

FORMA: NP-3.12

ESTADO LIBRE ASOCIADO DE PUERTO RICO  
OFICINA DEL GOBERNADOR  
JUNTA DE PLANIFICACION  
OFICINA REGIONAL DE PLANIFICACION EN MAYAGUEZ

NOTIFICACION DE APROBACION CONDICIONADA

Sr. (a) Digital Equipment Corp. MAYAGUEZ, Puerto Rico

7 de agosto de 19 69

San Germán, Puerto Rico 00

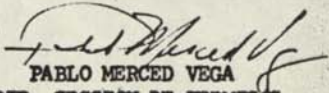
ASUNTO: Sol. Núm.: 70-4-0026  
Caso Apel. Núm.:  
Dirección: Carr 362 frente a Urb: El Convento  
del  
Proyecto : San Germán, Puerto Rico  
Aprobado en: 7 de agosto de 1969

Estimado señor (a): Digital Equipment Corp.

Por medio de esta notificación se le informa que su solicitud de Permiso de referencia ha merecido aprobación en principio y que el Negociado de Permisos procederá a expedir el permiso de construcción solicitado tan pronto usted cumpla en su orden con las condiciones indicadas a continuación:

- ☐ Cancele \$ \_\_\_\_\_ en estampillas de Rentas Internas y/o \$ \_\_\_\_\_ en estampillas del Colegio de Ingenieros a las ya canceladas en los planos por haberse calculado el presupuesto de obra en \$ \_\_\_\_\_.
- ☒ Someta la declaración adjunta Forma NP-3.14 debidamente cumplimentada y firmada.
- ☒ Formalice la póliza para el seguro de obreros en la Oficina del Fondo del Seguro del Estado Oficina adscrita a este Negociado.

Es de entenderse que esta Notificación no es autorización ni permiso para iniciar las obras de construcción y que la vigencia del permiso que se otorgue está limitada por el Artículo 129.0 del Nuevo Reglamento de Zonificación y por el Artículo 15 del Reglamento de Edificación que leen como sigue: "TERMINO DE VIGENCIA DE LAS DECISIONES DE LA JUNTA Y DEL OFICIAL DE PERMISOS". Toda decisión de la Junta en que se autorice cualquier proyecto de construcción quedará sin efecto o valor alguno si dentro del término de un (1) año de haberse rendido la misma no se hubiese obtenido el correspondiente permiso del Oficial de Permisos. Igualmente quedará sin efecto dicha decisión así como el permiso que se expida por el Oficial de Permisos si las obras no fuesen comenzadas dentro del término de un (1) año, a partir de la fecha en que se expidió dicho permiso por el Oficial de Permisos. Quedará también sin efecto o valor alguno dicha decisión o permiso si la obra no queda terminada dentro del año de haber sido iniciada excepto cuando la Junta disponga otra cosa.

  
PABLO MERCED VEGA  
DIR. SECCION DE PERMISOS

Weatherford Smith Thomas



*Insurance*

2001 McKINNEY AVENUE

DALLAS, TEXAS 75201

747-9712

*Professionally  
Planned  
Protection*

✓ Contracts  
✓ KR Insurance  
✓ KR waste treatment

MAY 10 REC'D

Gentlemen:

We are pleased to enclose Certificates of Insurance showing coverages in force for our insured.

Please let us know if anything further is necessary for your files, or if we may be of assistance in any other way.

Thank you,

WEATHERFORD SMITH THOMAS

By:

*Dorothy McCullough*

*file insurance  
two certificates  
P.R.*

# CERTIFICATE OF INSURANCE

THIS IS TO CERTIFY that the following policies, subject to their terms, conditions and exclusions, have been issued by the company or companies shown below:

THIS CERTIFICATE OF INSURANCE neither affirmatively or negatively amends, extends or alters the coverage afforded by the policy or policies shown below, nor is it an endorsement making the person, firm or corporation at whose request it is issued an additional insured on the policy or policies referred to herein.

In the event of any material change in or cancellation of the policy or policies, the company or companies will mail ten (10) days' written notice to the party to whom this certificate is addressed.

NAME AND ADDRESS OF PARTY TO WHOM CERTIFICATE IS ISSUED  <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;">                     Digital Equipment Corp.                      146 Main Street                      Maynard, Massachusetts 01754                      ATTN: Mr. Al Hanson                 </div>	DATE: May 3, 1971 REMARKS: COVERING ALL OPERATIONS IN THE BUSINESS OF THE INSURED  Job No: 527 Waste Treatment Plant & Slabs San German, Puerto Rico
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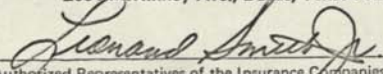
**NAME AND ADDRESS OF INSURED:**

SAM P. WALLACE & COMPANY OF PUERTO RICO, INC.  
 P. O. BOX 1669  
 HATO REY, PUERTO RICO 00919

Insurance Company	Type of Insurance	Policy Number	Effective Date	Expiration Date	LIMITS OF LIABILITY*
FIREMANS FUND INSURANCE COMPANY	Workmen's Compensation and Employers Liability	CITIZENS OF THE UNITED STATES WC 142 27 33	10/31/70	10/31/71	Statutory Employers Liability Limits—\$100,000
FIREMANS FUND INSURANCE COMPANY	Comprehensive General Liability	LC 175 60 12	10/31/70	10/31/71	Bodily Injury \$ 100,000 Each Person \$ 500,000 Each Occurrence \$ 500,000 Aggregate Products & Completed Operations Property Damage \$ 100,000 Each Occurrence \$ 500,000 Aggregate Operations \$ 500,000 Aggregate Protective \$ 500,000 Aggregate Contractual \$ 100,000 Aggregate Products & Completed Operations
FIREMANS FUND INSURANCE COMPANY	Comprehensive Automobile Liability**	LC 175 60 09	10/31/70	10/31/71	Bodily Injury \$ 100,000 Each Person \$ 500,000 Each Occurrence Property Damage \$ 100,000 Each Occurrence
UNITED STATES FIRE INSURANCE COMPANY	COMPREHENSIVE CATASTROPHE LIABILITY	DCL 45 31 94	10/31/68	10/31/71	\$10,000,000 EACH OCCURRENCE \$10,000,000 AGGREGATE  POLICY APPLIES AS EXCESS OF PRIMARY INSURANCE SHOWN ABOVE

\*Absence of any appropriate entry means no such insurance is in force.  
 \*\*Covers all owned, non-owned or hired vehicles.

**WEATHERFORD SMITH THOMAS INSURANCE**  
 2001 McKinney Ave., Dallas, Texas 75201

  
 Authorized Representatives of the Insurance Companies referred to above.



FONDO DEL SEGURO DEL ESTADO  
POLIZA DE SEGURO

## DECLARACIONES



- Nombre del Patrono VIKING FIRE SPRINKLER COMPANY OF PUERTO RICO, INC.  
Dirección Postal 106 Del Rio Street, Santurce, P.R.  
Dirección Residencial La Misma  
Fueron patronos en que la mencionada dirección suministrada por el, es correcta, indistintamente como la de su sitio de negocio o residencia, para la remisión de correspondencia o comunicaciones en cualquier modo, que se le envíen directamente a los representantes o autoridades designadas, corporación, sociedad, sindicatos, depositarios, albaceas etc.  
Identifique su datos personal enviando lo en adelante. Corporación, sociedad, sindicatos, depositarios, albaceas etc. Corporación  
Esta póliza estará en vigor desde 25 de noviembre de 1971, a las 4:00 A.M., y expirará en 30 de junio de 1972, a las 12:00 P.M. Sujeta a las condiciones y limitaciones consignadas en ella misma y en la Ley y Reglamentos del Fondo del Seguro del Estado, para cubrir en los sitios o localidades iniciadas a continuación, las operaciones o riesgos específicamente objeto de este seguro.  
Los sitios o localidades de todas y cada una de las fábricas, plantas, talleres, pabellones, edificaciones, fincas, industrias, negocios, oficinas o cualquier otro trabajo del patrono, por pueblos, barrios, calles y número son:  
Digital Equipment Corporation-Corr. Estatal 362- San Germán, P.R.

Las operaciones o riesgos objeto del seguro en los sitios o localidades arriba indicadas se especifican a continuación.				
DESCRIPCION DE RIESGOS	Num.	Clave	Grupo	NOMINA ESTIMADA

[illegible]

- [illegible]

A - Todas aquellas que se consignan al dorso de esta póliza.

B- Instalación: Sistema de rociadores automáticos para protección contra incendio en:

C. Se descarta partida C-6 23,000.00 bajo sub-contrato con la Viking Fire Protection Inc.  
para el suministro de material y equipo.

Se anexa copia del sub-contrato con dicha firma y además se incluye sub-contrato con la

Se anexa copia del subcontrato suscrito entre la Sra. P. Wallace & Co. of P.R., Inc. por \$98,000.00. Se tomó el 3to. del 1er. trimestre de 1961.

Se le insta a si patrono que debata rendir declaracion de la misma en su trabajo.

Esta política está sujeta a la revisión y aprobación del Administrador del F-De-De

HOJA INGRESO 755 El pasado por valor de 1.365.00 según recibí del Oficial Recaudador Guillermo Alvarado del 26 de noviembre de 1971

FECHA: 25 de noviembre de 1978 Número: 121167 del 20 de 1978

1er. SEMESTRE \$ 602.50  
2do. SEMESTRE \$ 602.50

2do. SEMESTRE \_\_\_\_\_  
3er SEMESTRE \_\_\_\_\_

Firma \_\_\_\_\_ Firma \_\_\_\_\_ CARGO NUM. \_\_\_\_\_

4to. SEMESTRE  
**Rivera A.** Administrador del Fondo del Seguro del Estado **Rivera Rivera**  
 Director de Registros e Instrumentos Públicos

Por: Manuel de la Cruz  
Representante de Seguros

Jurado y suscrito ante mí, por: Manuel de la Cruz

Yo, Manuel Esas Bracero,  
del negocio,

[illegible]

*[Handwritten signature]*

Requisito de la Matrícula

*[Handwritten signature]*

Requisito de la Matrícula

000112 00 00000000

ESTADO LIBRE ASOCIADO DE PUERTO RICO

FONDO DEL SEGURO DEL ESTADO  
POLIZA DE SEGURO

## DECLARACIONES

Nombre  
del Patrono

VIKING FIRE SPRINKLER COMPANY OF PUERTO RICO, INC.

Dirección  
Postal

104 Del Río Street, Santurce, P.R.

Dirección Residencial

La Misma

Este patrono conviene en que la mencionada dirección, suministrada por él, es correcta, indistintamente como la de su sitio de negocio o residencia, para la remisión de correspondencia o notificaciones de cualquier índole, que se le envíen directamente o a sus representantes o apoderados.

Identifique su sitio patronal especificando si es individuo, corporación, sociedad, síndico, depositario, albacea etc. **Corporación**

Esta póliza estará en vigor desde 26 de noviembre 19 71, a las 4:23 A. M., y expirará en 30 de junio de 1972, a las 12:00 P. M., sujeta a las condiciones y limitaciones consignadas en ella misma y en la Ley y Reglamentos del Fondo del Seguro del Estado, para cubrir en los sitios o localidades indicadas a continuación, las operaciones o riesgos específicamente objeto de este seguro.

Los sitios o localidades de todas y cada una de las fábricas, plantas, talleres, patios, edificaciones, fincas, industrias, negocios, oficinas o cualquier otro trabajo del patrono, por pueblos, barrios, calles y número son:

Digital Equipment Corporation-Carr. Estatal 362- San Germán, P.R.

Las operaciones o riesgos objeto del seguro en los sitios o localidades arriba indicadas se especifican a continuación.

CLASIFICACION DE RIESGOS (Naturaleza de la Industria, Negocio, Profesión u Oficio)	Núm. Obreros	Clave Núm.	Grupo Núm.	NOMINA ESTIMADA	Tipo Básico	CUOTA
ESTIMADO AÑO FISCAL 19 <u>71</u> -19 <u>72</u>						
Pionería	5183		271	\$ 21,000.00	\$ 6.50	\$ 1,365.00
Directores						
Alfonso Rodríguez - Presidente				Sin Sueldo		
Fausto Parraño - Vice-Presidente				\$ 5,200.00		

Las operaciones o riesgos, antes especificados, objeto de este seguro, en los sitios o localidades arriba indicados, están sujetos a las siguientes condiciones o limitaciones adicionales:

A- Todas aquellas que se consignan al dorso de esta póliza.

B- Instalación: Sistemas de rociadores automáticos para protección contra incendio en:Digital Equipment Corporation, Carr. Estatal 362, San Germán, P.R.C- Se descontó partida de \$ 28,000.00 bajo sub-contrato con la Viking Fire Protection Inc. de Tampa, Florida para fabricación de material y equipo.D- Se anexa copia del sub-contrato con dicha firma y además se incluye sub-contrato con la Sra P. Wallace & Co. of P.R., Inc. por \$98,000.00. Se tomó el 30% del balance por \$29,400.00 para jornales.E- Se instruye al patrono que deberá rendir declaración de la nómina al finalizar estos trabajos.F- Esta póliza está sujeta a la revisión y aprobación del Administrador del F. S. E.HOJA INGRESO 759El patrono pagó cuota por \$ 1,365.00 según recibí del Oficial Recaudador Guillermo AlvarezFECHA 26 de noviembre de 1971 Número 121147 del 26 de noviembre de 19 711er. SEMESTRE \$ 682.50

Preparada para Cargo

Tramitada en Cargo

2do. SEMESTRE \$ 682.50

Fecha

Fecha

RECIBO NUM.

3er. SEMESTRE

Firma

Firma

CARGO NUM.

4to. SEMESTRE

Ramón A. Rivora RivoraPor: Manuel Rivas Bracero

Representante de Seguros

(Firma del Patrono o Representante Autorizado)

## JURAMENTO

Yo, Manuel Rivas BraceroJurado y suscrito ante mí, por Manuel Rivas Bracero mayor de edad, de estado Casado, profesión Alcalderesidente en Río Piedras, P.R.y quien conoce personalmente en Río Piedrashoy 26 de noviembre de 19 71, a las 4:23 P.M.

declaro bajo juramento que soy el Representante de Seguros del negocio, que he leído y comprendido el contenido de esta póliza y que he aceptado las condiciones y limitaciones de esta póliza, y que no tengo otros negocios o industrias, sin el correspondiente seguro obrero, y que no he sido ocaído accidentalmente del trabajo en esas operaciones o riesgos antes de esta póliza.

Manuel Rivas Bracero  
Representante de Seguros

Manuel Rivas Bracero  
Representante de Seguros

*Phase II PR*  
*Contract 4 Cost Contract*

THIS IS TO CERTIFY that the following policies, subject to their terms, conditions and exclusions, have been issued by the company or companies shown below:

THIS CERTIFICATE OF INSURANCE neither affirmatively or negatively amends, extends or alters the coverage afforded by the policy or policies shown below, nor is it an endorsement making the person, firm or corporation at whose request it is issued an additional insured on the policy or policies referred to herein.

In the event of any material change in or cancellation of the policy or policies, the company or companies will mail ten (10) days' written notice to the party to whom this certificate is addressed.

NAME AND ADDRESS OF PARTY TO WHOM CERTIFICATE IS ISSUED  <div style="text-align: center;">└</div> Digital Equipment Plant San German, Puerto Rico  <div style="text-align: center;">└</div>	DATE: November 11, 1971 REMARKS: COVERING ALL OPERATIONS IN THE BUSINESS OF THE INSURED  Job #236 - Digital Equipment Corporation (Phase II) San German, Puerto Rico
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NAME AND ADDRESS OF INSURED:  Viking Fire Sprinkler Company of Puerto Rico, Inc. 104 Del Rio Street Santurce, Puerto Rico 00911
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Insurance Company	Type of Insurance	Policy Number	Effective Date	Expiration Date	LIMITS OF LIABILITY*
TIONAL UNION FIRE SURANCE COMPANY PITTSBURGH, PA.	Workmen's Compensation and Employers Liability	CITIZENS OF THE CONTINENTAL UNITED STATES 83-20271	10/31/71	10/31/72	Statutory  Employers Liability Limits-\$100,000
TIONAL UNION FIRE SURANCE COMPANY PITTSBURGH, PA.	Comprehensive General Liability	80-27007	10/31/71	10/31/72	Bodily Injury \$ 100,000 Each Person \$ 300,000 Each Occurrence Aggregate Products & Completed Operations \$ 300,000  Property Damage \$ 200,000 Each Occurrence \$ 400,000 Aggregate Operations \$ 400,000 Aggregate Protective \$ 400,000 Aggregate Contractual Aggregate Products & Completed Operations \$ 400,000
TIONAL UNION FIRE SURANCE COMPANY PITTSBURGH, PA.	Comprehensive Automobile Liability**	80-27010	10/31/71	10/31/72	COMBINED SINGLE LIMIT BODILY INJURY AND PROPERTY DAMAGE \$300,000 EACH OCCURRENCE
		SEE EXCESS ATTACHED			

absence of any appropriate entry means no such insurance is in force. \*\*Covers all owned, non-owned or hired vehicles.

MAXTRY & FINGERHUT, INC.

  
 Authorized Representative

THIS IS TO CERTIFY that the following policies, subject to their terms, conditions and exclusions, have been issued by the company or companies shown below:

THIS CERTIFICATE OF INSURANCE neither affirmatively or negatively amends, extends or alters the coverage afforded by the policy or policies shown below, nor is it an endorsement making the person, firm or corporation at whose request it is issued an additional insured on the policy or policies referred to herein.

In the event of any material change in or cancellation of the policy or policies, the company or companies will mail ten (10) days' written notice to the party to whom this certificate is addressed.

NAME AND ADDRESS OF PARTY TO WHOM CERTIFICATE IS ISSUED	DATE: November 11, 1971 REMARKS:
Digital Equipment Plant San German, Puerto Rico	Job #236 - Digital Equipment Corporation (Phase II San German, Puerto Rico

NAME AND ADDRESS OF INSURED:

Viking Fire Sprinkler Company of Puerto Rico, Inc.  
104 Del Rio Street  
Santurce, Puerto Rico 00911

Insurance Company	Type of Insurance	Policy Number	Effective Date	Expiration Date	LIMITS OF LIABILITY*
	Workmen's Compensation and Employers Liability				Statutory Employers Liability Limits-\$100,000
	Comprehensive General Liability				Bodily Injury \$ Each Person \$ Each Occurrence \$ Aggregate Products & Completed Operations Property Damage \$ Each Occurrence \$ Aggregate Operations \$ Aggregate Protective \$ Aggregate Contractual \$ Aggregate Products & Completed Operations
	Comprehensive Automobile Liability**				
APPALACHIAN INSURANCE COMPANY	UMBRELLA LIABILITY	RLJ 1318-19	10/31/71	10/31/74	\$10,000,000.00 *** EACH OCCURRENCE \$10,000,000.00 AGGREGATE
UNDERWRITERS AT LLOYD'S AND/OR COMPANIES AT LONDON	***Limit applies as excess over limits afforded by primary insurance described above.				

absence of any appropriate entry means no such insurance is in force. \*\*Covers all owned, non-owned or hired vehicles.

RICHARD L. JARRETT, SR.  
2745 N. Central Expressway  
Dallas, Texas 75204

*Richard L. Jarrett Sr.*

for Appalachian Insurance Company and Underwriters at Lloyd's of London

# THE TRAVELERS

## Certificate of Insurance

Phase II PR

This is to certify that policies of insurance as described below have been issued to the insured named below and are in force at this time. If such policies are canceled or changed during the periods of coverage as stated herein, in such a manner as to affect this certificate, **TEN (10) DAYS** written notice will be mailed to the party designated below for whom this certificate is issued.

1. Name and address of party to whom this certificate is issued

SAM P. WALLACE AND COMPANY OF  
PUERTO RICO, INC.  
P. O. BOX 1669  
HATO REY, PUERTO RICO 00919

2. Name and address of insured

LORD ELECTRIC COMPANY OF  
PUERTO RICO, INC.  
45 ROCKEFELLER PLAZA  
NEW YORK, N. Y. 10020

3. Location of operations to which this certificate applies

DIGITAL EQUIPMENT CORP. BUILDING #4, SAN GERMAN, PUERTO RICO (JOB X386)

4. Coverages For Which Insurance is Afforded

Limits of Liability

Policy Number

Policy Period\*\*

Workmen's Compensation and Employers' Liability in the state named in item 3 hereof

Compensation—Statutory

Bodily Injury Liability  
—except automobileINCLUDING  
CONTRACTUAL

\$ 500 ,000 each person  
\$ 1,000 ,000 each occurrence  
\$ 1,000 ,000 aggregate†  
†Completed Operations and Products only

TNSL-940207-71

1-1-71  
TO  
1-1-74

including Protective

Property Damage Liability  
—except automobileINCL. CONTRACTUAL  
including Protective

\$ 100 ,000 each occurrence  
\$ 500 ,000 aggregate

TNSL-940207-71

1-1-71  
TO  
1-1-74

Bodily Injury Liability  
—automobile

\$ 500 ,000 each person  
\$ ,000 each accident  
\$ 1,000 ,000 each occurrence

Property Damage Liability  
—automobile

\$ ,000 each accident  
\$ 500 ,000 each occurrence

Liability (Bodily Injury and Property Damage)

\$ ,000 each occurrence  
\$ ,000 aggregate

TCUP-940206-71

6-25-71  
TO  
1-1-74

Catastrophe or Excess IN  
EXCESS OF ABOVE  
LIMITS

\$10,000 ,000 each occurrence  
\$10,000 ,000 each aggregate  
\$ ,000 deductible amt.

\*Absence of an entry in these spaces means that insurance is not afforded with respect to the coverages opposite thereto.

\*\*Policy is effective and expires at 12:01 A.M., standard time at the address of the named insured as stated herein.

Description of Operations, or Automobiles to which the policy applies:

ALL OPERATIONS  
ALL OWNED, NON-OWNED AND HIRED AUTOMOBILES

The insurance afforded is subject to all of the terms of the policy, including endorsements, applicable thereto.

THE TRAVELERS INSURANCE COMPANY  
THE TRAVELERS INDEMNITY COMPANY  
THE CHARTER OAK FIRE INSURANCE COMPANY

Producer JOHN A. RIEHLE &amp; CO., INC.

Office HYPOR-0-913 Date 10-29-71 (5)

By *Jim Dow*  
Authorized Representative



FONDO DEL SEGURO DEL ESTADO  
POLIZA DE SEGURO

## DECLARACIONES

POLIZA NUMERO

### Author's note

Series Name(s)

D 084712

- |  |  |          |
|--|--|----------|
| DECLARACIONES  |  | D 084712 |
| Nombre del Patrono   | Lond Electric Co. of Puerto Rico, Inc.                 |          |
| Dirección Postal   | C. P. O. Box 3408 San Juan, Puerto Rico 00936          |          |
| Dirección Residencial  | Ave Sión Nadera Villa Frades, Río Piedras, Puerto Rico |          |
| <p>Este patrono certifica en que la mencionada dirección, suministrada por él, es correcta, suministrando copia de la su lista de nómina o rendición, para la remisión de correspondencia o modificaciones de cualquier índole, que se le envíen directamente a sus representantes o apoderados, en el momento de su elección, reelección, renovación, elección o corporación.</p> |  |          |

- 2 Esta póliza estará en vigor desde 14 de octubre de 1971 a las 3:04 P.M., y expirará en 30 de marzo de 1972 a las 12:00 P.M., sujeta a las condiciones y limitaciones consignadas en ella misma y en la Ley y Reglamentos del Fondo del Seguro del Estado, para cubrir en los sitios o localidades indicadas a continuación, las operaciones o riesgos específicamente objeto de este seguro.
- Los sitios o localidades de todas y cada una de las fábricas, plantas, talleres, patios, edificaciones, fincas, industrias, negocios, oficinas o cualquier otro trabajo del patrón, por pueblos, barrios, calles y número son:

Digital Equipment Bldg 4, San Germán, Puerto Rico

A—Todas aquellas que se consignan al dorso de esta póliza.

B-1514a Recycled.

E- Se extiende culeta a revisión y aprobación del Administrador del P. S. E.

HOJA INGRESO	El patrono paga cuota por \$ 2,627.84 según recibo del Oficial Revisor		ANA E. POJO
FECHA 14 de octubre de 1997	Número 216207	del 34 de octubre	de 1997
1er. SEMESTRE \$1,313.92	Preparado para Cargo	Transmitido en Cargo	
2do. SEMESTRE \$1,313.92	Fecha	Fecha	RECIBO NUM.
3er. SEMESTRE			
4to. SEMESTRE	Firma	Firma	CARGO NUM.

Ramón A. Administrador del Fondo del Seguro del Estado Rivera Rivera  
 Por: Manuel Díaz López  
 Representante de Sucesor

(From the *Journal of the American Academy of Child and Adolescent Psychiatry*)

## IV. INSTRUMENTO

[illegible]

Jurado y jurado ante mí, por Julio Carlos Moreno  
 mayor de edad, de estado casado, profesión empleado  
 residen en Turkey Alto P.R.  
 a quien reconozco personalmente en 160 Pinar P.R.  
 los 14 de enero de 1977 a los 36 años  
Julio Carlos Moreno

Puerto Rico

Contracts & Cost  
Contracts

# THE TRAVELERS

## Certificate of Insurance

X.R. Insurance

This is to certify that policies of insurance as described below have been issued to the insured named below and are in force at this time. If such policies are canceled or changed during the periods of coverage as stated herein, in such a manner as to affect this certificate, **TEN (10) DAYS** written notice will be mailed to the party designated below for whom this certificate is issued.

1. Name and address of party to whom this certificate is issued

SAM P. WALLACE AND COMPANY OF  
PUERTO RICO, INC.  
P. O. BOX 1669  
HATO REY, PUERTO RICO 00919

2. Name and address of insured

LORD ELECTRIC COMPANY OF  
PUERTO RICO, INC.  
45 ROCKEFELLER PLAZA  
NEW YORK, N. Y. 10020

3. Location of operations to which this certificate applies

DIGITAL EQUIPMENT CORP. BUILDING #4, SAN GERMAN, PUERTO RICO (JOB X386)

4. Coverages For Which Insurance is Afforded

Limits of Liability

Policy Number

Policy Period\*\*

Workmen's Compensation and Employers' Liability in the state named in item 3 hereof

Compensation—Statutory

Bodily Injury Liability—except automobile

INCLUDING CONTRACTUAL

\$ 500 ,000 each person  
\$ 1,000 ,000 each occurrence  
\$ 1,000 ,000 aggregate†  
†Completed Operations and Products only

TNSL-940207-71

1-1-71  
TO  
1-1-74

including Protective

Property Damage Liability—except automobile

INCL. CONTRACTUAL including Protective

\$ 100 ,000 each occurrence  
\$ 500 ,000 aggregate

TNSL-940207-71

1-1-71  
TO  
1-1-74

Bodily Injury Liability—automobile

\$ 500 ,000 each person  
\$ ,000 each accident  
\$ 1,000 ,000 each occurrence

Property Damage Liability—automobile

\$ ,000 each accident  
\$ 500 ,000 each occurrence

Liability (Bodily Injury and Property Damage)

\$ ,000 each occurrence  
\$ ,000 aggregate

Catastrophe or Excess IN EXCESS OF ABOVE LIMITS

\$10,000 ,000 each occurrence  
\$10,000 ,000 each aggregate  
\$ ,000 deductible amt.

TCUP-940206-71

6-25-71  
TO  
1-1-74

\*Absence of an entry in these spaces means that insurance is not afforded with respect to the coverages opposite thereto.

\*\*Policy is effective and expires at 12:01 A.M., standard time at the address of the named insured as stated herein.

Description of Operations, or Automobiles to which the policy applies:

ALL OPERATIONS  
ALL OWNED, NON-OWNED AND HIRED AUTOMOBILES

The insurance afforded is subject to all of the terms of the policy, including endorsements, applicable thereto.

THE TRAVELERS INSURANCE COMPANY  
THE TRAVELERS INDEMNITY COMPANY  
THE CHARTER OAK FIRE INSURANCE COMPANY

Producer JOHN M. RIEHLE &amp; CO., INC.

Office NYFOR-0-913

Date 10-29-71 M. (5)

By

Lm Dow

Authorized Representative



Rev. 7/19/71  
July 12, 1971  
PR I

*Puerto Rico*

Walter Johnson

*Budgets*

Bldg. 3 Ph. I, 2103-42, X95-07270

Electrical & Mechanical Construction  
for Plant #3 PR Phase I  
(60,000 SF)

Analysis of cost accounting sheets No. 1 & No. 2 covering period from 7/26/69 to April 1970.

Request for capital equipment 5/23/69, par. IV, estimated cost, outside purchases, \$300,000 approved 7/11/69.

