | " " " 16" | 9GT44606 | " | 17 40 | 104 40 |
| 2 | H.D. Wrench With Direct-Reading Dial 1/2" Squar 0-250FT | 9GT44442 | " | 74 30 | 148 60 |
| 2 | " " " " " " 1/2" Squar | 9GT44443 | " | 52 90 | 105 80 |
| 2 | 3EAM-Type Wrenches in 0-600 Inch-Lbs Torque | 9GT44643 | " | 14 25 | 28 50 |
| 6 | 14 Pc. Standard Short/long-ARM Hex Key | 9GT46683 | " | 3 20 | 19 20 |
| 4 | 11 Pc. " " AM Hex Key Wrenches | 9GT46693 | " | 2 10 | 8 40 |
| 3 | Fine-Tooth Ratchet Wrenches 1/2 SQ | 9GT44975 | " | 15 90 | 47 70 |
| 4 | 9 In. 1 Hex Key Wrench Sets | 9GT46261 | " | 2 20 | 8 80 |
| 4 | " " " " " | 9GT46282 | " | 2 65 | 10 60 |
| 6 | 12 Pc. Punch Line-up and Chisel set | 9GT43031 | " | 18 00 | 108 00 |
| 4 | Jacks 10 Ton. | 28GT1207C | " | 38 05 | 152 20 |
| 2 | Floor Jacks 3-Ton. | 28GT1201N | " | 302 70 | 605 40 |
| 1 | Battery Chargers 60/100 Amp. | 28GT7106L | " | 151 20 | 151 20 |
| 4 | H.D. Tow Chains | 28GT1146C | " | 28 55 | 114 20 |
| 2 | Manual Grease Guns | 28GT4955 | " | 6 05 | 12 10 |
| 1 | Balancer With Steel Cabinet | 28GT4952 | " | 7 05 | 7 05 |
| 3 | Manual Grease Guns | 28GT1047L | " | 82 20 | 246 60 |
| 3 | Grease Gun Fitting Kit | 28GT4959 | " | 4 70 | 14 10 |
| 4 | Flexible Grease Gun Hose | 28GT4958 | " | 3 00 | 12 00 |
| 8 | Battery Terminal Brush | 28GT7078 | " | 2 10 | 16 80 |
| 4 | Hydrometer | 28GT71604 | " | 2 15 | 8 60 |
| 1 | Terminal Clamp Lifter | 28GT7147 | " | 2 00 | 2 00 |

LIST OF TOOLS, EQUIPMENT AND SUPLIES

CENTRAL MECANICA



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE. | EXTENDED PRICE |
|---|---|---|---|---|---|
| 1 | Analyzer for Auto | 28GT21421 | Sears Craftsman | 7 00 | 7 00 |
| 2 | Adjuster | 9GT47723 | " | 3 70 | 7 40 |
| 2 | Carburator Adjuster | 9GT47727 | " | 3 65 | 6 30 |
| 2 | Brake Spring Pliers | 9GT47395 | " | 6 30 | 12 60 |
| 2 | Spring Washer Pliers | 9GT47721 | " | 3 55 | 7 10 |
| 2 | Lock - Ring Pliers | 9GT4735 | " | 4 20 | 8 40 |
| 3 | Straight Cut Snips | 9GT45432 | " | 4 60 | 13 80 |
| 4 | Plier Wrench | 9GT45342 | " | 4 20 | 16 20 |
| 6 | Oilers | 9GT5582 | " | 3 10 | 18 60 |
| 4 | " | 9GT5578 | " | 2 60 | 10 40 |
| 4 | " | 9GT55801 | " | 3 05 | 12 20 |
| 2 | Rod and Bolt Cutters 24 Inch | 9GT65660 | " | 22 95 | 45 90 |
| 8 | Pliers | 9GT45182 | " | 7 20 | 57 60 |
| 6 | " | 9GT45083 | " | 6 35 | 38 10 |
| 8 | " to Cutting | 9GT45073 | " | 6 50 | 52 00 |
| 6 | " Long Chain 8 Inch | 9GT45082 | " | 6 35 | 38 00 |
| 4 | Ring Pliers Small Size | 9GT45359 | " | 5 40 | 21 60 |
| 4 | " " Large Size | 9GT45351 | " | 5 50 | 22 00 |
| 4 | Precision Pliers | 9GT43924 | " | 7 20 | 28 80 |
| 4 | " " | 9GT45946 | " | 7 30 | 29 20 |
| 4 | Cutting Pliers 7 Inch | 9GT45073 | " | 6 50 | 25 00 |
| 6 | Hacksaws | 9GT3558 | " | 5 70 | 34 20 |
| 4 | Quarter Hacksaws | 9GT35481 | " | 4 20 | 16 80 |
| 10 | Hacksaw Blade (24 per Box) | 9GT65874 | " | 1 40 | 14 00 |

LIST OF TOOLS, EQUIPMENT AND SUPLIES

CENTRAL MECANICA



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| 10 | Hacksaw Blade (16 per Box) | 9GT65872 | Sears Craftsman | 1 80 | 14 00 |
| 3 | Flexible Magnetic Pickup tool | 9GT4178 | " | 2 50 | 7 50 |
| 3 | Magnetic Pickup Tool With Extension | 9GT4132 | " | 3 20 | 9 60 |
| 3 | Horseshoe Magnet | 9GT4003 | " | 1 20 | 3 60 |
| 6 | Files Assortment | 9GT31299 | " | 5 80 | 34 80 |
| 3 | Tap and Die Sets 59 Pc. Standard | 9GT52151 | " | 107 70 | 323 10 |
| 2 | " " " " 59 Pc. Metric | 9GT52092 | " | 110 00 | 220 00 |
| 2 | 13 Blade metric Gauge | 9GT40807 | " | 2 45 | 4 90 |
| 4 | 25 - Leaf Feeler Gauge | 9GT40804 | " | 2 60 | 10 40 |
| 2 | 2 Ton. Gear Drive Chain Hoists | T9GT7872L | " | 205 85 | 411 70 |
| 2 | Power Phils 1 Ton. | 9GT7877C | " | 50 60 | 101 20 |
| 2 | Hydraulic- Lift-Floor Cranes | F9GT7804N | " | 598 00 | 1196 00 |
| 2 | H.D. Pallet Truck With Hydraulic | F9GT87255N | " | 425 50 | 851 00 |
| 2 | 600 Lb. Material Handing Trucks | F9GT87238N | " | 88 55 | 177 10 |
| 10 | Flexible Mask Impact Goggles | 9GT1859 | " | 2 20 | 22 00 |
| 5 | Paint Spray Respirator | 9GT18573 | " | 15 85 | 79 25 |
| 4 | Combination Chest | 9GT65300 | " | 37 00 | 148 00 |
| 3 | Ind. Welders Helmet | 9GT1325 | " | 14 90 | 44 70 |
| 15 | Replacement Filter Plates for 9GT1325 | 9GT13277 | " | 2 25 | 33 75 |
| 3 | Welders Goggles | 9GT18636 | " | 8 60 | 25 80 |
| 5 | Replacement Filter Plate for 9GT18636 | 9GT13275 | " | 1 75 | 8 75 |
| 4 | Flat Sewer Rods 150 FT | 9GT55093C | " | 84 80 | 339 20 |
| 4 | Drain Auger With 25 FT. Wire Coil | 9GT55356 | " | 15 85 | 63 40 |
| 4 | Power Drain Cleaner | 9GT55471 | " | 43 70 | 174 80 |

CENTRAL MECANICA

LIST OF TOOLS, EQUIPMENT AND SUPLIES



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE. | EXTENDED PRICE |
|---|---|---|---|---|---|
| 30 | Box (Offio) Carbon Dioxide Bulbs | 9GT55473 | Sears Craftsman | 2 75 | 82 50 |
| 6 | H.D. Pipe Wrench 10 Inch | 9GT55676 | " | 7 95 | 47 70 |
| 6 | " " " " 14 " | 9GT55677 | " | 10 35 | 62 10 |
| 4 | " " " " 24 " | 9GT55679 | " | 22 90 | 91 60 |
| 4 | Reversing Chain Pipe Wrench 4 Inch Cap. | 9GT55713 | " | 9 05 | 36 20 |
| 2 | Basin Wrench | 9GT55666 | " | 4 80 | 9 60 |
| 4 | 2 Pc. Flaring Tool Set | 9GT55271 | " | 29 15 | 116 60 |
| 10 | Brush and Scraper | 9GT8647 | " | 2 10 | 21 00 |
| 3 | Steel Rafter Square | 9GT39644C | " | 12 60 | 37 80 |
| 3 | Combination Square | 9GT39543 | " | 7 30 | 21 90 |
| 4 | 24 Inch Level | 9GT39928 | " | 11 95 | 47 80 |
| 2 | 9 Inch Level | 9GT39333 | " | 5 30 | 10 60 |
| 2 | Optical Tape Measure | 9GT3909 | " | 24 05 | 48 10 |
| 2 | Rolling Measuring | 9GT39004 | " | 32 75 | 65 50 |
| 2 | H.D. Riveter | 9GT7475 | " | 15 30 | 30 60 |
| 50 | Rivets Aluminium | 9GT74501 | " | 1 05 | 52 50 |
| 50 | Rivets Aluminium | 9GT74502 | " | 1 05 | 52 50 |
| 50 | " " | 9GT74503 | " | 1 05 | 52 50 |
| 50 | " " | 9GT74504 | " | 1 05 | 52 50 |
| 50 | " " | 9GT74505 | " | 1 05 | 52 50 |
| 50 | " " | 9GT74506 | " | 1 05 | 52 50 |
| 30 | Steel Rivets | 9GT74507 | " | 1 05 | 31 50 |
| 30 | " " | 9GT74508 | " | 1 05 | 31 50 |
| 30 | " " | 9GT74509 | " | 1 05 | 31 50 |

CENTRAL MECANICA

LIST OF TOOLS, EQUIPMENT AND SUPLIES



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE. | EXTENDED PRICE |
|---|---|---|---|---|---|
| 8 | Screwdriver Set 20 Pc. | 9GT41082 | Sears Craftsman | 37 10 | 296 80 |
| 2 | Hand Saws 10 Point P. Inch. | 9GT36194C | " | 15 55 | 31 10 |
| 2 | 16 Inch Nail Puller | 9GT6593 | " | 11 00 | 22 00 |
| 3 | Wrenching Bars Steel 30 Inch | 9GT659SC | " | 3 05 | 9 15 |
| 2 | Nail Hammers | 9GT3820 | " | 11 10 | 22 20 |
| 2 | H.D. Hammer 4 Lbs. | 9GT50751 | " | 11 55 | 23 10 |
| 2 | " " " 8 Lbs. | 9GT50752C | " | 16 85 | 33 70 |
| 5 | 115 Pc. Twist Drill H.D. Quality | 9GT67115 | " | 179 85 | 899 25 |
| 8 | Bits For Concrete 7 Pc. set | 9GT67347 | " | 11 60 | 92 80 |
| 10 | Wire Wheel Brushes Coarse | 9GT64903 | " | 2 25 | 22 50 |
| 24 | " Cup Brushes Fine | 9GT64882 | " | 2 20 | 52 80 |
| 24 | " " " Coarse | 9GT64883 | " | 1 65 | 39 60 |
| 18 | " " " | 9GT64961 | " | 2 25 | 40 50 |
| 4 | 7 Pc. Woodboring Bit Set | 9GT2087 | " | 7 40 | 29 60 |
| 3 | 600 Watt Drill | 9GT1149 | " | 75 90 | 227 70 |
| 3 | Miniature Driver set | 148423 | JENSEN | 10 60 | 31 80 |
| 6 | Five piece electronic Screwdriver | 38185 set | " | 8 45 | 50 70 |
| 3 | T-Handle Hex- Wrench Inch | 408336 | " | 16 55 | 49 65 |
| 3 | " " " " Metric | 408396 | " | 8 00 | 24 00 |
| 3 | 30 Interchangeable Tools | 41B355 | " | 78 80 | 236 40 |
| 3 | Combination Wrenches Standard | 61B261 | " | 48 30 | 144 90 |
| 2 | " " Metric | 61B253 | " | 58 60 | 117 20 |
| 2 | Miniature 6 piece set Wrenches | 108B636 | " | 8 60 | 17 20 |
| 3 | Service Tweezer Kit | 603290 | " | 6 85 | 20 55 |

Best Available Documen

CENTRAL MECANICA

LIST OF TOOLS, EQUIPMENT AND SUPLIES



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| 2 | H.D. Vacuum Pump | 55B084 | JENSEN | 126 50 | 252 00 |
| 2 | Pin Punches 8 Pc. set | 39B146 | " | 14 25 | 28 50 |
| 6 | Flexible Pickup Tool | 60B265 | " | 3 10 | 18 60 |
| 4 | Magnetic tool Telescopic | 60B021 | " | 4 95 | 19 80 |
| 3 | Tool Kit 120 Tools With Meter | T3K77 | " | 469 20 | 1407 60 |
| 2 | Tool Kit | JTK6 | " | 74 75 | 149 50 |
| 5 | Volt- OHM-Milliampere | 50B150 | " | 112 70 | 563 50 |
| 3 | Amp. Clamp. | 50B130 | " | 82 25 | 246 75 |
| 8 | Fire Extinguishers for Auto | 9B021 | " | 8 00 | 64 00 |
| 2 | Power Tool Type-CC Hang-UP | 42B314 | " | 141 45 | 282 90 |
| 4 | Vanadium Cutters | 42B530 | " | 26 40 | 105 60 |
| 6 | Abrasive Points | 42B550 | " | 20 65 | 123 90 |
| 1 | Drill Sharpener | 39B325 | " | 13 75 | 13 75 |
| 2 | Solderless Terminals Wire Stripper | 36B347 | " | 55 80 | 111 60 |
| 4 | Variable Temp. Contr. Sold. Iron | 47B121 | " | 115 00 | 460 00 |
| 8 | Replacement Tips 1/32" | 47B123 | " | 2 60 | 20 80 |
| 8 | " 2 1/16" | 47B125 | " | 2 60 | 20 80 |
| 4 | Weller Soldering Guns 100/140W | 47B470 | " | 19 00 | 76 00 |
| 4 | " " " 240/325W | 47B490 | " | 25 25 | 101 00 |
| 10 | Solder 60/40 .025" | 15B100 | " | 11 40 | 114 00 |
| 10 | " " .032" | 15B102 | " | 11 05 | 110 50 |
| 10 | " " .040" | 15B104 | " | 10 30 | 103 00 |
| 10 | " " .062" | 15B108 | " | 9 95 | 99 50 |
| 4 | Special Solder 3% Silver | 15B170 | " | 23 75 | 95 00 |

