CITY OF NEWBERG CITY RECORDER INDEX NO. 1098

# CONTRACT DOCUMENTS FOR THE CONSTRUCTION OF

# HESS CREEK SEWER EXTENSION FULTON STREET to VILLA ROAD 1972

Richard T. Robertson 9/14/72

CITY OF NEWBERG ENGINEERING DEPT.

#### ADVERTISEMENT FOR BIDS

Sealed proposals for the construction of Hess Creek Sanitary Sewer, addressed to the Honorable Mayor and City Council, City Hall, City of Newberg, Oregon will be received at the office of the City Finance Officer, until 7:30 P.M., Pacific Daylight Time, September 5, 1972, and then will be publicly opened and read.

Proposals will be received on Hess Creek Sanitary Sewer consisting of approximately all45 linear feet of 12 inch concrete sewer line, 5 manholes, and 3 creek crossings.

Plans and Specifications may be examined at the Office of the City Engineer, City Hall, Newberg, Oregon. A copy of said Documents may be obtained at the Engineer's office at City Hall, Newberg, Oregon upon a deposit of Twenty Five Dollars (\$25.00) for each Document. The full amount of the deposit will be refunded if said Documents are returned in good condition within ten (10) days after bid opening.

Bidders must be prequalified in compliance with applicable parts of Chapter 279 of Oregon Revised Statutes. Prequalification forms, completely filled out, shall be mailed to the City Engineer, City Hall, Newberg, Oregon, at least ten (10) days prior to the Bidding date.

No bid will be received or considered by the public body or any officer of the public body unless the bid contains a statement by the Bidder as a part of his bid that the provisions required by ORS 279.350 shall be included in his contract.

Each proposal must be submitted on the prescribed form and accompanied by a certified check or bid bond payable to the City of Newberg, Oregon, in an amount not less than ten percent (10%) of the amount bid.

The successful bidder will be required to furnish a performance and payment bond for faithful performance of the contract in the full amount of the contract price.

Bidders on this work willbe required to comply with the provisions of the President's Executive Order No. 11246 and requirements issued thereunder. The requirements for bidders and contractors under this order are explained in the contract Documents.

The attention of bidders is directed to the requirements and conditions of employment to be observed and minimum wage rates to be paid under the contract.

The right is reserved to reject any or all proposals, to waive informalities, to postpone the award of the contract for a period not to exceed thirty (30) days, and to accept that proposal which is to the best interest of the City of Newberg.

Dated this 21st day of August 1972.

CITY OF NEWBERG, OREGON

M. C. Gilbert Finance Officer

## TABLE OF CONTENTS

		•		Page
PROPOSAL		i di	Proposal	1
CONTRACTOR'S PREQUALIFICATION	ON FORM	Prequalificat	ion Form	1
CONTRACTOR'S COMPLAINCE STAT	<b>FEMENT</b>		CS	1
BID BOND	٠.		Bid Bond	1
PERFORMANCE AND PAYMENT RECO	ORD .	P	& P Bond	1
CONTRACT FOR CONSTRUCTION			Contract	1
EPA SPECIFICATIONS INSERT			EPA	1
GENERAL PROVISIONS	:		GS	1
Definitions and Terms	• • • • •			1
Proposal Requirements a		s	•	4
Award and Execution of	Contracts			6
Scope of Work				9
Control of Work				17
Control of Materials				26
Responsibility to the I				29
Prosecution and Progres				36
Measurement and Payment	t ,			42
STANDARD SPECIFICATIONS Pipe materials and Test	ting for Sewe	rs. Drains	SS	1-P
and Culverts				1-P
Trench Excavation, Back	•	tion for		6 D
Sewers, Drains and				6-P 14-P
Pipe Laying, Jointing & Manholes for Storm & Sa	_			24-P
mannotes for Storm & Sa	anitary sewer	S		24 <b>-</b> P
SPECIAL SPECIFICATIONS				· .
Creek Crossing				
Cleanup and Site Restor	ration			
Bank Protection				

## CITY OF NEWBERG

OF FIRST STREET

TELEPHONE 538-9421

NEWBERG, OREGON 97133

#### Gentlemen:

As a prospective contractor on the Hess Creek Sanitary Sewer Main your attention is requested concerning the special specifications in the contract documents; particularly that part concerning special or historic trees.