<u>Type</u>	<u>%</u>	<u>Amount</u>	<u>Contractor</u>
1. Process equipment & Special Piping	3	9,347.25	Brian Supply Co. Trane Co.
2. Compressed air equip. 2 - IR air compressors 2 - dryers	8.5	27,408.81	Franklin Supply
3. Plumbing & CA piping	9	28,600.00	Sam P. Wallace, PR
4. Fire protection	5.5	18,347.63	Viking Fire Sprinkler Safety House
5. Heating, Ventilation, A/C	25	80,820.01	Callazo & Co. Nauset Eng.
6. Electrical	44	140,744.20	Lord Elec. Co., PR
7. General Contracting	5	15,077.00	Yanco Constr. Co. PR AF Quebec Co. Carlson Co.
TOTAL	100	\$320,345.90	

cc: A. Craffey  
G. Beebe  
R. Carlson  
P. Mackey  
✓ Central Files

# proposal



*AUTHORIZED DISTRIBUTOR*  
PUMPS & COMPRESSORS

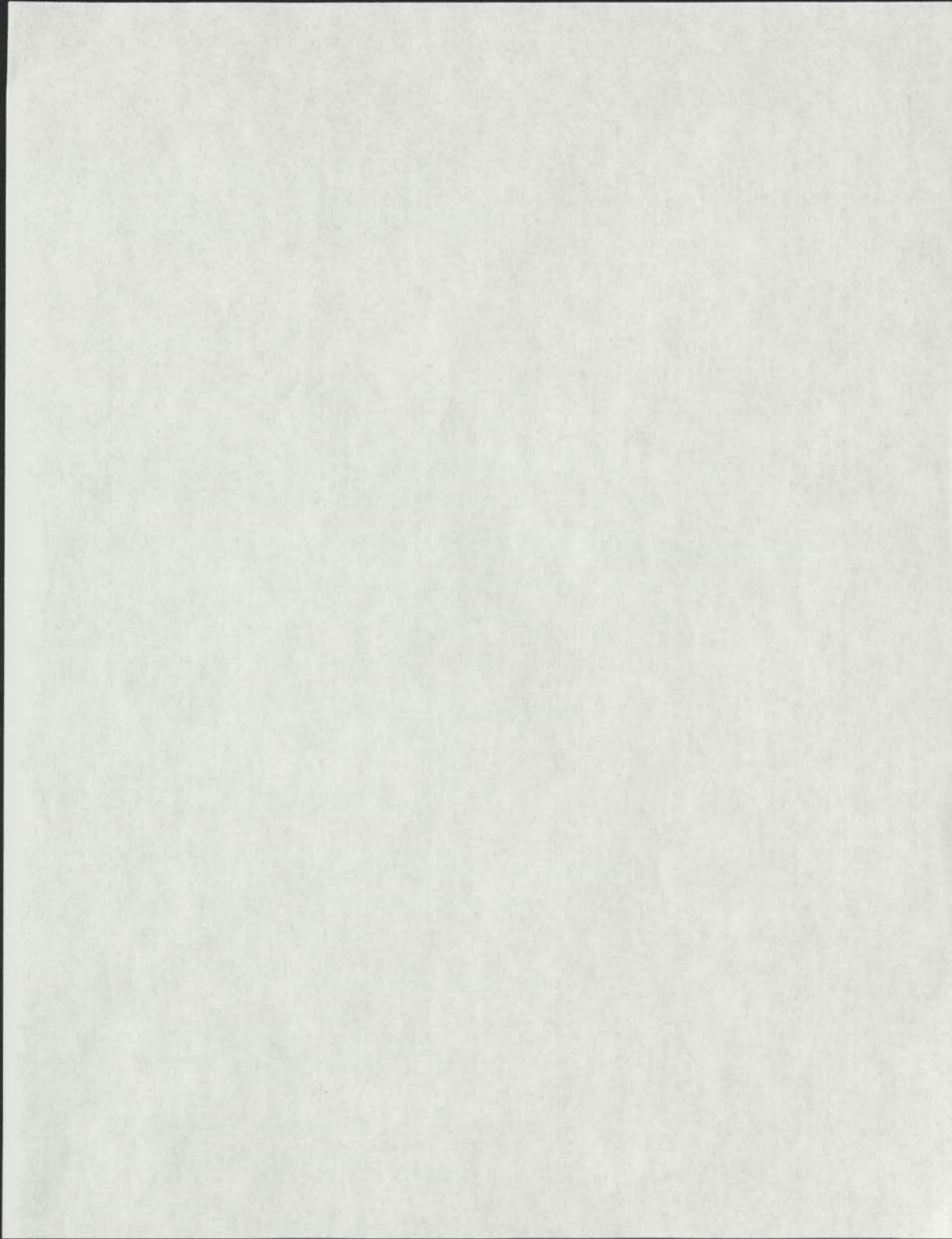
**BRIERLY LOMBARD & CO.**

107-109 Foster Street — Worcester, Massachusetts

**PHONE: 791-8111**

WORTHINGTON CORPORATION

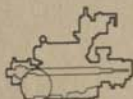




the complete  
Worthington line



compressors



turbines



heat-transfer  
equipment



engines and  
locomotives



construction  
equipment



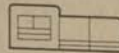
pumps



valves, controls  
and meters



springs and  
forgings



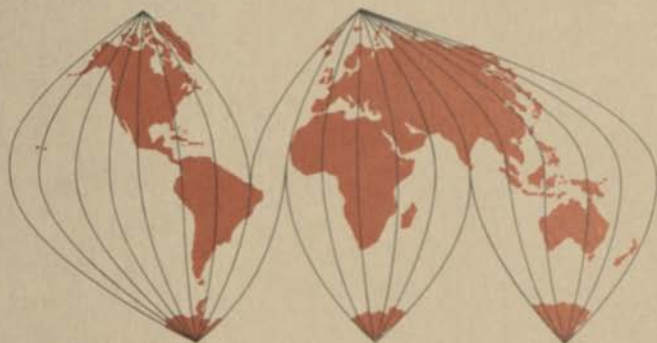
air conditioning



electrical  
apparatus

# Worthington

## a worldwide corporation supplying your industry



### complete customer service

Worthington maintains professionally staffed offices in major trading centers across the United States. Market, product and sales specialists are prepared to give their personal attention to your needs. If necessary, they can call on the full resources of Worthington Corporation on your behalf.

Fundamental to these services are: assistance in the early stages of product planning, specification of equipment to exact requirements, quality-assured manufacturing, prompt delivery, experienced installation and startup supervision, periodic inspection and maintenance programs.

### international service

The same personalized sales and operating services are available in virtually every country of the free world. Worthington has 22 subsidiary and associate companies in Europe, Canada, Pan America, Australia and the Middle and Far East. In addition, distributors offer Worthington equipment throughout the world. Service facilities are available for all Worthington products, wherever installed.

PAUL F. BOUDAS  
Vice President

*Puerto Rico*

*Correspondence*

ESTABLISHED 1847  
INCORPORATED 1935

*XR Compressors*

**BRIERLY LOMBARD & COMPANY, INC.**  
DISTRIBUTORS OF INDUSTRIAL SUPPLIES AND EQUIPMENT  
POWER TRANSMISSION SPECIALISTS

AREA CODE: 617  
TELEPHONE 791-8111

1017 Southbridge Street  
Worcester, Mass. 01610

ADDRESS ALL COMMUNICATIONS  
TO THE COMPANY

*July 24, 1969*

*Digital Equipment, Inc.  
Maynard, Massachusetts*

*Attention: Mr. Jan Wouters*

*Gentlemen:*

*As you requested, we are pleased to submit our proposals for Plant Air Compressor Systems manufactured by the Worthington Corporation.*

*Worthington is the only manufacturer of compressors who has provided for effective cooling by isolating the compressor's cylinders. This isolation permits the generous circulation of cooling air around each cylinder.*

*Each compressor's cooling fins are circular so cooling air can encircle the cylinders. To avoid wasting cooled air on the crankcase as our competition's design does, Worthington has elevated the fan thereby forcing a draft of cooled air directly around and against the cylinders.*

*Worthington's crankshaft and connecting rods are drilled to carry oil pressure from the gear pump to all connecting rod bearings. All of the oil is continuously cleaned by a full-flto filter. Only Worthington includes both of these features as standard equipment.*

*Additionally, because there is a Worthington service organization in San Juan, Puerto Rico, you do not need to be concerned about downtime without parts or service.*

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TELEPHONE 791-8111

1017 Southbridge Street  
Worcester, Mass. 01610

ADDRESS ALL COMMUNICATIONS  
TO THE COMPANY

Page 2

We are quoting this compressor unit as a completely assembled and packaged air system. The system would arrive assembled and would include a compressor vibration shock mounting isolating motor, a compressor from mounting frame, an air receiver motor, and a completely wired motor starter. The "V"-belt drive would have a belt guard. The intake filter silencer would be the dry type. Automatic dual control is a standard feature. An automatic low oil shut down device is built in to protect the unit from operating with a lack of lubrication.

Also, an automatic high temperature shut down device which is installed fully piped and wired, is included to prevent the unit from operating with excessive discharge temperatures.

This unit has complete interconnecting piping between the compressor, the air receiver, and the controls resulting in a single air outlet connection. Complete wiring between the motor starter and the console providing a single power connection. The water cooled aftercooler is of 15 degree C.T.D. design.

It has been a pleasure to submit this proposal to you. If you should desire further information about either of these units, please contact our office.

Very truly yours,  
Brierly Lombard and Co., Inc.

  
Paul P. Boudas

*Puerto Rico**Compressor  
XR Proposals***digital**

## INTEROFFICE MEMORANDUM

DATE: July 25, 1969

SUBJECT: Compressor - Puerto Rico

TO: Al Hanson

FROM: Jan Wouters

Please consider the following proposals for the 75-HP compressor;  
Worthington against the one from Ingersall-Rand.

Ingersall-Rand

Complete Package	our cost		\$13,187
Starter		+/-	300
Slab		+/-	1,000
Piping between components		+/-	500
TOTAL		+/-	\$15,000

Plus shipping from Maynard to Puerto Rico

Worthington

Complete Package	our cost		\$11,192
Starter		+/-	300
Slab		+/-	1,000
Piping between components		+/-	500
TOTAL		+/-	\$13,000

Plus shipping from Maynard to Puerto Rico

Worthington

Package unit	our cost		\$13,564
Starter	in package		
Slab	unnecessary		
Piping between components	unnecessary		
TOTAL			\$13,564

Plus shipping from Maynard to Puerto Rico

W.

#

6,4 9 4.0 0

4 9 8.0 0

5 8 0.0 0

3 3 5.0 0

8 2.0 0

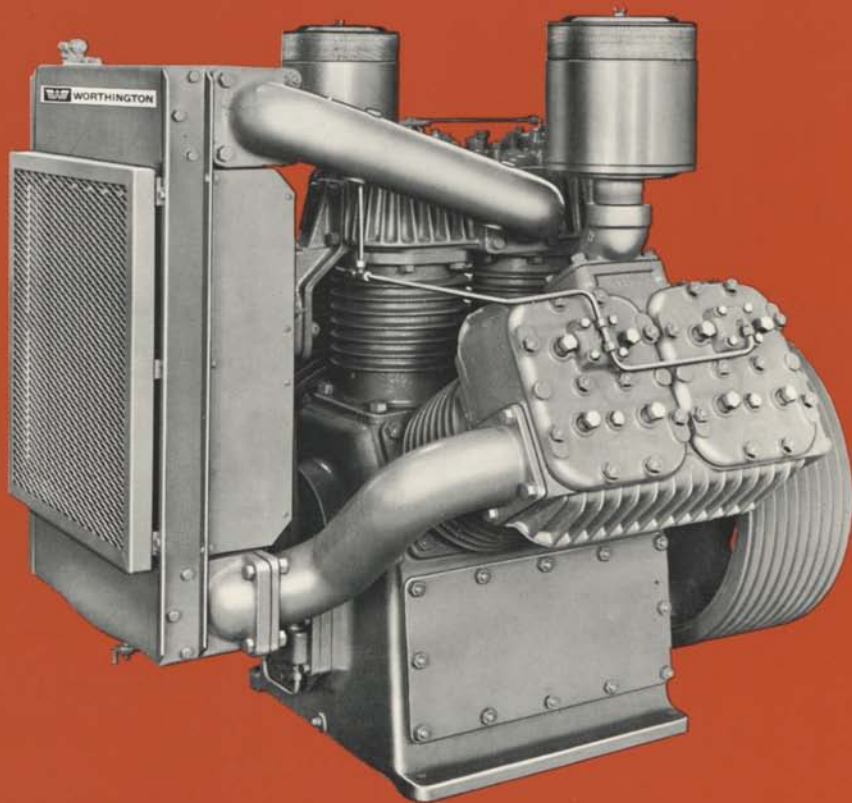
3,1 0 0.0 0

1 0 3.0 0

1 1,1 9 2.0 0 #

# Worthington type M radial air-cooled compressors

2-stage, 80-125 psi, 25-125 hp



A reliable source of plant air supply.  
Economical to install, run and maintain—  
through Worthington design superiority



# buy the Type M compressor: get the immediate benefits of radial 2-stage air-cooled design plus the advantages of Worthington superiority

## **Installs anywhere**

Eliminate water freezing hazard with Type M air-cooled compressor design. Installs anywhere, in heated or unheated areas. Can easily be relocated as requirements change.

## **Installs in less time**

Time is money. Type M radials eliminate need for special foundations and water piping. Require minimum hook-up to be operational.

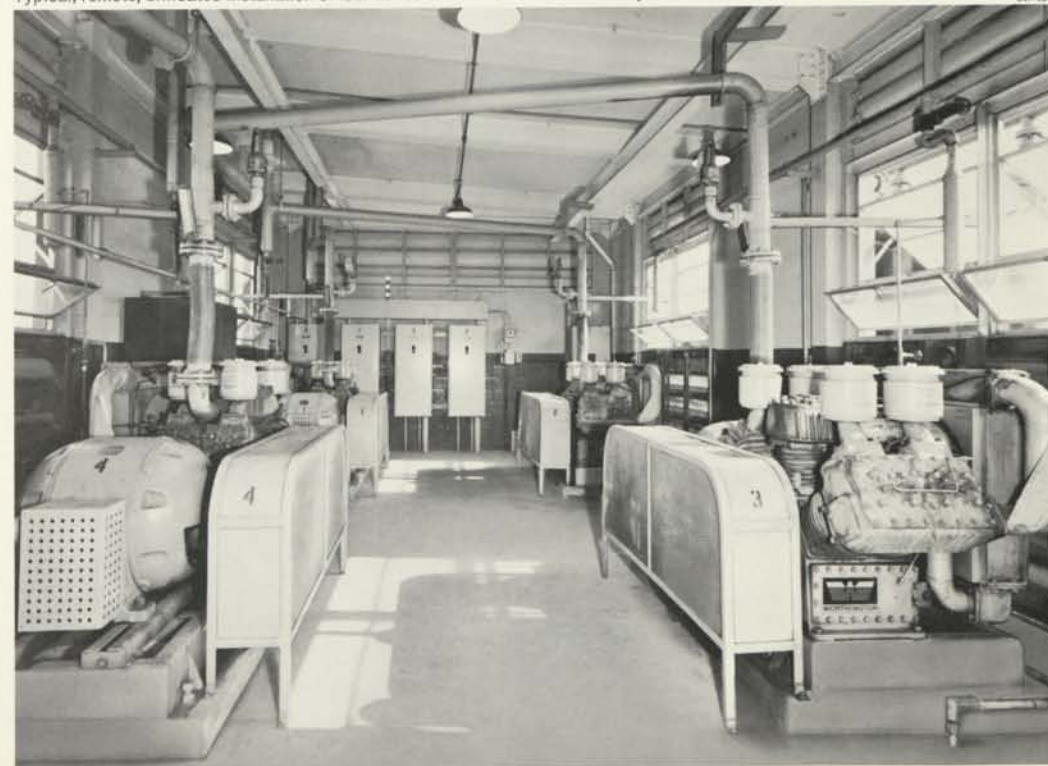
## **Installs in less space**

Compact radial design takes less floor space. Leaves valuable floor space for income-producing equipment.

## **costs less to operate and maintain**

Cooler running of all radial air-cooled compressors. Superior design dissipates power-robbing heat and reduces carbon build-up — gives lower power costs. Superior force-feed lubrication reduces parts wear — prolongs compressor life.

Typical, remote, unheated installation of four M-100's in railroad classification yard.



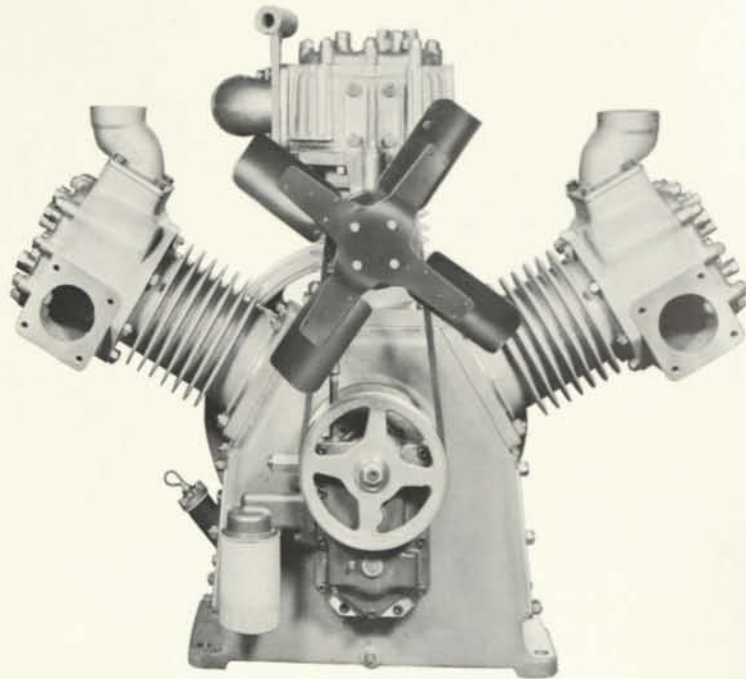
# reduced power consumption

Only through Worthington elevated fan design could such effective cooling and resultant power saving be achieved. Every Type M radial offers:

Large automotive-type fan concentrates cooling air on upper portion of cylinders where heat develops. Supplies cooling air where it's most needed.

Fan speed increased 50% over shaft speed. Pulls greater volume of cooling air over cylinders and intercooler for most effective heat removal.

Separately cast and isolated cylinders, let cooling air circulate around entire surface of cylinder — prevents hot spots where heat and carbon build-up can reduce operating efficiency.



# less wear and maintenance, greater oil life

Superior pressure lubrication and continuous oil filtering keeping compressor wear to a minimum and performance at peak level guarantees clean lubrication of all bearing surfaces.

The Type M lubrication system force-feeds clean filtered oil to all working parts.

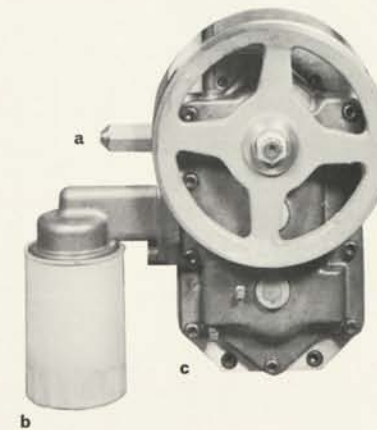
Under pressure, from the simple, foolproof, self-priming gear pump, clean oil is forced through drilled passages to all bearing surfaces, wrist pins, and cylinders.

As the oil is circulated it passes through an oil filter. Oil always remains clean retaining its lubricating properties.

Full-Flow Filter is standard equipment on all Type M compressors.

Through proper lubrication, many maintenance costs are eliminated. Because of the efficient filter, fewer oil changes are necessary.

Oil pressure adjusting valve (a), micronic filter (b), and oil pump housing (c)



Simple rotary gear, self-priming, oil pump provides pressure for oil system



# compactness and ease of maintenance

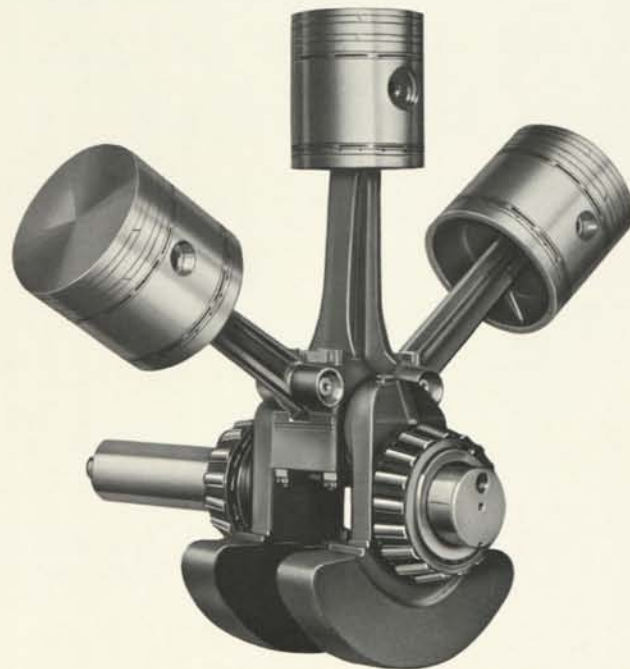
With articulated connecting rod design, cylinders can be arranged radially in-line about the crankcase. The result is a better looking, compact, more easily maintained compressor.

Aircraft-type articulated connecting rods conserve space — allows for a more eye-pleasing overall design.

Better balance with pistons in one plane perpendicular to the crankshaft axis — minimizes vibration.

Only one crankpin bearing\* for each crankthrow — simplifies maintenance.

Positive bearing alignment with rigid four-bolt construction secures crankpin bearing cap to the master rod. Gives longer service with less attention than conventional 2-bolt design.



\*M-25 and M-40A; M-50 through M-125 have two crankpin bearings.

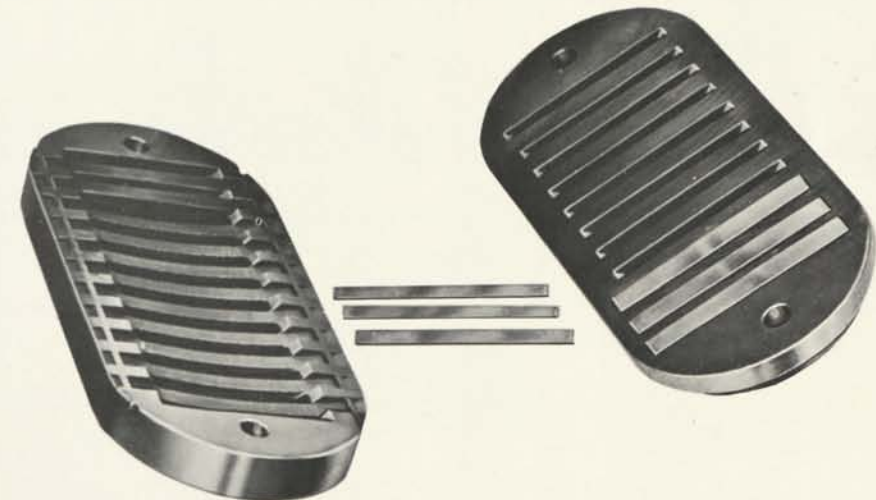
# simplest most efficient valve system

Worthington Feather® Valves — lightweight, rugged, highly responsive to compressor action.

Light, flexible steel strips take less than one one-hundredth of a second to open, release air and close. Compressor efficiency always remains high.

Quiet, simple and tight — strips seat gently and quietly, always conform to the valve seat surface.

With an unmatched record for durability and efficiency, the Feather® Valve has established its design superiority.

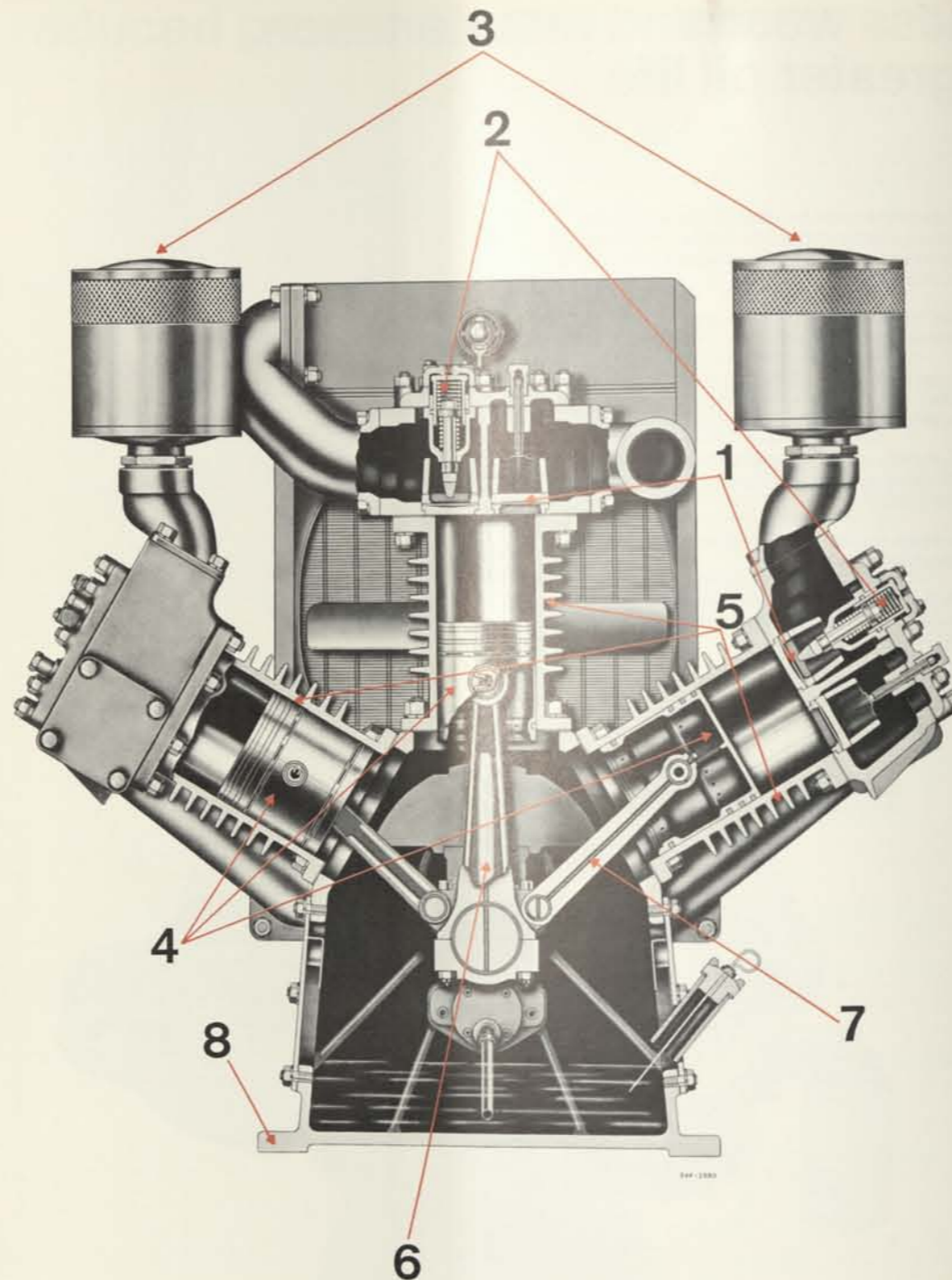


®FEATHER is a registered trademark of Worthington Corporation

## design superiority

The Type M, 2-stage radial is a superior compressor. Compare its features with other compressors in this class. Learn why this rugged and dependable machine will always produce its rated capacity at minimum cost.

- 1 Worthington Feather® Valves**—quiet, quick-acting, contribute to high overall efficiency.
- 2 Leakproof unloaders** hold suction valves open during unloaded period—sealed with O-rings.
- 3 Suction muffler-filters** keep dust and dirt out of entering air.
- 4 Long-skirted pistons**, ground to size; each fitted with two compression and two oil rings.
- 5 Radial design** isolates cylinders for most effective cooling. Cylinders are separate and removable of close-grained iron, honed, with circular fins. Heads of same material are generously finned with flanged connections.
- 6 Articulated connecting rod**, only one crankpin for each crankthrow. Made of drop-forged, heat-treated steel. Master rods fitted with precision-type steel-backed copper-lead bearing.
- 7 Connecting rods rifle drilled** to pressure lubricate wrist-pins.
- 8 Crankcase** is of rigid iron casting with reinforcing ribs; fully accessible.



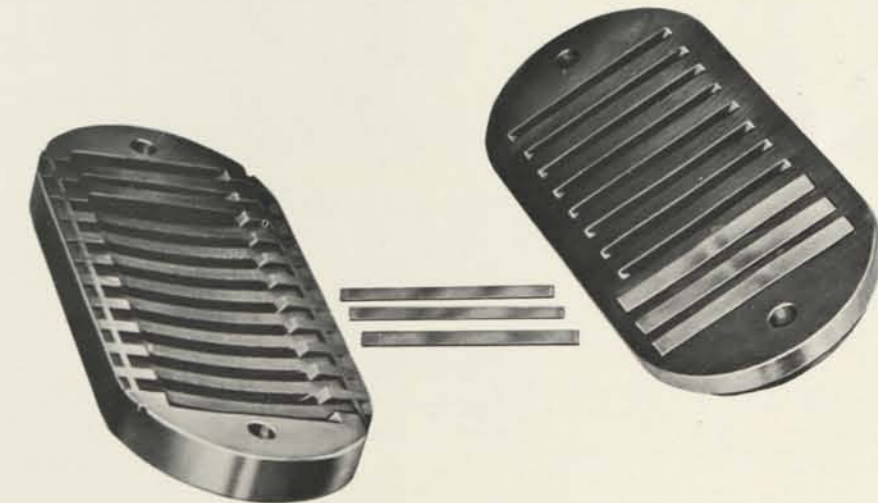
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# compactness and ease of maintenance

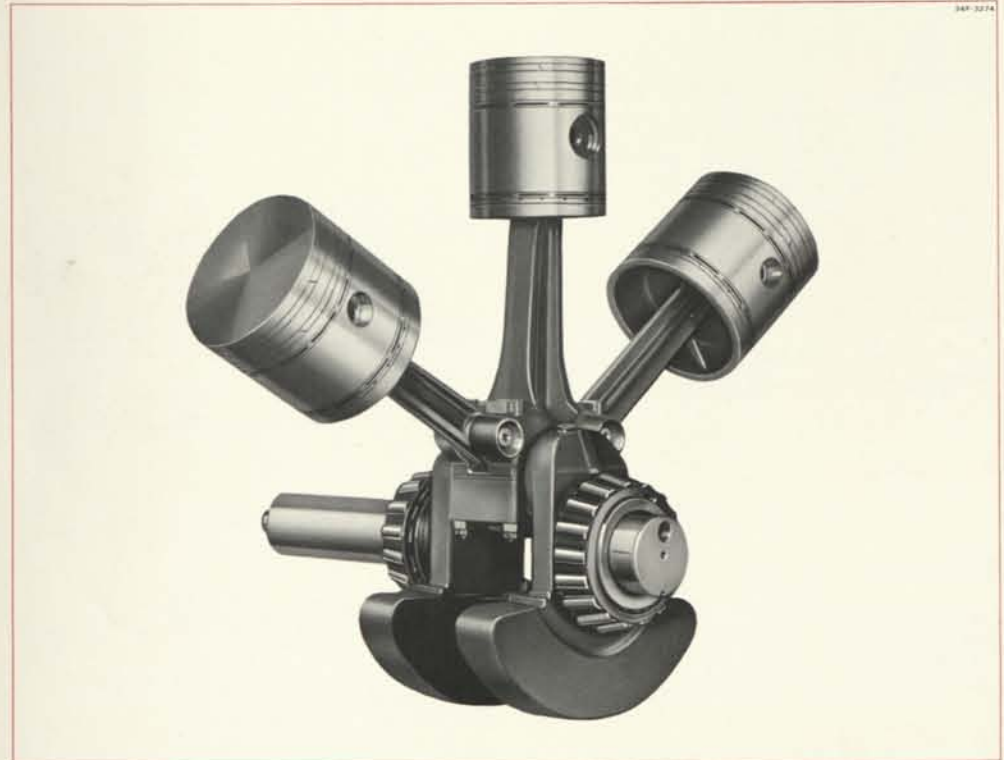
With articulated connecting rod design, cylinders can be arranged radially in-line about the crankcase. The result is a better looking, compact, more easily maintained compressor.