CENTRAL MECANICA

LIST OF TOOLS, EQUIPMENT AND SUPPLIES



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE. | EXTENDED PRICE |
|---|---|---|---|---|---|
| 10 | Hand Steel Brush. | 31B585 | JENSEN | 3 75 | 37 50 |
| 10 | Bristle Bench Brush | 31B570 | " | 3 40 | 34 00 |
| 20 | Contact Cleaner | 60B130 | " | 2 80 | 56 00 |
| 5 | Tape Measures in Steel | 195B212 | " | 4 70 | 23 50 |
| 2 | Metalic Inch-Metric Tapes 100 FT. | 222B010 | " | 22 95 | 45 90 |
| 2 | Ing. Sup. Mechanical and Misc. Templates | 139B140 | " | 4 60 | 9 20 |
| 2 | " " Electronic Templates | 139B115 | " | 7 50 | 15 00 |
| 2 | Switches Connectors " | 139B120 | " | 6 90 | 13 80 |
| 1 | Transister outlines " | 139B145 | " | 5 70 | 5 70 |
| 2 | Terminals conections " | 139B125 | " | 5 75 | 11 50 |
| 1 | Air condinationing " | 78B085 | " | 5 70 | 5 70 |
| 1 | Electronics " | 78B069 | " | 5 70 | 5 70 |
| 1 | Human Figures " | 78B089 | " | 4 60 | 4 60 |
| 4 | Magnifocuses 14 Inch | 52B720 | " | 17 20 | 68 80 |
| 2 | Illuminated Magnifier | 28B200 | " | 81 65 | 163 30 |
| 4 | Prolites Marine-Blue | 706B025 | " | 71 90 | 287 60 |
| 1 | Precision Engine Room Lathe, 13 1/8" swing, 6 foot bed, 40" between centers. Supplied with the following accesories: | Only CL 1450 | South Bend Indiana | 5354 40 | 5354 40 |
| - | 2H.P. single speed Electric Motor for 220 volt; 60 Hz; 3 phase current. | CE2543D | " | 274 80 | 274 80 |
| - | Drum Control | EQ790 | " | 84 90 | 84 90 |
| - | Universal 3 jaw Chuck, 5 diameter two sets of jaws. | CL 3208 Q | " | 414 90 | 829 80 |
| - | Independent 4 jaw Chuck, 10" diameter, reversible jaws. | CL 4510 LQ | " | 477 00 | 477 00 |
| - | Metric Transposing Gears | CL 1955 | " | 282 60 | 282 60 |
| - | Steady Rest. | CL 2400 T | " | 164 40 | 164 40 |

CENTRAL MECANICA

LIST OF TOOLS, EQUIPMENT AND SUPLIES



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| - | Taper Cutting Attachment | CL1545 T | South Bend Indiana | 972 30 | 972 30 |
| - | Fine Feed Handwheel | CL3307TF | " | 139 50 | 139 50 |
| - | Turning Tool Holders, 1 each straight, right hand and left hand. | CE832S.R. | " | 39 90 | 119 70 |
| - | Cutting-Off Tool Holders, 1 each straight, right hand and left hand. | CE883S.R.L. | " | 43 90 | 131 40 |
| - | Set of 24 Turning Tool Bits 5/16" x 5/16" x 2 1/2". | CE2373 | " | 27 90 | 27 90 |
| - | 12 Cutting Tool Bits 1/8" x 0.735" x 5" | CE878 | " | 12 30 | 12 30 |
| - | Knurling Tool, medium diamond | CE523 | " | 82 50 | 82 50 |
| - | Style B Boring Tool, medium duty | CE 431 | " | 71 10 | 71 10 |
| - | Style D Boring Tool, small internal diameters | CE3176 | " | 41 70 | 41 70 |
| - | 6 Turning Tool Bits for Boring 1/4" x 1/4" x 2" | CE3533 | " | 0 60 | 3 60 |
| - | 6 Solid Boring Bars, 3/8" x 7 | CE3860 | " | 11 10 | 66 60 |
| - | Threading Tool | CE 867 | " | 61 20 | 61 20 |
| - | 6 Cutters for threading Tool | CE3481 | " | 32 70 | 196 20 |
| - | Jacobs Drill Chuck 3/8" to 1" | CE1206 | " | 153 90 | 153 90 |
| - | Drill Chuck Arbor, 3 Morse Taper | CE2307 | " | 7 20 | 7 20 |
| - | Ball Bearing Live Center, 3 Morse Taper. | CE3901 | " | 72 00 | 72 00 |
| - | Export Packing | CE8313 | " | 234 00 | 234 00 |
| | | | | Total: | $41,093.85 |
| | | | (1978 prices) 20% contingency | | 8,218.77 |
| | | | | | $49,312.62 |

| No: | QUANT: | DESCRIPTION: | CAT.No. | EQUAL TO | UNITS. | EXTENDED PRICE. |
|---|---|---|---|---|---|---|
| | | BIO-MED TOOLS | | | | |
| | 1 | Digital Capacitance Meter | 33B230 | JENSEN | 130.00 | 130.00 |
| | 1 | Universal Temperature Probe | 50B758 | " | 97.00 | 97.00 |
| | 1 | Super Deluxe Sub-Miniature Tool Set | 41B152 | " | 37.95 | 37.95 |
| | 1 | Engraver | 22B320 | " | 16.25 | 16.25 |
| | 1 | Diamond Tip | 22B929 | " | 10.50 | 10.50 |
| | 2 | Audible Circuit Probe | 138B105 | " | 19.95 | 39.90 |
| | 8 ✓ | Master Medical Instrument Repair | JTK-75L | " | 349.60 | 2.796.80 |
| | 1 ✓ | Deluxe Relay Service Kit JTK-64 | JTK-64 | " | 210.00 | 210.00 |
| | 1 | 15-Piece Electronic Open-End Wrench Set. | 232B142 | " | 49.95 | 49.95 |
| | 1 | Master Kit, Witch six 6 piece tool sets. | 41B335 | " | 52.50 | 52.50 |
| | 8 | - Tool Kit Cart | 415B010 | " | 15.50 | 124.00 |
| | 2 | 50-Drawer Parts cabinet | 230B150 | " | 29.95 | 59.90 |
| | 1 | Hand Size V-O-M Clamp-ON Ammete - Modelo 100-FLT. | 3013 | TRIPLETT | 164.00 | 164.00 |
| | 1 | Laboratory Accuracy Model 630-Hs - V-O-M Type 2 | 3102 | " | 185.00 | 185.00 |
| | 1 | AC-Iron Vane Type 330-G/P 0-120 - 600 volts. | 3540 | " | 72.00 | 72.00 |
| | 1 | AC-Iron Vane Type 330-G/P 0-25 amp. | 3546 | " | 41.00 | 41.00 |
| | 1 | Watts Type 360 - G/P | 3580 | " | 87.00 | 87.00 |
| | 8 ✓ | Model 151 Line Splitter for AC appliance testing. | 00534 | SIMPSON | 9.45 | 75.60 |
| | 1 | Photo Tachometer Model 410 | 1260 4 | " | 275.00 | 275.00 |
| | 8 ✓ | Battery Eliminator | A-31 | FLUKE | 15.00 | 120.00 |
| | 6 | Clamp - On CURRENT TRANSFORMER 600A. | 801-600 | " | 80.00 | 480.00 |
| | 8 ✓ | CURRENT Shunt 10A | 80-J-10 | " | 25.00 | 200.00 |
| | 1 | Temperature Probe (oc) | 80-T-1500 | " | 99.00 | 99.00 |

| QUANT | DESCRIPTION | CAT.No. | MODEL NO | UNITS -PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| 1 | RF Probe 100 MH = | 81 - RF | FLUKE | 40.00 | 40.00 |
| 6 | Digital Voltmeters Model 8024A | 8024A | " | 199.00 | 1.194.00 |
| 1 | K Thermocuple, sheathed | Y3102K | " | 45.00 | 45.00 |
| 1 | Bead Thermocouple (K) | Y8103 | " | 18.00 | 18.00 |
| 1 | Thermocouple Termination | Y8104 | " | 8.00 | 8.00 |
| 1 | Digital Multimeter 8000A-MAS (With Rechargeable Batteries) | 8000A-MAS | " | 575.00 | 575.00 |
| 1 | Digital Multimeter 8000 A-MTR-01 With Rechargeable Batteries) | 8000A-MTR-OL | " | 495.00 | 495.00 |
| 2 | Y-8133 Test Lead Set | Y-8133 | " | 15.00 | 30.00 |
| 1 | 80-K-40 High Voltage Probe | 80-K-40 | " | 65.00 | 65.00 |
| 1 | 82 RF High Frequency Probe | 82-RF | " | 75.00 | 75.00 |
| 2 | C-86 Carring Case | C-86 | " | 20.00 | 40.00 |
| 2 | 434 Storage Oscilloscope | 434 | TEKTRONIX | 3.800.00 | 7.600.00 |
| 1 | 1105 Battery Power Supply | 1105 | " | 1.000.00 | 1.000.00 |
| 2 | -Mesh Filter | 378-0682-00 | " | 33.00 | 66.00 |
| 2 | Folding Polarized Viewing Hood | 016-0130-00 | " | 23.00 | 46.00 |
| 2 | Scope-Mobile Cart | 200C | " | 210.00 | 420.00 |
| 1 | Dip Clip 14 Lead | 136B792 | JENSEN | 7.95 | 7.95 |
| 1 | Dip Clip 16 Lead | 136B792 | " | 7.95 | 7.95 |
| 1 | Soldering Gun Solid State 3-Wire | 47B620 | " | 27.50 | 27.50 |
| 1 | Dual Heat 3 Wire Soldering Gun | 47B490 | " | 27.95 | 27.95 |
| 6 | Replacement Tips for model 240/325 Watts | 47B207 | " | 1.55 | 9.30 |
| 1 | Cordless soldering Gun With automatic feed | 161B300 | " | 55.95 | 55. 95 |
| 6 | Replacement tip "Regular Tip" | 161B535 | " | 2.30 | 16.80 |
| 2 | Replacement tip "Tuner Extensión Tip" | 161B556 | " | 4.35 | 8.70 |
| 3 | Replacement Tip "Micro soldering Tip" | 161B566 | " | 3.75 | 11.25 |
| 3 | Replacement Tip "Heavy duty Tip" | 161B546 | " | 4.10 | 12.30 |

| E: | QUANT: | DESCRIPTION: | CAT.No. | EQUAL TO | UNITS. PRICE | EXTENDED PRICE. |
|---|---|---|---|---|---|---|
| 2 | 6 | Temperature Centrelled Soldering Stations With Iron | 49B800 | JENSEN | 106.00 | 636.00 |
| 2 | 12 | Replacement Tip for 49B-800 Iron "1/16" 49º Tip" | 49B624 | " | 4.50 | 54.00 |
| 2 | 12 | Replacement Tip for 49B800 Iron "1/16 Chisef Tip" | 49B604 | " | 4.50 | 54.00 |
| 2 | 12 | Replacement Tip for 49B800 Iron "Rownded Long Chisef Tip" | 49B625 | " | 4.50 | 54.00 |
| 3 | 1 | IC Desoldering Kit | 46B172 | " | 33.95 | 33.95 |
| 4 | 12 | Wik - IT "5 feet x 1/16" | 416B007 | " | 1.85 | 22.20 |
| 4 | 12 | Wik - It "5 feet x 1/8" | 416B006 | " | 1.90 | 22.80 |
| 4 | 8 | Soldering Aids "Regular Fork & HOOK | 40B235 | " | 2.95 | 23.60 |
| 4 | 12 | Soldering Aids "Solder Brush Only" | 40B247 | " | 0.65 | 7.80 |
| 4 | 8 | Soldarac Model SV - 026 | 65B029 | " | 8.50 | 68.00 |
| 5 | 10 | "44" Resin Solder" Diameter .062" | 15B108 | " | 12.35 | 123.50 |
| 5 | 5 | Special Solders "Printed Circuit 3% Silver SOLDER | 15B170 | " | 23.50 | 117.50 |
| 5 | 3 | Jeweler's "Tix" Solder (Tix-3 Kit) | 77B003 | " | 10.95 | 32.85 |
| 56 | 1 | Complete Kit With Cylinders | 104B809 | " | 383.25 | 383.25 |
| 57 | 1 | Three - range heat gun | 45B345 | " | 58.95 | 58.95 |
| 57 | 1 | Replacement heat - Element Nozzle 600 º - 800 º F | 45B350 | " | 11.25 | 11.25 |
| 57 | 1 | Replacement heat element nozzle | 45B360 | " | 11.25 | 11.25 |
| 57 | 10 | Heat Shrinkable tubing | 80B856 | " | 6.25 | 62 .50 |
| 62 | 1 | Integrated Circuit Extractor tool | 75B100 | " | 14.95 | 14.95 |
| 62 | 1 | IC - Insertion Tool | 125B400 | " | 12.50 | 12.50 |
| 62 | 1 | DIP/IC Insertion Tool "14 - 16 Pin MOS/CMOS | 125B417 | " | 9.95 | 9.95 |