Easements along a portion of the project were granted upon the condition that these trees be interfered with as little as possible. I would suggest a personel inspection of the jobsite so you may plan your construction procedure accordingly.

For more information please contact my office 538-9421, ext. 25.

Sincerely,

Geörge Hall City Engineer

cc: All Hess Creek Sewer Main Bidders

#### PROPOSAL

To: Honorable Mayor and City Council
City Hall
Newberg, Oregon

The undersigned, hereinafter called the Bidder, declares that the only persons or parties interested in this Proposal are those named herein; that this Proposal is, in all respects, fair and without fraud; that it is made without collusion with any official of the Owner; and that the Proposal is made without any connection or collusion with any person making another proposal on this Contract.

The Bidder further declares that he has carefully examined the Contract Documents for the construction of the project; that he has personally inspected the site; that he has satisfied himself as to the quantities involved, including materials and equipment, and conditions of work involved, including the fact that the description of the quantities of work and materials, as included herein, is brief and is intended only to indicate the general nature of the work and to identify the said quantities with the detailed requirements of the Contract Documents; and that this Proposal is made according to the provisions and under the terms of the Contract Documents, which Documents are hereby made a part of this Proposal. The Bidder further declares that the provisions required by ORS 279.350 relating to prevailing wage rates shall be included in his Contract.

The Bidder further agrees that he has utilized all data which he believes pertinent from the Engineer, Owner, and other sources in arriving at his conclusions.

The Bidder agrees that if this Proposal is accepted, he will, within fifteen (15) calendar days after notification of acceptance, execute the Contract with the Owner in the form of Contract annexed hereto; and will, at the time of execution of the Contract, deliver to the Owner the Performance and Payment Bond required herein; and will, to the extent of his Proposal, furnish all machinery, tools, apparatus, and other means of construction and do the work and furnish all the materials necessary to complete the work in the manner, in the time, and according to the methods as specified in the Contract Documents and required by the Engineer thereunder.

The Bidder further agrees to begin work within ten (10) calendar days after the date of the execution of the Contract and to complete the construction, in all respects, of each schedule for which his Proposal is accepted, within calendar days after the date of the execution of the Contract by the Owner.

In the event the Bidder is awarded the Contract and shall fail to complete the work within the time limit or extended time limit agreed upon, as more particularly set forth in the Contract Documents, liquidated damages shall be paid to the Owner at the rate of per day until the work shall have been finished as provided by the Contract Documents. Sundays and legal holidays shall be excluded in determining days in default.

The Bidder further proposes to accept as full payment for the work proposed herein the amounts computed under the provisions of the Contract Documents and based on the following lump sum or unit price amounts, it being expressly understood that the unit prices are independent of the exact quantities involved. The Bidder agrees that the lump sum prices and the unit prices represent a true measure of the labor and materials required to perform the work, including all allowances for overhead and profit for each type and unit of work called for in these Contract Documents.

The amounts shall be shown in both words and figures. In case of a discrepancy, the amount shown in words shall govern.

## (If Sole Proprietor or Partnership)

day of	Dust	the undersigne	9 72.		
, ·			Signature of B	nidder Alexandria	- 
•	•		Title OW	N eR	
		(If Corpor	ation)		
to be execu	ted and its	seal affixed b	y its duly author	s caused this ins ized officers thi	S
to be execu	ted and its	seal affixed b	y its duly author	ized officers thi	S
to be execu	ted and its	seal affixed b	y its duly author	ized officers thi	S
to be execu	ted and its	seal affixed b	y its duly author	ized officers thi	S
to be execu	ted and its	seal affixed b	y its duly author	ized officers thi	S
to be execu	ted and its	seal affixed b	Name of Corpor	ized officers thi	S
to be execu	ted and its	seal affixed b	Name of Corpor	ized officers thi	S
to be execu	ted and its	seal affixed b	Name of Corpor	ized officers thi	S
to be execu	ted and its	seal affixed b	Name of Corpor	ized officers thi	S

(See "Compliance Statement" on next page)

The form of "Compliance Statement" appended hereto shall be executed by the Bidder and submitted as part of this Proposal. Bids received without the signed "Compliance Statement" will be considered as informal.