Aircraft-type articulated connecting rods conserve space — allows for a more eye-pleasing overall design.

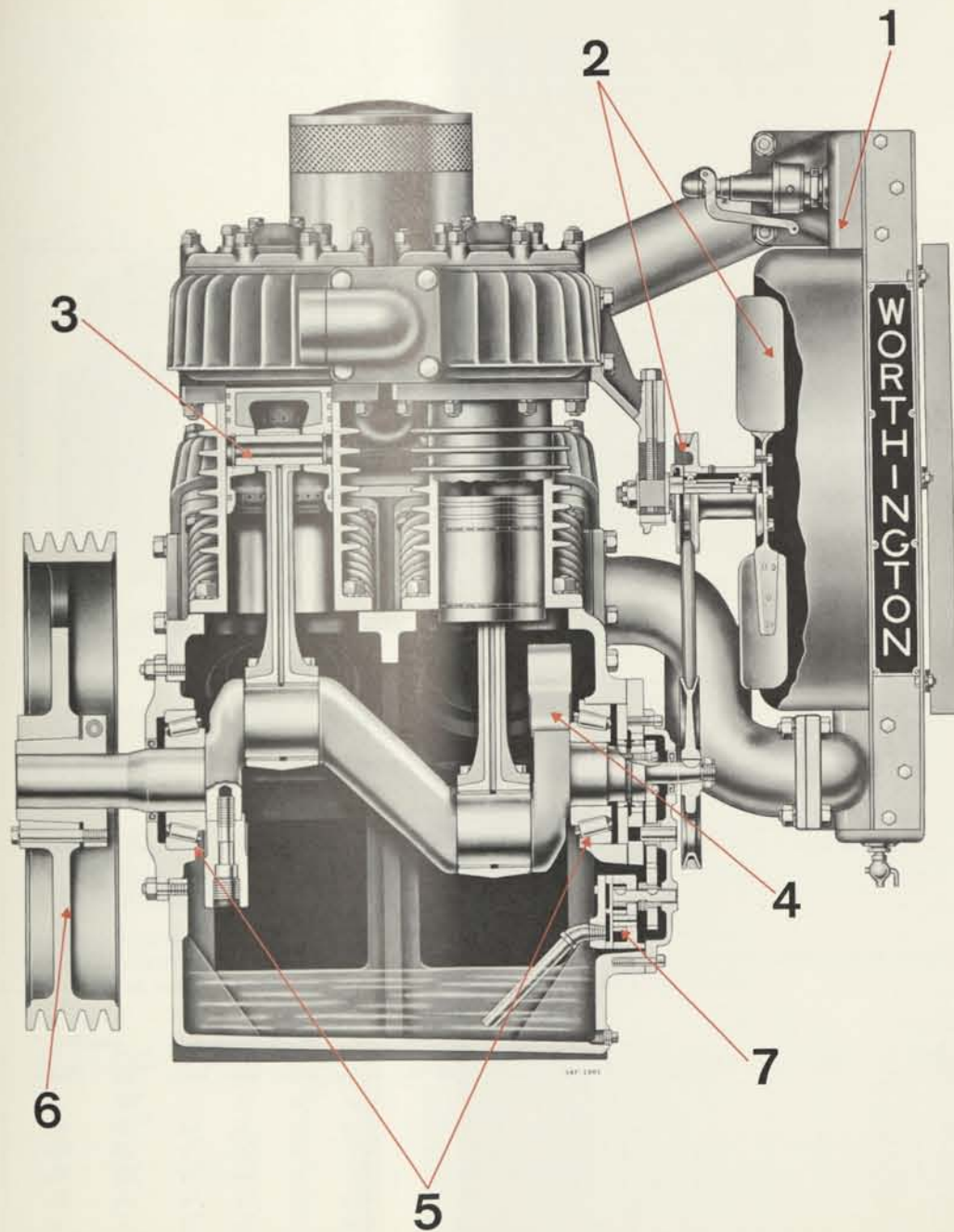
Better balance with pistons in one plane perpendicular to the crankshaft axis — minimizes vibration.

Only one crankpin bearing\* for each crankthrow — simplifies maintenance.

Positive bearing alignment with rigid four-bolt construction secures crankpin bearing cap to the master rod. Gives longer service with less attention than conventional 2-bolt design.



\*M-25 and M-40A: M-50 through M-125 have two crankpin bearings.



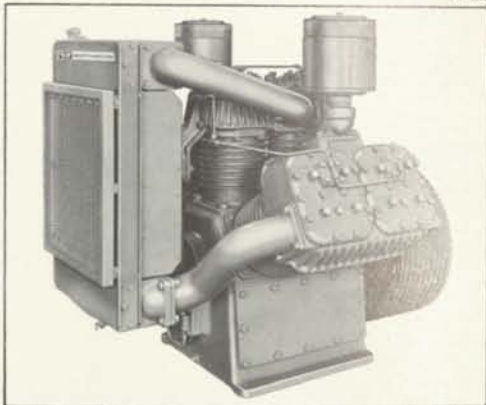
- 1 **Large intercooler** is radiator type with renewable core. Protected by guard; fitted with pop valve and drain valve. Always provides effective cooling between stages.
- 2 **Elevated cooling fan** provides abundant cooling air to upper cylinders and heads. Fan is double ball-bearing type mounted on bracket attached to cylinder. V-belt driven, it operates at 60% greater speed than shaft.
- 3 **Full-floating wristpins** are hardened and ground with spring-lock retainers—pressure lubricated.
- 4 **Fully counterbalanced crankshaft**, ground and polished journals.
- 5 **Main bearings** are single-row roller type—simple shim adjustment.
- 6 **Flywheel sheave** with tapered hub—easy to mount or remove.
- 7 **Self-priming oil pump**, driven by gear train forces filtered oil to all pin bearings.

# select a compressor to meet your requirements

capacities and sizes 80-125 psi pressure\*

model number	number and size of cylinders			motor required		
	low pressure	high pressure	stroke	hp	maximum rpm for multi-v-drive	shipping weight bare, lb.
M-25	2-6"	1-5"	5"	25	1750	1420
M-40A	2-7 1/4"	1-6"	5"	40	1750	1625
M-50	4-6"	2-5"	5"	50	1750	2100
M-80	4-7 1/4"	2-6"	5"	75	1750	2450
M-100	4-8 1/4"	2-7"	5"	100	1750	3800
M-125	4-8 1/4"	2-7"	5"	125	1750	3900

\*Also available for pressure to 200 psi: Type MH, radial two-stage compressor, 124-445 cfm displacement, 25-100 hp.



**bare compressor**  
(M-80 illustrated)

**standard equipment:** compressor with suction muffler-filters, intercooler with relief valve, cooling fan elevated to cylinder level, force-feed lubrication to all pin bearings, full-flow oil filter, constant-speed control and v-grooved flywheel.

**optional equipment and accessories:** dual control, multi-v-drive, flexible coupling, motor, motor starting switch, air receiver, automatic drain trap, water-cooled and air-cooled aftercoolers, low oil pressure and high temperature shut-down switches.

## dimensions and weights

piston displacement, cfm. at 870 rpm	model number	overall dimensions, in.			weight, lb.	
		length	width	height	net	shipping
142	M-25	36	47	44	1200	1420
222	M-40A	38	49	46	1305	1625
284	M-50	48	47	45	1820	2100
445	M-80	51	49	46	2020	2450
538	M-100	52	55	49	3140	3800
*717	M-125	52	55	51	3200	3900

\*At 1160 rpm



**base-mounted multi-v-belt driven compressor**  
(M-125 illustrated, with belt guard)

**standard equipment:** compressor with suction muffler-filters, intercooler with relief valve, cooling fan elevated to cylinder level, force-feed lubrication to all pin bearings, full-flow oil filter, constant-speed control, complete multi-v-drive, and motor slide rails, mounted on common baseplate.

**optional equipment and accessories:** motor, belt guard, dual control, motor starting switch, air receiver, automatic drain trap, water-cooled and air-cooled aftercoolers, low oil pressure and high temperature shut-down switches.

## dimensions and weights

with standard NEMA open dripproof 3-phase, 60 cycle, 1800 rpm motor, mvd, base

piston displacement, cfm. at 870 rpm	model number	overall dimensions, in.			weight, lb.	
		length	width	height	net	shipping
142	M-25	72	36	50	1975	2300
222	M-40A	72	38	52	2375	2825
284	M-50	78	48	53	2825	3400
445	M-80	89	51	54	3900	4700
538	M-100	96	52	55	4870	5740
*717	M-125	96	52	57	5265	6075

\*At 1160 rpm



**base-mounted flexible-coupled compressor**  
(M-100 illustrated)

**standard equipment:** compressor with suction muffler-filters, intercooler with relief valve, cooling fan elevated to cylinder level, force-feed lubrication to all pin bearings, full-flow oil filter, constant-speed control, flexible coupling, coupling guard, mounted on common baseplate.

**optional equipment and accessories:** motor, dual control, motor starting switch, air receiver, automatic drain trap, water-cooled and air-cooled aftercoolers, low oil pressure and high temperature shut-down switches.

## dimensions and weights

with standard NEMA open dripproof 3-phase, 60 cycle motor, base and coupling

piston displacement, cfm. at 870 rpm	model number	overall dimensions, in.			weight, lb.	
		length	width	height	net	shipping
142	M-25	78	47	51	2000	2400
222	M-40A	83	49	53	2275	2725
284	M-50	90	47	52	2900	3500
445	M-80	95	49	53	3750	4500
538	M-100	99	55	57	5100	6250
*717	M-125	99	55	59	5200	6350

\*At 1160 rpm

# controls to suit your needs

## for continuous demand

*Constant-Speed Control* unloads compressor at pre-set cut-out pressure, reloads at lower pre-set cut-in pressure; compressor and motor continue to run during unloaded period.

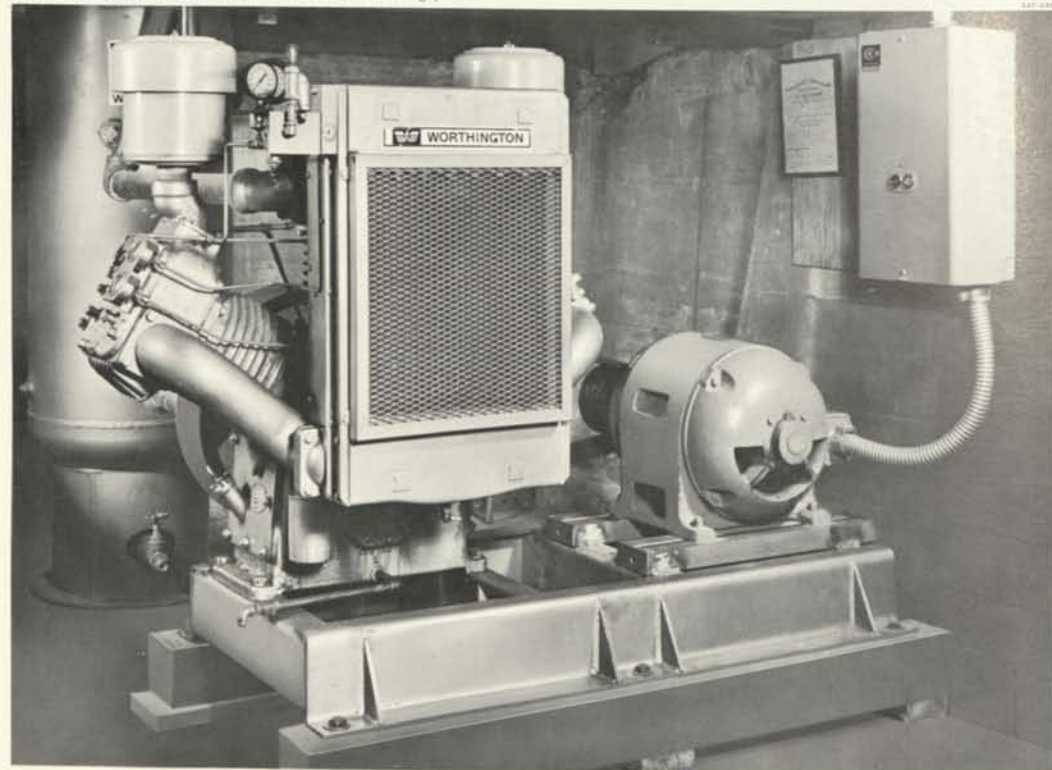
## for infrequent air demand

*Automatic Start and Stop Control* unloads compressor and stops both motor and compressor at pre-set cut-out pressure, automatically restarts motor and compressor at pre-set cut-in pressure.

## for varying air demand

*Manual Dual Control* permits operating compressor under either constant speed or automatic start and stop control at operator's option.

M-25 Compressor installation in a metal fabricating plant.



*Automatic Dual Control* provides for the compressor operating under constant-speed control and in addition will automatically stop compressor and motor if unloaded operation continues beyond pre-determined period and will restart compressor and motor when pre-set cut-in pressure is reached.

## for protecting compressor against malfunction

*Automatic Low-Oil Shut-Down* protects compressor against operating with low oil level or lack of lubricating oil pressure.

*Automatic High-Temperature Shut-Down* protects compressor from operating with excessive discharge air temperature.

# packaged MPK conserves floor space: slashes installation costs

A compact, attractive compressed air plant; that requires little floor space; cuts installation costs to a bare minimum; easy to maintain, economical to run and one purchase order buys everything.

## Installation costs slashed

No foundation, component wiring or piping. One connection to electric power supply. One connection to plant air piping.

## minimum floor space

Now vital air to run income-producing equipment takes up less floor space than was ever possible before. Only 76 x 42 inches for 25 and 40-hp units and 86 x 50 inches for 50 to 75-hp packages.

## attractive appearance

This compact, easily-handled package is so modern and attractive to look at—it can be located anywhere in the plant—no need to conceal this unit. Maintenance men will approve its modern console panel with all controls and operational lights in plain sight.

## one order buys all

Tell Worthington your air requirement. Eliminate separate contracts and negotiations for compressor, accessories, foundation and installation. A single order for one package consolidates all your compressed air purchases. Reduces paper work, engineering and supervision.



*Control Console* encloses all compressor controls: automatic dual control, automatic low-oil pressure cut-out, automatic high discharge air temperature cut-out; all completely wired and piped. Complete set of pressure gauges, running and automatic control indicating lights, on-off push button.



# a compressed air specialist conveniently located in your area

Your Worthington distributor — a local businessman trained and franchised by Worthington — can handle all your compressed air needs from application service through installation, parts or field service. Working through him, you are assured of a local service backed by Worthington's many years of leadership in compressor manufacturing.



**Application service:** Over supply of air is just as wasteful as an inadequate supply. With Worthington's complete range of compressors from 10 to 5000 psi and capacities to 2000 cfm, we can help you select the best compressor for your special air needs.



**Installation service:** Whether we install a packaged unit or just the compressor, no job is complete until all the necessary adjustments are made to assure maximum running effort as an integral part of your operation.



**Parts service:** Comes a time when even your Worthington compressor may need renewal parts. No problem when you deal with us. Our large stock of renewal parts guarantees that you can get genuine Worthington replacement units within hours after you call. Downtime worries are a thing of the past.



**Field service:** When you need help you want it immediately. Our factory-trained service personnel are ready and equipped to handle all but complete overhaul work on an emergency basis. They can also provide routine servicing for your compressor to keep it in top running shape.

Worthington Corporation  
Air-Cooled Compressor Section  
Holyoke, Massachusetts 01040

3430-B1S 666 Bar. P.  
Supersedes 3430-B1A



Litho in U.S.A.



# COMPRESSOR PROPOSAL

#1

Proposal Number

1 of 2

Page

ITEM NUMBERS LISTED BELOW

8/23/69

Date

Digital Equipment  
Customer ReferenceDigital Equipment  
CUSTOMER NAMEMaynard, Massachusetts  
CITY - STATE

	ITEM NUMBER	
UNIT PERFORMANCE#	SERVICE	
	TYPE OF GAS	Air
	STAGE OF COMPRESSION	2
	PISTON DISPLACEMENT—cfm	445
	COMPRESSOR SPEED—rpm	870
	ALTITUDE	SL
	INTAKE TEMPERATURE	Ambient
	INTAKE PRESSURE	Atmospheric
	DISCHARGE PRESSURE	100
	VOLUMETRIC EFFICIENCY—%	81
ACTUAL CAPACITY—cfm	361.3	
EQUIVALENT CAPACITY		
Bhp	81.1	
COMPRESSOR	(NUMBER OF UNITS) SIZE	(1) 7½-7½-6x5
	TYPE OF COMPRESSOR	11" with sub-base and constant speed control
	TYPE OF DRIVE	V-belt driven
	CAPACITY CONTROL	Constant speed
	STD. EQUIP. LISTED ON FORM:	
	BULLETIN NO.	
DRIVER	RATING—hp/rpm	15-1750
	TYPE	Induction
	Phase/Cycle/Volt/PF	3-60-460
	ENCLOSURE	Open drip-proof
	MAKE/FRAME SIZE	G.E. or Equal
	EXCITER—AC volts/DC volts	
STARTER	RATING—hp/volt	75-1750
	TYPE	Magnetic across the line with P.B.
	MAKE/SIZE	Westinghouse or Equal Size 4
ACCESSORIES	FILTER SIZE AND TYPE	Air Maze
	AFTERCOOLER SIZE/BULLETIN	M.P.C. 32
	RECEIVER SIZE/BULLETIN	30 dia. x 7 ft. high, 34 cubic foot capacity

\*DUE TO VARYING CONDITIONS OF INSTALLATION AND OPERATION, PERFORMANCE IS GUARANTEED WITHIN A VARIATION OF 3% PLUS OR MINUS, UNLESS OTHERWISE INDICATED ABOVE. THE PERFORMANCE OF MULTI-STAGE COMPRESSORS IS BASED ON PERFECT INTERCOOLING REQUIRING THAT THE TEMPERATURE OF THE COOLING WATER BE NOT LESS THAN 20 DEG. F. BELOW THE TEMPERATURE OF THE INCOMING GAS. ALL ECONOMY TESTS ARE MADE BY AND AT THE EXPENSE OF THE PURCHASER, ASME TEST CODE TO GOVERN.

UNLESS OTHERWISE STATED WORTHINGTON'S "STANDARD CONDITIONS OF SALE" ARE A PART OF THIS PROPOSAL.

FORM NO.  
DO-594 R2



# COMPRESSOR PROPOSAL

#1

Proposal Number

2 of 2

Page

ITEM NUMBERS LISTED BELOW

8/23/69

Date

Digital Equipment

Customer Reference

ITEM NUMBER	
SHIPPING WEIGHT—LBS.	COMPRESSOR
	MOTOR
	INTAKE FILTER
	AFTERCOOLER
	RECEIVER
	Dryer
CERTIFIED DRAWINGS WEEKS AFTER RECEIPT OF ORDER WITH COMPLETE MANUFACTURING INFORMATION IN OUR ENGINEERING DEPARTMENT; BASED UPON PROMPT RECEIPT OF DRIVER DRAWING FROM VENDOR.	
SHIPMENT WEEKS AFTER RECEIPT OF ORDER, COMPLETE MANUFACTURING INFORMATION AND DRAWING APPROVAL WHEN REQUIRED. CHANGES MADE AFTER APPROVAL OR WAIVER OF APPROVAL MAY RESULT IN DELAYS AND ADDITIONAL CHARGES.	
1 Week	
2-3 Weeks	
NET PRICE EACH	COMPRESSOR
	MOTOR
	INTAKE FILTER
	AFTERCOOLER
	AUTOMATIC MOISTURE TRAP
	RECEIVER
	High discharge air temperature shut down valve
	Air dryer 460 volt
	Manual dual control
FRIGHT	UNLESS OTHERWISE STATED AT RIGHT PRICE IS FOB BUFFALO, N. Y. OR POINT OF MANUFACTURE WITH FREIGHT ALLOWED TO FIRST DESTINATION WITHIN THE UNITED STATES, EXCLUDING ALASKA AND HAWAII.
Delivered Price in Mass. Only.	
Dryer F.O.B. Pennsylvania	
NUMBER OF DAYS SERVICE SUPERVISOR INCLUDED*	
0	

\* PRICE INCLUDES THE TIME ONLY OF A SERVICE SUPERVISOR (TRAVEL AND LIVING EXPENSES EXCLUDED), FOR THE STATED NUMBER OF EIGHT HOUR DAYS. NO DEDUCTION WILL BE MADE FOR THE OMISSION OF THIS SERVICE. THE TIME SPECIFIED IS NOT INTENDED TO COVER THE ENTIRE TIME REQUIRED FOR ERECTION. SUPERVISOR'S TIME AND EXPENSES WILL BE COMPUTED FROM THE TIME HE LEAVES BASE LOCATION UNTIL HIS RETURN THERETO. ALL TRAVEL AND LIVING EXPENSES, ADDITIONAL TIME, OVERTIME AND SHIPPING CHARGES FOR THE SUPERVISOR'S TOOLS WILL BE PAID FOR BY THE PURCHASER AS STATED IN PARAGRAPH 14 OF "STANDARD CONDITIONS OF SALE."

PRICE ADJUSTMENT CLAUSE (FORM DO-531) APPLIES TO WORTHINGTON PRODUCTS. THE PRICES FOR THE FOLLOWING PURCHASED EQUIPMENT WILL BE ADJUSTED TO REFLECT THE VENDORS' PRICES IN EFFECT AT TIME OF SHIPMENT.

TERMS OF PAYMENT UNLESS OTHERWISE STATED BELOW, THE STANDARD TERMS ON ATTACHED FORM DO-531 APPLY.

UNLESS OTHERWISE STATED WORTHINGTON'S "STANDARD CONDITIONS OF SALE" ARE A PART OF THIS PROPOSAL.

# W. PACKAGE.

W

1 0,4 6 4.0 0

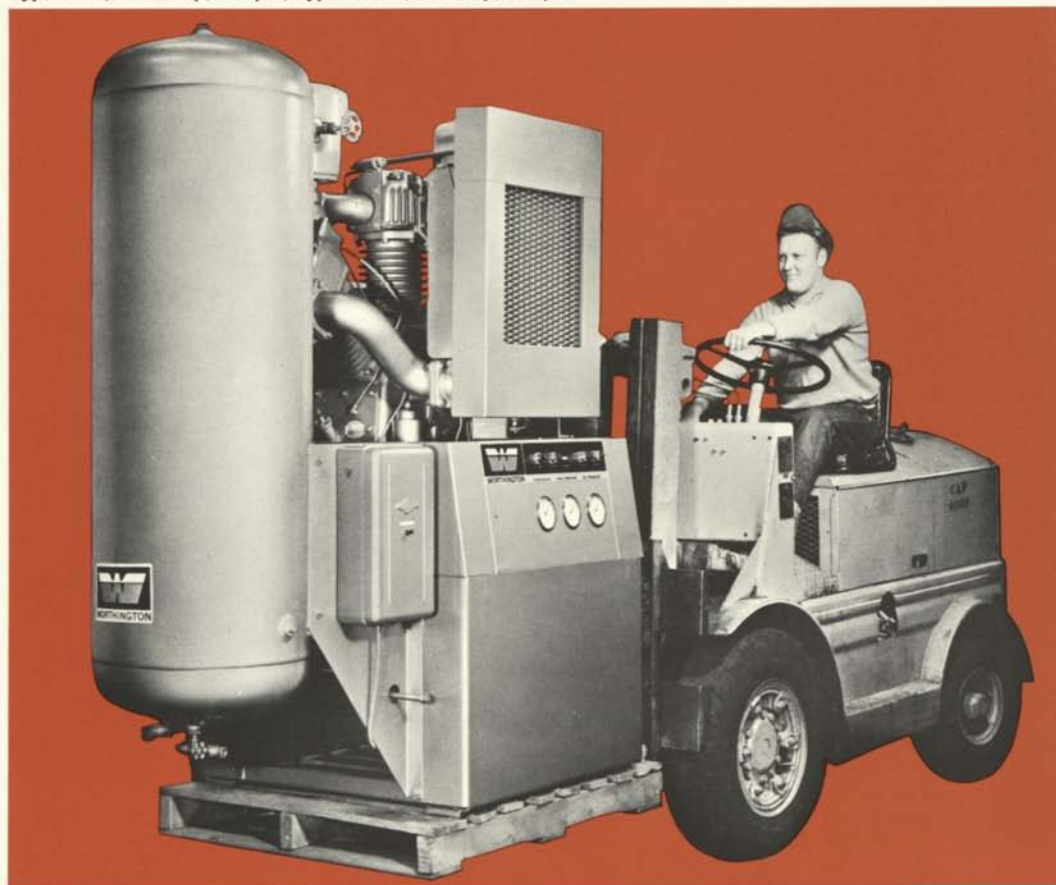
3,1 0 0.0 0

1 3,5 6 4.0 0 я

# Worthington

- air-cooled package compressor plant

Type MPK, 25-125 hp, 125 psi; Type MHPK, 25-75 hp, 200 psi



A new concept in compressed-air supply



# total-design concept saves space, cuts your costs

Worthington's air-cooled compressed-air system was conceived and executed expressly for package application. Result: a truly packaged compressed-air plant. This compact, attractive package requires little floor space, cuts installation costs to a bare minimum. It's easy to maintain, economical to run, and one purchase order buys everything.



## installation costs slashed

Unit comes complete: no foundation, plumbing, piping or complicated wiring required. One simple electrical connection to power supply, one connection to air outlet and you are in business. All air cooled — no freezing hazard — the unit can be placed anywhere in your plant.

## minimum floor space

Now, a vital air-producing package takes up less floor space than was ever possible before. Only 76 x 42 inches for 25 and 40 hp units and 86 x 50 inches for 50 to 125 hp packages.

## attractive appearance

This compact, easily handled package is so modern and attractive to look at that it can be located anywhere in the plant — no need to conceal this unit. Maintenance men will approve its modern console panel with all controls and operational lights in plain sight.

## easy to maintain, economical

Package design provides unusual accessibility to all areas requiring maintenance. Two-stage compression and high cooling effectiveness make it easy on power. Your business requires a reliable, economical air supply: the Worthington compressed-air package.

## one order buys all

Tell Worthington your air requirement. Eliminate separate contracts and negotiations for compressor, accessories, foundation and installation. A single order for one package consolidates all your compressed-air purchases, reduces paperwork, engineering and supervision.

# outstanding features of Worthington's radial two-stage compressor

Worthington's radial two-stage compressor is the most reliable, economical air-cooled compressor made. Because an air-cooled radial compressor eliminates the hazard of freezing, it can be installed anywhere in heated or unheated areas. Superior design of Worthington's two-stage radial gives greater cooling efficiency — lower operating costs.

Only the Worthington radial design has all these features: Separately cast and isolated cylinders with 360-degree cooling remove power-robbing heat more efficiently and reduce carbon build-up. Large automotive-type cooling fan at cylinder level blows effectively over the cylinders. Forced-feed lubrication system supplies continuously cleaned oil to bearings and other wear points, resulting in greater oil life, less wear and maintenance. Aircraft-type articulated connecting rods with one large bearing are more compact and easier to maintain. The quietest, most efficient valve system ever devised features the Worthington FEATHER® Valve — lightweight, rugged, highly responsive to compressor action.

## standard equipment on every package

### compressor

Radial two stage, air cooled; vibration shock mounted, isolating motor and compressor from mounting frame and air receiver

### motor

NEMA open drip-proof induction type, 208-220/440 volt, 3 phase, 60 cycle

### starter

Magnetic full voltage in NEMA I enclosure

### air receiver

ASME National Board registered, complete with relief, service and drain valves

### drive

Multi-V with easy one-point belt adjustment in protective enclosure

### intake filter-silencer

Dry type providing micronic filtration

### compressor controls

Automatic dual compressor control providing automatic operation on constant-speed control or start-and-stop control depending on air demand. Automatic low-oil-pressure shut-down protecting compressor against operating with low oil level or lack of lubrication. Automatic high-temperature shut-down protecting compressor from operating with excessive discharge temperature

### control console

Encloses all compressor control components and provides: gages for interstage pressure, final pressure, lubricating oil pressure; indicating lights for power on, low-oil-pressure cut-out and high-temperature cut-out; on-off pushbutton; hour meter

### complete piping

All interconnecting piping between compressor, air receiver and controls providing a single air outlet connection

### complete wiring

All wiring between motor, starter and control console providing a single power connection

## optional equipment

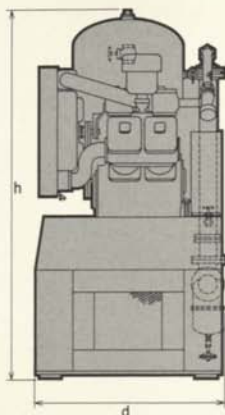
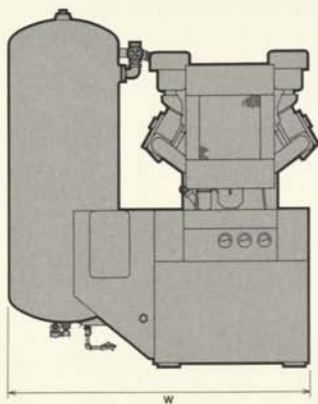
### water-cooled aftercooler

Cools discharge air to within 15 F of incoming water temperature. Equipped with separator, automatic moisture trap and automatic water valve. Completely installed to operate automatically with compressor

### air-cooled aftercooler

Finned-tube type with motor-driven fan designed to cool discharge air to within approximately 20 F of ambient temperature. Equipped with separator and automatic moisture trap. Completely installed to operate automatically with compressor

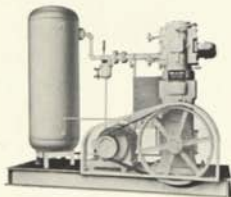
# select a compressor plant package for your specific requirements



## air-cooled ratings and dimensions—package air plants

model	motor hp	piston displacement, cfm	approximate dimensions, inches			approx. net weight, lb.	tank volume, cu. feet
			w	d	h		
<b>125 psi</b>							
M-25PK	25	142	75	41 1/4	85	3300	19
M-40APK	40	222	76	41 1/4	85	3500	19
M-50PK	50	284	86	50	97	4200	34
M-80PK	75	445	86	50	97	5500	34
M-100PK	100	538	86	50	97	6750	34
M-125PK	125	717	86	50	97	7100	34
<b>200 psi</b>							
M-25HPK	25	124	75	41 1/4	85	3300	19
M-40AHPK	40	199	76	41 1/4	85	3500	19
M-50HPK	50	248	86	50	97	4200	34
M-80HPK	75	368	86	50	97	5500	34

## other packages available, 10-150 hp, 60-2200 cfm



Type VB vertical water-cooled  
compressor package



Type R MONO-ROTOR® oil-cooled  
rotary compressor package



Type HB horizontal water-cooled  
compressor package

Worthington Corporation  
Air-Cooled Compressor Section  
Holyoke, Massachusetts 01040

\*MONO-ROTOR is a registered trademark of Worthington Corporation.