| GE: | QUANT: | DESCRIPTION: | CAT.No. | EQUAL TO | UNITS PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|---|
| 5 | 1 | Mimi Breadboard Kit | 183B100 | JENSEN | 23.95 | 23.95 |
| 5 | 1 | Mid - Sized Breadboard Kit | 183B102 | " | 34.95 | 34.95 |
| 5 | 1 | Integrated circuit test clips "24 pin test clip" | 251B240 | " | 17.95 | 17.95 |
| 5 | 1 | Circuit Card Fixture Mark III | 177B003 | " | 39.95 | 39.95 |
| 4 | 2 | Inspection mirror "Round Magnifying | 69B001 | " | 7.50 | 15.00 |
| 5 | 2 | Spring Tool | 156B131 | " | 2.50 | 5.00 |
| 5 | 1 | Dental Explorers | 197B004 | " | 14.15 | 14.15 |
| 5 | 10 | Heat Shrinkable tape | 80B145 | " | 4.25 | 42.50 |
| 5 | 10 | Contact Cleaner | 60B130 | " | 3.95 | 39.50 |
| 5 | 3 | Heat Sink "Large" | 40B249 | " | 2.75 | 8.25 |
| 5 | 3 | Heat - Sink "Medium" | 40B251 | " | 1.95 | 5.85 |
| 5 | 3 | Heat - Sink "Small" | 40B255 | " | 1.50 | 4.50 |
| 5 | 1 | Hook - and pick swinger | 69B033 | " | 4.75 | 4.75 |
| 7 | 8 | Pocket clip style screwdriver | 36B182 | " | 0.84 | 6.72 |
| 59 | 1 | For Allen - Hex Screws (Metric) | 3B190 | " | 11.85 | 11.85 |
| 59 | 1 | For Multiple spline sockets "Type 99-PS-60 | 3B110 | " | 18.95 | 18.95 |
| 59 | 1 | Ball end hex driver set "Inch" | 3B060 | " | 28.90 | 28.90 |
| 59 | 1 | Ball end hex driver set "Metric" | -3B061 | " | 23.50 | 23.50 |
| 59 | 2 | Offset ratchet driver | 185B035 | " | 5.75 | 11.50 |
| 71 | 8 | Screw Starter with magnetic retriever "Regular Slot 2 5/8") | 69B100 | " | 4.95 | 39.60 |
| 71 | 8 | Screw Starter with magnetic retriever "Regular 9 5/8) | 69B110 | " | 5.20 | 41.60 |
| 71 | 8 | Screw Starter With magnetic retriever (Phillip head 2 3/4") | 69B120 | " | 4.95 | 39.60 |

| GE: | QUANT: | DESCRIPTION: | CAT.No. | EQUAL TO | UNITS. PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|---|
| 1 | 8 | Screw starter with magnetic retriever (Phillip head 9 3/4") | 69B131 | JENSEN | 5.50 | 44.00 |
| 3 | 1 | Plier "Tranverse End Cutter" | 66B053 | " | 7.95 | 7.95 |
| 5 | 1 | Plier "Meedle Nose" | 66B051 | " | 7.95 | 7.95 |
| 5 | 1 | Plier "curved long nose" | 66B158 | " | 8.95 | 8.95 |
| 6 | 1 | Plier "Hard Wire Cutter" | 410B001 | " | 42.95 | 42.95 |
| 7 | 1 | Plier "Cable Cutter" | 37B050 | " | 19.50 | 19.50 |
| 9 | 1 | Midget Bolt Cutter | 92B608 | " | 9.20 | 9.20 |
| 9 | 1 | Hose Clamp Plier | 66B018 | " | 7.50 | 7.50 |
| 9 | 1 | Round Nose Plier | 3B778 | " | 11.50 | 11.50 |
| 30 | 1 | Miniature 6 - Piece set | 108B656 | " | 11.50 | 11.50 |
| 32 | 1 | Close-Clearance Ratchet Wrench 3/16" | 247B100 | " | 27.95 | 27.95 |
| 32 | 1 | Close-Clearence Ratchet Wrench 1/4" | 247B105 | " | 27.95 | 27.95 |
| 32 | 1 | Close-Clearance Ratchet Wrench 5/16" | 247B115 | " | 27.95 | 27.95 |
| 32 | 1 | Close-Clearance Ratchet Wrench 3/8" | 247B120 | " | 30.95 | 30.95 |
| 32 | 1 | Close-Clearance Ratchet Wrench 7/16" | 247B125 | " | 30.95 | 30.95 |
| 82 | 1 | Close-Clearance Ratchet Wrench 1/2" | 247B130 | " | 34.95 | 34.95 |
| 83 | 1 | Nut Cracker | 129B715 | " | 21.25 | 21.25 |
| 85 | 1 | Precision Slide Caliper | 102B430 | " | 35.50 | 35.50 |
| 85 | 1 | Feeler Gauge (Metric) | 147B407 | " | 4.25 | 4.25 |
| 87 | 8 | Flexible Pickup tool | 60B265 | " | 4.35 | 34.80 |
| 91 | 1 | Jewelers Sawframe | 108B109 | " | 13.95 | 13.95 |
| 91 | 1 | Piercing Style sawblades (dozen) | 108B111 | " | 3.50 | 3.50 |
| 91 | 1 | Piercing Style Sawblades (dozen) | 108B113 | " | 2.75 | 2.75 |

| ITE: | QUANT: | DESCRIPTION: | CAT.No. | EQUAL TO | UNITS PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|---|
| 01 | 1 | Piercing Style Sawblades (dozen) | 108B115 | JENSEN | 4.95 | 4.95 |
| 02 | 1 | Xacto Knife set | 68B083 | " | 8.95 | 8.95 |
| 03 | 2 | Push -Button Knife | 68B183 | " | 5.15 | 10.30 |
| 04 | 10 | Push -Button Knife "Blades" | 68B185 | " | 1.95 | 19.50 |
| 05 | 3 | File Cleaner | 21B829 | " | 4.85 | 14.55 |
| 06 | 1 | Staple - Gun Tacker " T-75" | 84B780 | " | 29.95 | 29.95 |
| 07 | 5 | Staple - 1000 / 5/8" | 84B785 | " | 5.30 | 26.50 |
| 08 | 1 | Regular Tubing Cutter | 39B202 | " | 5.25 | 5.25 |
| 09 | 1 | Flaring tool set | 39B214 | " | 11.95 | 11.95 |
| 10 | 1 | Tubing bender set | 39B270 | " | 6.95 | 6.95 |
| 11 | 1 | Cable Jacket Remover | 283B001 | " | 18.50 | 18.50 |
| 12 | 8 | Magnetized Torpedo level | 37B730 | " | 9.60 | 76.80 |
| 13 | 1 | Pin Punches in wood case | 39B146 | " | 15.95 | 15.95 |
| 14 | 1 | Soft - face hammer | 173B015 | " | 26.50 | 26.50 |
| 15 | 1 | Power tools accessories | 42B315 | " | 21.95 | 21.95 |
| 16 | 1 | Tiny precision drills #61 to 80 | 31B255 | " | 17.95 | 17.95 |
| 17 | 1 | 29 - Piece high - speed drill set | 146B105 | " | 65.25 | 65.25 |
| 18 | 1 | Power toof type GG bench model | 42B360 | " | 179.50 | 179.50 |
| 19 | 1 | Contra-Angle handpiece type 55 | 42B496 | " | 74.50 | 74.50 |
| 20 | 1 | Workholder "Third hand" | 68B215 | " | 9.25 | 9.25 |
| 21 | 1 | Metal Working (18" capacity brake) | 151B018 | " | 19.95 | 19.95 |
| 22 | 1 | Hole Saw kit | 130B135 | " | 33.50 | 33.50 |
| 23 | 1 | Tap and die set "Inch" | 146B180 | " | 62.50 | 62.50 |
| 24 | 1 | Tap and die set "Metric" | 146B190 | " | 74.95 | 74.95 |

| QUANT | DESCRIPTION: | CAT.No. | EQUAL TO | UNITS PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| 1 | Screw Pitch gauge "Inch" | 39B224 | JENSEN | 16.10 | 16.10 |
| 1 | Metric Screw Pitch gauge | 39B025 | " | 6.95 | 6.95 |
| 1 | Wire Gauge A.G | 39B222 | " | 9.95 | 9.95 |
| 1 | Screw Chek'r (Steel( "Inch" | 143B777 | " | 7.95 | 7.95 |
| 1 | Screw Chek'r (Steel( "Metric" | 143B001 | " | 8.25 | 8.25 |
| 1 | Deluxe Model drafting equipment | 70B009 | " | 34.95 | 34.95 |
| 1 | Set of three template | 78B110 | " | 19.95 | 19.95 |
| 1 | Professional Drawing set | 78B015 | " | 60.25 | 60.25 |
| 1 | 0.5 mm. Automatic pencil | 445B035 | " | 7.25 | 7.25 |
| 5 | Refill leads H | 445B102 | " | 1.10 | 5.50 |
| 5 | Refill leads HB | 445B101 | " | 1.10 | 5.50 |
| 5 | Erasers (3) | 445B201 | " | 0.95 | 4.75 |
| 1 | Speed Lettering guide | 78B091 | " | 2.95 | 2.95 |
| 1 | Logic Symbols template | 78B175 | " | 4.50 | 4.50 |
| 2 | Illuminated magnifier "Model LFM-IA" | 28B2-00 | " | 94.50 | 189.00 |
| 6 | Clamp-On-Lamp "lumaglo" | 28B400 | " | 29.95 | 179.70 |
| 1 | Micro-Microscope 40 x | 94B355 | " | 17.25 | 17.25 |
| 8 | Magnifying Glasses 2" dia | 39B234 | " | 6.95 | 55.60 |
| 8 | Industrial Flash Light | 221B618 | " | 7.50 | 60.00 |
| 1 | Master Alignment tool kit | 60B300 | " | 21.50 | 21.50 |
| 1 | Dinamometer (Gram Gauge) | 110B090 | " | 64.75 | 64.75 |
| 1 | Telecoping Pointer | 210B100 | " | 3.25 | 3 .25 |
| 1 | Solderless Terminals-Wire Stripper Kit | 80B500 | " | 59.75 | 59.75 |
| 1 | Cement kit | 60B240 | " | 17.50 | 17.50 |
| 2 | Screw Extractor and drill kit | 419B064 | " | 19.50 | 39.00 |
| 1 | Metal Etching Pen | 102B001 | " | 14.50 | 14.50 |

| QUANT: | DESCRIPTION: | CAT.No. | EQUAL TO | UNITS. PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| 8 | Scriber | 21B827 | JENSEN | 2.50 | 20.00 |
| 1 | Etch - O - Matic | 53B100 | " | 39.95 | 39.95 |
| 1 | Gear Puller | 129B292 | " | 14.75 | 14.75 |
| 1 | Mity Vac (Vacuum Pump) | 192B004 | " | 26.25 | 26.25 |
| 1 | Fold A Truk | 54B969 | " | 59.95 | 59.95 |
| 1 | Precision stop watch | 116B100 | " | 46.95 | 46.95 |
| 2 | Heavy Duty Compu-Vac | 175B919 | " | 92.95 | 185.90 |
| 3 | Cleaner Bags PKG 5. | 175B462 | " | 6.95 | 20.85 |
| 1 | Hand Riveting Kit | 339B750 | " | 49.50 | 49.50 |
| 1 | Metal Punch Kit | 404B045 | " | 49.50 | 49.50 |
| 1 | Electric Glue gun kit | 311B002 | " | 69.95 | 69.95 |
| 5 | General Purpose Adhesive ministicks | 311B942 | " | 6.95 | 34.75 |
| 1 | Blood pressure Systems analyzer | 601 | BIO-TECK | 1.599.00 | 1.599.00 |
| 1 | Ultrasound radiation test balance Model UTB-1" | UTB-1 | " | 229.00 | 229.00 |
| 1 | Ultrasonic Nebulizer Analyzer"Model 701" | 701 | " | 250.00 | 250.00 |
| 1 | Adapter cord "Model NF23/1" | NF-23/1 | " | 60.00 | 60.00 |
| 1 | Adapter cord "Model NF23/2" | NF-23/2 | " | 40.00 | 40.00 |
| 1 | Tensión tester "Model 1760" Receptacle Analyzer | 1760 | " | 23.00 | 23.00 |
| 2 | Receptacle Analyzer Model RCA-1 | RCA-1 | " | 17.00 | 34.00 |
| 1 | Professional test System "Model 475-A" | 475-A | DYNATECK-NEVADA | ..... 3.520.00 | 3.520.00 |
| 1 | Desfibrillator Energy Meter (1000 Watf-Sec | 429B-1 | " | 935.00 | 935.00 |
| 1 | Electrosurgical Unit Analyzer | 443 | " | 1.265.00 | 1.265.00 |
| 1 | Rigid Carrying case "series 429" | 429 | " | 70.00 | 70.00 |
| 1 | Rigid Carrying case "serie 443" | 443 | " | 83.00 | 83.00 |