It is agreed that if the Bidder is awarded the Contract for the work herein proposed and shall fail or refuse to execute the Contract and furnish the specified Performance and Payment Bond within seven (7) calendar days after receipt of notification of acceptance of his Proposal, then, in that event, the bid security deposited herewith according to the conditions of the Advertisement for Bids and Information for Bidders shall be retained by the Owner as liquidated damages; and it is agreed that the said sum is a fair measure of the amount of damage the Owner will sustain in case the Bidder shall fail or refuse to enter into the Contract for the said work and to furnish the Performance and Payment Bond as specified in the Contract Documents. Bid security in the form of a certified check shall be subject to the same requirements as a bid bond.

If the Bidder is awarded a construction of the Bidder is awarded a construction of the Burney who will provide the Performance		
It ideal dusine		whose address is
Street,	N Y	, <i>W</i> V
Street	City	State /
		•
The name of the Bidder who is su	bmitting this Propos	sal is
Richard T Robertson		doing business at
Richard T Robertson  3906 E8th	VAN.	WASh.
Street	City	State
which is the address to which all com and with the Contract shall be sent.	munications concerne	ed with this Proposal
The names of the principal office Proposal, or of the partnership, or of as principals are as follows:		
Richard + Robertson		
	. •	

## 12" Sanitary Sewer

			Unit Price		Total Amt. Quan. x Unit Price
Item	Quantity	Unit of Measure	or Lump Sum Figures	Unit Price or Lump Sum in Writing	or Lump Sum
TRENCH EXCAVA			11 5 5	For della Thut	5 025,13
Class "A"	1196.46	lin. ft.	4.20	NONE NONE	NONE
Class "B"	NONE	lin. ft.	NONE NONE	NONE	NONE
Class "C"	NONE	_cubic yd.	NONE		
Class "D"	NONE	_cubic yd.	24.		
PIPE BEDDING					NONE
Class "A"	NONE	lin. ft.	NONE	NONE	NONE
Class "B"	NONE	lin. ft.	NONE	NONE	NONE
Class "C"	1196.46	lin. ft.	1.50	om lels fife	1794.69
COMPACTION OF	TRENCH BAC	KFILL			
	lement NONE		NONE	NONE	NONE
	Compaction	<u>.</u>	1.00	one sheller	1196.46
	1196.4				•
TOPSOIL REMOV	΄ Δ <b>Τ</b> .				
Replacemen	<del></del> .	cubic yd.	NONE	NONE	NONE
Replacemen	TONE	. custo yar			
LAWN REMOVAL					•
Replacemen	nt <u>NONE</u>	sq. yd.	NONE	NONE	NONE
PIPE				Extra Strength Concrete PIPE IN PLACE	
12 Inch		ASTM		4	
	1196.5	lin. ft.	4.20	For Alle Theta	5, 025,13 NONE
"Tees" NON	E NONE	each	NONE	NONE	
Wves NON	NE NONE	each	NONE	NONE	NONE

## Manholes for 12" Pipe

<u>Item</u>	Quantity	Unit of Measure	Unit Price or Lump Sum <u>Figures</u>	Unit Price or Lump Sum in Writing	Total Amt. Quan. x Unit Price or Lump Sum
PRECAST CONC	RETE MANHOLES	(WITHOUT S	•	)	18000
:	5	Each	360. R	the holy sort life	1800.00
MANHOLE EXTE	NSION				
	21.3	ft.	35.00	the Tin lella	745.50
DROP CONNECT	ION .				
	NONE	ft.	NONE	NONE	NONE
* *					·
ADJUST EXIST	ING MANHOLE T	O GRADE			
	NONE	Each	NONE	NONE	NONE
	-				:
BREAK INTO E	XISTING MANHO	LE			
	1	Each	2 00.00	to heder	2 00.00