3430-B2A 667 TC  
Supersedes 3430-B2



Litho in U.S.A.



# COMPRESSOR PROPOSAL

#2

Proposal Number

1 of 2

Page

ITEM NUMBERS LISTED BELOW

8/23/69

Date

Digital Equipment

Customer Reference

Digital Equipment

CUSTOMER NAME

Maynard, Massachusetts

CITY - STATE

	ITEM NUMBER	
UNIT PERFORMANCE*	SERVICE	
	TYPE OF GAS	Air
	STAGE OF COMPRESSION	2
	PISTON DISPLACEMENT—cfm	445
	COMPRESSOR SPEED—rpm	870
	ALTITUDE	SL
	INTAKE TEMPERATURE	Ambient
	INTAKE PRESSURE	Atmospheric
	DISCHARGE PRESSURE	100
	VOLUMETRIC EFFICIENCY—%	87
ACTUAL CAPACITY—cfm	367.3	
EQUIVALENT CAPACITY		
Bhp	87.1	
COMPRESSOR	(NUMBER OF UNITS) SIZE	(1) 7 1/2-7 1/2-6x3
	TYPE OF COMPRESSOR	1" packaged air unit
	TYPE OF DRIVE	V-belt driven
	CAPACITY CONTROL	Automatic dual control
	STD. EQUIP. LISTED ON FORM:	3430-B2A
BULLETIN NO.	Ditto	
DRIVER	RATING—hp/rpm	75-1750
	TYPE	Induction
	Phase/Cycle/Volt/PF	3/60/460
	ENCLOSURE	Open drip-proof
	MAKE/FRAME SIZE	G.E. or Equal
EXCITER—AC volts/DC volts		
STARTER	RATING—hp/volt	75-460
	TYPE	Magnetic full voltage in N.E.M.A. 1 enclosure
	MAKE/SIZE	G.E. or Equal
ACCESSORIES	FILTER SIZE AND TYPE	Dry type filter silencer
	AFTERCOOLER SIZE/BULLETIN	15 degrees C.T.D.
	RECEIVER SIZE/BULLETIN	30" x 7 3/4 cubic foot capacity

\*DUE TO VARYING CONDITIONS OF INSTALLATION AND OPERATION, PERFORMANCE IS GUARANTEED WITHIN A VARIATION OF 3% PLUS OR MINUS, UNLESS OTHERWISE INDICATED ABOVE. THE PERFORMANCE OF MULTI-STAGE COMPRESSORS IS BASED ON PERFECT INTERCOOLING REQUIRING THAT THE TEMPERATURE OF THE COOLING WATER BE NOT LESS THAN 20 DEG. F. BELOW THE TEMPERATURE OF THE INCOMING GAS. ALL ECONOMY TESTS ARE MADE BY AND AT THE EXPENSE OF THE PURCHASER, ASME TEST CODE TO GOVERN.

UNLESS OTHERWISE STATED WORTHINGTON'S "STANDARD CONDITIONS OF SALE" ARE A PART OF THIS PROPOSAL.

FORM NO.  
DO-594 R2



# COMPRESSOR PROPOSAL

#2  
Proposal Number  
ITEM NUMBERS LISTED BELOW

2 of 2  
Page  
8/23/69  
Date

Digital Equipment  
Customer Reference

ITEM NUMBER	
SHIPPING WEIGHT—LBS.	COMPRESSOR
	MOTOR
	INTAKE FILTER
	AFTERCOOLER
	RECEIVER
CERTIFIED DRAWINGS WEEKS AFTER RECEIPT OF ORDER WITH COMPLETE MANUFACTURING INFORMATION IN OUR ENGINEERING DEPARTMENT; BASED UPON PROMPT RECEIPT OF DRIVER DRAWING FROM VENDOR.	
SHIPMENT WEEKS AFTER RECEIPT OF ORDER, COMPLETE MANUFACTURING INFORMATION AND DRAWING APPROVAL WHEN REQUIRED. CHANGES MADE AFTER APPROVAL OR WAIVER OF APPROVAL MAY RESULT IN DELAYS AND ADDITIONAL CHARGES.	
NET PRICE EACH	COMPRESSOR
	MOTOR
	INTAKE FILTER
	AFTERCOOLER
	AUTOMATIC MOISTURE TRAP
	RECEIVER
	Automatic dual control
	High temperature cut out device
	Low oil cut out device
	Completely wired and piped so you only need to bring in your 3 wire power lines to the starter box, connect the discharge line to your plant air, pipe the inlet and outlet water connection and you are on the production line
FREIGHT	UNLESS OTHERWISE STATED AT RIGHT PRICE IS FOB BUFFALO, N. Y. OR POINT OF MANUFACTURE WITH FREIGHT ALLOWED TO FIRST DESTINATION WITHIN THE UNITED STATES, EXCLUDING ALASKA AND HAWAII.
NUMBER OF DAYS SERVICE SUPERVISOR INCLUDED*	

\* PRICE INCLUDES THE TIME ONLY OF A SERVICE SUPERVISOR (TRAVEL AND LIVING EXPENSES EXCLUDED), FOR THE STATED NUMBER OF EIGHT HOUR DAYS. NO DEDUCTION WILL BE MADE FOR THE OMISSION OF THIS SERVICE. THE TIME SPECIFIED IS NOT INTENDED TO COVER THE ENTIRE TIME REQUIRED FOR ERECTION. SUPERVISOR'S TIME AND EXPENSES WILL BE COMPUTED FROM THE TIME HE LEAVES BASE LOCATION UNTIL HIS RETURN THERETO. ALL TRAVEL AND LIVING EXPENSES, ADDITIONAL TIME, OVERTIME AND SHIPPING CHARGES FOR THE SUPERVISOR'S TOOLS WILL BE PAID FOR BY THE PURCHASER AS STATED IN PARAGRAPH 14 OF "STANDARD CONDITIONS OF SALE."

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TERMS OF PAYMENT UNLESS OTHERWISE STATED BELOW, THE STANDARD TERMS ON ATTACHED FORM DO-531 APPLY.

UNLESS OTHERWISE STATED WORTHINGTON'S "STANDARD CONDITIONS OF SALE" ARE A PART OF THIS PROPOSAL.

# Worthington

- aftercoolers  
for air and gas

Type BA and Type P

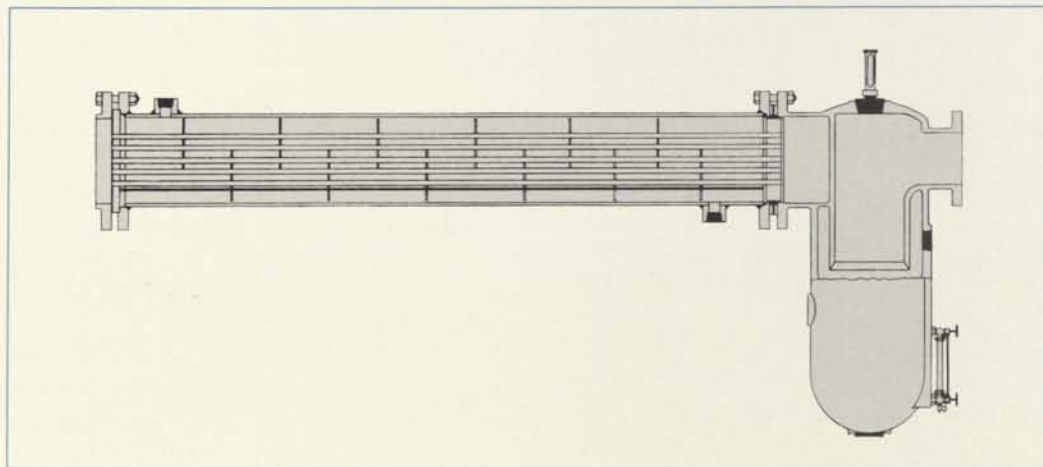


- 
- 

High heat transfer  
Negligible pressure drop  
Removable tube nest  
Cyclone separator



# Worthington aftercoolers give moisture-free air-supply system



All free air contains considerable moisture, the amount varying according to location and climatic conditions. Since the capacity to carry water vapor is reduced when air is compressed, condensation takes place in the piping system as soon as the air begins to cool.

To remove moisture from air or gas, the gas must be cooled to approximately normal temperature before the vapor is condensed and can be separated as water. The only satisfactory method of doing this is by the use of aftercoolers.

Chart below shows the weight of moisture per thousand cubic feet of saturated air at various pressures and temperatures. For example, 1,000 cu. ft. of saturated air drawn into a compressor at 0 psig and 70F contains 1.12 lb. of moisture. Following compression to 100 psig and cooling to 70F using 55F water, its moisture content will only be 0.15 lb. or 13% of the water vapor originally present. The remainder has condensed in the inter-cooler (if used) and the aftercooler.

A differential of 15F between temperature of the cooling water entering the aftercooler, and the temperature of the air leaving the aftercooler is good practice. While it is possible to secure a lower air temperature (with the same water temperature), this requires a larger more expensive cooler, and greater water consumption.

## the cooler

Air passes through a large number of long-length small-diameter, corrosion-resistant tubes in thin streams at the proper velocities for highest heat transfer to surrounding water. The area of the tube surface is exceptionally large and pressure drops of the

air and water are negligible. The seamless steel shell is baffled to provide the longest travel of water over the tube nest. Counter-current flow with water flow opposite that of the air is used.

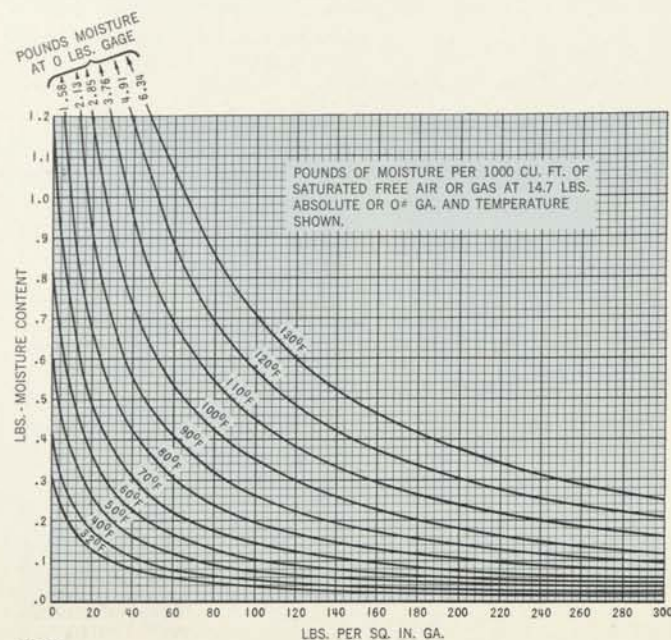
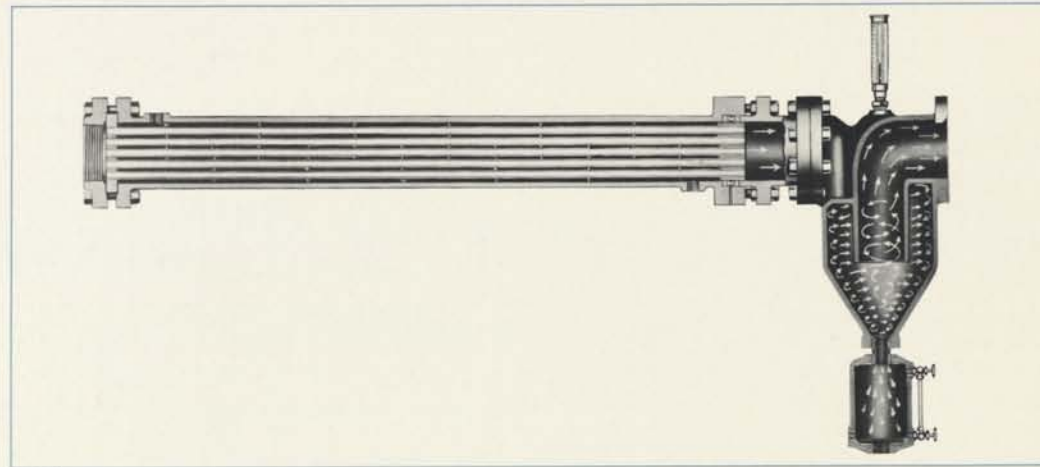
For easy cleaning and inspection a removable tube nest is used. The floating rear tube sheet allows for necessary tube expansion. A double-row packing gland effectively seals the floating tube head against air and water leakage. Venting the packing to atmosphere prevents interchange of leakage between air and water sides.

## the separator

Ability of the separator to eliminate condensed moisture and oil from the air flow determines the overall efficiency of the aftercooler.

The cyclone design separator removes particles heavier than air by centrifugal force. The high velocity generated in the circular path separates the water and oil from the air by centrifugal action. Separated moisture falls to the bottom, while the cleaned air continues upward and out through the discharge pipe.

The storage chamber is provided with a drain connection and sight glass to indicate condensate level. An automatic moisture trap is recommended.



## coordinating compressor and auxiliary equipment

Proper selection of all auxiliary equipment is as important as the selection of the compressor itself. Worthington, through years of experience, is fully qualified to handle all such installations and give complete undivided responsibility when Worthington compressors and auxiliaries are specified.

# dimensions and specifications

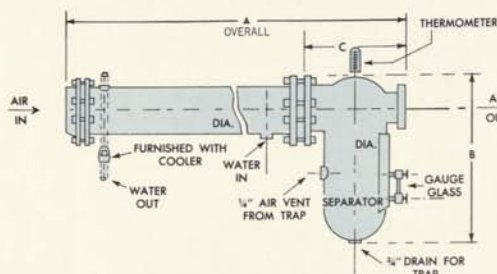


Figure 1

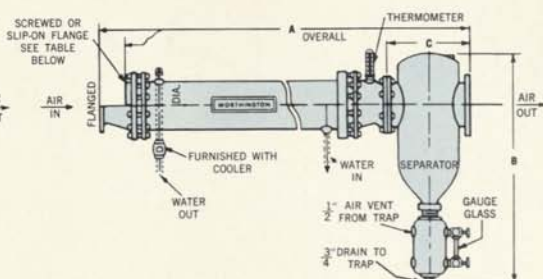


Figure 2

SIZE	ACTUAL CAPACITY (CFM)							A	B	C	AIR		Weight, lb	Figure
	Two Stage	Single Stage									Inlet	Outlet		
		80-125 lb	60-125 lb	50 lb	60 lb	30 lb	20 lb							
BA 151	100	85	75	55	40	30	25	11' 5 1/8"	13 3/8"	7 3/4"	1 1/2"S	1"S	90	FIG. 1
BA 210	120	105	90	80	65	50	40	11' 5 1/8"	14 1/8"	7 3/4"	2"S	1 1/4"S	160	
BA 221	155	125	115	110	80	60	50	11' 5 1/8"	14 1/8"	7 3/4"	2"S	1 1/4"S	180	
BA 222	180	150	150	145	100	75	60	11' 5 1/8"	14 1/8"	7 3/4"	2"S	1 1/4"S	200	
BA 421	360	300	265	210	170	125	105	11' 9 1/16"	18 1/2"	11 1/8"	4"F	2 1/2"S	270	
BA 422	415	375	300	260	210	155	130	11' 9 1/16"	18 1/2"	11 1/8"	4"F	2 1/2"S	280	
BA 423	485	425	340	305	240	180	150	11' 9 1/16"	18 1/2"	11 1/8"	4"F	2 1/2"S	295	
BA 533	540	450	400	360	290	215	180	12' 0 1/16"	29"	14 1/4"	5"F	3"S	475	
BA 534	640	535	475	400	320	240	200	12' 0 1/16"	29"	14 1/4"	5"F	3"S	485	
BA 535	725	600	530	480	385	290	240	12' 0 1/16"	29"	14 1/4"	5"F	3"S	495	
BA 642	900	750	665	600	485	365	300	12' 3 1/16"	33 1/2"	17"	6"F	4"F	710	
BA 643	1270	1050	930	740	590	445	370	12' 3 1/16"	33 1/2"	17"	6"F	4"F	725	
BA 644	1500	1270	1115	900	720	540	450	12' 3 1/16"	33 1/2"	17"	6"F	4"F	740	
BA 853	1665	1350	1190	1120	770	575	480	12' 8 1/4"	34 3/4"	22"	8"F	5"F	940	
BA 854	2030	1650	1460	1325	1040	780	650	12' 8 1/4"	34 3/4"	22"	8"F	5"F	960	
BA 860	2520	2140	1860	1620	1295	970	810	12' 8 1/4"	34 3/4"	22"	8"F	5"F	980	
BA 1061	3300	2750	2420	2080	1665	1250	1040	12' 11 1/8"	40"	25"	10"F	6"F	1425	
BA 1062	4195	3400	3030	2560	2050	1535	1280	12' 11 1/8"	40"	25"	10"F	6"F	1500	
10 A-P	4960	4100	3640	2960	2370	1775	1480	12' 11 1/2"	45"	17 3/4"	12"F	8"F	1925	FIG. 2
11 A-P	6080	5000	4450	3600	2880	2160	1800	12' 11 1/2"	45"	17 3/4"	12"F	8"F	2015	
12 A-P	7300	6000	5340	4350	3480	2610	2175	13' 7"	58"	25"	14"F	10"F	2415	
13 A-P	8400	7000	6250	5100	4080	3060	2550	13' 7 3/4"	58"	25"	16"F	10"F	2835	
14 A-P	10000	8300	7350	6000	4800	3600	3000	13' 7 3/4"	58"	25"	16"F	10"F	2900	
15 A-P	12000	9800	8750	7200	5760	4320	3600	14' 0 1/4"	67"	30"	18"F	12"F	3645	
16 A-P	14200	11500	10200	8400	6720	5040	4200	14' 10"	67"	30"	20"F	12"F	4500	

S—Indicates screwed connections—NPT  
F—Indicates flanged connections—150 lb. A.S.A. flat face

Worthington Corporation  
Water-Cooled Compressor Sales Department  
P.O. Box 69  
Buffalo, New York 14240

3690-B1B 658 TC  
Supersedes 3690-B1A



Litho in U.S.A.

## Sales and Service Offices

<b>Alabama</b> Birmingham Mobile	<b>Nebraska</b> Hastings
<b>Arizona</b> Phoenix	<b>New Jersey</b> Harrison Newark
<b>California</b> Los Angeles San Francisco	<b>New York</b> Buffalo New York Rochester Syracuse
<b>Colorado</b> Denver	<b>North Carolina</b> Charlotte
<b>Connecticut</b> Hartford	<b>Ohio</b> Akron Cincinnati Cleveland Columbus Toledo
<b>District of Columbia</b> Washington	<b>Oklahoma</b> Tulsa
<b>Florida</b> Jacksonville Orlando Tampa	<b>Oregon</b> Portland
<b>Georgia</b> Atlanta	<b>Pennsylvania</b> Philadelphia Pittsburgh
<b>Illinois</b> Chicago	<b>Tennessee</b> Knoxville
<b>Indiana</b> Indianapolis	<b>Texas</b> Amarillo Dallas Houston Midland
<b>Kentucky</b> Louisville	<b>Utah</b> Salt Lake City
<b>Louisiana</b> Baton Rouge New Orleans	<b>Washington</b> Seattle
<b>Maryland</b> Baltimore	<b>West Virginia</b> Charleston
<b>Massachusetts</b> Boston	<b>Wisconsin</b> Milwaukee
<b>Michigan</b> Detroit	
<b>Minnesota</b> Minneapolis	
<b>Missouri</b> Kansas City St. Louis	

## Plants

<b>Alabama</b> Decatur	<b>New Jersey</b> East Orange Harrison Newark
<b>California</b> Montebello	<b>New York</b> Auburn Buffalo Schenectady Wellsville
<b>Colorado</b> Denver	<b>Pennsylvania</b> Latrobe
<b>Illinois</b> Chicago Heights	<b>Texas</b> Fort Worth
<b>Massachusetts</b> Holyoke Norwood	<b>Wisconsin</b> Milwaukee
<b>Minnesota</b> Minneapolis	

*Puerto Rico*

*Correspondence  
XR Invoices*

DANIEL INTERNATIONAL CORPORATION

DANIEL BUILDING  
GREENVILLE, SOUTH CAROLINA 29602  
803/242-5900

November 27, 1972

NOV 30 1972

Digital Equipment Company  
146 Main Street  
Maynard, Massachusetts 01754

Attention: Mr. Pete Mackey

Re: Engineering Survey  
Corrosion Problem  
Digital Equipment Company Plant  
Puerto Rico

*cc  
✓ file  
Geo Beebe  
P. Marshall  
to Geo  
pls check this out.  
see Greg Bacon.  
P. Mackey,  
Ans H.*

Gentlemen:

An unpaid invoice to your concern has been referred to our Law Department for collection.

Please review your files and advise this office immediately if there is any reason for your failure to pay Daniel Engineers invoice # 1940 in the amount of \$828.70.

If this matter is merely an oversight, please forward payment for our receipt by December 8, 1972 to avoid further action by this office.

Yours very truly,

DANIEL INTERNATIONAL CORPORATION

*Maxwell Alston*  
By: Maxwell Alston

Associate General Counsel

cc: R. L. Carter  
R.D. Wilroy



Puerto Rico

Correspondence  
XR Invoice

December 8, 1972

Mr. Maxwell Alston  
Associate General Counsel  
Daniel International Corporation  
Greenville, South Carolina 29602

Dear Mr. Alston,

In regard to your request for payment on invoice #1940, for \$828.70, we would ask that you forward this information and request to Mr. Hiram Quinones at our Puerto Rico Plant. The address is as follows:

Digital Equipment Corporation  
P. O. Box 106  
San German, Puerto Rico 00753

We are sorry for the inconvenience and delay, but can assure you that Mr. Quinones will give this his immediate attention.

Very sincerely yours,

Mr. Peter Mackey

PM/gl  
cc: George Beebe

*Puerto Rico*

*Correspondence  
XR Invoices  
File*



DANIEL ENGINEERS  
A DIVISION OF DANIEL CONSTRUCTION COMPANY, INC.  
DANIEL BUILDING  
GREENVILLE, SOUTH CAROLINA 29602  
803/242-5900

July 26, 1972

Mr. Pete Mackey  
Digital Dequiment Company  
146 Main Street  
Maynard, Massachusetts 01754

Reference: Engineer Survey  
Corrosion Problem  
Digital Equipment Co. Plant  
Puerto Rico

Dear Mr. Mackey:

As we answered your request for additional backup data on June 20, we still have not heard from you with regards to our invoice #1940 for \$828.70 dated November 18, 1971. We would appreciate it if you would forward payment of this invoice as soon as possible. If not, we would appreciate an explanation as to why not.

Very truly yours,

DANIEL ENGINEERS

*Robert D. Wilroy*  
Robert D. Wilroy

RDW/lkj

cc: Mr. Greg Beacon  
Digital Equipment Co.  
146 Main Street  
Maynard, Massachusetts

Mr. Dennis McMakin

7/31

Helen.

I sent you all the  
information on this project  
and never heard from  
you.

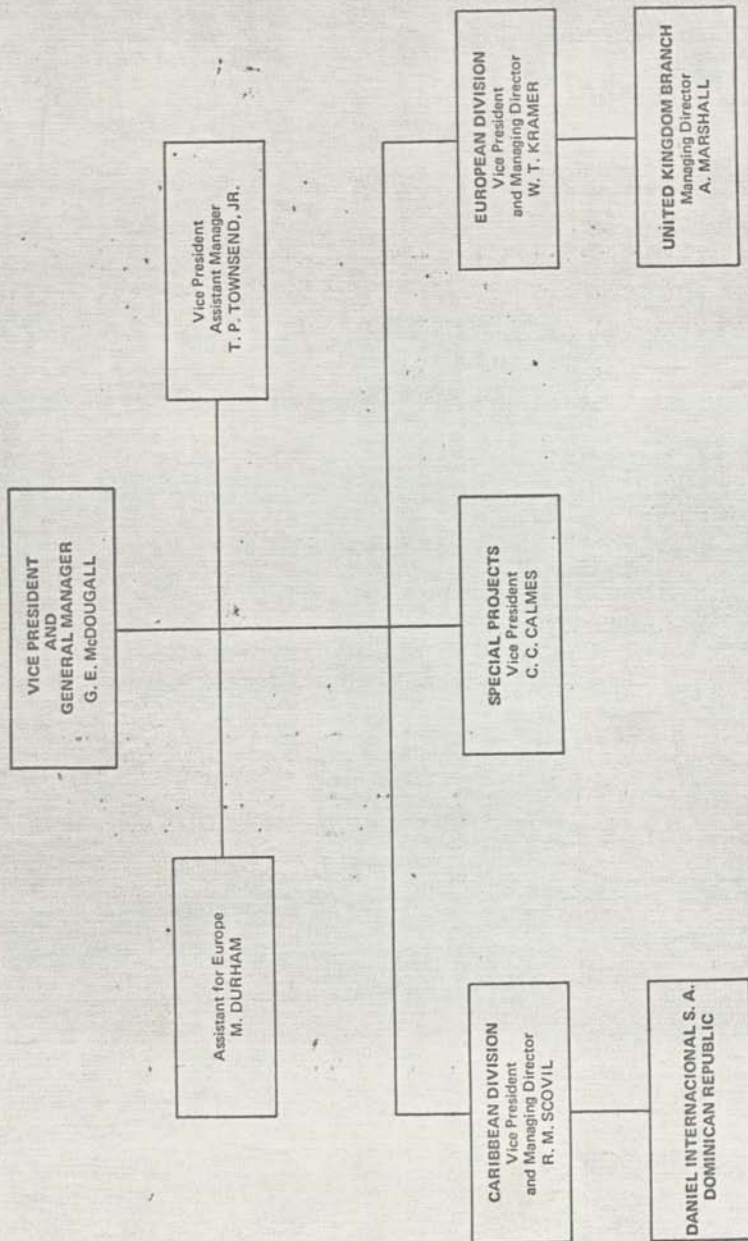
Will you be kind enough  
to handle this for me.

Pete

*Correspondence  
XX Directory*

*Parto Rio*

APPROVED: *[Signature]*  
Buck Mickel - President  
March 1, 1971



*Photo Rio*

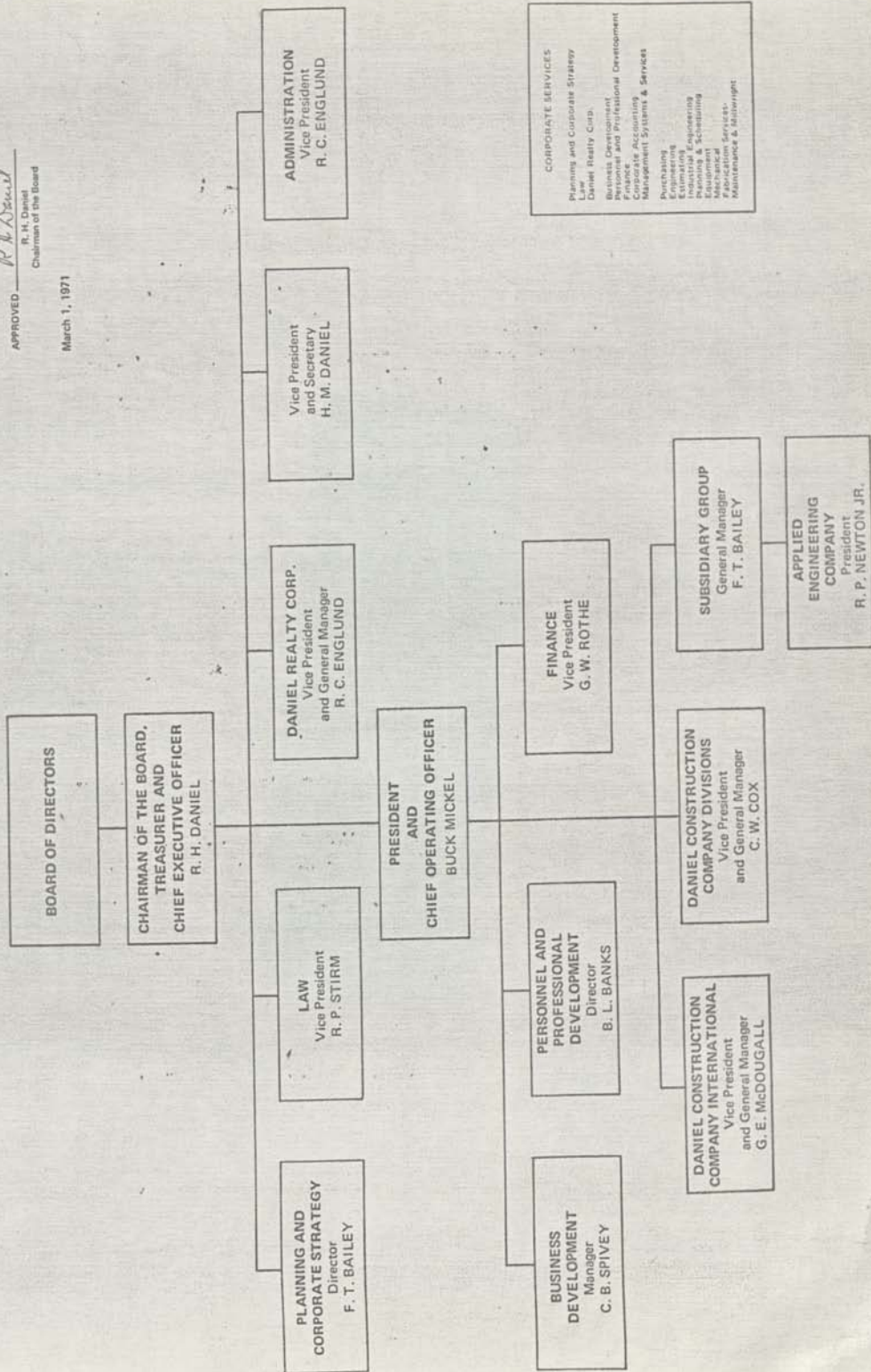
*Correspondence  
X.R. Daniels*



DANIEL INTERNATIONAL CORPORATION  
CORPORATE ORGANIZATION

APPROVED *R.H. Daniel*  
R. H. Daniel  
Chairman of the Board

March 1, 1971



Puerto Rico

JUN 28 1971

Correspondence  
X.R. Contracts, & cost  
Contractor

Daniel Construction Company International  
Caribbean Division

Roger M. Scovil  
Vice President-General Manager

G. P. O. Box 3028  
San Juan, Puerto Rico

June 25, 1971

Mr. Ray Carlson  
Plant Engineering 4-3  
Digital Equipment Corporation  
146 Main Street  
Maynard, Mass.