9-11

| :E: | QUANT: | DESCRIPTION: | CAT.No. | EQUAL TO | UNITS PRICE | EXTENDED Price. |
|---|---|---|---|---|---|---|
| | 1 | Rigid Carrying case "Series 475-A" | 475-A | DYNATECK | 95.00 | 95.00 |
| 3 | 1 | Drill Press 1/2 | 9HT24522N2 | CRAFTSMAN | 423.94 | 423.94 |
| 2 | 1 | Angle Vise With swivel base | 9HT2752 | " | 44.99 | 44.99 |
| 5 | 1 | Pedestal Stand | 9HT2964C | " | 41.50 | 41.50 |
| 7 | 1 | Bench Grinder I HP. | 9HT1936L | " | 154.99 | 154.99 |
| 2 | 1 | Reversing pipe wrenche 5" Outside Diameter capacity | 9HT55714 | " | 14.97 | 14.97 |
| 5 | 1 | Machinist's Vise | 9HT5197L | " | 119.99 | 119.99 |
| 6 | 1 | Swivel Base kit | 9HT5198 | " | 19.29 | 19.29 |
| 9 | 1 | Nail Hammer With tubular Steel Handle | 9HT3836 | " | 10.59 | 10.59 |
| 9 | 2 | Rubber Mallet 16 oz. | 9HT4579 | " | 2.39 | 4.78 |
| 2 | 1 | Taper - Ground Bevel Filed saw 10 PTS | 9HT36194C | " | 15.39 | 15.39 |
| 1 | 1 | 3 - Piece Chisef set | 9HT36891 | " | 6.79 | 6.79 |
| 1 | 1 | Steel Wrecking bar 3/4" x 24" | 9HT6597C | " | 6.79 | 6.79 |
| 3 | 8 | Lock tape 1/2 x 12FT. | 9HT39224 | " | 4.79 | 38.32 |
| 4 | 3 | Curved Back Wire Brusch | 9HT3668 | " | 0.99 | 0.99 |
| 5 | 3 | Masonry, Non-ferrous Metal-Boring Bits | 9HT67344 | " | 5.49 | 16.47 |
| 7 | 1 | Electric Bit Sharpenner | 9HT6682 | " | 29.99 | 29.99 |
| 7 | 2 | High-Speed Countersink Bit 5/8" | 9HT67162 | " | 5.49 | 10.98 |
| 9 | 1 | 3/8 Inch rotary hammer drill | 9HT1811 | " | 68.50 | 68.50 |
| 1 | 1 | 1/2" Inch single speed drill | 9HT1149 | " | 68.50 | 68.50 |
| 1 | 2 | Craftsmann cord lock | 9HT2595 | " | 0.67 | 1.34 |
| 1 | 1 | Impact Drill Attachment | 9HT25671 | " | 27.99 | 27.99 |
| 1 | 2 | Craftsmann face shield | 9HT18613 | " | 7.59 | 15.18 |
| 4 | 1 | Steel Square | 9HT40404 | " | 11.49 | 11.49 |
| 5 | 8 | Incandescent Trouble Ligth 25 ft. | 34HT5917 | " | 5.19 | 41.52 |

| AGE: | QUANT: | DESCRIPTION: | CAT.No. | EQUAL TO | UNITS PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|---|
| 93 | 2 | Extensión cord 50 ft. | 34HT5835 | CRAFTSMAN | 18.59 | 37.18 |
| 105 | 1 | Stationary electric Air Compresor (Single Stage) | 30HT17081N | " | 499.99 | 499.99 |
| 01 | 1 | Air Line Filter | 30HT16009 | " | 11.99 | 11.99 |
| 01 | 1 | Heavy Duty Pressure regulator and gauge | 30HT16036 | " | 11.89 | 11.89 |
| 01 | 1 | Professional type blow gun | 30HT16236 | " | 3.99 | 3.99 |
| 02 | 1 | Air Hose 25 feet | 30HT16201 | " | 16.79 | 16.79 |
| 17 | 1 | 12- Piece Punch line-up and chisef set | 9HT43036 | " | 18.97 | 18.97 |
| 32 | 1 | 77-Piece Metric ad-on set | 9HT33102 | " | 114.00 | 114.00 |
| 33 | 1 | 134-piece mechanic's | 9HT43418N3 | " | 378.98 | 378.98 |
| 42 | 1 | 12-Drawer chest | 9HT65259N | " | 259.99 | 259.99 |
| 42 | 1 | 10-Drawer cabinet | 9HT65041N | " | 349.99 | 349.99 |
| 00 | 1 | Logic Troubleshooting mini-kit | 5015T | HEWLETT PACKARD | 318.55 | 318.55 |
| | 1 | High voltage bleeder | C1515A | GENERAL E. | 954.00 | 954.00 |
| | 2 | High voltage cables 5 feet | C1665A | " | 278.40 | 556.80 |
| | 2 | Spanner wrench for high voltage cables | 507A935GL | " | 21.20 | 42.40 |
| | 2 | Isolation Transformer | 46-134441PI | " | 12.30 | 24.60 |
| | 1 | Collimator Alignment fixture | 46-166390CI | " | 600.00 | 600.00 |
| | 1 | Maxitome Test Pattern | 46-162229CI | " | 144.00 | 144.00 |
| | 1 | MTX-2 Phantom | B7060AC | " | 327.60 | 327.60 |
| | 1 | HRT MX-75 Tube Alignment Fixture | 46-170316PI | " | 192.00 | 192.00 |
| 54 | 1 | Function Generator | 3311-A | HEWLETT PACKARD | 339.25 | 339.25 |
| 33 | 1 | Measuring System Module (for Electronic counters) | 5300-A | " | 575.00 | 575.00 |
| 04 | 1 | Timer/Counter module (for electronic Counters) | 5303-B | " | 948.75 | 948.75 |

| GE: | QUANT: | DESCRIPTION: | CAT.No. | EQUALTO | UNITS PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|---|
| 6 | 1 | Battery Pack Module '( For Electronic Counters) | 5310-A | HEWLETT PACKARD ..... | 316.25 | 316.25 |
| 3 | 1 | Carrying case (For Electronic Counters) | 18019A- | " | 57.50 | 57.50 |
| 3 | 1 | Service suport pack for electronic counters. | HP10548A | " | 299.00 | 299.00 |
| | 1 | Tube Unit evacuating panel | 46-175325CI | GENERAL ELECTRIC | 4.495.20 | 4.495.20 |
| | 1 | Service Stand for MX-75 - MX-100 and MX-125 Tube Units. | 46-175299CI | " | 354.00 | 354.00 |
| | 1 | Vacuum Pump 60 Hz | 46-179912PI | " | 1.952.40 | 1.952.40 |
| 3 | 3 | Beta, Gamma Geiger Survey meter | 655-186 | PICKER | 935.00 | 935.00 |
| 3 | 1 | Probe for 655186 Alfha, beta, gamma | 655-187 | " | 13.00 | 13.00 |
| 6 | 4 | X-Ray/Gamma dosimeter, 0-200mR | 655-010 | " | 125.00 | 500.00 |
| 6 | 1 | Transistorized Dosimeter Charger | 655-019 | " | 155.00 | 155.00 |
| 7 | 1 | Dosimeter calibrator | 633-026 | " | 85.00 | 85.00 |
| 1 | 1 | Step Wedge & Spin top comb. mod.#4-55 | 293-630 | " | 43.00 | 43.00 |
| 5 | 1 | Rate and dose radiation measuring kit mod. 35050 W/96020 and 96030 probes | | " | 2.500.00 | 2.500.00 |
| 6 | 1 | Pie mesh whole field (20, 40, 60, 80) pie ( 55, 100 ) or (20, 50 ) | | " | 100.00 | 100.00 |
| 5 | 1 | X - Ray tube Bench tester | 36 | " | 325.00 | 325.00 |
| | | TOTAL ..... | | | | 50.678.96 |

ELECTRICAL CENTRAL - SHOP

LIST OF TOOLS, EQUIPMENT AND SUPLIES

PAGE 1 OF 4

| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE. | EXTENDED PRICE |
|---|---|---|---|---|---|
| 4 | Reversible Rotary Hammer Drill 3/8" | 9GT1811 | Sears Craftsman | 76 45 | 305 80 |
| 2 | Electric Drill 1/2" Chevy duty 7/8HP. | 9GT1140 | " | 75 90 | 151 80 |
| 6 | Lathe Speed Drill for 115 Pc. Set | 9GT67115 | " | 179 85 | 1079 10 |
| 6 | Screw extractor set | 9GT67272 | " | 5 70 | 34 20 |
| 8 | Masonry Bits (7 piece set) | 9GT87347 | " | 11 60 | 92 80 |
| 4 | Drill Bit Sharpener | 9GT6692 | " | 32 45 | 131 40 |
| 8 | Ball-Pein Hammers (8 oz.) | 9GT38472 | " | 6 [illegible] | 50 40 |
| 8 | Ball-Pein Hammers (16 oz.) | 9GT38474 | " | 8 10 | 64 80 |
| 6 | " " " (32 oz.) | 9GT38476 | " | 10 10 | [illegible] |
| 3 | Nail Hammers | 9GT3820 | " | 11 10 | 33 30 |
| 6 | Rubber Mallet (Hammers) (16 oz.) | 9GT4578 | " | 5 30 | 31 80 |
| 6 | Half Hatchet | 9GT4812 | " | 13 75 | 82 50 |
| 6 | Wrecking Bars | 9GT65981C | " | 6 20 | 37 20 |
| 4 | Stud Driver (Steel) | 9GT3571 | " | 4 90 | 19 60 |
| 500 | Steel Driver Studs (1 Inch) | 9GT35701 | " | 1 45 | 725 00 |
| 500 | " " " (1 1/2 Inch) | 9GT35703 | " | 1 45 | 725 00 |
| 200 | " " " (2 Inch) | 9GT35705 | " | 1 45 | 290 00 |
| 200 | " " " (3 Inch) | 9GT35709 | " | 1 45 | 290 00 |
| 10 | Screw Driver set (20 piece) | 9GT61002 | " | 37 10 | 371 00 |
| 10 | 4 piece Screw Holding Drive Set | 9GT61203 | " | 9 30 | 93 00 |
| 4 | Heavy Duty Riveter | 9GT7475 | " | 15 30 | 61 20 |
| 200 | Aluminum Rivets (1/8) Short (for 9GT74501) | 9GT74501 | " | 1 05 | 210 00 |
| 200 | " " (1/8) Medium | 9GT74502 | " | 1 05 | 210 00 |
| 300 | " " (3/32") Long | 9GT74504 | " | 1 05 | 315 00 |

NOTE: Item # 9GT38472 has been replaced by 9GT3840, & Item # 9GT38477 has been replaced by 9GT38465.

LIST OF TOOLS, EQUIPMENT AND SUPLIES

ELECTRICAL CENTRAL - SHOP



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE | ESTIMATED PRICE |
|---|---|---|---|---|---|
| 200 | Aluminum Rivets (5/32 Medium) (for 9GT7475) | 9GT74503 | Sears Craftsman | 1 05 | 210 00 |
| 300 | " " (3/16" Medium) " | 9GT74505 | " | 1 05 | 315 00 |
| 300 | " " (3/16" Long) " | 9GT74506 | " | 1 05 | 315 00 |
| 200 | Steel Rivets (1/8" Short) " | 9GT74507 | " | 1 05 | 210 00 |
| 200 | " " (1/8" Medium) " | 9GT74508 | " | 1 05 | 210 00 |
| 200 | " " (1/8" Long) " | 9GT74509 | " | 1 05 | 210 00 |
| 4 | Optical tape measure | 9GT3909 | " | 24 00 | 96 00 |
| 5 | 24 Inches Level | 9GT39955 | " | 6 80 | 34 00 |
| 8 | 9 Inches Torpedo level | 9GT39624 | " | 4 [illegible] | [illegible] |
| 2 | Winding Reel tape | 9GT39002 | " | 13 65 | 27 30 |
| 4 | Replacement Blades for 9GT39002 | 9GT39032 | " | 7 60 | 30 40 |
| 6 | Lock tape (12') | 9GT39218 | " | 6 85 | 41 10 |
| 6 | Combination Square | 9GT39543 | " | 7 30 | 43 80 |
| 6 | Aluminum Rafter Square | 9GT39641C | " | 7 90 | 47 40 |
| 6 | Punch, Line up and Chisel set | 9GT43031 | " | 18 00 | 108 00 |
| 15+15 | Brush and Scrapper + Curved back Brush | 9GT3663 | " | 3 10 | 46 50 |
| 6 | Flexible Mask Impact Goggles | 9GT1859 | " | 2 20 | 13 20 |
| 1 | Tap and Die set (Metric) | 9GT52096 | " | 110 00 | 320 00 |
| 3 | Tap and die set (Inches) | 9GT52151 | " | 107 70 | 323 10 |
| 6 | Hacksaws | 9GT3558 | " | 5 70 | 34 20 |
| 50 | Hacksaw Blades (for 9GT3558) | 9GT65876 | " | 1 40 | 70 00 |
| 50 | " " " " | 9GT65874 | " | 1 40 | 70 00 |
| 50 | " " " " | 9GT65872 | " | 1 40 | 70 00 |
| 6 | Close Quarter Hacksaw | 9GT35481 | " | 4 20 | 25 20 |

* NOTE: Item 9GT3668 has been replaced by 9GT3647 & 3668.

ELECTRICAL CENTRAL - SHOP

LIST OF TOOLS, EQUIPMENT AND SUPLIES



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO Sears | UNIT PRICE. | | EXTENDED PRICE | |
|---|---|---|---|---|---|---|---|
| 3 | Magnetic Pick up tool | 9GT4132 | Craftsman | 3 | 20 | 9 | 60 |
| 3 | Flexible Magnetic Pick-up-tool | 9GT4179 | " | 2 | 50 | 7 | 50 |
| 6 | File Cleaning Brush | 9GT6782 | " | 1 | 60 | 9 | 60 |
| 6 | 16" ARC Joint Pliers | 9GT45384 | " | 11 | 20 | 67 | 20 |
| 3 | 7" Battery Pliers | 9GT44763 | " | 3 | 45 | 10 | 35 |
| 6 | Slip Joint Pliers | 9GT45373 | " | 3 | 40 | 20 | 40 |
| 6 | Lineo Mens' Pliers | 9GT45181 | " | 8 | 00 | 48 | 00 |
| 6 | Nail Cutting Nippers | 9GT45241 | " | 6 | 90 | 41 | 40 |
| 6 | Rent Needle nose Pliers | 9GT45083 | " | 6 | 70 | 40 | 20 |
| 6 | Wide Jaw diagonal Cutting Pliers | 9GT45074 | " | 6 | 50 | 39 | 00 |
| 6 | Diagonal Cutting Pliers | 9GT45073 | " | 6 | 50 | 39 | 00 |
| 6 | Long Chain nose Pliers | 9GT45081 | " | 5 | 90 | 35 | 40 |
| 6 | Snap Ring Pliers | 9GT45358 | " | 7 | 60 | 45 | 60 |
| 12 | Replacement Tips for 9GT45358 | 9GT4535 | " | 1 | 75 | 21 | 00 |
| 6 | Precision Pliers | 9GT4505 | " | 6 | 55 | 39 | 30 |
| 3 | "Mini" precision pliers | 9GT45904 | " | 7 | 80 | 62 | 40 |
| 2 | 17 Inch Cutters (Rod and bolt cutters) | 9GT6560 | " | 18 | 90 | 37 | 80 |
| 6 | Locking Plier Wrench | 9GT45942 | " | 4 | 15 | 24 | 90 |
| 6 | " " " | 9GT45961 | " | 4 | 90 | 29 | 40 |
| 8 | Pump Oiler | 9GT5582 | " | 3 | 05 | 24 | 40 |
| 6 | Compound Leverage Snips | 9GT4275 | " | 7 | 60 | 45 | 60 |
| 6 | Duck Bill Snips | 9GT45461 | " | 6 | 10 | 36 | 60 |
| 3 | Industrial Flash light | F34GT4460 | " | 2 | 00 | 16 | 00 |
| 4 | Hand Impact Driver | 9GT47634 | " | 14 | 80 | 59 | 20 |