Unit little	
CREEK CROSSING # 1 with 10 inch cast iron pipe.	
XXX 700 50	800.00
CREEK CROSSING # 2 with 12 inch cast iron pipe.	800. oc
CREEK CROSSING # 3 with 12 inch cast iron pipe.	
	5 00 ,00_
NONE lin ft. NONE NONE  MANHOLE STUB 12 inch	NONE
1 each 40.00 July hely	40.00
MANHOLE STUB 8 inch  1 each 20.00 Ruty Ally	20.00
BANK PROTECTION  15 ton 20.00 tile dely	3 00.00

10



## CHUBB & SON INC.

Manager

90 John Street, New York, New York 10038

## FEDERAL INSURANCE COMPANY

**BID BOND** Bond No. Amount \$\_ Know all Men by these Presents, That we, RICHARD T. ROBERTSON (hereinafter called the "Principal"), as Principal, and the FEDERAL INSURANCE COMPANY, of the City of New York, New York, a corporation duly organized under the laws of the State of New Jersey, (hereinafter called the "Surety"), as Surety, are held and firmly bound unto CITY OF NEWBERG, OREGON, (hereinafter called the "Obligee"), Ten per cent (10%) of the total amount of the bid \_), for the payment of which sum well and truly to be made, we, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents. 5th Sealed with our seals and dated this A. D. nineteen hundred and seventy-two. WHEREAS, the Principal has submitted a bid, dated \_\_\_\_\_ September 5, 1972 for construction of HESS CREEK SANITARY SEWER NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a contract with the Obligee in accordance with such bid and give bond with good and sufficient surety for the faithful performance of such contract, or in the event of the failure of the Principal to enter into such contract and give such bond, if the Principal shall pay to the Obligee the difference, not to exceed the penalty hereof, between the amount specified in said bid and the amount for which the Obligee may legally contract with another party to perform the work covered by said bid, if the latter amount be in excess of the former, then this obligation shall be null and void, otherwise to remain in full force and effect.

	Pri	ıcipal	
y Rick	13	Rol	utin
•	·		
EDERAL I	NSURANC:	E COMPA	NY
		11:	
L. W. Ne	ff Attor	vey-in-fa	ct
<b>L</b>		, , , , , ,	
nd	20		

18,246,91

TOTAL AMOUNT OF BID

Oregon law requires a statement as to financial ability, equipment, and experience to be completed and submitted by prospective contractors bidding on contracts for public improvement, the estimated cost of which is \$10,000, or over. No contractor is eligible to bid until this statement has been submitted.

The information submitted in this prequalification form to the public officer or public subdivision named below will be regarded as confidential.

The following form has been prepared for use in prequalification of contractors on this work.

CONTRACTOR'S PREQUALIFICATION FORM	
$\mathcal{C}_{\mathcal{C}}$	
Subbitted to:	A Corporation
	A Partnership
Ву:	An Individual
pa <u>'</u>	An Individual
9 · E · .	
Principal Office:	
$\mathbf{T}_{i}^{i}$	
EXPERIENCE QUESTIONNAIRE	
WE	an a company to an-
1. How many years has your organization been in business	as a general con-
tractor under your present business name?	
Pri Pri	
2. reflow many years' experience in dhas your organization had: (a) As a general contrac	construction work
dhas your organization had: (a) As a general contrac	tor,
(b) As a subcontractor	••
t.	
3. aWhat experience has your organization had in construc	tion of public improve-
laments?	
ar	
pay	· · · · · · · · · · · · · · · · · · ·
int	•
re	
C	
4. What other projects has your organization completed?	
	5 A 1 1
Contract Amount Class of Work When Completed Nam	e & Address of Owner
	•
	•
5. Have you ever failed to complete any work awarded to	you:
	•
If so, where and why?	
	· · · · · · · · · · · · · · · · · · ·