Dear Ray:

In accordance with our conversation I am pleased to submit as follows our estimate for performing engineering design for your Process Water and Outside Fire Protection system as follows:

Process Water System  
(excluding waste treatment)

Project Development & Site Analysis	30 hrs.	\$900.00
Manager of Engineering	40 hrs.	1200.00
R. Wilroy	40 hrs.	1200.00
Mechanical Engineer	40 hrs.	880.00
Electrical Engineer	20 hrs.	440.00
Draftmen	60 hrs.	900.00
Total	230 hrs.	\$5,520.00

This design includes drawings and specifications of equipment for 732,000 GPD total water usage, filtered 30 micron; 180,000 GPD deionized and filtered

Copy to L. Burt  
6/28/71

Mr. Ray Carlson

June 25, 1971

5 micron, process water system. Also included is the site investigation for well water availability and analysis.

Outside Fire Protection  
(excluding inside sprinklers)

Manager of Engineering	20 hrs.	\$600.00
Mechanical Engineer	40 hrs.	880.00
Electrical Engineer	20 hrs.	440.00
Draftmen	<u>60 hrs.</u>	<u>900.00</u>
Total	140 hrs.	\$2,820.00

There will be some incidental expenses for travel, blueprints etc. so, for budget purposes, I would suggest that you use \$9,000 for both systems plus whatever contingency you normally apply for changes or revisions.

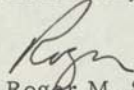
The rates shown assume that the work will be done together with the waste treatment system so that the 2.5 multiplier can be used in accordance with the College of Engineers Minimum Fee Schedule. If the water portion is done separately, you should add 10% since a 2.75 multiplier would apply.

We have still not received the process effluent analysis from your people which we need for the waste treatment estimate.

I trust that you will find this estimate satisfactory. Please call me if you have any questions.

With best personal regards.

Yours very truly,



Roger M. Scovil

RM:nr

P.R.

Correspondence

ESTIMATE CORRECTION SHEET  
Form 44-2 (Rev. 4-70)

DANIEL CONSTRUCTION COMPANY, INC.

SHEET 1 OF 1

PROJECT NAME & NO. Digital Equip. Corp.  
 LOCATION San Germán, P.R.  
 OWNER Digital Equip. Corp.  
 ARCHITECT \_\_\_\_\_

OFFICE \_\_\_\_\_  
 BID DATE 5/6/71  
 FLOOR AREA \_\_\_\_\_  
 UNIT COST \_\_\_\_\_  
 ESTIMATOR TJC

BRICK MASONS \_\_\_\_\_  
 CARPENTERS \_\_\_\_\_  
 CEMENT FIN \_\_\_\_\_  
 ELECTRICIANS \_\_\_\_\_  
 INSULATORS \_\_\_\_\_  
 IRON WORKERS \_\_\_\_\_  
 LABORERS \_\_\_\_\_  
 MILLWRIGHTS \_\_\_\_\_  
 OPERATING ENG. \_\_\_\_\_  
 PAINTERS \_\_\_\_\_  
 PIPEFITTERS \_\_\_\_\_  
 PLUMBERS \_\_\_\_\_  
 SH. MTL. WORK \_\_\_\_\_  
 WELDERS \_\_\_\_\_

EXTENDED BY \_\_\_\_\_  
 CHECKED BY TJC

PAGE NO.	LINE NO.	ITEM OR DESCRIPTION	IN ESTIMATE	NEW PRICE	MATERIAL		LABOR		SUB CONTRACTS & OTHER	
					ADD	DEDUCT	ADD	DEDUCT	ADD	DEDUCT
		<b>BROUGHT FORWARD</b>								
		<u>HVAC</u>								
1	32	THRU-WALL A/C UNITS	4970	—	—	4550	—	420	—	—
		<u>Mechanical</u>								
1	37	Cooking Water Supply	548	+	—	195	—	353	—	—
1	38	Cooking Water RETURN	548	+	—	195	—	353	—	—
1	39	"T" Supply Piping	1060	+	—	346	—	714	—	—
1	40	"T" Return Piping	1324	+	—	410	—	854	—	—
1	42	Cooking Water Insulation	1514	+	—	688	—	826	—	—
1	44	Sanitary Plumbing	12303	+	—	7274	—	5029	—	—
1	45	O.S. Sanitary Sewer	2129	+	—	576	—	1253	—	—
1	47	Air Drops to Fan Columns	6072	3036	—	717	—	2319	—	—
		<u>Cut sheet Totals</u>	30468	3036	—	15281	—	12151	—	—
				27132	—	15281	—	12151	—	—
		<u>Drains Totals Est. 7/3/71</u>	375692	—	252241	—	81451	—	42000	—
		<u>— Cut sheet Totals</u>	—27432	—	—15281	—	—12151	—	—0	—
		<u>New Totals</u>	348260	—	236960	—	69300	—	42000	—
4	20	Add original indirects 4%	121761	—	15750	—	61711	—	44000	—
		<u>** New Sub Totals</u>	470021	—	252710	—	131011	—	86000	—
		<u>Fixed Indirects (Reductions)</u>								
4	29	Payroll Taxes & Inv 12.5% x 44	24695	22599	—	—	—	2096	—	—
4	33	Exec Bonus (10 M. In.) 4.2% x 44	3541	3013	—	—	—	529	—	—
4	39	Insulation (10 M. In.)	3541	3013	—	—	—	—	—	—
4	41	Minority Drive No. 44 4.2%	3665	3118	—	—	—	347	—	—
4	44	Non- & expendable Tools 4.2%	3258	2772	—	—	—	—	—	—
			38700	34515	—	—	—	3171	—	—
		<u>Sub total original Fixed Indirects</u>			0	—	12356	—	37797	—
		<u>Less Sub total of reductions (4.2%)</u>			0	—	—3171	—	—12151	—
		<u>** New F/I</u>					9185	—	36733	—
		<u>** New Sub total</u>	470021	252710	—	—	131011	—	86000	—
		<u>** Add New F.I.C.</u>	45968	0	—	—	9185	—	36733	—
			515989	252710	—	—	140196	—	122733	—
		<u>Eng Fee 6.5% x 515989</u>		33559	—	—	—	—	—	—
		<u>Eng Fee 10% x 515989</u>		51599	—	—	—	—	—	—
		<u>Total</u>		601147	—	—	—	—	—	—
TOTAL ADD & DEDUCT			CARRY FORWARD							
NET ADD OR DEDUCT										
SALES TAX AND OR PAYROLL TAX & INSURANCE										
SUB TOTALS										

## SUMMARY

MATERIAL  
LABOR

SUB CONTRACTS &amp; OTHER COSTS

TOTAL CORRECTION ☐ NET ADD ☐ NET DEDUCT



DANIEL CONSTRUCTION COMPANY, INC.

SHEET 1 of 5

 PROJECT NAME & NO. Digital Equip. Corp  
 LOCATION San Germán, P.R.  
 OWNER Digital Equip. Corp  
 ARCHITECT \_\_\_\_\_

 OFFICE  
 BID DATE 7/30/71  
 FLOOR AREA \_\_\_\_\_  
 UNIT COST \_\_\_\_\_  
 ESTIMATOR ZNC

 BRICK MASONS \_\_\_\_\_  
 CARPENTERS \_\_\_\_\_  
 CEMENT FIN. \_\_\_\_\_  
 ELECTRICIANS \_\_\_\_\_  
 INSULATORS \_\_\_\_\_  
 IRON WORKERS \_\_\_\_\_  
 LABORERS \_\_\_\_\_  
 MILLWRIGHTS \_\_\_\_\_  
 OPERATING ENG. \_\_\_\_\_  
 PAINTERS \_\_\_\_\_  
 PIPEFITTERS \_\_\_\_\_  
 PLUMBERS \_\_\_\_\_  
 SH. MTL. WORK \_\_\_\_\_  
 WELDERS \_\_\_\_\_

 EXTENDED BY \_\_\_\_\_  
 CHECKED BY ZNC

Code	ITEM	QUANTITY	UNIT	MAT'L UNIT	TOTAL MATERIAL	LABOR UNIT	TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
	BROUGHT FORWARD									
	<u>Fire Protection</u>									
	Inside Sprinklers	—			13533		4595	—		18481
	Outside Fire Lines	—			13563		7000	—		22363
	250,000 gal Suction Tank	—			—		—	42000		42000
	1500 GPM Fire Pump	—			19200		2000	—		20200
	Painting Inside Sprinkler	Allow			200		1700	—		1900
	Excavation (Wall)	92	CY		—		322	—		322
	ST FORM. EXPOS.	250	SF	32	80	150	375	—		455
	FOUNDATION REINSTEEL	4	TEN	112"	563	200"	800	—		1363
	Foundation Conc	92	CY	140"	1748	500"	460	—		2708
	Pump House (15X20 sq)	Allow			2500		1500	—		4000
	<u>Electrical</u>				127800		29220			157020
	<u>HVAC</u>									
	Roof Top Package AC Units	14	EA	223"	49502		2940			52442
	15 Ton Carrier condensing									
	with Duct Adaptor									
	Ductwork for units	14	EA		1000/EA		200			200
	4" x 4" x 10' sleepers	42	EA	2.00	126		840			966
	Galvanized Ductwork	2027	lbs		10063		845			1908
	Thru-Wall AB units	X			7	EA	450			450
	<u>Mechanical</u>									
	Cooling Water Supply	X			195		353			548
	Cooling Water Returns	X			195		353			548
	T" Supply Piping	X			346		714			262
	T" Return Piping	X			440		824			326
	Air Piping				1676		1330			3006
	Cooling Water Insulation	X			688		854			511
	Fuel Oil Piping - Fire Pump				143		276			419
	Sanitary Plumbing	X			7274		5029			12303
	Outside Sanitary Sewer	X			576		1253			2129
	Outside Domestic Water				2236		2470			4706
	Air drops at En. Columns	1/2			1424		4629			6053
	<u>Civil</u>									
	Misc. Repair, Brk Blk	Allow			3000		5000			8000
	Block Work, wall & foot									
	openings etc									
	CARRY FORWARD				252741		61451		42000	375692

ESTIMATE SUMMARY SHEET  
Form 46 (Rev. 4-70)

DANIEL CONSTRUCTION COMPANY, INC.

SHEET 2 of 5

PROJECT NAME & NO. Digital Equipment Corporation  
 LOCATION San German, Puerto Rico  
 OWNER Digital Equipment Corporation  
 ARCHITECT

OFFICE  
 BID DATE 7/30/71  
 FLOOR AREA  
 UNIT COST  
 ESTIMATOR TGC

BRICK MASONS  
 CARPENTERS  
 CEMENT FIN.  
 ELECTRICIANS  
 INSULATORS  
 IRON WORKERS  
 LABORERS  
 MILLWRIGHTS  
 OPERATING ENG.  
 PAINTERS  
 PIPEFITTERS  
 PLUMBERS  
 SH. MTL. WORK.  
 WELDERS

EXTENDED BY  
 CHECKED BY

NO.	CODE	ITEM	QUANTITY	UNIT	MAT'L UNIT	TOTAL MATERIAL	LABOR UNIT	TOTAL LABOR	UNIT	SUB-CONTRACTS AND OTHER COSTS	TOTAL COST
		BROUGHT FORWARD				252241		81451		42000	37569
1	90	INDIRECT COSTS									
2		Supervision									
3		Salaried Personnel									
4	92.50	Project Coordinator	(2.5 x 11.50 x 270) = 843.75	hrs			11.50	9200			1200
5	92.50	Project Manager									
6	92.20	Project Manager (Assistant)									
7	92.20	Personnel Manager	4 hrs x 20 hrs/100 = 80	hrs			21.50	1700			1700
8	92.20	Secretary & Receptionist Field	21	hrs			125	2625			2625
9											
10											
11		Engineering									
12	97.10	Office Engineer									
13	97.40	CPM	12	hrs			16.50	198			198
14	92.30	Field Engineer									
15	92.30	Instrument Man & Party	6	Wks			325	1950			1950
16	97.10	Mechanical Engineer	4 hrs x 35 hrs/100 = 140	hrs			28.50	3150			3150
17	97.10	Mechanical Engineer (Assistant)									
18	97.10	Electrical Engineer	4 hrs x 25 hrs/100 = 100	hrs			28.50	2250			2250
19	97.10	Electrical Engineer (Assistant)									
20	97.10	HVAC Engineer	10 hrs w/100 = 10								
21	92.30	Clerk-Typists	4 hrs x 20 hrs/100 = 80	hrs			7.50	600			600
22											
23		Cost Control									
24	92.30	Cost Engineer	21 hrs x 8 hrs/100 = 168	hrs			11.50	1920			1920
25	92.30	Cost Clerk									
26											
27											
28		Purchasing									
29	92.60	Purchasing Agent									
30	92.60	Buyer	21 Wks x 15 hrs/100 = 315	hrs			12.50	3937.5			3937.5
31	92.60	Expeditor									
32	92.60	Clerks									
33											
34											
35		Accounting									
36	92.60	Chief Accountant	21 Wks x 20 hrs/100 = 420	hrs			16.50	7085			7085
37	92.60	Accountant-Paymaster									
38	92.60	Timekeepers									
39	92.60	Clerks									
40											
41											
42		Field Supervision									
43	92.10	General Superintendent	21	Wks			425	8925			8925
44	92.10	Asst. Superintendent									
45	92.10	Mechanical Superintendent	15	Wks			375	5625			5625
46	92.10	Electrical Superintendent	10	Wks			375	3750			3750
47	92.10	HVAC Superintendent	10 hrs w/100 = 10								
48	92.10	Rigger Superintendent									
49	92.10	Millwright Superintendent									
50	92.10	Warehouse Superintendent									
51	92.10	Equipment Superintendent									
52	92.10	General Foreman									
53											
54											
55		CARRY FORWARD				252241		134337		42000	425725

ESTIMATE SUMMARY SHEET  
Form 46 (Rev. 4-79)



DANIEL CONSTRUCTION COMPANY, INC.

SHEET 3 OF 5

PROJECT NAME & NO. Digital Equipment Corporation  
LOCATION San German, Puerto Rico  
OWNER Digital Equipment Corporation  
ARCHITECT

BID DATE 7/30/71 OFFICE  
FLOOR AREA  
UNIT COST  
ESTIMATOR TCC

BRICK MASONS  
CARPENTERS  
CEMENT FIN.  
ELECTRICIANS  
INSULATORS  
IRON WORKERS  
LABORERS  
MILLWRIGHTS  
OPERATING ENG.  
PAINTERS  
PIPEFITTERS  
PLUMBERS  
SH. MTL. WORK.  
WELDERS

EXTENDED BY  
CHECKED BY TCC

LINE	CODE	ITEM	QUANTITY	UNIT	MAT'L UNIT	TOTAL MATERIAL	LABOR UNIT	TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
		BROUGHT FORWARD				252241		134337		12000	420575
1											
2	92.10	Warehousemen	-	-							
3	92.10	Asst. Warehouseman	15	wks	-	150	2250	-			2250
4	92.10	Safety Engineer	15	wks	-	150	2250	-			2250
5	92.80	Janitor & Water Boy	-	-							
6	92.80	Guards (3)	ALLOW	-						5500	5500
7	92.10	Operating Engineers (1)	3	wks	-	175	525	-			525
8	92.60	Greenville Reimbursables	ALLOW	-						3500	3500
9	92.60	San Juan Reimbursables	ALLOW	-						4500	4500
10	92.10	Mechanic ALLOW 10 hrs	10	hrs	-	30	300	-			300
11											
12											
13		CONSTRUCTION PLANT & EQUIPMENT									
14		Major Equipment									
15	95.10	Daniel Equipment Rental 3754924.05									
16	95.10	Third Party Rental									
17	95.10	Transportation Tools & Equipment ALLOW								20000	20000
18	95.30	Fuel, Oil & Maintenance									
19											
20											
21		Temporary Services									
22	92.40	Office Supplies	ALLOW	-		600	-	-			600
23	92.40	Postage & Miscellaneous	ALLOW	-		150	-	-			150
24	92.80	Photos	-	-							
25	92.90	Projects Clean Up	ALLOW	-				500	-		500
26	93.10	Field Offices	-	-							
27	93.10	a. Prefab Building Temp Facilities	-	-							
28	93.70	b. Air Conditioning	ALLOW	-		4500	-	-			4500
29	93.50	c. Office Furniture & Equipment	-	-							
30	93.00	Sanitary Facilities 5 Mo	ALLOW	2	CA	-	-	-		500	500
31	93.00	Food Service Facilities	-	-							
32	93.20	Temporary Warehouse	ALLOW	-		700	-	-			700
33	93.20	Barricades	-	-							
34	93.20	Temporary Roads & Maintenance	-	-							
35	93.90	Project Signs	ALLOW	-		100	-	-			100
36	93.00	Temporary Phone & Telex	5 Mo	-		3000	-	-		1000	4000
37	93.00	Temporary Water & Fire Protection	USE existing	-			-	-			
38	93.00	Temporary Power ALLOW	5 Mo	-		3000	2000	-			5000
39	96.00	First Aid & Safety Supplies	ALLOW	-		200	-	-			200
40	96.00	Water, Ice, Cups	ALLOW	-		300	-	-			300
41	96.00	Consumable Supplies	ALLOW	-		3000	-	-			3000
42											
43											
44		Personnel Relocations	-	-							
45	92.80	Relocate Continentals	-	-							
46	92.80	Relocate Locals 3 CA	ALLOW	-		-	-	-		3000	3000
47	92.80	Furniture Allowance	-	-							
48	92.80	Temporary Relocation	-	-							
49											
50											
51											
52											
53											
54											
		CARRY FORWARD				267791		142162		83000	492953

## ESTIMATE SUMMARY SHEET

Form 46 (Rev. 4-75)



DANIEL CONSTRUCTION COMPANY, INC.

SHEET 4 OF 5

PROJECT NAME & NO. Digital Equipment Corporation  
 LOCATION San German, Puerto Rico  
 OWNER Digital Equipment Corporation  
 ARCHITECT

OFFICE  
 BID DATE 7/27/71  
 FLOOR AREA  
 UNIT COST  
 ESTIMATOR TSC

BRICK MASONS  
 CARPENTERS  
 CEMENT FIN.  
 ELECTRICIANS  
 INSULATORS  
 IRON WORKERS  
 LABORERS  
 MILLWRIGHTS  
 OPERATING ENG.  
 PAINTERS  
 PIPEFITTERS  
 PLUMBERS  
 SH. MTL. WORK  
 WELDERS

EXTENDED BY  
 CHECKED BY TSC

CODE	ITEM	QUANTITY	UNIT	MAT'L UNIT	TOTAL MATERIAL	LABOR UNIT	TOTAL LABOR	UNIT	SUB-CONTRACTS AND OTHER COSTS	TOTAL COST
	BROUGHT FORWARD				26779.1		14216.2		8300.0	49595.3
	Travel Expense									
92.00	a. Home Office Travel	3	Trips		-		-	500	1500	1500
	b. Coordinator Travel									
	San Juan Travel									
92.00	Auditor									
92.00	Project Manager 2/mo	30	Trips		-		-	60	1800	1800
92.00	Personnel Manager 2/mo									
92.00	Safety Engineer 1/mo									
	Miscellaneous Services									
92.80	Training Program									
92.60	Estimates				200		1000			1200
97.20	Job Print Blueprint									
98.10	Factory Inspection - Equipment									
	Subtotal - Indirects				15750		6171.1		41300	12176.1
	Directs				25224.1		8145.1		42000	37569.2
	Total				26799.1		14316.2		84300	49745.3
	FIXED INDIRECTS									
	PAYROLL TAX INSURANCE & FRINGES									
94.00	Workman's Compensation 6.35%									
94.00	Liability 2.0%									
94.00	Disability 0.5%									
94.00	FOAB 5.2%								2469.5	2469.5
94.00	Unemployment 3.2%									
94.00	Payroll Preparation .20/m wk.	815 m/wk						.20	163	163
94.00	Pay Envelopes .15/m wk.	815 m/wk						.15	122	122
94.00	Chauffer Tax .30/m wk.	60 m/wk							18	18
94.00	Opr. Engineers Vacation 1-7-8/days/mo.	200 x 3 mo x 25%						150		150
92.43	Computer & Bank Charges									
94.00	Paid Holidays 18 yr/man	4 x 50 x 25%						5000		5000
94.00	Christmas Bonus (vacation .10 m-hr.) 230/mo = 35413 m/h x .10							3541		3541
96.70	Hospitalization .10/m hr.	230/mo = 35412 x .10							3541	3541
96.20	Excise Tax (13% on Foreign)									
94.10	Mandatory Decree No. 44	4.5% x 81451						3665		3665
95.50	Non & Expendable Tools	1% x 81451							3250	3250
94.50	Official Fees & Permits	ALLOW							1000	1000
97.70	Labor Escalation									
92.80	Overtime (doubletime)									
96.11	Owners Protective Insurance									
	Rigging Insurance	ALLOW							500	500
	CARRY FORWARD				26799.1		14316.2		111597	56320





DANIEL CONSTRUCTION COMPANY, INC.

1ST Bid. P.R.

 No. 13/71  
 8/3/71

SHEET 1 of 5

PROJECT NAME &amp; NO.

 Digital Equip. Corp  
 San Geronimo, P.R.  
 Digital Equip. Corp

 OFFICE  
 BID DATE 7/30/71  
 FLOOR AREA  
 UNIT COST  
 ESTIMATOR TCC

 BRICK MASON  
 CARPENTERS  
 CEMENT FIN.  
 ELECTRICIANS  
 INSULATORS  
 IRON WORKERS  
 LABORERS  
 MILLWRIGHTS  
 OPERATING ENG.  
 PAINTERS  
 PLUMBERS  
 SH. MTL. WORK  
 WELDERS

 EXTENDED BY  
 CHECKED BY TCC

LINE	CODE	ITEM	QUANTITY	UNIT	MAT'L UNIT	TOTAL MATERIAL	LABOR UNIT	TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
		BROUGHT FORWARD									
1		Fire Protection									
2		Inside Sprinklers	—			135.3	457.5				18431
3		Outside Fire Lines	—			125.3	200.0				2350
4		250 GPM Fire Pump	—			—	—	422.00			42200
5		Flowing Inside Sprinkler	—			192.0	200.0				23200
6		Flowing Inside Sprinkler	Allow			222	170.0				1900
7		Inside Fire Extinguishers (Unit)	92	CT	—	—	322				322
8		Fire Extinguishers	250	SF	32	8.0	155	37.0			250
9		Extinguisher Refill	4	TL	142	56.8	200	80.0			1568
10		Extinguisher Refill	92	CT	142	174.8	522	460			2200
11		Pump House (15x20 sq.)	Allow			2500	1500				4000
12											
13		Electrical				1278.00	2920.0				157000
14											
15		HVAC									
16		Boat Top Package AC Units	14	EA	223	4950.2	2940				5244
17		15 Ton Carrier condensing									
18		with Dual Adapter (1000 BTU/HR)									
19		Ductwork for units	14	EA		1000/HR	200				200
20		4" x 4" x 10' Sleepers	42	EA	3.00	126	840				768
21		Galvanized Ductwork	3,027	lb		1023	645				1908
22		Turn-wall of units	X	7	EA	450	450	420			4770
23											
24		Mechanical									
25		Cooling Water Supply	X			195	353				548
26		Cooling Water Return	X			195	353				548
27		1" Supply Piping	X			240	714				1320
28		1" Return Piping	X			440	324				1564
29		Air Piping				1676	1350				2226
30		Cooling Water Insulation	X			638	956				1594
31		Fuel Oil Piping - Fire Pump				143	276				419
32		Sanitary Plumbing	X			782.4	523				1233
33		Outside Sanitary Sewer	X			276	1253				2159
34		Outside Domestic Water				2526	2720				5246
35		Air drops at fireman's	8090			1424	4429				5853
36						717	2719				3436
37		Civil									
38		Misc. Paving, Joint Blk	Allow			3000	5000				8000
39		block work, wall & foot									
40		openings etc									
41											
42		CARRY FORWARD				25274.1	31451	42000			375693

## ESTIMATE SUMMARY SHEET

Form 44 (Rev. 4-22)



DANIEL CONSTRUCTION COMPANY, INC.

SHEET 2 of 5

PROJECT NAME & NO. Digital Equipment Corporation  
 LOCATION San German, Puerto Rico  
 OWNER Digital Equipment Corporation  
 ARCHITECT

BID DATE 7/30/71 OFFICE  
 FLOOR AREA  
 UNIT COST  
 ESTIMATOR TSC

BRICK MASONS  
 CARPENTERS  
 CEMENT FIN.  
 ELECTRICIANS  
 INSULATORS  
 IRON WORKERS  
 LABORERS  
 MILLWRIGHTS  
 OPERATING ENG.  
 PAINTERS  
 PIPEFITTERS  
 PLUMBERS  
 SH. MTL. WORK  
 WELDERS

EXTENDED BY  
 CHECKED BY TSC

Code	ITEM	QUANTITY	UNIT	MAT'L UNIT	TOTAL MATERIAL	LABOR UNIT	TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
	Use 21 wks - 11/1/71 thru 3/20/72									
	BROUGHT FORWARD				252241		81451		42000	37569
90	INDIRECT COSTS									
	Supervision									
	Salaried Personnel									
92.50	Project Coordinator 8 hrs x 40 hrs/wk	320	hrs		-	1150	9200			9200
92.50	Project Manager									
92.20	Project Manager (Assistant)									
92.20	Personnel Manager 4 hrs x 20 hrs/wk	80	hrs		-	2150	17200			17200
92.20	Secretary & Receptionist 21 wks	21	wks			125	2625			2625
	Engineering									
97.10	Office Engineer									
97.40	CPM	12	hrs			1650	1980			1980
92.30	Field Engineer									
92.30	Instrument Man & Party 16 wks	6	wks			2250	19500			19500
97.10	Mechanical Engineer 4 hrs x 35 hrs/wk	140	hrs			2250	31500			31500
97.10	Mechanical Engineer (Assistant)									
97.10	Electrical Engineer 4 hrs x 25 hrs/wk	100	hrs			2250	22500			22500
97.10	Electrical Engineer (Assistant)									
97.10	HVAC Engineer 1 wks w/110-h	-	-							
92.30	Clerk-Typists 4 hrs x 30 hrs/wk	80	hrs			750	6000			6000
	Cost Control									
92.30	Cost Engineer 21 wks x 8 hrs/wk	168	hrs			1150	19980			19980
92.30	Cost Clerk									
	Purchasing									
92.60	Purchasing Agent									
92.60	Buyer 21 wks x 15 hrs/wk	315	hrs			1250	39375			39375
92.60	Expeditor									
92.60	Clerks									
	Accounting									
92.60	Chief Accountant 21 wks x 20 hrs/wk	420	hrs			1650	70950			70950
92.60	Accountant-Paymaster									
92.60	Timekeepers									
92.60	Clerks									
	Field Supervision									
92.10	General Superintendent	21	wks			425	8925			8925
92.10	Asst. Superintendent									
92.10	Mechanical Superintendent	15	wks			375	5625			5625
92.10	Electrical Superintendent	10	wks			375	3750			3750
92.10	HVAC Superintendent incl w/110-h									
92.10	Rigger Superintendent									
	Millwright Superintendent									
92.10	Warehouse Superintendent									
92.10	Equipment Superintendent									
92.10	General Foreman									
	CARRY FORWARD				252241		134327		42000	420575

## ESTIMATE SUMMARY SHEET

Form 46 (Rev. 4-79)



DANIEL CONSTRUCTION COMPANY, INC.