LIST OF TOOLS, EQUIPMENT AND SUPLIES

ELECTRICAL CENTRAL - SHOP



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| 8 | Replacement Bits for 9GT47634 | 9GT47631 | Sears Craftsman | 1 00 | 8 00 |
| 8 | " " " " | 9GT47635 | " | 1 00 | 8 00 |
| 8 | " " " " | 9GT47632 | " | 1 00 | 8 00 |
| 8 | " " " " | 9GT47636 | " | 1 00 | 8 00 |
| 8 | " " " " | 9GT47637 | " | 1 10 | 8 80 |
| 8 | " " " " | 9GT47638 | " | 2 65 | 21 20 |
| 3 | Universal Nut Cracker | 9GT4772 | " | 19 50 | 21 [illegible] |
| 6 | Replacement Cutter for 9GT4772 | 9GT4773 | " | 2 60 | 15 60 |
| 10 | Hex Key Wrenches set (Standard) | 9GT46683 | " | 3 20 | 32 00 |
| 10 | " " " " (Metric) | 9GT46609 | " | 4 50 | 45 [illegible] |
| 6 | Adjustable end wrenches set | 9GT46607 | " | 19 00 | 114 00 |
| 6 | Nut Driver set (standard) | 9GT4196 | " | 14 80 | 88 80 |
| 6 | " " " (Metric) | 9GT4197 | " | 14 80 | 88 80 |
| 6 | Socket Wrench sets (standard) | 9GT46392 | " | 66 70 | 400 20 |
| 6 | " " " (Metric) | 9GT46149 | " | 36 50 | 219 00 |
| 6 | Combination Wrenches (Standard) | 9GT46968 | " | 52 90 | 317 40 |
| 6 | " " (Metric) | 9GT42903 | " | 41 40 | 248 40 |
| 1 | 12 Drawer tool chest | 9GT65259N | " | 235 25 | 235 25 |
| 1 | 10 " cabinet | 9GT65041N | " | 332 35 | 332 35 |
| 4 | 7 " chest | 9GT65227C | " | 50 60 | 202 40 |
| 1 | Circular Gauge | 9GT4023 | " | 8 35 | 8 35 |
| 2 | Standard Dial Caliper and metric | 9GT36668 | " | 57 50 | 115 00 |
| 1 | Flat leg dividers 6" | 9GT38597 | " | 6 35 | 6 35 |
| 2 | Pulg in analyzer for grounded outlets & adaptors | 34GT6083 | " | 3 65 | 7 30 |

LIST OF TOOLS, EQUIPMENT AND SUPLIES — ELECTRICAL CENTRAL - SHOP



| QUANT. | DESCRIPTION. | CAT. NUMBER | EQUAL TO | UNIT PRICE. | EXTENDED PRICE |
|---|---|---|---|---|---|
| 2 | 200 Watt soldering iron | 9GT53832 | Sears Craftsman | 15 95 | 31 70 |
| 6 | Replacement tip for 9GT53832 | 9GT53835 | " | 3 70 | 22 20 |
| 2 | Pencil type soldering iron | 9GT54513 | " | 8 35 | 16 70 |
| 6 | Replacement for 9GT54513 | 9GT53515 | " | 1 70 | 10 20 |
| 6 | " " " | 9GT53516 | " | 1 70 | 10 20 |
| 6 | 3 Wire Grounded extension cord | 34GT5835 | " | 14 90 | 89 40 |
| 2 | 300 piece electrical repair kit with tool | 34GT6066 | " | 37 00 | 74 00 |
| 4 | 300 piece electrical repair kit | 34GT6065 | " | 32 70 | 130 80 |
| 2 | Bench mount conduit vise | 34GT5007 | " | 11 65 | 23 30 |
| 3 | Conduit bender | 34GT5005 | " | 12 70 | 38 10 |
| 3 | 36 Inch Steel handle | 34GT5006 | " | 5 30 | 15 90 |
| 5 | Fish tape red with 100' tape | 34GT5140 | " | 19 05 | 95 25 |
| 2 | Type heavy duty mechanics stepladder | F30GT41141 | " | 153 00 | 306 00 |
| 2 | Type " " 2 Way convertible ladder | F30GT4115SN | " | 155 95 | 311 90 |
| 3 | Cable slitter | 37B323 | JENSEN 76 | 6 80 | 20 40 |
| 3 | Safety utility knife | 39B321 | " | 2 70 | 8 10 |
| 20 | Blades replacement for 39B321 | 39B323 | " | 0 80 | 1600 |
| 5 | Tools case | 36B661 | " | 46 00 | 230 00 |
| 6 | Volt OHM milliampere meter | 50B150 | " | 112 70 | 676 20 |
| 3 | Automatic Stripper | 34GT6072 | Sears Craftsman | 9 50 | 28 50 |
| 1 | Cases for 50B150 | 50B225 | JENSEN | 26 45 | 26 45 |
| 3 | Clamp on Ammeter set | 56B240 | " | 126 50 | 329 50 |
| 2 | Soldering Guns | 47B490 | " | 25 25 | 50 50 |
| 2 | " " | 47B470 | " | 19 00 | 38 00 |

LIST OF TOOLS, EQUIPMENT AND SUPLIES — ELECTRICAL CENTRAL - SHOP



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE. | EXTENDED PRICE |
|---|---|---|---|---|---|
| 6 | Replacement tips for 47B490 | 47B207 | JENSEN 76 | 1 40 | 8 40 |
| 6 | " " " 47B470 | 47B205 | " | 1 40 | 8 40 |
| 12 | Ersin multicore solder | 16B206 | " | 13 60 | 163 20 |
| 12 | " " " | 16B202 | " | 11 95 | 143 40 |
| 10 | Flux for tin lead solders | 15B302 | " | 4 95 | 49 50 |
| 12 | Contac cleaner (aerosol) | 60B130 | " | 2 40 | 28 80 |
| 1 | Illuminated magnifier | 28B200 | " | 81 65 | 81 65 |
| 8 | Electrician's Tool Holder | 9GT45446 | Sears Craftsman | 7 25 | 58 00 |
| | | | (1978 prices)Total: | | $14,272.70 |
| | | | | | 2,954.54 |
| | | | | | $17,727.24 |

Best Available Document

LIST OF TOOLS, EQUIPMENT AND SUPPLIES — REFRIGERATION-CENTRAL SHOP



| QUAN. | DESCRIPTION. | CAT. NUMBER | EQUAL TO | UNIT PRICE. | EXTENDED PRICE |
|---|---|---|---|---|---|
| 2 | 3/8 Inch drills | 9GT1148 | Sears Craftsman | 64 40 | 128 80 |
| 1 | 1/2 Inch Heavy Duty Drill | 9GT1149 | " | 75 45 | 75 45 |
| 1 | 115 Pc. Twist drill bit set | 9GT67115 | " | 179 85 | 179 85 |
| 1 | Bits for Masonry set | 9GT67347 | " | 11 60 | 11 60 |
| 1 | Drill Bit Sharpeners | 338725 | JENSEN | 15 75 | 15 75 |
| 1 | Screw extractors set | 9GT67572 | Sears Craftsman | 3 45 | 3 45 |
| 4 | Ball pein hammers (12 oz.) | 9GT38473 | " | 5 90 | 23 20 |
| 2 | Nail Hammers | 9GT3636 | " | 10 50 | 21 00 |
| 2 | Rubber Mallet | 9GT4578 | " | 5 30 | 10 60 |
| 1 | Screw Drivers set | 9GT41082 | " | 37 10 | 74 20 |
| 1 | Riveters (Heavy duty) | 9GT7475 | " | 15 30 | 15 30 |
| 50 | Aluminum Rivets (for 9GT7475) Short | 9GT74501 | " | 1 05 | 52 50 |
| 50 | " " " " (Med.) | 9GT74502 | " | 1 05 | 52 50 |
| 50 | " " " " (Med.) | 9GT74503 | " | 1 05 | 52 50 |
| 50 | " " " " (Long) | 9GT74504 | " | 1 05 | 52 50 |
| 50 | " " " " (Med.) | 9GT74505 | " | 1 05 | 52 50 |
| 50 | " " " " (Long) | 9GT74506 | " | 1 05 | 52 50 |
| 10 | Aluminum Rivets (for 9GT7475) (Short) | 9GT74507 | " | 1 05 | 10 50 |
| 10 | " " " " (Med.) | 9GT74508 | " | 1 05 | 10 50 |
| 10 | " " " " (Long) | 9GT74509 | " | 1 05 | 10 50 |
| 2 | 24 Inch level | 9GT39955 | " | 6 50 | 13 00 |
| 2 | Torpedo level | 9GT39833 | " | 5 30 | 10 60 |
| 2 | Roofer Square | 9GT39640 | " | 12 55 | 25 10 |
| 2 | Combination Square | 9GT39543 | " | 7 30 | 14 60 |

* NOTE: Item 9GT38473 has been replaced by 9GT38464.

LIST OF TOOLS, EQUIPMENT AND SUPLIES — REFRIGERATION-CENTRAL SHOP



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE. | EXTENDED PRICE |
|---|---|---|---|---|---|
| 6 | 9 piece flaring tool set | 9GT55271 | Sears Craftsman | 21 15 | 126 90 |
| 2 | Steel platform truck (2000 Lb) | F9GTS7236N | " | 190 90 | 381 80 |
| 2 | Material handling tricks (600 Lb) | F9GTS723SN | " | 88 55 | 177 10 |
| 1 | 50 piece tap and die set | 9GT52001 | " | 225 35 | 225 35 |
| 6 | Flexible Magnetic pick up tool | 9GT4173 | " | 2 50 | 10 00 |
| 2 | 10 Inch ARC Joint pliers | 9GT45384 | " | 11 20 | 22 40 |
| 2 | 5 Inch ignition pliers | 9GT4513 | " | 2 25 | 4 50 |
| 2 | Slip joint pliers | 9GT45373 | " | 3 35 | 6 70 |
| 2 | Lineman pliers | 9GT45162 | " | 7 00 | 14 00 |
| 2 | Pad cutting nippers | 9GT4502 | " | 6 85 | 13 70 |
| 2 | Long needle nose pliers | 9GT45083 | " | 6 85 | 13 70 |
| 2 | Diagonal Cutting pliers | 9GT45073 | " | 6 50 | 13 00 |
| 2 | Snap ring pliers | 9GT45358 | " | 7 60 | 15 20 |
| 8 | Replacement tips for 9GT45358 | 9GT4535 | " | 1 75 | 14 00 |
| 2 | Locking pierwrench (10 inches) | 9GT45341 | " | 4 65 | 9 30 |
| 2 | " " " " " | 9GT45343 | " | 8 20 | 16 40 |
| 2 | Duck bill snips (12 inches) | 9GT45462 | " | 7 65 | 15 30 |
| 2 | Pump oiler | 9GT5582 | " | 3 05 | 6 10 |
| 1 | Rod and bolt cutter (17 inches) | 9GT4560 | " | 18 90 | 18 90 |
| 1 | Three jaw puller | 9GT46902 | " | 19 05 | 19 05 |
| 2 | Adjustable end wrenches set | 9GT44607 | " | 19 00 | 38 00 |
| 2 | Mechanic tool set (standard) | 9GT33038C | " | 24 25 | 140 50 |
| 2 | " " " (Metric) | 9GT33188C | " | 75 65 | 151 30 |
| 3 | Standard and metric dial caliper | 9GT36665 | " | 52 90 | 52 90 |

* NOTE: Item F9GT87236N has been replaced by F9GT87256N.
Item F9GT87235N has been replaced by F9GT87265N.

LIST OF TOOLS, EQUIPMENT AND SUPLIES — REFRIGERATION - CENTRAL SHOP



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE. | EXTENDED PRICE |
|---|---|---|---|---|---|
| 1 | Flat leg divider (6 inches) | 9GT38592 | Sears Craftsman | 6 35 | 6 35 |
| 3 | 200 Watts soldering iron | 9GT53832 | " | 15 85 | 47 55 |
| 6 | Replacement tip for 9GT53832 | 9GT53835 | " | 3 70 | 22 20 |
| 2 | Electrical repair kit with tool | 34GT6066 | " | 37 00 | 74 00 |
| 4 | 300 piece electrical repair kit (no tool) | 34GT6065 | " | 32 70 | 65 40 |
| 2 | Vacuum base portable vise | 9GT5174 | " | 14 15 | 28 30 |
| 1 | Heavy duty bench vise | 9GT52810 | " | 67 35 | 67 35 |
| 2 | 12 piece punch, line up and chisel set | 9GT43031 | " | 18 00 | 36 00 |
| 1 | Volt OHM milliampere | 50B150 | JENSEN | 112 70 | 112 70 |
| 5 | Amp. Clamp | 50-100 | " | 82 20 | 493 30 |
| 4 | Tinner Snips | 49330 | " | 8 60 | 34 40 |
| 3 | Soldering Guns 240/325 Watts | 47E490 | " | 25 25 | 75 75 |
| 6 | Replacement tips for 47E490 | 47E207 | " | 1 40 | 8 40 |
| 12 | Brain multicore solder (036") | 14E204 | " | 13 05 | 156 60 |
| 3 | Air conditioner service set | 2043ACTB | SNAP-ON | 1791 00 | 5373 00 |
| 2 | Yellow replacement hose | GA-281 | " | 5 15 | 10 30 |
| 2 | Red replacement hose | GA-280 | " | 5 15 | 10 30 |
| 2 | Flat form Ludder | F30GT41136N | Sears Craftsman | 91 30 | 182 60 |
| | | | | Total: | $9,265.35 |
| | | (1978 prices) 20% contingency | | | 1,853.07 |
| | | | | Total | $ 11,118.42 |

Proposed Equipment & Tools for Two sub-centers and nine Regional Hospitals

| | | | | | |
|---|---|---|---|---|---|
| Sub-C | Matagalpa | Req | 5 | $ 14,984.34 | |
| Sub-C | Jinotepe | Req | 3 | 14,984.34 | |
| | | Sub-total | | | $ 29,968.68 |