### UNITED PACIFIC



INSURANCE COMPANY

A MEMBER OF UNITED PACIFIC INSURANCE GROUP HOME OFFICE: TACOMA, WASHINGTON

# CERTIFICATE OF INSURANCE

In Effect on Date of This Certificate

This is to certify that the policy described below has been issued by the UNITED PACIFIC INSURANCE COMPANY, as insurer, only to the insured named below. Any requirements or any provisions in contracts or agreements between the insured and any other person, firm or corporation shall not enlarge, alter or amend the definition of insured or any of the terms, conditions, exclusions, or limitations of the policy described below. That policy, subject to all of its limitations of liability, coverages, hazards, exclusions, provisions, conditions and other terms, is in full force and effect as of the date this certificate was issued.

Name of insured

RICHARD T. ROBERTSON

Address of insured Policy Number CLP 7		h, Vancouver, M Effective 1/26/7	Expires	661 1/26/75 LIMITS OF LIABILIT	Y
MULTIPLE LIMIT PLAN: Bodily Injury Liability	Automobile Other than Automobile	\$100,000.00 \$100,000.00	Each Person \$30	0,000.00 0,000.00 0,000.00	Each Occurrence Each Occurrence Aggregate Products - Completed Operation
Property Damage Liability	Automobile Other than Automobile	\$100,000.00 \$100,000.00	Each Occurrence Each Occurrence \$10	0,000.00	Aggregate
SINGLE LIMIT PLAN:					
Bodily Injury Liability and Property Damage Liability	Automobile Other than Automobile	\$ \$	Each Occurrence Each Occurrence \$		Aggregate

In accordance with the above, the captioned policy insures the liability of the insured named above arising from (1) operations by or on behalf of the insured, or (2) premises or property used by or on behalf of the insured in connection with such operations; subject, however, to all the provisions, exclusions and limitations of the policy. JOB: Hess Creek Sewer Extension - Fulton Street to Villa Road. It is understood and agreed that this policy cannot be cancelled without first giving ten (10) days written notice to the City of Newberg, Oregon

The policy provides, under the Insuring Agreements, contractual liability coverage with respect to any contract or agreement wholly in writing. Such contractual coverage is subject to all the exclusions, conditions and other provisions of the policy.

#### NOTICE

This certificate is issued as a matter of information only and, as such, neither affords any insurance nor confers any rights upon the holder. It neither affirmatively nor negatively amends, extends or alters the coverage afforded by the policy identified above.

Except as specifically provided for in this certificate, United Pacific Insurance Company has no duty to notify the party to whom this certificate is addressed as to any changes or cancellation of the policy and shall not be be responsible for any failure to do so.

Pate September 13, 1972

 $^{\mathsf{To}}$  City of Newberg, Oregon

Address

Countersigned by MANSPIEVD & CO.



en de la composición Entre la composición de la composición

6.	for whom you have performed work, and the name of the individual to whom you refer.
7.	What is the construction experience of the principal individuals of your organization:
Ind	ividual's Present Position Yrs. of Construc- & Type of In What  Name or Office tion Experience Work Capacity?
8.	List the major items of equipment which you own or which will be available for use on the proposed work.
<del></del>	
9.	List below the contracts which you or your company or corporation have engaged in during the previous 10 years that required court action for settlement.
···	