SHEET 3 OF 5

PROJECT NAME & NO. Digital Equipment Corporation  
 LOCATION San German, Puerto Rico  
 OWNER Digital Equipment Corporation  
 ARCHITECT

BID DATE 7/30/71 OFFICE  
 FLOOR AREA  
 UNIT COST  
 ESTIMATOR TGC

BRICK MASONS  
 CARPENTERS  
 CEMENT FIN.  
 ELECTRICIANS  
 INSULATORS  
 IRON WORKERS  
 LABORERS  
 MILLWRIGHTS  
 OPERATING ENG.  
 PAINTERS  
 PIPEFITTERS  
 PLUMBERS  
 SH. MTL. WORK  
 WELDERS

EXTENDED BY  
 CHECKED BY TGC

NO.	CODE	ITEM	QUANTITY	UNIT	MAT'L UNIT	TOTAL MATERIAL	LABOR UNIT	TOTAL LABOR	UNIT	SUB-CONTRACTS AND OTHER COSTS	TOTAL COST
		BROUGHT FORWARD				252241	134337			42000	423576
2	92.10	Warehousemen	—	—	—	—	—	—	—	—	—
3	92.10	Asst. Warehouseman	15	wks	—	—	150	2250	—	—	2250
4	92.10	Safety Engineer	15	wks	—	—	150	2250	—	—	2250
5	92.80	Janitor & Water Boy	—	—	—	—	—	—	—	—	—
6	92.80	Guards (3)	Allow	—	—	—	—	—	—	—	—
7	92.10	Operating Engineers (1)	3	wks	—	—	175	525	—	—	525
8	92.60	Greenville Reimbursables	Allow	—	—	—	—	—	—	3500	3500
9	92.60	San Juan Reimbursables	Allow	—	—	—	—	—	—	4500	4500
10	92.10	Mechanic Allow 10 Taps	10	Taps	—	—	30	300	—	—	300
12		CONSTRUCTION PLANT & EQUIPMENT									
14		Major Equipment									
15	95.10	Daniel Equipment Rental 375422.05	—	—	—	—	—	—	—	—	—
16	95.10	Third Party Rental	—	—	—	—	—	—	—	—	—
17	95.10	Transportation Tools & Equipment Allow	—	—	—	—	—	—	—	20000	20000
18	95.30	Fuel, Oil & Maintenance	—	—	—	—	—	—	—	—	—
21		Temporary Services									
22	92.40	Office Supplies	Allow	—	—	600	—	—	—	—	600
23	92.40	Postage & Miscellaneous	Allow	—	—	150	—	—	—	—	150
24	92.80	Photos	—	—	—	—	—	—	—	—	—
25	92.90	Projects Clean Up	Allow	—	—	—	—	500	—	—	500
26	93.10	Field Offices	—	—	—	—	—	—	—	—	—
27	93.10	a. Prefab Building Temp Facilities	—	—	—	—	—	—	—	—	—
28	93.70	b. Air Conditioning	Allow	—	—	4500	—	—	—	—	4500
29	93.50	c. Office Furniture & Equipment	—	—	—	—	—	—	—	—	—
30	93.00	Sanitary Facilities SMO	Allow 2	SMO	—	—	—	—	—	500	500
31	93.00	Food Service Facilities	—	—	—	—	—	—	—	—	—
32	93.20	Temporary Warehouse	Allow	—	—	700	—	—	—	—	700
33	93.20	Barricades	—	—	—	—	—	—	—	—	—
34	93.20	Temporary Roads & Maintenance	—	—	—	—	—	—	—	—	—
35	93.90	Project Signs	Allow	—	—	100	—	—	—	—	100
36	93.00	Temporary Phone & Telex	SMO	—	—	3000	—	—	—	1000	4000
37	93.00	Temporary Water & Fire Protection	Use existing	—	—	—	—	—	—	—	—
38	93.00	Temporary Power	Allow SMO	—	—	3000	—	2000	—	—	5000
39	96.00	First Aid & Safety Supplies	Allow	—	—	200	—	—	—	—	200
40	96.00	Water, Ice, Cups	Allow	—	—	300	—	—	—	—	300
41	96.00	Consumable Supplies	Allow	—	—	3000	—	—	—	—	3000
44		Personnel Relocations	—	—	—	—	—	—	—	—	—
45	92.80	Relocate Continentals	—	—	—	—	—	—	—	—	—
46	92.80	Relocate Locals	3 SMO	SMO	—	—	—	—	—	3000	3000
47	92.80	Furniture Allowance	—	—	—	—	—	—	—	—	—
48	92.80	Temporary Relocation	—	—	—	—	—	—	—	—	—
		CARRY FORWARD				267791	142162			83000	492753

ESTIMATE SUMMARY SHEET  
Form 45 (Rev. 4-78)

DANIEL CONSTRUCTION COMPANY, INC.

SHEET 4 of 5

PROJECT NAME & NO. Digital Equipment Corporation  
 LOCATION San German, Puerto Rico  
 OWNER Digital Equipment Corporation  
 ARCHITECT

BID DATE 7/30/71 OFFICE  
 FLOOR AREA  
 UNIT COST  
 ESTIMATOR TGC

BRICK MASONS  
 CARPENTERS  
 CEMENT FIN.  
 ELECTRICIANS  
 INSULATORS  
 IRON WORKERS  
 LABORERS  
 MILLWRIGHTS  
 OPERATING ENG.  
 PAINTERS  
 PIPEFITTERS  
 PLUMBERS  
 SH. MTL. WORK  
 WELDERS

EXTENDED BY  
 CHECKED BY TGC

LINE	CODE	ITEM	QUANTITY	UNIT	MAT'L UNIT	TOTAL MATERIAL	LABOR UNIT	TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
		BROUGHT FORWARD				267791		142162		83000	49595
1		Travel Expense									
2		a. Home Office Travel									
3	92.00	b. Coordinator Travel	3	Trips					500	1500	1500
4		San Juan Travel									
5		Auditor									
6	92.00	Project Manager									
7	92.00	Personnel Manager	30	Trips					60	1800	1800
8	92.00	Safety Engineer									
9		Miscellaneous Services									
10		Training Program									
11	92.80	Estimates									
12	92.60	Job Print Blueprint									
13	97.20	Factory Inspection - Equipment									
14	98.10										
15		Subtotal - Indirects				15750		61711		41300	121761
16		Directs				252241		81451		42000	375692
17		Total				267791		142162		84300	49745
18		FIXED INDIRECTS									
19		PAYROLL TAX INSURANCE & FRINGES									
20	94.00	Workman's Compensation 6.35%									
21	94.00	Liability 2.0%									
22	94.00	Disability 0.5%									
23	94.00	FOAB 5.2%									
24	94.00	Unemployment 3.2%									
25	94.00	Payroll Preparation .20/m wk.	815 m/wk						163	163	163
26	94.00	Pay Envelopes .15/m wk.	815 m/wk						15	122	122
27	94.00	Chauffer Tax .30/m wk.	40 m/wk						18	18	18
28	94.00	Opr. Engineers Vacation 1-7-8/days/mo.	201 x 3140 x 25 =						150		150
29	92.43	Computer & Bank Charges									
30	94.00	Paid Holidays 18 yr/man	4 x 50 x 25						5000		5000
31	94.00	Christmas Bonus (vacation .10 m-hr.) 230/4 = 35413 m/h x 10							3541		3541
32	96.70	Hospitalization .10/m hr.	230/4 = 35412 x 10						3541		3541
33	96.20	Excise Tax (13% on Foreign)									
34	94.10	Mandatory Decree No. 44	4.5% x 81451						3665		3665
35		Non & Expendable Tools	7% x 81451							3258	3258
36	94.50	Official Fees & Permits	ALLOW							1000	1000
37		Labor Escalation									
38	92.80	Overtime (doubletime)									
39	96.11	Owners Protective Insurance									
40		Rigging Insurance	ALLOW							500	500
41		CARRY FORWARD				267791		142162		119597	543100

PROJECT NAME & NO. \_\_\_\_\_  
LOCATION San German, Puerto Rico  
OWN Digital Equipment Corporation  
ARCH Digital Equipment CorporationOFFICE  
BID DATE 7/30/71  
FLOOD AREA \_\_\_\_\_  
UNIT COST \_\_\_\_\_  
ESTIMATOR TGCBRICK MASONS \_\_\_\_\_  
CARPENTERS \_\_\_\_\_  
CEMENT FIN \_\_\_\_\_  
ELECTRICIANS \_\_\_\_\_  
INSULATORS \_\_\_\_\_  
IRON WORKERS \_\_\_\_\_  
LABORERS \_\_\_\_\_  
MILLWRIGHTS \_\_\_\_\_  
OPERATING ENG. \_\_\_\_\_  
PAINTERS \_\_\_\_\_  
PIPEFITTERS \_\_\_\_\_  
PLUMBERS \_\_\_\_\_  
SH. MTL. WORK \_\_\_\_\_  
WELDERS \_\_\_\_\_EXTENDED BY \_\_\_\_\_  
CHECKED BY TGC

CODE	ITEM	QUANTITY	UNIT	MAT'L UNIT	TOTAL MATERIAL	LABOR UNIT	TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
	BROUGHT FORWARD				267991		155518		119597	548106
92.80	Overseas Freight									
92.80	a. Structural									
92.80	b. Mechanical									
92.80	c. Electrical								4500	4500
92.80	d. Millwright									
92.80	e. Sprinkler									
92.80	Freight Consolidation									
	SUBTOTAL				267991		155518		124097	547606
97.90	Engineering Fee 6.5% x 547606 =									35594
92.00	Engineering Expense									
97.90	Construction Fee 10% x 547606 =									34761
96.51	Performance Bond									
98.80	Liquidated Damages									
	SUBTOTAL									637961
	CONTINGENCY									
	TOTAL									637961
	Man-hours Total									
	Structural man/hours									
	Mechanical									
	Electrical									
	HVAC									
	O/H									
	Man/hours									
	Wks.									
	for weeks									
	*Disposition of Process Equipment									
	CARRY FORWARD									

\$637,961  
7/30/71



## DANIEL CONSTRUCTION COMPANY

SHEET 1 OF 1

ESTIMATE SUMMARY SHEET  
- 46-9 (Rev. 8-72)

CREWELL SC OFFICE

BID DATE: MAY 28, 71

FLOOR AREA: --

UNIT COST: --

ESTIMATOR: SMC

 BRICK MASONS \_\_\_\_\_  
 CARPENTERS \_\_\_\_\_  
 CEMENT FIN \_\_\_\_\_  
 ELECTRICIANS \_\_\_\_\_  
 INSULATORS \_\_\_\_\_  
 IRON WORKERS \_\_\_\_\_  
 LABORERS \_\_\_\_\_  
 MILLWRIGHTS \_\_\_\_\_  
 OPERATING ENG. \_\_\_\_\_  
 PAINTERS \_\_\_\_\_  
 PIPEFITTERS \_\_\_\_\_  
 PLUMBERS \_\_\_\_\_  
 PCL. UTIL. WORK 5.10 \_\_\_\_\_  
 WELDERS \_\_\_\_\_

EXTENDED BY: SMC

CHECKED BY: --

 PROJECT NAME & NO. DIGITAL COMMUNIT CREATION  
 LOCATION UNION HIGH (SAND CREEK)  
 ARCHITECT ---

CODE	ITEM	QUANTITY	UNIT	MATERIAL UNIT	TOTAL MATERIAL	MAN. HOURS		TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
						UNIT	TOTAL				
	BROUGHT FORWARD										
	ESLIPPER=1-T										
	RESETTER DANCE AC UNIT 15 TMS CARGO. SIDA/CB WITH PORT ADJUSTOR	14	EA	3.36	47.04		5.64	2940			60441
	DIFFUSER'S IN UNITS	14	EA	16.18	226.52	4	56	2800			1760
	4'X8'X10" SLEEPERS	42	EA	3.20	134.4		16.80	840			1680
	GRANITEWORK	3027	LES	.35	1023.45		16.80	840			1680
	THRU-WALL A/C UNITS	7	EA	6.50	45.50	12	84	4200			4200
	SUB-TOTAL				2574.3		112.04	5320			66541

BRICK MASONS _____	MILLWRIGHTS _____
CARPENTERS _____	OPERATING ENG. _____
CEMENT FIN. _____	PAINTERS _____
ELECTRICIANS _____	PIPEFITTERS _____
INSULATORS _____	PLUMBERS _____
IRON WORKERS _____	SH. MTL. WORK _____
LABORERS _____	WELDERS _____

## CARRY FORWARD

2nd.

Correspondence  
XR

ESTIMATE CORRECTION SHEET

Form 40-2 (Rev. 4-70)



DANIEL CONSTRUCTION COMPANY, INC.

OFFICE

PROJECT NAME & NO.

Digital Equip. Corp.  
San German, P.R.  
Digital Equip. Corp.

BID DATE

5/3/71

FLOOR AREA

UNIT COST

ESTIMATOR

JSC

BRICK MASONRY

CARPENTERS

CEMENT FIN.

ELECTRICIANS

INSULATORS

IRON WORKERS

LABORERS

MILLWRIGHTS

OPERATING ENG.

PAINTERS

PIPEFITTERS

PLUMBERS

SH. BTL. WORK

WELDERS

SHEET 1 OF 1

EXTENDED BY

CHECKED BY

LINE NO.	ITEM OR DESCRIPTION	IN ESTIMATE	NEW PRICE	MATERIAL		LABOR		SUB CONTRACTS & OTHER	
				ADD	DEDUCT	ADD	DEDUCT	ADD	DEDUCT
		BROUGHT FORWARD							
32	HVAC Thru-Wall w/c units	4970	—	—	4350	—	820	—	—
	Mechanical								
37	Cooking Water Supply	543	4	—	195	—	353	—	—
38	Cooking Water Return	543	4	—	195	—	353	—	—
39	"T" Supply Piping	1060	5	—	346	—	714	—	—
40	"T" Return Piping	1324	5	—	440	—	884	—	—
42	Cooking Water Insulation	1514	5	—	488	—	926	—	—
44	Sanitary Plumbing	12308	5	—	7274	—	5034	—	—
45	C.S. Sanitary Sewer	2129	5	—	876	—	1253	—	—
47	Air drops @ 1/2 Columns	6072	3036	—	717	—	2319	—	—
	Cd sheet Totals	30463	3036	—	15281	—	12151	—	—
			27132	—	15281	—	12151	—	—
	Drals Totals Est. 7/3/71	375692	—	252241	—	91451	—	42000	—
	— Cd sheet Totals	-27132	—	-15281	—	-12151	—	-0	—
	New Totals	348260	—	236960	—	49300	—	42000	—
	Add original Indirects No.	121761	—	15750	—	61711	—	44000	—
	* New Sub Totals	470021	—	252710	—	131011	—	86000	—
	Fixed Indirects (Production)								
29	Payroll Taxes & Inc 12.25% x 16	24675	22599	—	—	—	2096	—	—
33	Inc. Bonus (10 M.H.) @ 1/2 x 12	3541	3013	—	—	—	529	—	—
37	Hospitalization (10 M.H.)	3541	3013	—	—	—	—	—	—
41	Monetary Drive No. 44 4.5%	3665	3118	—	—	—	547	—	—
44	Non & expendable Tools fixed	3258	2772	—	—	—	—	—	—
		38700	34515	—	—	—	3171	—	—
	Sub total original Fixed Indirects			0	—	12356	—	37727	—
	Less Sub Total of Reductions (5%)			0	—	-3171	—	-1775	—
	** New F.I.					9185	—	36733	—
	* New Sub Total		470021	252710	—	131011	—	86000	—
	** Add New Fixed I.D.		45265	0	—	3155	—	32785	—
			515285	252710	—	142166	—	123233	—
	Eng Fee 6.5% x 515989		32559	—	—	—	—	—	—
	Eng Fee 10% x 515989		51599	—	—	—	—	—	—
	Total		601147						

TOTAL ADD & DEDUCT CARRY FORWARD

ADD OR DEDUCT

ES TAX AND OR PAYROLL TAX & INSURANCE

NO. 100% GROSS EARNINGS

NO. 100% GROSS EARNINGS

8/6/71

Reduced eng,

SUMMARY

MATERIAL	
LABOR	
SUB CONTRACTS & OTHER COSTS	
TOTAL CORRECTION	
NET ADD	
NET DEDUCT	



DANIEL CONSTRUCTION CO. ANY

PR

Correspondence

SHEET 1 OF 1

EXTENDED BY: J.H.

CHECKED BY:

CT NAME & NO. Digital Equip. Corp.  
 FROM Pharto Rice  
 TO Same  
 STREET

Greenville OFFICE  
 BID DATE 7-23-71  
 FLOOR AREA  
 UNIT COST  
 ESTIMATOR J.W.

BRICK MASONS  
 CARPENTERS  
 CEMENT FIN.  
 ELECTRICIANS  
 INSULATORS  
 IRON WORKERS  
 LABORERS  
 MILLWRIGHTS  
 OPERATING ENG.  
 PAINTERS  
 PIPEFITTERS  
 PLUMBERS  
 SH. ATE. WORK  
 WELDERS

DOE	ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL MATERIAL	UNIT	MAN - HOURS	TOTAL	UNIT	TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
	BROUGHT FORWARD												
	<u>Greenville Street</u>												
	<u>Phase II</u>												
	<u>Cooking Water Supply</u>				1.45			1.45		5.52			5.52
	<u>Cooking Water Return</u>				1.95			1.95		5.52			5.52
	<u>"T" Supply Piping</u>				2.45			1.37		7.16			10.11
	<u>"T" Return Piping</u>				4.45			1.70		6.87			13.24
	<u>HR Piping</u>				1.67			5.92		4.88			10.80
	<u>Cooking Water Insulation</u>				6.88			1.57		5.36			15.14
	<u>Fuel oil Piping - Fire Pump</u>				1.45			.52		2.75			4.15
	<u>Sanitary Plumbing</u>				7.27			2.67		5.62			12.89
	<u>Outside Sanitary Sewer</u>				2.96			2.91		17.53			20.49
	<u>Outside domestic water</u>				2.23			1.75		24.78			26.71
	<u>ink drops at each column</u>				2.45			5.72		17.32			19.77
	<u>Sub Total Phase II</u>				15.63			40.72		21.75			22.27
	<u>USE 2500 LL</u>												



BRICK MAZONS \_\_\_\_\_  
CARPENTERS \_\_\_\_\_  
CEMENT FIN \_\_\_\_\_  
ELECTRICIANS \_\_\_\_\_  
INSULATORS \_\_\_\_\_  
IRON WORKERS \_\_\_\_\_  
LABORERS \_\_\_\_\_  
SILLWRIGHTS \_\_\_\_\_  
OVERHAUL ENG \_\_\_\_\_  
PAINTERS \_\_\_\_\_  
PIPEFITTERS \_\_\_\_\_  
PLUMBERS \_\_\_\_\_  
SH. ETL. WORK 5.00  
WELDERS \_\_\_\_\_

SHEET 1 OF 1  
EXTENDED BY AMS  
CHECKED BY \_\_\_\_\_

PROJECT NO. DIGITAL EQUIPMENT CORPORATION  
WATER PICO (SANDERMAN)  
BY \_\_\_\_\_  
DATE \_\_\_\_\_

OFFICE CONSTRUCTION  
BID DATE APR 28, 71  
FLOOR AREA \_\_\_\_\_  
UNIT COST \_\_\_\_\_  
ESTIMATOR AMS

ITEM	QUANTITY	UNIT	RATE UNIT	TOTAL MATERIAL	MAN - HOURS		TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
					UNIT	TOTAL				
H.V.A.C.										
BROUGHT FORWARD										
EQUIPMENT										
ROTOR DRIVE AC UNIT, 15 TON CAPACITY, SODAK WITH POST MOUNTING	14	HR	3.46	48.44		52.4	244.0			52.44
DIFFUSERS FOR UNITS	14	HR		10.25	9	56	27.0			62.69
4" X 10" SLEEPERS	42	HR	3.00	126.0		16.0	48.0			174.00
COLUMBUS BLOWER	300	LB	.35	105.00		16.0	84.0			189.00
FRO-WALL A/C UNITS	7	LB	6.00	42.00		8.0	48.0			90.00
Sub-Total				281.44		12.4	324.0			605.44



PROJECT NAME & NO. DISTRICT EQUIPMENT CORPORATION  
ON Radio Rec  
ESTIMATE

GREENWICH SC OFFICE  
BID DATE \_\_\_\_\_  
FLOOR AREA \_\_\_\_\_  
UNIT COST \_\_\_\_\_  
ESTIMATOR J.A.

BRICK MASONS \_\_\_\_\_  
CARPENTERS \_\_\_\_\_  
CEMENT FIN \_\_\_\_\_  
ELECTRICIANS \_\_\_\_\_  
INSULATORS \_\_\_\_\_  
IRON WORKERS \_\_\_\_\_  
LABORERS \_\_\_\_\_  
MILLWRIGHTS \_\_\_\_\_  
OPERATING ENG \_\_\_\_\_  
PAINTERS \_\_\_\_\_  
PIPEFITTERS SSO  
PLUMBERS \_\_\_\_\_  
SH. MTL. WORK \_\_\_\_\_  
WELDERS \_\_\_\_\_

EXTENDED BY SMC  
CHECKED BY \_\_\_\_\_

ITEM	QUANTITY	UNIT	MATERIAL UNIT	TOTAL MATERIAL	MAN - HOURS		TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
					UNIT	TOTAL				
Cooling Water Supply Piping										
BROUGHT FORWARD										
PIPE, SCH 40 BK TSC 1 1/2"	231	FT.	327	85.19		17	229			30.1
Less 15%				13						
HANGERS 1 1/2"	23	HR	915	95.70		16	83			163
Less 15%				14						
90° ELB 125# C.I. SCHEDULED 1 1/2"	3	EA	66	20.9		2	16			28
Less 40%				12						
TEES, 125# C.I. SCHEDULED 1 1/2"	1	EA	100	11.2		1	5			1
Less 40%										
PLUGS 125# SCHEDULED 1 1/2"	1	EA	21	1.9		1	15			
Less 40%										
FLANGES, 250# W.I. 1 1/2"	2	EA	503	5.7		2	10			15
Less 40%				3						
GATE VALVES, 125# SCHEDULED 1 1/2"	1	EA	161	17.9		1	5			15
Less 40%				7						
PIPE FIT & MISC	-	-	-	1.5		-	-			15
TOTAL				229						
Less DISCOUNTS				45						
SUB TOTAL				184		611	305			545

CT NAME & NO. DIVISION EQUIPMENT CORPORATION  
TION Puerto Rico  
R. 1  
ITECT

GROUNDS OFFICE  
BID DATE  
FLOOR AREA  
UNIT COST  
ESTIMATOR J.H.

BRICK MASONS  
CARPENTERS  
CEMENT FIN  
ELECTRICIANS  
INSULATORS  
IRON WORKERS  
LABORERS  
MILLWRIGHTS  
OPERATING ENG  
PAINTERS  
PIPEFITTERS  
PLUMBERS  
SH. MTL. WORK  
WELDERS

EXTENDED BY J.H.  
CHECKED BY

QTY	ITEM	QUANTITY	UNIT	MATERIAL UNIT	TOTAL MATERIAL	MAN - HOURS		TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
						UNIT	TOTAL				
	Cooling Water Return Piping										
	BROUGHT FORWARD										
	Pipe, SCH 40 R/W T&C	23	FT	1.37	31.51		94	22.1			201
	1/2"				13						
	Less 15%				11.2						
	Hangers	23	WT	9.15	211.05		16	8.3			124
	1/2"				14						
	Less 15%				181						
	90° Elbs, 125# C.I. SCHEDULED	3	DT	4.0	12.0		3	1.4			22
	1/2"				2						
	Less 40%				7.2						
	Tees, 125# C.I. SCHEDULED	1	DT	1.0	1.0		1	.5			5
	1/2"				1.2						
	Less 40%				0.6						
	Flues, 125# SCHEDULED	1	DT	1.0	1.0		1	.5			5
	1/4"				1.3						
	Less 40%				0.8						
	Flanges, 150# M.F.	2	DT	2.0	2.0		2	1.0			10
	1/2"				2						
	Less 40%				1.2						
	GATE VALVES, 125# SCHEDULED	1	DT	1.0	1.0		1	.5			5
	1/2"				1.9						
	Less 40%				0.6						
	PIPE DYE CAMER	-	-	-	1.5		-	-			15
	Total				2.91						
	Less Discounts				73						
	Sub Total				1.15		66	35.3			66

NAME & NO. DENTAL EQUIPMENT CORPORATION  
ANY, KY

Greenville SC OFFICE

BID DATE \_\_\_\_\_  
 FLOOR AREA \_\_\_\_\_  
 UNIT COST \_\_\_\_\_  
 ESTIMATOR J.H.

BRICK MASONS \_\_\_\_\_  
 CARPENTERS \_\_\_\_\_  
 CEMENT FIN \_\_\_\_\_  
 ELECTRICIANS \_\_\_\_\_  
 INSULATORS \_\_\_\_\_  
 IRON WORKERS \_\_\_\_\_  
 LABORERS \_\_\_\_\_  
 MILLWRIGHTS \_\_\_\_\_  
 OPERATING ENG. \_\_\_\_\_  
 PAINTERS \_\_\_\_\_  
 PIPEFITTERS \_\_\_\_\_  
 PLUMBERS \_\_\_\_\_  
 SH. MTL. WORK \_\_\_\_\_  
 WELDERS \_\_\_\_\_

EXTENDED BY S.M.  
 CHECKED BY \_\_\_\_\_

T SUPPLY ITEM	QUANTITY	UNIT	MATERIAL UNIT	TOTAL MATERIAL	MAN - HOURS		TOTAL LABOR	UNIT	SUB-CONTRACTS AND OTHER COSTS	TOTAL COST
					UNIT	\$/HR				
BROUGHT FORWARD										
PIPE, SCH 40 RK TSC										
1 1/4"	373	FL	.37	140.17		72				
1"	42	FL	.28	12.14		6				
				152		80		416		545
Less 15%				23						
				129						
HANGERS										
1 1/4"	36	OR	.15	5.40		25				
1"	4	OR	.15	.60		3				
				6.00		28		146		285
Less 15%				.84						
				5.16						
90° ELBS, 1/2" C.I. SCHEDULE										
1"	9	OR	.44	3.96		8		42		46
Less 40%				.24						
				.36						
TEES, 1/2" C.I. SCHEDULE										
1 1/4" REDUCING	1	OR	.17	.17		1				
1 1/4"	6	OR	.17	1.02		7				
				.19		8		42		46
Less 40%				.11						
				.08						
PLUGS, 1/2" SCHEDULE										
1 1/4"	4	OR	.17	.68		4		21		22
Less 40%				.41						
				.27						
UNIONS, 1/2" M.I.										
1"	5	OR	.17	.85		5		26		32
Less 40%				.51						
				.34						
GATE VALVES, 1/2" SCHEDULE										
1"	4	OR	.17	.68		4		21		22
Less 40%				.41						
				.27						
PIPE RITE & MISC.				.25						25
TOTAL				181						
LESS DISCOUNTS				15						
SUB-TOTAL				166		137		714		1300

CLIENT NAME &amp; NO. DANIEL EQUIPMENT CORP.

LOCATION PORTO RICO

PROJECT

CREW/DATE SC OFFICE

BID DATE

FLOOR AREA

UNIT COST

ESTIMATOR JH.

BRICK MASONS

CARPENTERS

CEMENT FIN.

ELECTRICIANS

INSULATORS

IRON WORKERS

LABORERS

MILLWRIGHTS

OPERATING ENG.

PAINTERS

PIPEFITTERS

PLUMBERS

SH. MTL. WORK

WELDERS

EXTENDED BY

CHECKED BY

CODE	ITEM	QUANTITY	UNIT	MATERIAL UNIT	TOTAL MATERIAL			MAN HOURS		TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
					UNIT	TOTAL	\$/MH	TOTAL	\$/MH				
	RETURN PIPING												
	BROUGHT FORWARD												
	PIPING, SCH 40 BK 79C												
	1 1/2"	941	FT.	.37		163.19	2.4			427			576
	Less 15%					.24							
						137							
	HAKE'S												
	1 1/2"	44	HR	3.5		153.70	31			161			517
	Less 15%					.27							
						153							
	90° ELB 125" C.I. SCHED												
	1 1/2"	15	HR	.4		10.2	1.4			73			73
	Less 40%					.4							
						6							
	TEE, 125" C.I. SCHED												
	1 1/2"	12	HR	1.0		12.1	1.4			73			73
	Less 40%					.5							
						7							
	FLANGE, 125" SCHED												
	1 1/2"	8	HR	.7		3.9	7			36			36
	Less 40%					1							
						2							
	FLANGE, 250" INCH												
	1 1/2"	15	HR	2.3		21.1	12			73			73
	Less 40%					13							
						8							
	PIPE WELD 125" SCHED												
	1 1/2"	6	HR	1.0		10.1	5			26			26
	Less 40%					6.1							
						4							
	PIPE WELD, 125" SCHED												
	1 1/2"	1	HR	1.0		10.2	1			5			5
	Less 40%					6							
						4							
	PIPE WELD AND MISC					20							20
	TOTAL					505							
	Less 15%					133							
						372							
	SUB TOTAL					481		172		484			1365

NAME & NO.