Revision. Additional 3 Sets of tools for 3 sub-centers

| | | | | | |
|---|---|---|---|---|---|
| Sub-C | Leon | Req | 1 | $ 14,984.34 | |
| Sub-C | Juigalpa | Req | 6 | 14,984.34 | |
| Sub-C | Bluefields | Req | 7-8 | 14,984.34 | |
| | | Sub-total | | | $ 44,953.02 |

Tools for 5 sub-centers: Total $ 74,921.70

Nine (9) Regional Hospitals

| | | | | | |
|---|---|---|---|---|---|
| HOSP | Esteli | Req | 4 | $ 3,096.42 | |
| HOSP | Matiguas | Req | 5 | 3,096.42 | |
| HOSP | Ocotal | Req | 4 | 3,096.42 | |
| HOSP | Somoto | Req | 4 | 3,096.42 | |
| HOSP | Jinotega | Req | 5 | 3,096.42 | |
| HOSP | Granada | Req | 3 | 3,096.42 | |
| HOSP | Masaya | Req | 3 | 3,096.42 | |
| HOSP | Rivas | Req | 3 | 3,096.42 | |
| HOSP | Nandaime | Req | 3 | 3,096.42 | |
| | | Sub-total | | | $ 27,867.78 |

Revision. 12 Additional Tool sets for 12 Regional Hospitals

| | | | | | |
|---|---|---|---|---|---|
| HOSP | Chinandega | Req | 1 | $ 3,096.42 | |
| HOSP | Corinto | Req | 1 | 3,096.42 | |
| HOSP | Boaco | Req | 6 | 3,096.42 | |
| HOSP | Puerto Cabezas | Req | 7 | 3,096.42 | |
| HOSP | Aranjuez | Req | 5 | 3,096.42 | |
| HOSP | La Trinidad | Req | 4 | 3,096.42 | |
| HOSP | Siuna | Req | 7 | 3,096.42 | |
| HOSP | Bonanza | Req | 7 | 3,096.42 | |
| HOSP | Rosita | Req | 7 | 3,096.42 | |
| HOSP | Wilbascarma | Req | 7 | 3,096.42 | |
| HOSP | Nueva Guinea | Req | 8 | 3,096.42 | |
| HOSP | San Carlos | Req | 6 | 3,096.42 | |
| | | Sub-total | | | $ 37,157.04 |

Total for 21 sets of tools $ 65,024.82

Regional - 5 Sub-centers and 21 hospitals: GRAND TOTAL $139,946.52

TOTAL OF FIVE SUB-CENTERS

| QUANT. | DESCRIPTION: | CAT. NUMBER | EQUAL TO | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| 2 | Multiple outlet juntion box | 60B111 | Jensen | 31 50 | 63 00 |
| 2 | 5 piece Phillips Driver set | 3B195 | " | 9 80 | 19 60 |
| 2 | PIECE Scrulox " " | 3B383 | " | 10 85 | 21 70 |
| 2 | Clutch head | 3B115 | " | 2 40 | 4 80 |
| 2 | " " | 3B117 | " | 2 40 | 4 80 |
| 2 | " " | 3B119" | " | 2 70 | 5 40 |
| 2 | 14 piece shockproof hex Driver set | 40B351 | " | 21 80 | 43 60 |
| 2 | Shockproof spline screwdrivers | 40B347 | " | 9 80 | 19 60 |
| 2 | Precision screwdrivers kit's | 41B340 | " | 3 40 | 6 00 |
| 2 | " " " | 41B345 | " | 4 90 | 9 80 |
| 3 | Wrenches combination set inch | 61B251 | " | 42 50 | 127 50 |
| 3 | " " " Metric | 61B253 | " | 58 60 | 175 80 |
| 2 | Miniature 6 pice set | 108B656 | " | 8 65 | 17 30 |
| 3 | 21 piece socket set 1/4 drive | 358214 | " | 57 50 | 172 50 |
| 3 | Close-clearance ratchet wrenches | 71B100 | " | 26 00 | 78 00 |
| 3 | " " " " | 71B105 | " | 26 00 | 78 00 |
| 3 | " " " " | 71B115 | " | 27 15 | 81 45 |
| 3 | " " " " | 71B120 | " | 29 45 | 88 35 |
| 3 | " " " " | 71B125 | " | 29 45 | 88 35 |
| 3 | " " " " | 71B130 | " | 33 35 | 100 05 |
| 6 | Vice-Grip locking pliers | 131B105 | " | 5 75 | 34 50 |
| 3 | Piggy back nut driver kit | 3B120 | " | 12 20 | 36 60 |
| 3 | Internal retaining- ring pliers | 71B310 | " | 4 55 | 13 65 |

* NOTE: 1. Item # 60B111 has been replaced by 268B040.

LIST OF TOOLS, EQUIPMENT AND SUPLIES SUB-CENTER



| QUANT. | DESCRIPTION: | CAT. NUMBER | EQUAL TO | UNIT PRICE | | EXTENDED PRICE | |
|---|---|---|---|---|---|---|---|
| 3 | External retaining- ring pliers | 71B320 | Jensen | 4 | 55 | 13 | 65 |
| 1 | Heavy-Duty vacuum pump | 55B064 | " | 128 | 80 | 128 | 80 |
| 2 | Service Tweezer kit | 60B290 | " | 6 | 85 | 13 | 70 |
| 2 | 8 piece needle file kits | 14B319 | " | 20 | 00 | 40 | 00 |
| 3 | Safety utily knifel | 39B321 | " | 2 | 70 | 8 | 10 |
| 6 | Blades 5 pkg for 39B321 | 39B323 | " | 0 | 80 | 4 | 80 |
| 1 | All-purpose Skinning knife | 37B325 | " | 6 | 55 | 6 | 55 |
| 1 | Regular Tinner Snips | 4B337 | " | 7 | 50 | 7 | 50 |
| 3 | 15 PIECE ELECTRICIAN'S TOOL KIT | JTK10 | " | 72 | 45 | 217 | 35 |
| 3 | Magnetized torpedo level | 37B730 | " | 7 | 65 | 22 | 95 |
| 2 | Cable slitter | 37B323 | " | 6 | 75 | 13 | 50 |
| 2 | Master kit with 30 interchangeable tools | 41B335 kit | " | 46 | 00 | 92 | 00 |
| 2 | Grasping tool | 73B010 | " | 9 | 60 | 19 | 20 |
| 2 | " " | 73B020 | " | 15 | 95 | 31 | 90 |
| 2 | " " | 73B030 | " | 14 | 35 | 28 | 70 |
| 1 | Instrument oiler | 83B100 | " | 1 | 45 | 2 | 90 |
| 1 | Alcohol lamp | 31B004 | " | 3 | 45 | 3 | 45 |
| 3 | Debarring tool set | 65B420 | " | 42 | 55 | 42 | 55 |
| 2 | Purh drill | 185B015 | " | 28 | 80 | 56 | 40 |
| 2 | Spring tool | 36B631 | " | 5 | 75 | 11 | 50 |
| 2 | Hook and pick swinger | 69B033 | " | 3 | 75 | 7 | 50 |
| 3 | Pin punches, 8 punches set | 39B146 | " | 14 | 25 | 42 | 75 |

LIST OF TOOLS, EQUIPMENT AND SUPLIES SUB-CENTER



| QUANT. | DESCRIPTION: | CAT. NUMBER | EQUAL TO | UNIT PRICE | | EXTENDED PRICE | |
|---|---|---|---|---|---|---|---|
| 3 | Offset drivers #2 #6 | 36B289 | Jensen | 4 | 60 | 13 | 80 |
| 3 | " " #6 #10 | 36B291 | " | 6 | 90 | 20 | 70 |
| 3 | " " #8 #12 | 36B293 | " | 8 | 05 | 24 | 15 |
| 3 | " " #1 and #2 | 36B283 | " | 3 | 45 | 10 | 35 |
| 3 | " " #2 and #3 | 36B285 | " | 4 | 05 | 12 | 15 |
| 3 | Screw extractors | 36B511 | " | 4 | 60 | 13 | 80 |
| 1 | Precision stop watch | 166B100 | " | 36 | 20 | 36 | 20 |
| 2 | Riveters | 36B555 kit | " | 36 | 75 | 73 | 50 |
| 2 | Inspection mirror | 351016 | " | 3 | 40 | 6 | 80 |
| 2 | Magnetic tools | 69B021 | " | 4 | 95 | 9 | 90 |
| 2 | Flexible pick up tool | 603265 | " | 3 | 10 | 6 | 20 |
| 4 | Tool kit with meter | JTK75 | " | 462 | 30 | 1849 | 20 |
| 2 | Tool kit | JTK64 | " | 196 | 65 | 393 | 30 |
| 3 | Tool Chests | 157B417 | " | 31 | 35 | 94 | 05 |
| 2 | Volt OHM milliampere | 508150 YOR | " | 112 | 70 | 225 | 40 |
| 3 | Cutters 428430 | 428430 | " | 22 | 35 | 67 | 05 |
| 2 | Clamp-on ammeter set | 566240 | " | 126 | 50 | 253 | 00 |
| 1 | Miniature power tools | 428314 | " | 141 | 45 | 141 | 45 |
| 3 | Assorted Accesories 34 P. | 228195 | " | 23 | 00 | 69 | 00 |
| 1 | Drill Sharpener | 39B235 | " | 13 | 75 | 13 | 75 |
| 2 | 12 piece Sharpener | 22B123 | " | 16 | 70 | 33 | 40 |
| 1 | Tap and die sets inch set | 146B180 | " | 60 | 00 | 60 | 00 |
| 1 | " " " " metric set | 146B190 | " | 74 | 75 | 74 | 75 |

LIST OF TOOLS, EQUIPMENT AND SUPLIES SUB-CENTER



| QUANT. | DESCRIPTION: | CAT. NUMBER | EQUAL TO | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| 1 | Work holder (Hold in any position) | 67B149 | Jensen | 20 65 | 20 65 |
| 2 | Wire strippers type T-22 | 14B457 | " | 8 65 | 17 30 |
| 2 | Solderless terminal wire stripper kit | 36B347 | " | 55 80 | 111 60 |
| 1 | Soldering irons 25 Watt | 49B477 | " | 18 40 | 18 40 |
| 1 | " " 35 " | 49B487 | " | 18 40 | 18 40 |
| 2 | " " 60 " | 49B497 | " | 23 00 | 23 00 |
| 2 | " " replacement tips | 49B120 | " | 3 10 | 6 20 |
| 2 | " " " " | 49B125 | " | 3 50 | 7 00 |
| 2 | " " " " | 49B130 | " | 3 75 | 7 50 |
| 2 | Ball pein hammers 4 oz. | 61B027 | " | 4 30 | 8 60 |
| 2 | " " " 6 " | 61B028 | " | 4 70 | 9 40 |
| 2 | " " " 12 " | 61B029 | " | 5 40 | 10 80 |
| 1 | Hammer 36 oz. | 37B327 | " | 13 90 | 27 80 |
| 1 | Soft-face hammer soft tip | 173B003 | " | 2 60 | 2 60 |
| 1 | " " " med. tip | 173B005 | " | 2 60 | 2 60 |
| 1 | " " " " " | 173B009 | " | 2 60 | 2 60 |
| 1 | " " " hard " | 173B011 | " | 2 60 | 2 60 |
| 1 | Soldering-Guns 100/140W | 47B470 | " | 19 00 | 19 00 |
| 1 | " " 240/235W. | 47B490 | " | 25 25 | 25 25 |
| 4 | Solder | 15B100 | " | 12 65 | 50 60 |
| 4 | " | 15B104 | " | 11 45 | 45 80 |
| 3 | " | 15B108 | " | 11 10 | 33 30 |
| 3 | " | 16B200 | " | 11 35 | 34 05 |
| 3 | " | 16B202 | " | 11 95 | 35 85 |

LIST OF TOOLS, EQUIPMENT AND SUPLIES

SUB-CENTER



| QUANT. | DESCRIPTION: | CAT. NUMBER | EQUAL TO | UNIT PRICE | | EXTENDED PRICE | |
|---|---|---|---|---|---|---|---|
| 3 | Solder | 16B204 | Jensen | 13 | 05 | 39 | 15 |
| 3 | " | 16B208 | " | 14 | 50 | 43 | 50 |
| 4 | Special solder | 15B170 | " | 23 | 75 | 95 | 00 |
| 4 | Flux 1 pt. bottle | 15B302 | " | 4 | 95 | 19 | 80 |
| 2 | Relay Pliers (Spring adjuster) | 63B117 | " | 8 | 65 | 17 | 30 |
| 2 | Adjuster | 63B113 | " | 2 | 95 | 5 | 90 |
| 2 | Contact adjuster | 63B121 | " | 9 | 15 | 18 | 30 |
| 2 | Spring adjuster | 63B123 | " | 3 | 20 | 6 | 40 |
| 2 | 18 piece relay adjusting kit | 63B60 | " | 66 | 15 | 132 | 30 |
| 2 | Brushes | 63B147 | " | 1 | 15 | 2 | 30 |
| 2 | " | 63B149 | " | 0 | 75 | 1 | 50 |
| 4 | " | 63B151 | " | 3 | 85 | 7 | 70 |
| 2 | " | 31B585 | " | 3 | 75 | 15 | 00 |
| 2 | " | 31B575 | " | 3 | 75 | 7 | 50 |
| 2 | Metric hex-key set | 31B570 | " | 3 | 40 | 6 | 80 |
| 2 | Non metal inch-metric tapes | 158B028 | " | 1 | 75 | 3 | 50 |
| 1 | Optical tap measure | 222B010 | " | 22 | 95 | 45 | 90 |
| 1 | Case for 193B100 | 193B100 | " | 23 | 00 | 23 | 00 |
| 4 | Tape measure metric and inch | 193B200 | " | 5 | 35 | 5 | 35 |
| 1 | Dial caliper | 195B212 | " | 4 | 70 | 18 | 80 |
| 1 | Wire Gauge | 110B440 | " | 68 | 55 | 68 | 55 |
| 1 | Magnifocuser (14" fo. Dis.) | 39B222 | " | 9 | 80 | 9 | 80 |
| | | 520720 | " | 17 | 20 | 17 | 20 |

CENTRAL SUPPLY
Representantes
Importadores
Distribuidores
Mar. 20 N. Nicaragua

| QUANT. | DESCRIPTION: | CAT. NUMBER | EQUAL TO | UNIT PRICE | | EXTENDED PRICE | |
|---|---|---|---|---|---|---|---|
| 1 | Iluminted magnifocuser | 28B200 | Jensen | 81 | 65 | 81 | 65 |
| 1 | Prolites (Lamp Bases) | 206B025 | " | 71 | 90 | 71 | 90 |
| 1 | Electric Drills 600 Watt | 9GT1149 | Sears Craftsman | 75 | 90 | 75 | 90 |
| 1 | Single speed drill 1/3 H.P. | 9GT11191 | " | 32 | 20 | 32 | 20 |
| 3 | Grinding-Wheels | 9GT64354 | " | 6 | 25 | 18 | 75 |
| 3 | " " | 9GT64355 | " | 6 | 25 | 18 | 75 |
| 3 | " " | 9GT64236 | " | 6 | 25 | 18 | 75 |
| 3 | Wire wheels | 9GT64813 | " | 3 | 95 | 11 | 85 |
| 3 | " " | 9GT64815 | " | 4 | 20 | 12 | 60 |
| 3 | " " | 9GT64835 | " | 8 | 00 | 24 | 00 |
| 3 | 20 pc. Screwdriver set | 9GT41082 | " | 37 | 10 | 111 | 30 |
| 3 | 8 pc. " " | 9GT41273 | " | 30 | 75 | 92 | 25 |
| 2 | Leather tool holders | 9GT45447 | " | 10 | 50 | 21 | 00 |
| 2 | Drain Auger and sewer rods | 9GT55092C | " | 63 | 45 | 126 | 90 |
| 1 | Flaring tool set | 9GT55271 | " | 21 | 15 | 21 | 15 |
| 2 | Heavy Duty pipe Wrench | 9GT55676 | " | 7 | 95 | 15 | 90 |
| 2 | " " " " | 9GT55677 | " | 10 | 35 | 20 | 70 |
| 1 | Basin Wrench | 9GT55686 | " | 4 | 80 | 4 | 80 |
| 2 | Eye protectors | 9GT1859 | " | 2 | 20 | 4 | 40 |
| 1 | Material Handling trucks | F9GT67206X | " | 425 | 50 | 425 | 50 |
| 1 | Manual Hoists | T9GT7872L | " | 205 | 85 | 205 | 85 |
| 2 | Hack Saws flush-cutting | 9GT3558 | " | 5 | 70 | 11 | 40 |
| 2 | Drill Bits set 115 pc. (G) | 9GT67115 | " | 179 | 85 | 359 | 70 |
| 2 | 5 pc. Drill Bits set for concret | 9GT67344 | " | 5 | 30 | 10 | 60 |

LIST OF TOOLS, EQUIPMENT AND SUPLIES SUB-CENTER



| QUANT. | DESCRIPTION: | CAT. NUMBER | EQUAL TO | UNIT PRICE | | EXTENDED PRICE | |
|---|---|---|---|---|---|---|---|
| 1 | Three-Jaw Puller 0-5 1/2" | 9GT46902 | Sears Craftsman | 19 | 05 | 19 | 05 |
| 1 | " " " 0-7 1/2" | 9GT46642 | " | 35 | 95 | 35 | 95 |
| 1 | Grease Guns | 28GT4952 | " | 7 | 10 | 7 | 10 |
| 1 | Flexible grease Gun Hose | 28GT4958 | " | 3 | 00 | 3 | 00 |
| 1 | Battery Chargers | 28GT7111C | " | 151 | 20 | 151 | 20 |
| 2 | " Hydrometer | 28GT71004 | " | 2 | 15 | 4 | 30 |
| 1 | Hydraulic Hand Jacks | 28GT1207C | " | 38 | 10 | 38 | 10 |
| 1 | " " " | 28GT1206 | " | 30 | 20 | 30 | 20 |
| 1 | 12 pc. Punch Line-up and chisel set | 9GT43031 | " | 18 | 00 | 18 | 00 |
| 2 | Hex key Wrenches | 9GT46683 | " | 3 | 15 | 6 | 30 |
| 2 | Adjustable end Wrenches | 9GT44602 | " | 5 | 80 | 11 | 60 |
| 2 | " " " | 9GT44603 | " | 6 | 85 | 13 | 70 |
| 2 | " " " | 9GT44604 | " | 8 | 25 | 16 | 50 |
| 2 | " " " | 9GT44605 | " | 11 | 10 | 22 | 20 |
| 1 | 10 pc. Nut-driver Screws-Driver set | 9GT45111 | " | 8 | 45 | 16 | 90 |
| 1 | 147 pc. set mechanic tools | 9GT43478N3 | " | 391 | 00 | 391 | 00 |
| 1 | Power plants 4.500 Watt | 32GT32194N | " | 989 | 00 | 989 | 00 |
| 1 | Portable electric compressor | 30GT15488N | " | 523 | 25 | 523 | 25 |
| 1 | H.D. Stepladder | F30GT41141N | " | 153 | 00 | 153 | 00 |
| 1 | H.D. Way extension ladder | F30GT41596N | " | 234 | 80 | 234 | 80 |
| 2 | Air filter and regulator | 30GT16023 | " | 22 | 70 | 45 | 40 |
| 1 | H.D. Blow Gun | 30GT16222 | " | 3 | 00 | 3 | 00 |
| 2 | Double male coupling | 30GT16281 | " | 1 | 40 | 2 | 80 |

LIST OF TOOLS, EQUIPMENT AND SUPLIES

SUB-CENTER



| QUANT. | DESCRIPTION: | CAT. NUMBER | EQUAL TO | UNIT PRICE | | EXTENDED PRICE | |
|---|---|---|---|---|---|---|---|
| 1 | Flexible nylon air hose | 30GT15221 | Sears Craftsman | 12 | 20 | 12 | 20 |
| 2 | Hose repair kit | 30GT16302 | " | 1 | 60 | 3 | 20 |
| 1 | AC Dual-Range ARC Welder 230 Amp. 230V, 60Hz. | 9GT20137N | " | 188 | 60 | 188 | 60 |
| 1 | Bench Grinder | 9GT1945L | " | 154 | 25 | 154 | 25 |
| 2 | H.D. Bench Vise | 9GT5181C | " | 67 | 30 | 134 | 60 |
| 2 | Dry Chemical fire extinguisher | 9GT5809C | " | 56 | 80 | 113 | 60 |
| 2 | Drill Presses | 9GT2137N | " | 297 | 85 | 595 | 70 |

(1978 prices)
20% contingency

Total: $12,486.95
2,497.39

TOTAL 14,984.34

GERARDO - SUAL S.A.
Representantes
Importadores
Distribuidores
Guatemala, C. A.

/brc.-

LIST OF TOOLS, EQUIPMENT AND SUPLIES HOSPITAL



TOTAL OF 21 REGIONAL HOSPITALS

| QUANT. | DESCRIPTION. | CAT. NUMBER | EQUAL TO | UNIT PRICE. | EXTENDED PRICE |
|---|---|---|---|---|---|
| 1 | Reversible drill 3/8" Inch | 9GT11134 | Sears Craftsman | 57 50 | 57 50 |
| 1 | Set 20 Pc. Twist drill bits for metal | 9GT6705 | " | 52 90 | 52 90 |
| 1 | 20 Pc. Set Screwdrivers | 9GT41032 | " | 37 10 | 37 10 |
| 1 | 9 inch level | 9GT39533. | " | 5 75 | 5 75 |
| 1 | Tool boxes | 9GT65334C | " | 31 50 | 31 50 |
| 1 | Flexible mask | 9GT1859 | " | 2 20 | 2 20 |
| 1 | Oilers (Pump-oiler) | 9GT5582 | " | 3 05 | 3 05 |
| 1 | Battery Chargers | 28GT7129 | " | 53 50 | 53 50 |
| 1 | Manual Grease Gun | 28GT4955 | " | 6 00 | 6 00 |
| 1 | Floor Jack 1 1/2 TO. CAP. | 28GT12109 | " | 190 90 | 190 90 |
| 1 | 16 Pc. Combination Wrench set | 9GT44968 | " | 52 90 | 5290 |
| 1 | Mechanical tool sets 1/2" Sockets | 9GT43478N3 | " | 12 70 | 12 70 |
| 1 | Volat-Ohm -milliameter | 34GT5194 | " | 29 60 | 29 60 |
| 1 | Single - Stage Stationary El. Air Comp. | 30GT17031N | " | 327 75 | 327 75 |
| 1 | Air filter and regulator gauge | 30GT16823 | " | 22 70 | 22 70 |
| 1 | Heavy - Duty Blow Gun | 30GT16232 | " | 3 40 | 3 40 |
| 1 | Flexible Nylon air Hose | 30GT16221 | " | 12 20 | 12 20 |
| 2 | Hose Repair Kit | 30GT16302 | " | 1 60 | 3 20 |
| 1 | Miller AC Dual-Range ARC Welder Sheels | 9GT2013N | " | 253 00 | 253 00 |
| 1 | Bench Grinder With Two 6 x 1 Inch | 9GT1945L | " | 160 95 | 160 95 |
| 1 | Heavy - Duty Bench Vice | 9GT5181C | " | 62 35 | 62 35 |
| 1 | " " Mechanics' Stepladder | F30GT41141N | " | 153 00 | 153 00 |
| 1 | Wrenches set | 612253 | JENSEN | 58 60 | 58 60 |
| 1 | Tool Kits W Meter | JTK77 | " | 469 20 | 469 20 |

NOTE: 1. Item # 9GT11134 has been replaced by 9G-1056.
2. Item # 9GT39833 has been replaced by 9G-39823.

LIST OF TOOLS, EQUIPMENT AND SUPLIES HOSPITAL



| QUANT. | DESCRIPTION | CAT. NUMBER | EQUAL TO | UNIT PRICE. | EXTENDED PRICE |
|---|---|---|---|---|---|
| 1 | Roll - Pouch kit | JTK50 | JENSEN | 80 50 | 80 50 |
| 2 | Clamp-on Ammeter set | 568240 | " | 126 50 | 253 00 |
| 1 | Solderless Terminal Wire Stripper kit | 368347 | " | 51 20 | 51 20 |
| 1 | Weller soldering Guns | 47D470 100/140W | " | 19 00 | 19 00 |
| 3 | Multicore solder | 168200 | " | 11 35 | 34 05 |
| 3 | " " | 168204 | " | 13 05 | 39 15 |
| 1 | Socket set 3/8" | 9GT33227 | SEARS Craftsman | 36 50 | 36 50 |
| | | (1978 prices) | | Sub total: | $2,580.35 |
| | | | | 20% contingency | 516.07 |
| | | | | TOTAL | $ 3,096.42 |

* NOTE: 1. Item # 368347 has been replaced by 808500.

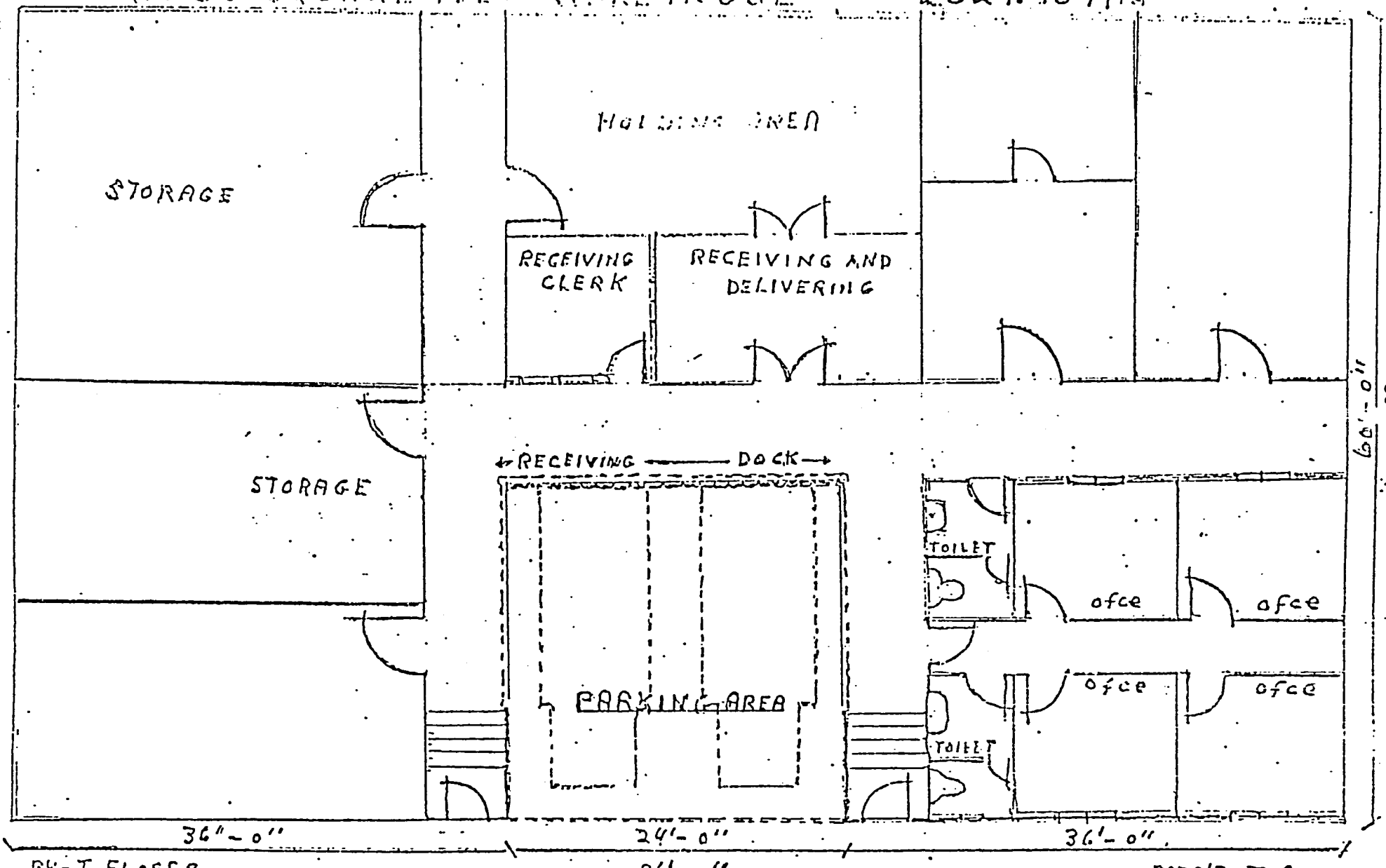
## Vehicles

Truck Model - Double cab and metal box - to transport maintenance personnel for maintenance and materials to and from the Regions

| | | |
|---|---|---|
| 1 Double Cab Truck w/Box | Req. A | $ 15,500.00 |
| 1 Double Cab Truck w/Box | Req. B | 15,500.00 |
| 1 Double Cab Truck w/Box | Req. C | 15,500.00 |
| 1 Double Cab Truck w/Box | Req. D | 15,500.00 |
| 1 Double Cab Truck w/Box | Req. E | 15,500.00 |
| 1 Double Cab Truck w/Box | Req. F | 15,500.00 |
| 1 Double Cab Truck w/Box | Req. G | 15,500.00 |
| 1 Double Cab Truck w/Box | Req. A, D, E | 15,500.00 |
| 1 Double Cab Truck w/Box | Req. B, C | 15,500.00 |
| 9 TOTAL | | $139,500.00 |