Digital Equip Corp  
Peters, Rico

Crescentville SC OFFICE

BID DATE  
FLOOR AREA  
UNIT COST  
ESTIMATOR JH

BRICK MASON  
CARPENTERS  
CEMENT FIN.  
ELECTRICIANS  
INSULATORS  
IRON WORKERS  
LABORERS

MILLWRIGHTS  
OPERATING ENG.  
PAINTERS  
PIPEFITTERS  
PLUMBERS  
SH. MTL. WORK  
WELDERS

EXTENDED BY  
CHECKED BY

ESTIMATOR										
ITEM	QUANTITY	UNIT	MATERIAL UNIT	TOTAL MATERIAL	MAN HOURS		TOTAL LABOR	UNIT	SUB CONTRACTS	TOTAL COST
					UNIT	TOTAL				
AIR PIPING										
BROUGHT FORWARD										
Pipe, Sch 40 BK T&C										
3"	273	FT	182	236.30	7.2		236.30			
1"	1575	FT	228	441.18	28.7		441.18			
3/4"	105	FT	120	121.18	11		121.18			
				798	38.5		798			
Less 15%				120						
				678						
HANGERS:										
3"	27	4-	52	143.0	24		143.0			
1"	155	4-	278	592.0	101		592.0			
3/4"	11	4-	20	36.70	8		36.70			
				770	143		770			
Less 15%				116						
				654						
90° Elb; 1/2" C.I. SCHED:										
1"	72	4-	45	35.9	70		35.9			
3/4"	9	4-	37	3.6	5		3.6			
				39	75		39			
Less 40%				15						
				24						
TEES, 1/2" C.I. SCHED										
1"	48	4-	53	25.12	57		25.12			
3" RUNNING	16	4-	52	8.32	53		8.32			
				33	111		33			
Less 40%				12						
				21						
FLANGES 1/2" SCHED										
3"	1	4-	1.2	2.50	3		2.50			
1"	51	4-	22	11.9	26		11.9			
				14	49		14			
Less 40%				8						
				11						
UNIONS 250LB MI.										
1"	46	4-	137	91.0	41		91.0			
3/4"	4	4-	142	6.6	1		6.6			
				97	42		97			
Less 40%				58						
				39						
CROSSES 1/2" C.I. SCHED										
1"	15	4-	122	17.15	23		17.15			
Less 40%				10						
				11						
REDUCING COUPLER, 1/2" SCHED										
3/4" x 1"	4	4-	53	2.12	4		2.12			
Less 40%				1						
				1						
PIPE UNION, 1/2" SCHED										
1"	16	4-	135	11.9	4		11.9			
Less 40%				7						
				10						
CARRY FORWARD										

NAME & NO. ESTIMATE COMPANY CORP.  
 ON 10/15/73

Charlotte SC OFFICE  
 BID DATE \_\_\_\_\_  
 FLOOR AREA \_\_\_\_\_  
 UNIT COST \_\_\_\_\_  
 ESTIMATOR JH

BRICK MASONS \_\_\_\_\_  
 CARPENTERS \_\_\_\_\_  
 CEMENT FIN \_\_\_\_\_  
 ELECTRICIANS \_\_\_\_\_  
 INSULATORS \_\_\_\_\_  
 IRON WORKERS \_\_\_\_\_  
 LABORERS \_\_\_\_\_  
 MILLWRIGHTS \_\_\_\_\_  
 OPERATING ENG \_\_\_\_\_  
 PAINTERS \_\_\_\_\_  
 PIPEFITTERS \_\_\_\_\_  
 PLUMBERS \_\_\_\_\_  
 SH. MTL. WORK \_\_\_\_\_  
 WELDERS \_\_\_\_\_

EXTENDED BY 2016  
 CHECKED BY \_\_\_\_\_

ITEM	QUANTITY	UNIT	MATERIAL UNIT	TOTAL MATERIAL	MAN - HOURS			TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
					UNIT	TOTAL	\$/HR				
BROUGHT FORWARD						842		9380			842
PIPE PIPE AND MIS				120							120
TOTAL				2019							
LESS DISCOUNTS				395							
TRUE TOTAL				1624		842		9380			842

PROJECT NAME & NO. DIGITAL EQUIPMENT CORPORATION  
LOCATION PO BOX 100  
R.                       
CITY                     

GREENVILLE SC OFFICE  
BID DATE                       
FLOOR AREA                       
UNIT COST                       
ESTIMATOR JH

BRICK MASONS                      MILLWRIGHTS                       
CARPENTERS                      OPERATING ENG.                       
CEMENT FIN.                      PAINTERS                       
ELECTRICIANS                      PIPEFITTERS                       
INSULATORS                      PLUMBERS                       
IRON WORKERS                      SH. MTL. WORK                       
LABORERS                      WELDERS                     

EXTENDED BY SYB  
CHECKED BY                     

QTY	ITEM	QUANTITY	UNIT	MATERIAL UNIT	TOTAL MATERIAL	MAN / HOURS		TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
						UNIT	TOTAL \$/HR				
	BROUGHT FORWARD										
	Cast Iron, Supply and Install										
	PIPE	12"	462	FT	137	635.33	152	790	-		1423
	90° ELB	1/2"	6	EA	3.2	24.5	3	16	-		40
	TEES	1/2"	2	EA	3.2	24.5	1	5	-		13
	WELDS	1/2"	4	WT	3.2	15.5	2	10	-		20
	GATE VALVES - SCHEDULE	1/2"	2	EA	3.2	16.5	11	5	-		55
	<b>GRAND TOTAL</b>					672	104	820	-		51



CLIENT NAME & NO. DIGITAL EQUIPMENT CORP.  
 ADDRESS PUERTO RICO  
 CITY

OFFICE GREENWICH S.C.  
 BID DATE   
 FLOOR AREA   
 UNIT COST   
 ESTIMATOR JH

BRICK MASONRY   
 CARPENTERS   
 CEMENT FIN.   
 ELECTRICIANS   
 INSULATORS   
 IRON WORKERS   
 LABORERS   
 MILLWRIGHTS   
 OPERATING ENG.   
 PAINTERS   
 PIPEFITTERS   
 PLUMBERS   
 SH. MTL. WORK   
 WELDERS

EXTENDED BY JH

CHECKED BY

ITEM	QUANTITY	UNIT	MATERIAL UNIT	TOTAL MATERIAL	MAN HOURS		TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
					UNIT	TOTAL				
FUEL OIL										
BROUGHT FORWARD										
PIPE, SCH 40 RIK TSC										
3"	21	FT	1.23	25.83		6				
2"	21	FT	.45	9.45		11		5.1		10
				35.28						
Less 15%				29.99						
HANGERS -	3"	2	CH	5.81		2				
2"	2	CH	4.2	8.4		2		2.1		10.5
				13.21						
Less 15%				11.23						
4" FILL CAP	1	CH	5.2	5.2		1		5		12
- NET -										
COPPER TUBING 3/4"	8	FT	.82	6.56		1.4		4.1		10.5
- NET -										
90° ELB, COPPER CONJCT 3/4"	18	IN	.45	8.1		1.4		3.2		11.3
- NET -										
PIPE BRACKET 3/4"	9	CH	.49	4.41		2		1.2		5.6
- NET -										
EXCAVATION & BACKFILL	6	CY			1			2.1		12
PIPE DIRT & MISC.					10					10
TOTAL										
LESS DISCOUNTS										
SUB-TOTAL				42.2		22		25.5		67.7



CT NAME & NO. Digital Equipment Corp.  
 CITY Puerto Rico  
 STATE Same  
 TITLE

Greenville OFFICE  
 BID DATE 7-22-71  
 FLOOR AREA \_\_\_\_\_  
 UNIT COST \_\_\_\_\_  
 ESTIMATOR G.H.

BRICK MASONS _____	MILLWRIGHTS _____
CARPENTERS _____	OPERATING ENG. _____
CEMENT FIN. _____	PAINTERS _____
ELECTRICIANS _____	PIPEFITTERS _____
INSULATORS _____	PLUMBERS _____
IRON WORKERS _____	SH. MTL. WORK _____
LABORERS _____	WELDERS _____

EXTENDED BY S. H.  
CHECKED BY \_\_\_\_\_

	ITEM	QUANTITY	UNIT	MAT'L UNIT	TOTAL MATERIAL	MAN - HOURS		TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
						UNIT	TOTAL \$/MH				
BROUGHT FORWARD											
<i>Sanitary P.E.P.</i>											
<i>Fixtures</i>											
	Closet Combinations	1	EA	71.00	23.01	4.0	129				
	Urinals	4	EA	92.00	372	4.0	16				
	Floor drains	8	EA	20.00	168	1.5	12				
	Wash Sinks	10	EA	65.00	650	4.0	40				
	Elec. drinking Fountains	3	EA	20.00	60	2.0	12				
	Sub-Total Fixtures				398.6		*204	106.1			504.7
	Pooping Lantz										
	Closet Combinations	21	EA	63.00	1955	19.0	439				
	Urinals	4	EA	50.00	200	2.0	26				
	Floor drains	8	EA	50.00	400	5.0	30				
	Wash Sinks	10	EA	62.00	620	12.0	170				
	Elec. drinking Fountain	3	EA	55.00	225	11.0	22				
	Sub-Total M.I.T.L.				3388		763	296.8			7256
	Total San. Expend.				7274		967	5029			12303
CARRY FORWARD											

CT NAME & NO. Digital Equip. Corp.  
LOCATION Puerto Rico  
R Same  
PROJECT

Greenville OFFICE  
BID DATE 7-22-71  
FLOOR AREA  
UNIT COST  
ESTIMATOR C. H.

BRICK MAZONS  
CARPENTERS  
CEMENT FIN  
ELECTRICIANS  
INSULATORS  
IRON WORKERS  
LABORERS  
MILLWRIGHTS  
OPERATING ENG  
PAINTERS  
PIPEFITTERS  
PLUMBERS  
SH. MTL. WORK  
WELDERS

EXTENDED BY J. H.  
CHECKED BY

CODE	ITEM	QUANTITY	UNIT	MATERIAL UNIT	TOTAL MATERIAL	MAN - HOURS		TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
						UNIT	\$ MIN				
	BROUGHT FORWARD										
	<u>OUTSIDE SANITARY SEWER</u>										
	6" EX. Hvy. CORR. JOINT R.P.C.	220	FT	238	524	.19	42	218			742
	- NET -										
	6" X-Hvy. C.I. Pcs	2	EA	586	12	5.9	12				
	6" X-Hvy. C.I. 1/4 Bands	1	EA	940	3	2.2	3				
	6" CLEANOUT	1	EA	220	2	3.2	3				
	- NET -				18		18	94			112
	6" CONCRETE R.P.C.	420	FT	.55	231	.18	76	395			626
	- NET -										
	6" CONCRETE Pcs	4	EA	220	11	.90	4				
	6" CONCRETE CLEANOUTS	4	EA	220	11	.90	4				
	6" CONCRETE 1/4 Bands	4	EA	220	11	.90	4				
	- NET -				22		12	62			95
	Load	225	LB	.25	56	-	-	-			56
	- NET -										
	CONCRETE	35	LB	.40	14	-	-	-			14
	- NET -										
	EXCAVATION & BACKFILL	93	CY		-	1.0	93	484			484
	TOTAL - SANIT. SEWER				876		241	1253			2129

BRICK MASONS _____	MILLWRIGHTS _____
CARPENTERS _____	OPERATING ENG. _____
CEMENT FIN. _____	PAINTERS _____
ELECTRICIANS _____	PIPEFITTERS _____
INSULATORS _____	PLUMBERS _____
IRON WORKERS _____	SH. MTL. WORK _____
LABORERS _____	WELDERS _____

EXTENDED BY 9-24  
CHECKED BY \_\_\_\_\_

## CARRY FORWARD



DANIEL CONSTRUCTION COMPANY

PROJECT NAME & NO. Digital Eq. Corp.  
LOCATION Puerto Rico  
ARCHITECT \_\_\_\_\_

Greenville OFFICE  
BID DATE \_\_\_\_\_  
FLOOR AREA \_\_\_\_\_  
UNIT COST \_\_\_\_\_  
ESTIMATOR C. H.

BRICK MASONS \_\_\_\_\_  
CARPENTERS \_\_\_\_\_  
CEMENT FIN \_\_\_\_\_  
ELECTRICIANS \_\_\_\_\_  
INSULATORS \_\_\_\_\_  
IRON WORKERS \_\_\_\_\_  
LABORERS \_\_\_\_\_  
MILLWRIGHTS \_\_\_\_\_  
OPERATING ENG. \_\_\_\_\_  
PAINTERS \_\_\_\_\_  
PIPEFITTERS \_\_\_\_\_  
PLUMBERS \_\_\_\_\_  
SH. MTL. WORK \_\_\_\_\_  
WELDERS \_\_\_\_\_

SHEET 1 OF 1  
EXTENDED BY S. H.  
CHECKED BY \_\_\_\_\_

ITEM	QUANTITY	UNIT	MATERIAL UNIT	TOTAL MATERIAL	MAN - HOURS		TOTAL LABOR	UNIT	SUB-CONTRACTS AND OTHER COSTS	TOTAL COST
					UNIT	TOTAL				
BROUGHT FORWARD										
<u>PIPE DROPFAST EACH</u>										
<u>COLUMN</u>										
1" RIG. STL. PIPE	3490	FT.	.28	977.2	.18	628.0	3266			3852
Less 15%				- 291.1						
				546						
Hangers	250	EA.	.50	125						125
- NET -										
1" RIG. Tees	12	EA.	.90	10.8	.9	10	83			93
Less 40%				- 4.3						
				6.5						
1" RIG. C. Bosses	22	EA.	1.22	26.8	1.2	22	166			192
Less 40%				- 10.8						
				16						
1" 90° ELBS	16	EA.	.66	10.6	.9	14	749			760
Less 40%				- 4.2						
				6.4						
1" Unions	88	EA.	1.18	103.8	.9	72	374			477
Less 40%				- 37.0						
				554						
Pipe support misc				25						25
Sub-TOTAL				1422		892	4638			6077

146,000

47,000

99K



DANIEL CONSTRUCTION COMPANY, INC.

Gene Cribbe

7673705 - office  
7273848 - app. no

SHEET 1 of 5

PROJECT NAME &amp; NO.

Digital Equip. Corp

OFFICE

BID DATE 7/30/71

FLOOR AREA

UNIT COST

ESTIMATOR TGC

BRICK MASONS

CARPENTERS

CEMENT FIN.

ELECTRICIANS

INSULATORS

IRON WORKERS

LABORERS

MILLWRIGHTS

OPERATING ENG.

PAINTERS

PIPEFITTERS

PLUMBERS

SH. MTL. WORK

WELDERS

EXTENDED BY

CHECKED BY TGC

NO.	CODE	ITEM	QUANTITY	UNIT	MATL. UNIT	TOTAL MATERIAL	LABOR UNIT	TOTAL LABOR	UNIT	SUB-CONTRACTS AND OTHER COSTS	TOTAL COST
		<b>BROUGHT FORWARD</b>									
1		<u>Fire Protection</u>									
2											
3		INSIDE SPRINKLERS	—			13528		1595	—		12432
4		OUTSIDE FIRE LINES	—			13528		7000	—		22528
5		250 GPM JUNCTION TANK	—			—		—	—	42000	42000
6		1500 GPM FIRE PUMP	—			10200		2200	—		23200
7		PAINTING INSIDE SPRINKLER	ALLOW			220		1700	—		1900
8		JUNCTION TANK ELEVATION (WALL)	92	CY		—		322	—		322
9		2.5" FLOOR FLOOR	250	SF	32	80	150	375	—		455
10		FOUNDATION FOOTINGS	4	TON	142	560	700	300	—		1350
11		FOUNDATION CORE	92	CY	190	1745	50	460	—		2205
12											
13		<u>Pump House (15X20 SH)</u>	ALLOW			2500		1500	—		4000
14											
15											
16											
17		<u>Electrical</u>				127800		29200	—		157000
18											
19											
20											
21		<u>HVAC</u>				6500 + auto		42000	—		48500
22											
23		ROOF TOP PACKAGE AC UNIT	14	EA	233	49502		2940	—		52442
24		15 TON CURTAIN EXHAUST				42430		2530	—		44960
25		with Duct Adapter									
26											
27		DIFFUSERS FOR UNITS	14	EA		—		280	—		280
28											
29		4" x 4" x 10' SHEET PILES	42	EA	3.00	126		840	—		966
30											
31		GALVANIZED DUCTWORK	3,037	LBS		1063		845	—		1908
32											
33		THRU-WALL A/C UNITS	7	EA	650	4550		420	—		4970
34											
35		<u>Mechanical</u>									
36											
37		COOLING WATER SUPPLY				195		353	—		548
38		COOLING WATER RETURNS				195		353	—		548
39		1" SUPPLY PIPING				246		714	—		960
40		1" RETURN PIPING				440		224	—		664
41		AIR PIPING				1476		4820	—		6296
42		COOLING WATER INSULATION				688		850	—		1538
43		FUEL OIL PIPING - FIRE PUMP				143		274	—		417
44		SANITARY PIPING				7274		5653	—		12927
45		OUTSIDE SANITARY SEWER				576		1253	—		1829
46		OUTSIDE DOMESTIC WATER				2236		2470	—		4706
47		AIR DROPS AT THE GYMNASIUM				1434		4428	—		5862
48											
49											
50		<u>Civil</u>									
51		MISS. RAISE, BRICK BATH	ALLOW			3000		5000	—		8000
52		block work, wall & foot									
53		openings etc									
54											
		<b>CARRY FORWARD</b>				252241		81451	—	42000	375692

## ESTIMATE SUMMARY SHEET

FORM NO. (REV. 4-72)



DANIEL CONSTRUCTION COMPANY, INC.

SHEET 2 OF 5

PROJECT NAME & NO. Digital Equipment Corporation  
 LOCATION San German, Puerto Rico  
 ARCHITECT Digital Equipment Corporation

OFFICE  
 BID DATE 7/30/71  
 FLOOR AREA  
 UNIT COST  
 ESTIMATOR ZBC

BRICK MASONS  
 CARPENTERS  
 CEMENT FIN.  
 ELECTRICIANS  
 INSULATORS  
 IRON WORKERS  
 LABORERS  
 MILLWRIGHTS  
 OPERATING ENG.  
 PAINTERS  
 PIPEFITTERS  
 PLUMBERS  
 SH. MTL. WORK  
 WELDERS

EXTENDED BY  
 CHECKED BY ZBC

LINE	CODE	ITEM	QUANTITY	UNIT	MAT'L UNIT	TOTAL MATERIAL	LABOR UNIT	TOTAL LABOR	UNIT	SUB-CONTRACTS AND OTHER COSTS	TOTAL COST
		Use 21 wks - 11/1/71 thru 3/29/72				252241		81451		42000	37569
		BROUGHT FORWARD									
1	90	INDIRECT COSTS									
2		Supervision									
3		Salaried Personnel									
4	92.50	Project Coordinator	8 Mo x 40 hrs/wk	320	hrs	-	11 <sup>50</sup>	9200	-		9200
5	92.50	Project Manager									
6	92.20	Project Manager (Assistant)									
7	92.20	Personnel Manager	4 Mo x 20 hrs/wk	80	hrs	-	21 <sup>25</sup>	1700	-		1700
8	92.20	Secretary & Receptionist	21 wks	21	wks		12 <sup>5</sup>	2625			2625
9											
10		Engineering									
11		Office Engineer									
12	97.10	CPM	12	hrs			16 <sup>50</sup>	198	-		198
13	92.30	Field Engineer									
14	92.30	Instrument Man & Party	6 wks	6	wks		22 <sup>50</sup>	1950	-		1950
15	97.10	Mechanical Engineer	4 Mo 35 hrs/wk	140	hrs		21 <sup>50</sup>	3150	-		3150
16	97.10	Mechanical Engineer (Assistant)									
17	97.10	Electrical Engineer	4 Mo 25 hrs/wk	100	hrs		22 <sup>50</sup>	2250			2250
18	97.10	Electrical Engineer (Assistant)									
19	97.10	HVAC Engineer	1 Mo w/110 h	-	-						
20	92.30	Clerk-Typists	4 Mo 120 h/10	80	hrs		7 <sup>20</sup>	600			600
21											
22		Cost Control									
23	92.30	Cost Engineer	21 wk x 40 hrs/wk	168	hrs		11 <sup>50</sup>	1890			1890
24	92.30	Cost Clerk									
25											
26		Purchasing									
27	92.60	Purchasing Agent									
28	92.60	Buyer	21 wks x 15 hrs/wk	315	hrs		12 <sup>50</sup>	3938			3938
29	92.60	Expeditor									
30	92.60	Clerks									
31											
32		Accounting									
33	92.60	Chief Accountant	21 wk x 20 hrs/wk	420	hrs		16 <sup>50</sup>	7085			7085
34	92.60	Accountant-Paymaster									
35	92.60	Timekeepers									
36	92.60	Clerks									
37											
38		Field Supervision									
39	92.10	General Superintendent	21	wks			42 <sup>5</sup>	8925			8925
40	92.10	Asst. Superintendent									
41	92.10	Mechanical Superintendent	15	wks			375	5625			5625
42	92.10	Electrical Superintendent	10	wks			375	3750			3750
43	92.10	HVAC Superintendent	1 Mo w/110 h								
44	92.10	Rigger Superintendent									
45	92.10	Millwright Superintendent									
46	92.10	Warehouse Superintendent									
47	92.10	Equipment Superintendent									
48	92.10	General Foreman									
49											
50		CARRY FORWARD				252241		134357		42000	128578

ESTIMATE SUMMARY SHEET  
Form 45 (Rev. 4/72)

DANIEL CONSTRUCTION COMPANY, INC.

 BRICK MASONS \_\_\_\_\_  
 CARPENTERS \_\_\_\_\_  
 CEMENT FIN. \_\_\_\_\_  
 ELECTRICIANS \_\_\_\_\_  
 INSULATORS \_\_\_\_\_  
 IRON WORKERS \_\_\_\_\_  
 LABORERS \_\_\_\_\_  
 MILLWRIGHTS \_\_\_\_\_  
 OPERATING ENG. \_\_\_\_\_  
 PAINTERS \_\_\_\_\_  
 PIPEFITTERS \_\_\_\_\_  
 PLUMBERS \_\_\_\_\_  
 SH. MTL. WORK \_\_\_\_\_  
 WELDERS \_\_\_\_\_
SHEET 3 OF 5

EXTENDED BY \_\_\_\_\_

CHECKED BY TGC
 PROJECT NAME & NO. Digital Equipment Corporation  
 LOCATION San German, Puerto Rico  
 OWNER Digital Equipment Corporation  
 ARCHITECT \_\_\_\_\_

 BID DATE 7/30/71 OFFICE \_\_\_\_\_  
 FLOOR AREA \_\_\_\_\_  
 UNIT COST \_\_\_\_\_  
 ESTIMATOR TGC

LINE	CODE	ITEM	QUANTITY	UNIT	MAT'L UNIT	TOTAL MATERIAL	LABOR (HOURS)	TOTAL LABOR	UNIT	SUB-CONTRACTS AND OTHER COSTS	TOTAL COST
		<b>BROUGHT FORWARD</b>				<b>25,224.1</b>	<b>13,433.7</b>			<b>42,000</b>	<b>42,957</b>
1											
2	92.10	Warehousemen	—	—							
3	92.10	Asst. Warehouseman	15	Wks	—	150	2250	—			2250
4	92.10	Safety Engineer	15	Wks	—	150	2250	—			2250
5	92.80	Janitor & Water Boy	—	—							
6	92.80	Guards (3)	Allow	—						5500	5500
7	92.10	Operating Engineers (1)	3	Wks	—	175	525	—			525
8	92.60	Greenville Reimbursables	Allow	—						3500	3500
9	92.60	San Juan Reimbursables	Allow	—						4500	4500
10	92.10	Mechanics Allow. 10 hrs	10	Hrs	—	30	300	—			300
11											
12											
13		<b>CONSTRUCTION PLANT &amp; EQUIPMENT</b>									
14		Major Equipment									
15	95.10	Daniel Equipment Rental 315 x 2 x .05	—	—							
16	95.10	Third Party Rental	—	—							
17	95.10	Transportation Tools & Equipment Allow	—	—						20000	20000
18	95.30	Fuel, Oil & Maintenance	—	—							
19											
20											
21		Temporary Services									
22	92.40	Office Supplies	Allow	—		600	—	—			600
23	92.40	Postage & Miscellaneous	Allow	—		150	—	—			150
24	92.80	Photos	—	—							
25	92.90	Projects Clean Up	Allow	—		—	500	—			500
26	93.10	Field Offices	—	—							
27	93.10	a. Prefab Building Temp Facilities	—	—							
28	93.70	b. Air Conditioning	Allow	—		4500	—	—			4500
29	93.50	c. Office Furniture & Equipment	—	—							
30	93.00	Sanitary Facilities 5 Mo	Allow 2	Mo	—	—	—	—		500	500
31	93.00	Food Service Facilities	—	—							
32	93.20	Temporary Warehouse	Allow	—		700	—	—			700
33	93.20	Barricades	—	—							
34	93.20	Temporary Roads & Maintenance	—	—							
35	93.30	Project Signs	Allow	—		100	—	—			100
36	93.00	Temporary Phone & Telex	5 Mo	—		3000	—	—		1000	4000
37	93.00	Temporary Water & Fire Protection use existing	—	—		—	—	—			
38	93.00	Temporary Power Allow	5 Mo	—		3000	2000	—			5000
39	96.00	First Aid & Safety Supplies	Allow	—		200	—	—			200
40	96.00	Water, Ice, Cups	Allow	—		300	—	—			300
41	96.00	Consumable Supplies	Allow	—		3000	—	—			3000
42											
43											
44		Personnel Relocations	—	—							
45	92.80	Relocate Continentals	—	—							
46	92.80	Relocate Locals	3 Mo	Allow	—	—	—	—		3000	3000
47	92.80	Furniture Allowance	—	—							
48	92.80	Temporary Relocation	—	—							
49											
50											
51											
52											
53											
54											
		<b>CARRY FORWARD</b>				<b>26,779.1</b>	<b>142162</b>			<b>83000</b>	<b>492953</b>

ESTIMATE SUMMARY SHEET  
Form 46 (Rev. 4-70)

DANIEL CONSTRUCTION COMPANY, INC.

SHEET A of 5
 PROJECT NAME & NO. Digital Equipment Corporation  
 LOCATION San German, Puerto Rico  
 OWNER Digital Equipment Corporation  
 ARCHITECT \_\_\_\_\_

 OFFICE  
 BID DATE 7/29/71  
 FLOOR AREA \_\_\_\_\_  
 UNIT COST \_\_\_\_\_  
 ESTIMATOR TGC

 BRICK MASONS \_\_\_\_\_  
 CARPENTERS \_\_\_\_\_  
 CEMENT FIN. \_\_\_\_\_  
 ELECTRICIANS \_\_\_\_\_  
 INSULATORS \_\_\_\_\_  
 IRON WORKERS \_\_\_\_\_  
 LABORERS \_\_\_\_\_  
 MILLWRIGHTS \_\_\_\_\_  
 OPERATING ENG. \_\_\_\_\_  
 PAINTERS \_\_\_\_\_  
 PIPEFITTERS \_\_\_\_\_  
 PLUMBERS \_\_\_\_\_  
 SH. MTL. WORK \_\_\_\_\_  
 WELDERS \_\_\_\_\_

 EXTENDED BY \_\_\_\_\_  
 CHECKED BY TGC

LINE	CODE	ITEM	QUANTITY	UNIT	MAT'L UNIT	TOTAL MATERIAL	LABOR UNIT	TOTAL LABOR	UNIT	SUB-CONTRACTS AND OTHER COSTS	TOTAL COST
		BROUGHT FORWARD				267791		142162		83000	47595
1											
2		Travel Expense									
3	92.00	a. Home Office Travel							500	1500	1500
4		b. Coordinator Travel									
5		San Juan Travel									
6	92.00	Auditor									
7	92.00	Project Manager <i>2/1/71</i>									
8	92.00	Personnel Manager <i>2/1/71</i>							60	1800	1800
9	92.00	Safety Engineer <i>2/1/71</i>									
10											
11											
12		Miscellaneous Services									
13	92.80	Training Program <i>includes</i>									
14	92.60	Estimates									
15	97.20	Job Print Blueprint									
16	98.10	Factory Inspection - Equipment									
17											
18											
19											
20		Subtotal - Indirects				15750		61711		44300	171741
21		Directs				252241		81451		42000	375692
22		Total				267791		143162		86300	497453
23											
24		FIXED INDIRECTS									
25											
26		PAYROLL TAX INSURANCE & FRINGES									
27	94.00	Workman's Compensation 6.35% <i>* subject to negotiation</i>									
28	94.00	Liability 2.0%									
29	94.00	Disability 0.5%									
30	94.00	FOAB 5.2%								27695	27695
31	94.00	Unemployment 3.2%									
32	94.00	Payroll Preparation .20/m wk.							.20	163	163
33	94.00	Pay Envelopes .15/m wk.							.15	122	122
34	94.00	Chauffer Tax .30/m wk. <i>2 ea</i>								18	18
35	94.00	Opr. Engineers Vacation 1-7-8/days/mo.							150		150
36	92.43	Computer & Bank Charges									
37	94.00	Paid Holidays /8 yr/man <i>4 x 50 x 25</i>							5000		5000
38	94.00	Christmas Bonus (vacation .10 m-hr.) <i>230/4 = 35413 Mh x .10</i>							3541		3541
39	96.70	Hospitalization .10/m hr. <i>230/4 = 35413 X .10</i>								3541	3541
40	96.20	Excise Tax (13% on Foreign)									
41	94.10	Mandatory Decree No. 44 <i>4.5% x 8/451</i>							3665		3665
42											
43											
44	95.50	Non & Expendable Tools <i>7% x 81451</i>								3258	3258
45											
46											
47	94.50	Official Fees & Permits <i>allow</i>								1000	1000
48											
49											
50	97.70	Labor Escalation <i>20%</i>									
51	98.3	Overtime (doubletime)									
52	96.11	Owners Protective Insurance									
53		Rigging Insurance <i>allow</i>								500	500
54											
		CARRY FORWARD				267791		155513		117597	543106





PROJECT NAME & NO. DIGITAL EQUIPMENT CORPORATION  
PUERTO RICO (SAN GERMAN)

CORPORATE OFFICE

BID DATE July 18, 77

FLOOR AREA \_\_\_\_\_

UNIT COST \_\_\_\_\_

ESTIMATOR SPMS

BRICK MASONS \_\_\_\_\_  
CARPENTERS \_\_\_\_\_  
CEMENT FIN \_\_\_\_\_  
ELECTRICIANS \_\_\_\_\_  
INSULATORS \_\_\_\_\_  
IRON WORKERS \_\_\_\_\_  
LABORERS \_\_\_\_\_  
MILLWRIGHTS \_\_\_\_\_  
OPERATING ENG. \_\_\_\_\_  
PAINTERS \_\_\_\_\_  
PIPEFITTERS \_\_\_\_\_  
PLUMBERS \_\_\_\_\_  
SH. BTL. WORK 5.80  
WELDERS \_\_\_\_\_

ARCHITECT \_\_\_\_\_

CODE	ITEM	QUANTITY	UNIT	MATERIAL UNIT	TOTAL MATERIAL	MAN - HOURS		TOTAL LABOR	UNIT	SUB CONTRACTS AND OTHER COSTS	TOTAL COST
						UNIT	TOTAL				
	BROUGHT FORWARD										
	<u>EQUIPMENT</u>										
	ROOF TOP DRAINAGE AC UNIT, 15 TON CAPACITY, SODACIB WITH DUCT ADJUSTOR	14	EA	3.36	47.04		58.6	294.0			504.4
	DIFFUSERS (60 UNITS)	14	EA		14.00	4	56	280.0			280.0
	4' X 4' X 10' SLEEPERS	42	EA	3.00	126.0	4	168	840			966.0
	GUARANTEED FRIGWORK	3637	LES	.35	1272.95		167	2405			1127.95
	THRU-ROOF A/C UNITS	7	EA	8.50	59.50		8.7	140.0			97.20
	<u>SUB-TOTAL</u>				5574.3		122.5	5325			6056.9

EXTENDED BY C.H.