6660-SQUARE FEET-WARE-HOUSE - 2029.96-M2s

SCALE 1/8" = 1'-0"

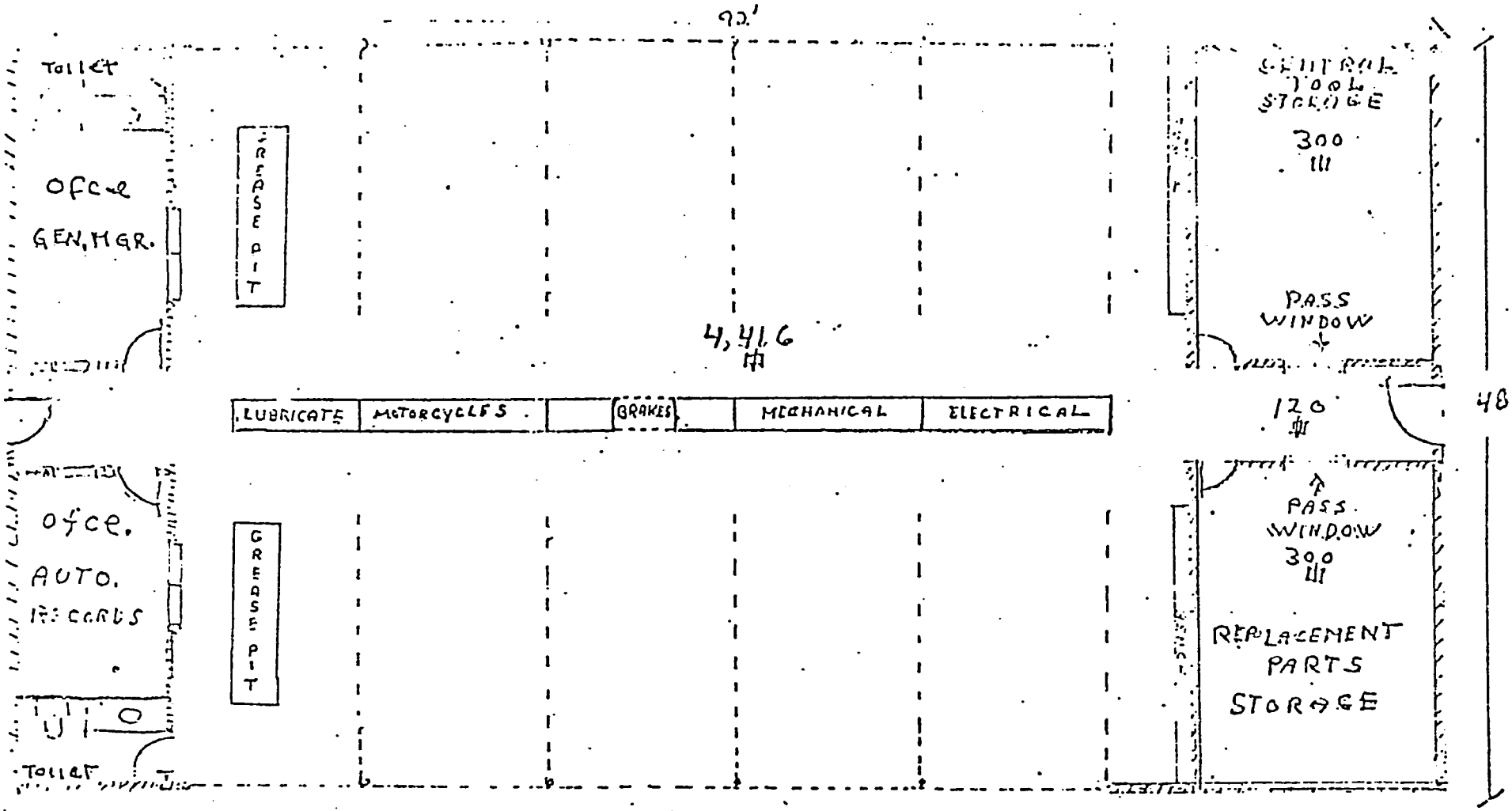



BY-T-FLOEES.

DATE 10-[illegible]-80

1345.9 M²

# PROPOSED NATIONAL CENTRAL GARAGE



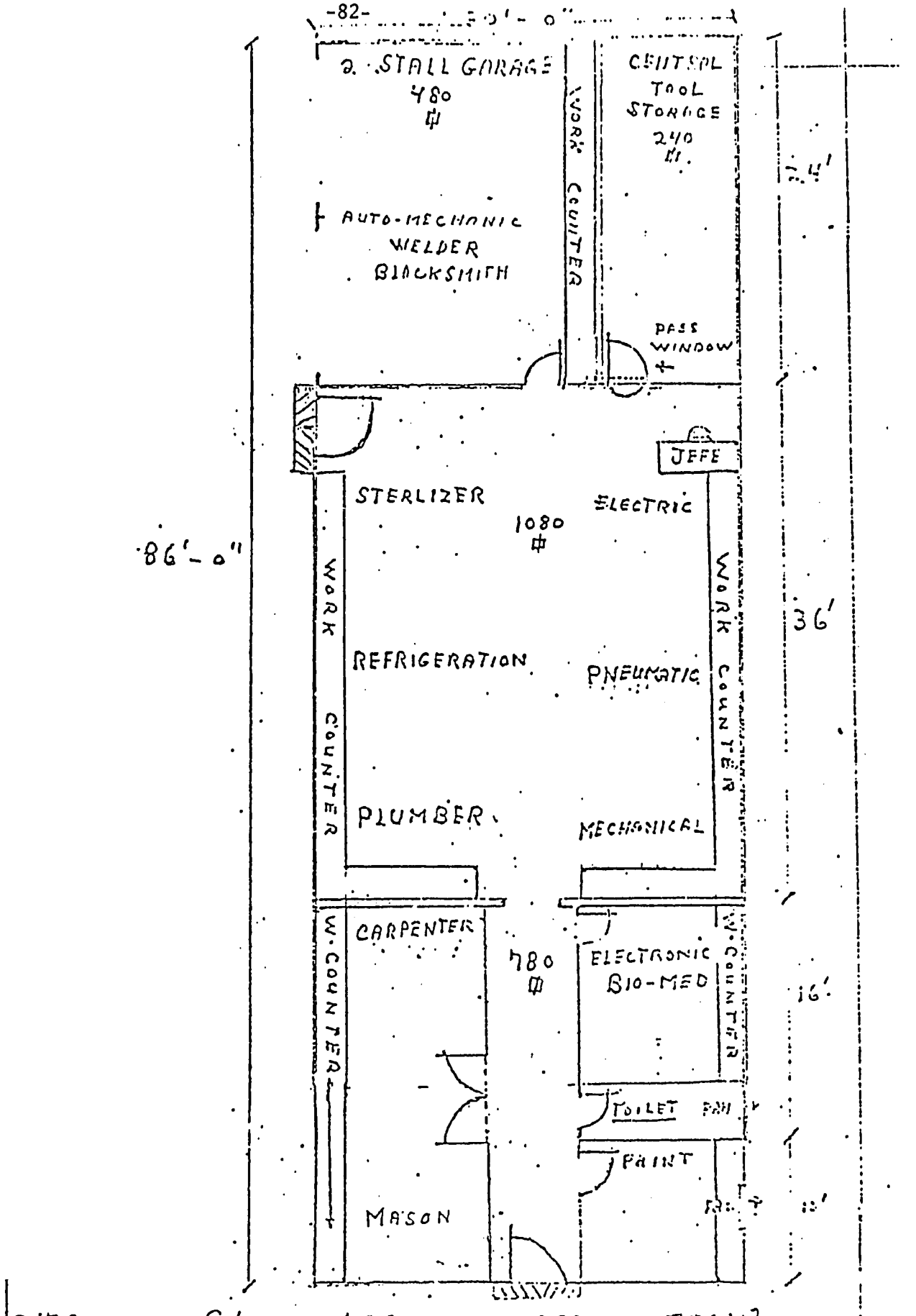

4,416 sq ft.

TEN STALL GARAGE

SCALE 1/8" = 1'-0"

DATE: 12-[illegible]-1980

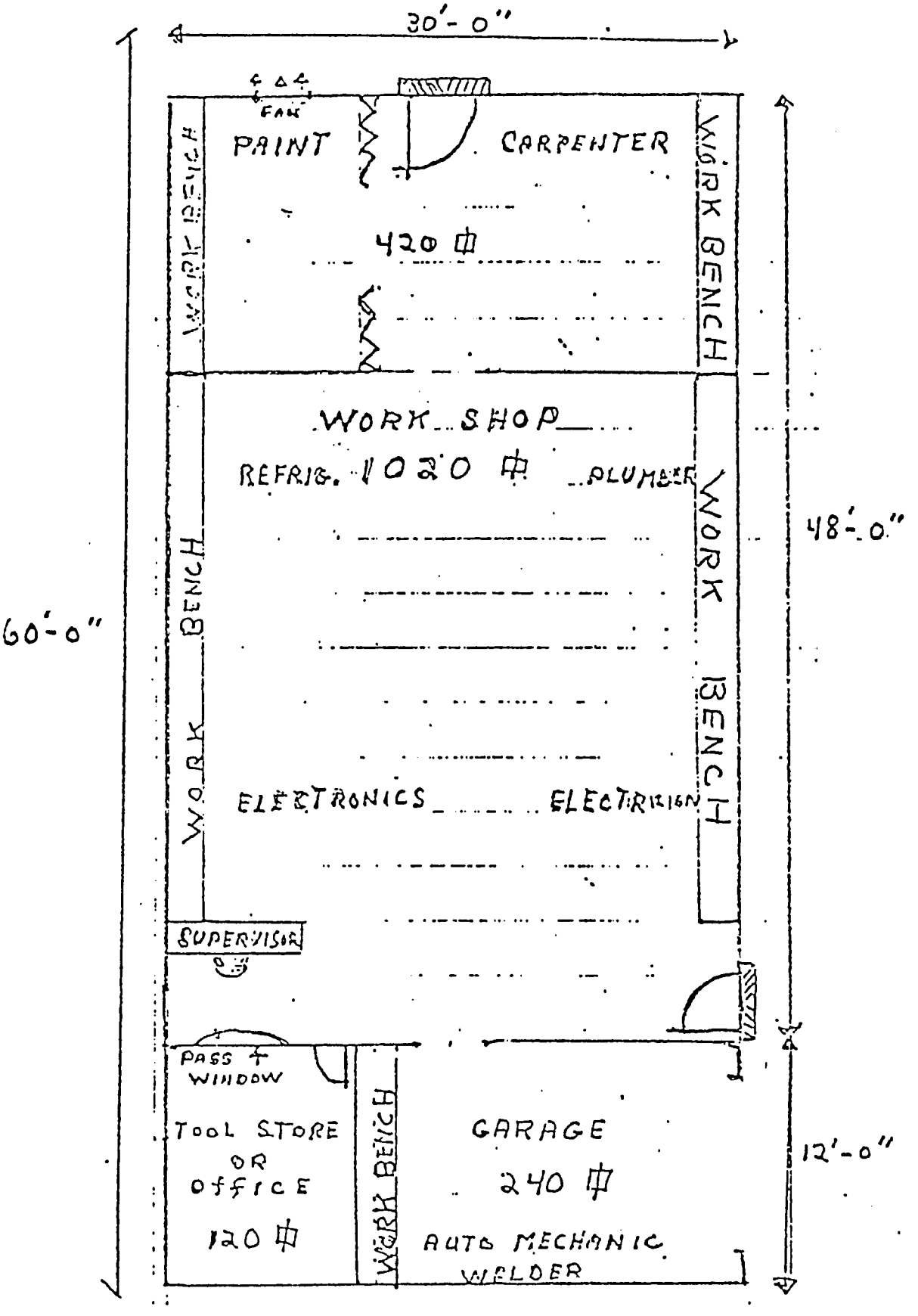
BY: TONY FLORES




2,580 sq ft. MAX. 20 MEN 786 M²

SCALE: 1/8" = 1'-0" DATE: 10-27-80

PROPOSED CENTRAL WORKSHOP BY: TOM [illegible]




TOTAL SQUARE FEET SCALE 1/8" = 1'-0"

1800/550 M² PROPOSED WORK S.O.P.

FOR 1.5 MEN. DATE 10-10-1980

| | | |
|---|---|---|
| Construction and Equipping Equipment Repair Shops and Tools | $ 414,729.77 | |
| For tools and equipment for the Regional Maintenance Center and Hospitals | 139,946.52 | |
| Vehicles for the Central National Regional Maintenance Centers and Hospitals | 139,500.00 | |
| Inservice Continuous Training Technical Assistance Material, Manual and Supplies | 40,676.44 | |
| | | $ 734,852.73 |
| (24%) Contingency for: Emergency replacement parts, materials, supplies, freigh and inflation | | 235,147.27 |
| | GRAND TOTAL | $ 970,000.00 |