CHECKED BY \_\_\_\_\_

BRICK MASONS _____	BILLWRIGHTS _____
CARPENTERS _____	OPERATING ENG. _____
CEMENT FIN. _____	PAINTERS _____
ELECTRICIANS _____	PIPEFITTERS _____
INSULATORS _____	PLUMBERS _____
IRON WORKERS _____	\$4. MTL. WORK _____
LABORERS _____	WELDERS _____

ESTIMATOR 94

ARCHITECT

[illegible]

**RAPIDFORMS** NO. Y100/3  
**LETTER-LIMINATOR**

REORDER FROM REGENT STANDARD FORMS, INC., 15TH & WALLACE STS., PHILA., PA. 19130

SENDER: SNAP OUT YELLOW COPY ONLY. SEND WHITE AND PINK COPIES WITH CARBON INTACT.

TO

Digital Equipment Corp.

San German, P. R.

Att: Mr. Howard Reed

FROM

*Correspondence*  
**P.R. SHOP DWGS**

**LORD ELECTRIC CO. P. R., INC.**

**G. P. O. Box 3408**

**San Juan, P. R. 00936**

809- **Tel. 767-4040**

SUBJECT:

FOLD HERE

DATE

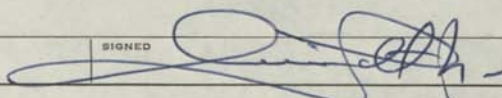
8-10-70

**MESSAGE** RE: LOADCENTER UNIT SUBSTATIONS

Attached please find the shop drawings for the General Electric Substation.

Please note that the information regarding the main secondary switch is marked by a red arrow. (This information is necessary to order the key interlock for the Emergency Generator).

SIGNED



DATE

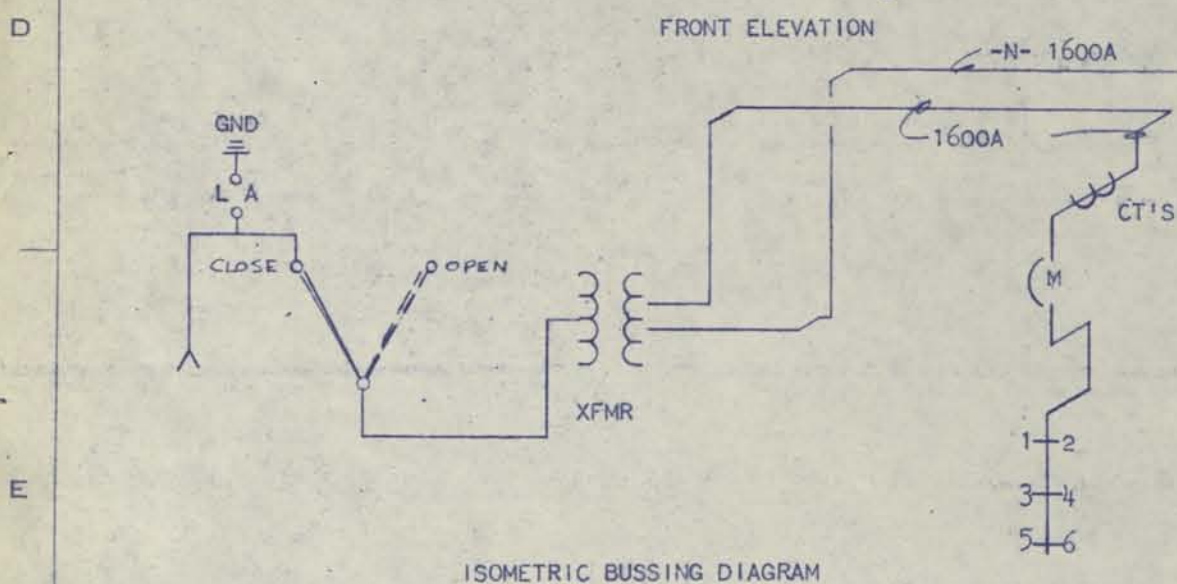
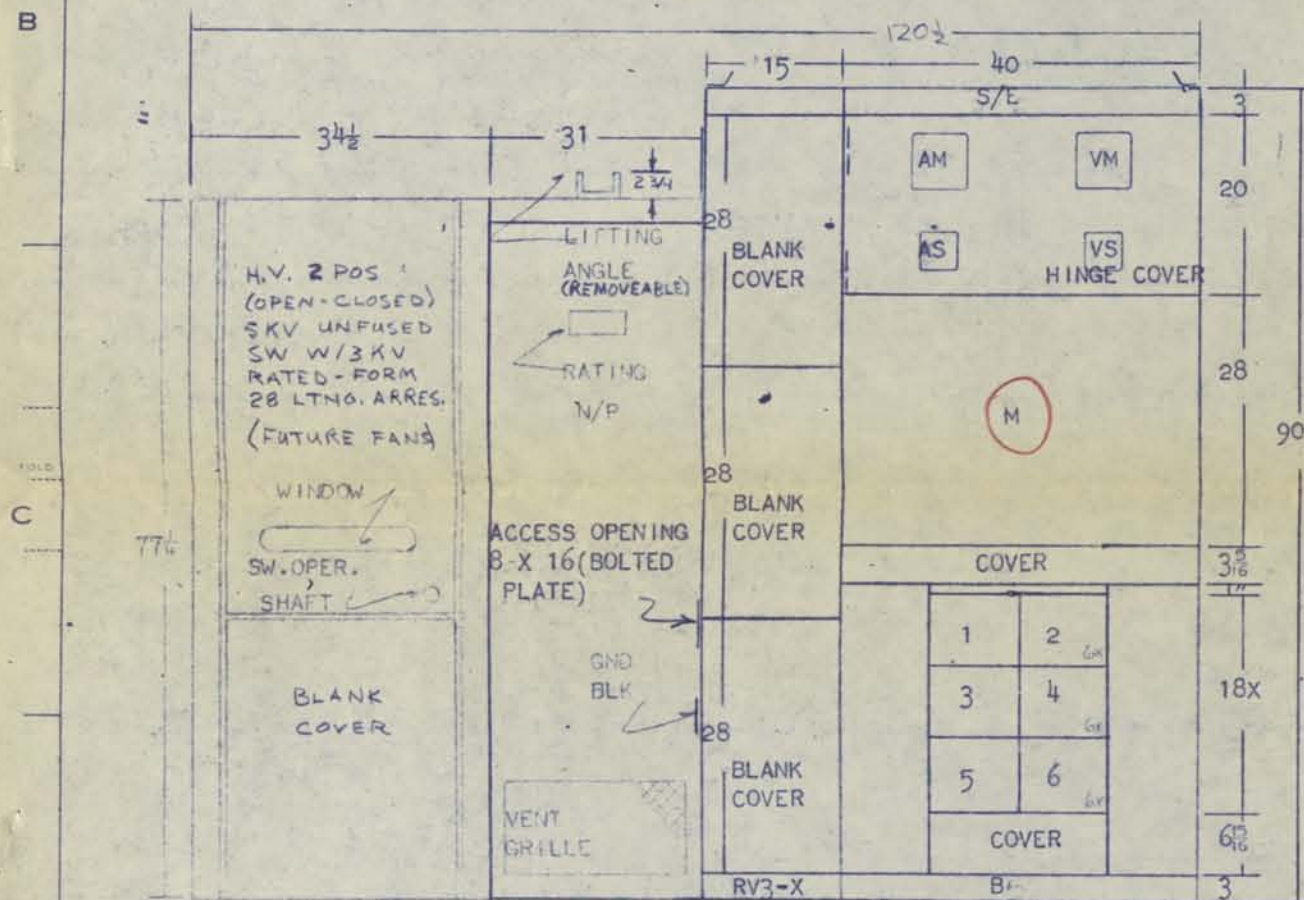
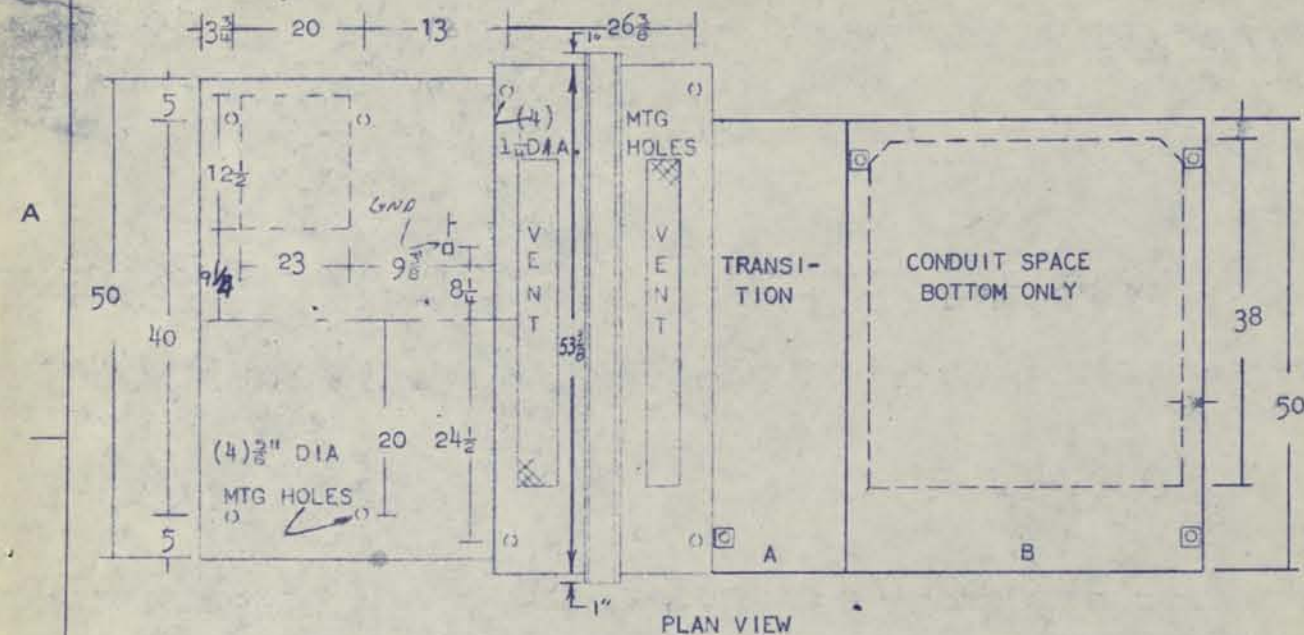
**REPLY**

SIGNED

**LETTER - LIMINATOR**

RECIPIENT: RETAIN WHITE COPY, RETURN PINK COPY

MAYAGUEZ, P. R.  
**RECEIVED**  
JUN 27 1969  
Ford Electric Co. of P. R., Inc.



ISOMETRIC BUSSING DIAGRAM

SWITCHBOARD SPECIFICATIONS

NEMA CLASS 2  
SERVICE 277/480 VOLTS 3 PHASE 4 WIRE 60 CYCLE 1600 AMPERES  
ALUM. TIN-PLATED  
BUSES: BRACED FOR 50,000 AMPERES RMS SYMMETRICAL, WITH CIRCUIT PROTECTIVE  
DEVICES HAVING MINIMUM INTERRUPTING RATING OF 30,000 AMPERES RMS SYMMETRICAL.  
ENCLOSURE: BOLTED FRAME OF FORMED CODE GAUGE STEEL, WITH PANNED SCREW-ON COVERS, FINISHED  
FRAME ALA 33 GRAY OVER PHOSPHATE TYPE RUST INHIBITOR.  
COVERS ALA 61  
CIRCUITS IDENTIFIED BY CARDHOLDER

SWITCHBOARD SCHEDULE

CKT NO	DEVICE DESCRIPTION	FRAME OR SWITCH AMPS	TRIP OR FUSE CLIP AMPS	POLES	LOAD LUGS PER PHASE	N LUGS	CIRCUIT IDENTIFICATION	NOTE	SEC	MFG. CODE
M	AK-2-50	1600	1600	3	BUS	—	MAIN			
1	TJK-6	600	600	—	2-350	2-350				
2	TJK-6	600	600	—	2-350	2-350				
3	TJK-4	400	400	—	1-500	1-500				
4	—	—	400	—	1-500	1-500				
5	—	—	—	—	—	—	SPACE			
6	—	—	—	—	—	—	SPACE			

AM = 50-105141LSVE, AB-30, 0-2KA  
VM = 50-105021SJSJ, AB-30, 0-600V  
AS = 10AA009 SBM  
VS = 10AA006, SBM  
CT'S = 837X67, JAH-0, 2000/5A

WIRE PER SHEET 102 & 359

1. Provide ground bus bar
2. Specify size, Cap. & est. # of Primary Switch

1000 KVA OPEN VENTILATED  
DRY TYPE TRANSFORMER  
150°C RISE 5 KV  
PRIMARY: 4160 Δ  
SECONDARY: 277/480  
4-2 1/2% TAPS (2 ABOVE & 2 BELOW)  
RATED PRIMARY VOLTAGE, STANDARD  
IMPEDANCE & ACCESSORIES, CORE AND  
COILS MOUNTED ON VIBRATION DAMPENERS.  
-----APPROXIMATE WEIGHTS-----  
CORE & COILS: 4000 LBS  
CASE & FITTINGS: 500 LBS  
TOTAL: 4500 LBS  
CONSTRUCTION INDUSTRIES DIVISION  
GENERAL ELECTRIC  
DISTRIBUTION ASSEMBLIES DEPARTMENT

Lord Electric Company  
of Puerto Rico, Inc.

☐ Approved ☐ Not Approved  
☒ Approved as noted ☐ Resubmit

Remarks:

Date: 6/24/69: *[Signature]*

4  
3  
2  
1  
NO. DATE REVISIONS

TITLE	UNIT SUB-STATION	PLANT	HOUSTON, TEXAS
JOB NAME	DIGITAL EQUIPMENT CO. PUERTO RICO	CUSTOMER	INTERNATIONAL GENERAL ELECTRIC NEW YORK
ARCHITECTS		CUST ORDER NO	247-C51-T4854X003
ENGINEER		REQ. NO.	(SAME)
CONTRACTOR		DAD ORDER NO	177-47899
MADE BY	6-10-69 <i>[Signature]</i>	ISSUED	R-BORDEN/DFS 8-352-4413
			177CE47899 FL

CONT. ON SHEET FL SH. NO. 1

File

Phoebe F.R.



*Puerto Rico*

*Foundational*  
*X.P. Correspondence*  
*X.P. History of Puerto Rico*

REPORT ON FOUNDATION INVESTIGATION  
DIGITAL EQUIPMENT CORP.  
STORAGE TANK, SAN GERMAN, P. R.

VIRGILIO RAMOS FILARDI

CONSULTING ENGINEER  
FOUNDATIONS - STRUCTURES

1505 ROOSEVELT AVE. 00020  
P. O. BOX 1258, HATO REY, P. R.

November 26, 1971

CABLE "FECO"  
SAN JUAN, P. R.

REPORT ON FOUNDATION INVESTIGATION  
DIGITAL EQUIPMENT CORP.  
STORAGE TANK, SAN GERMAN, P. R.

INTRODUCTION

GENERAL:

The investigation which forms the subject of this report was undertaken at the request of Mr. Fausto Parreño, General Manager of Viking of P. R.

The purpose of the investigation was to obtain information of the subsoil conditions in order to make recommendations for the design of the most feasible and economical type of foundations required for the support of the proposed structures.

SCOPE OF WORK

FIELD WORK:

The field work consisted of making 4 test borings 30.5 ft. deep with a total footage of 122.0 ft. being drilled.

The borings were made by driving a 2-1/2" diameter casing to a short distance, removing the soil inside the casing by a combined jetting and chopping action, and taking samples at the bottom of the hole using a 1-1/2" I.D. SoilTest Tube Sampler, ASTM Designation D-1586. For securing the samples, the Standard Penetration Test was performed from which the N value was obtained. This is the number of blows required to drive the sampling spoon

a distance of 12 inches with a 140-lb hammer falling 30 inches. The N value gives an indication of the consistency of clays and the relative density of sands.

#### LABORATORY WORK

##### Routine Laboratory tests

All samples obtained from the borings were subjected to routine laboratory testing. Routine laboratory testing in our laboratory consist of visual examination, description, natural moisture content determination of samples, and unconfined compression tests of all cohesive soil samples in which the visual degree of disturbance is not great.

##### Visual examination and description:

Each sample is carefully examined for stratifications, lenses or pockets of sand, silt or shells, fibrous or woody peat inclusions, color, uniform or mottled, friable, crumbly or plastic nature, and the general size of the soil grain constituents such as coarse sand, fine silty sand, clayey silt, etc. The description is recorded for each sample on the laboratory log sheet. These descriptions, as well as the results of the laboratory testing are used in grouping similar samples into a stratigraphic unit which can be identified by a general description in the final boring logs.

Digital Equipment Corp. Storage Tank, San German, P. R.

Natural moisture content

The natural moisture content or the natural water content as it is often called is determined by dividing the weight of water contained in the sample in its natural condition by the oven dry weight of the sample. The weight of water contained in the sample is taken as the loss of weight of the sample when dried in an oven at 105°C for 24 hours.

Unconfined compression test:

All cohesive soil samples from the 1-1/2" internal diameter split spoon sampler were tested in unconfined compression, unless they showed signs of disturbance.

Samples obtained from the split spoon sampler cannot be considered undisturbed samples, but some information can be obtained from testing them even though the values obtained may be somewhat lower than the true values. Before testing the sample, the ends were trimmed so that the length of the sample was approximately twice the diameter. The samples were tested in a constant load compression machine. The load on the sample was measured by a scale and the deflection of the sample by a strain dial indicator. A rate of strain of approximately 2.0% per minute was employed. The testing was continued until the sample failed in shear, or in case of bulging, until a strain of 20% of the original height of the sample was obtained. By dividing the maximum load by the corrected area of the sample, the unconfined compressive strength is obtained.

Since no lateral support is offered to the sample during testing, the shear strength of the sample may be taken as equal to one half the unconfined compressive strength.

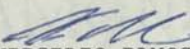
SUBSOIL CONDITIONS

For a detailed description of the subsoil as encountered by our borings, please refer to the enclosed boring logs.

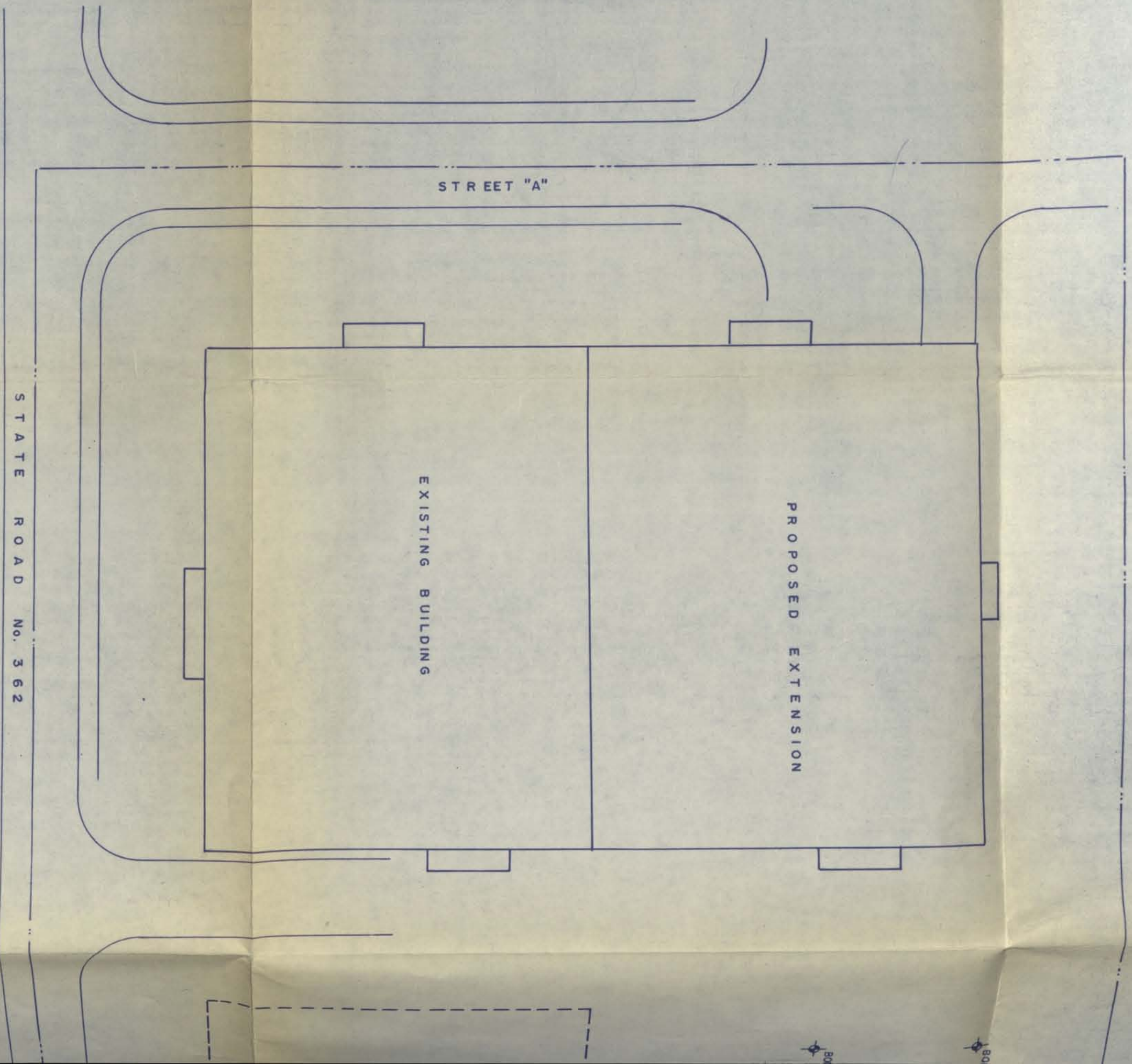
RECOMMENDATIONS

The results of the investigation indicate that a spread footing foundation can be used for the support of the proposed tank. An allowable soil bearing pressure of 4,000 lbs. per sq. ft. can be used for the distribution of the footings. The base of the tank can be placed at any depth beneath 2 ft. from existing ground surface elevation at the time of the investigation.

Respectfully submitted,

  
VIRGILIO RAMOS FILARDI  
Consulting Engineer

VRF:cqm



SCALE = 1:500

BORING NO. 1

Depth (ft)	Soil Description	N	W	Qu
0'	Brown clayey silt	21	19	—
4'	some sand & rock fragments	24	13	5.3
10'	yellowish brown silty clay, some sand	20	26	4.2
13'	yellow sandy silt clay trace	24	14	—
20'	brown silt clay trace	67	23	1.8
27'	sand trace	75	18	—
30'	olive brown silt	56	20	1.2
30.5'	little sand	114	20	—

12'-3"

BORING NO. 2

Depth (ft)	Soil Description	N	W	Qu
0'	gray rock fragments	11	17	—
4'	B. sand, silt trace	20	25	4.1
10'	black silty clay	23	25	5.8
14'	some sand	27	19	0.9
21'	yellowish brown silt, some clay	50	20	—
27'	olive sandy silt, some clay	79	12	0.8
30'	olive silty sand, clay trace	120	16	—
30.5'		57	11	—

17'-5"

BORING NO. 3

Depth (ft)	Soil Description	N	W
0'	yellowish brown	23	17
10'	sandy silt, some clay	32	21
16'	olive silty sand, clay trace	43	13
20'		51	13
23'		68	12
27'		41	19
30'		69	19
30.5'		82	19

11'-4"

BORING NO. 4

Depth (ft)	Soil Description	N	W
0'	olive, white mort.	17	—
10'	olive, white mort.	62	—
13'	olive, white mort.	80	—
20'	olive, white mort.	124	—
30'	olive, white mort.	159	—
30.5'	olive, white mort.	174	—

**THE FOUNDATION ENGINEERING COMPANY  
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DIGITAL EQUIPMENT CORP.  
SAN GERMAN P. R.

BORING LOGS & BORING LOCATION PLAN

DATE	JOB No.	DRAWN BY
11/15/71	2619	R. ORTIZ

Notes:

N : number of blows required to drive the sampling spoon  
a distance of 12" with a 140 lbs hammer falling 30"

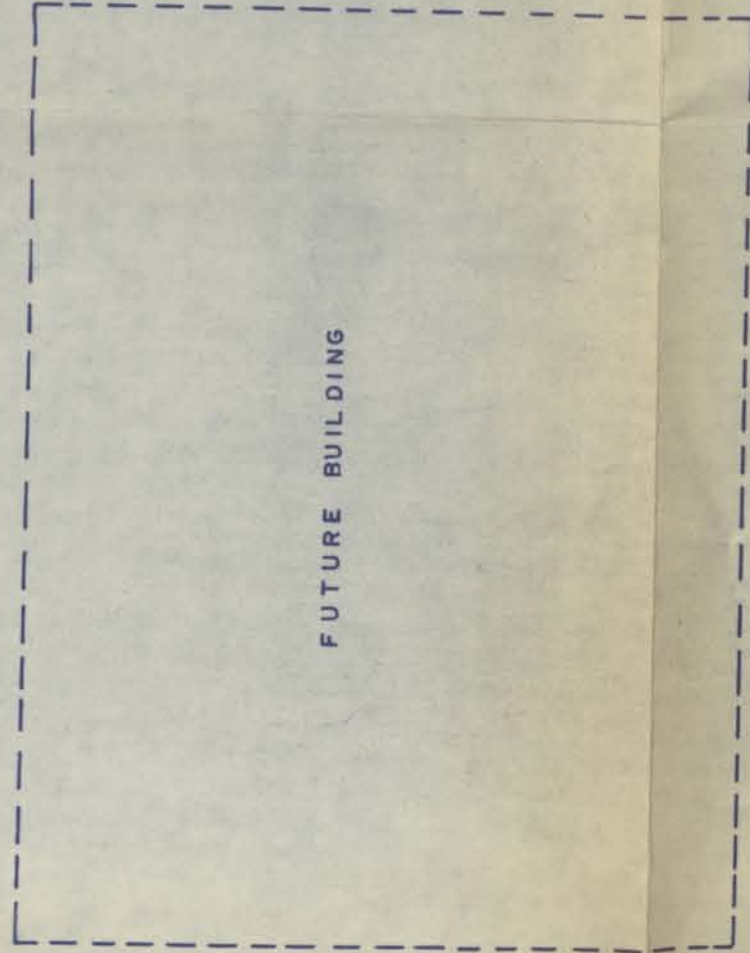
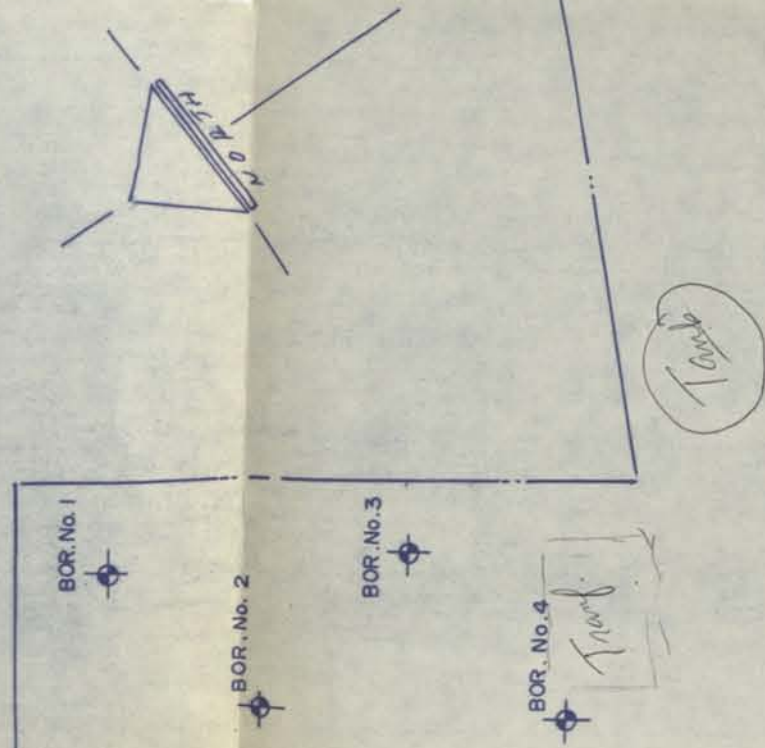
W : natural moisture content in % of dry wt.

Qu : unconfined compressive strength in tons/sq. ft.

→ ground water level at time of the investigation

Vertical Scale : 1" = 10'

UTURE BUILDING



FUTURE BUILDING

BORING No. 4

	N	W
white mott.	17	14
ly silt	62	8
trace	80	12
	124	16
	152	12
white mott.	170	12
d, some	102	14
	102	14
	102	14

3' 13' 6"

Notes:

- N : number of blows required to drive the sampling spoon a distance of 12" with a 140 lbs hammer falling 30"
- W : natural moisture content in % of dry wt.
- Qu : unconfined compressive strength in tons/sq. ft.
- ground water level at time of the investigation

Vertical Scale : 1" = 10'

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DATE 11/15/71 JOB No. 2619 DRAWN BY R. ORTIZ