CON'	IRACTOR'S FINANCIAL STATEMENT  Condition at close of business			19
			'	
	ASSETS			•
1.	Cash, including cash on hand, in ba		\$	
2. 3.	Notes receivable	contracts ovelucive of		
٦.	claims not approved for payment			
4.	Sums earned on uncompleted contract			
	Architect's estimate, including re			
5.	Accounts receivable other than cons			
6.	Deposits for bids or other guarante		·	
7. 8.	Interest accrued on loans, securiting Real Estate			
9.	Stocks and bonds			
10.	Materials in stock not included in			
11.	Equipment, book value			
12.	Furniture and fixtures, book value			
13.	Other assets			
		maral A	,	
		Total Assets	\$	
	LIABILITI	ES		
1.	Notes payable		\$	
2.	Accounts payable			
3. 4.	Real estate encumbrances	• • • • • • • • • • • • • • • • • • • •		
4. 5.	Other liabilities			<del></del>
6.	Capital stock paid up			
7.	Surplus (net worth)			
			\$ <del></del>	
		otal hisblittles	۶	
	CONTINGENT LIA	BILITIES		
1.	Liability on notes receivable, disc	ounted, or sold	\$	
2.	Liability on accounts receivable, posold			
3.	Liability as bondsman			
4.	Liability as guarantor on contracts	or on accounts of others	·	
5.	Other contingent liabilities			<del> </del>
•	Total Contin	gent Liabilities		
	The undergioned hereby dealeres th	at the formation that		
that	The undersigned hereby declares the the foregoing financial statement	is a true and accurate states	are ment	true and of the
tina	ancial condition of said firm.			
	Dated at		hio.	
day	Dated at, 19	, ti	TITS -	
•		-		
		Oncoringtion	<del></del>	
		Organization		
			_	•
		Bv	•	

## Bidder's Affidavit

# AFFIDAVIT FOR INDÍVIDUAL

STATE OF	·{
COUNTY OF	) SS.
sworn, depose and say that the foregone books, is a true and accurate statement date thereof, and that the answers to are true; that the statements and answent questionnaire are correct and true.	, being duly ing financial statement, taken from my at of my financial condition as of the the interrogatories contained therein swers to the interrogatories of the equipte as of the date of this affidavit; and a interrogatories of the foregoing expertue as of the date of this affidavit.
	(Applicant must also sign here)
Subscribed and sworn to before me	e this day of,
19	
My Commission Expires:	Notary Public
STATE OFCOUNTY OF	OPARTNERSHIP ) ) SS )
I,	, being duly
ment, taken from the books of said firm the financial condition of said firm a answers to the interrogatories contain ments and answers to the interrogators correct and true as of the date of the	, and that the foregoing financial state- rm, is a true and accurate statement of as of the date thereof, and that the ned therein are true; that the state- ies of the equipment questionnaire are is affidavit; and that the statements the foregoing experience questionnaire
	(Member of firm must also sign here)
Subscribed and sworn to before me	
My Commission expires:	Notary Public

## AFFIDAVIT FOR CORPORATION

STATE OF	
)\$	S
COUNTY OF	•
Ι,	, being duly
sworn, depose and say that I am	, of the
	the corporation
described herein and which executed th	e foregoing statement; that I am familiar
with the books of the said corporation	showing its financial condition; that
the foregoing financial statement, tak	en from the books of said corporation
is a true and accurate statement of th	e financial condition of said corporation
as of the date thereof, and that the a	inswers to the interrogatories of the
equipment questionnaire are correct an	d true as of the date of this affidavit;
and that the statements and answers to	the interragatories of the foregoing
experience questionnaire are correct a	and true as of the date of this affidavit.
	(Officer must also sign here)
Subscribed and sworn to before me	this,
19	
	77 1 3 7
	NATARY RUBIIC
	Notary Public
My Commission expires:	Notary radice
My Commission expires:	NOCATY TROFIC

# CONTRACTOR'S COMPLIANCE STATEMENT (Executive Order #11246)

		D D	ate	Sept.		1972
This statement	related to a	a proposed co	ntract wit	h <u>Cit</u>	7 0	F Newber
	(Namo	of borrower	or grante	e)		
I am the	undersigned b	oidder or pro	spective c	ontractor.	I repr	esent that:
	have, bcontract sub yment opportu	Jees so mice	TETAC OTCE	L IIZ40 CP	varnino	6/1191
						• •
		Ribert	3	Robertra		
		Signature of	Bidder o	Prospecti	ve Cont	ractor
3906	E 8 M		. 15			
Address	W M3h s (Including S	986 Zip Code)	<u> </u>			

## PERFORMANCE AND PAYMENT BOND

KNOW ALL MEN I	BY THESE PRESENT	'S, that w	re			
e de la companya de La companya de la co	RICHARD T. ROE	ERTSON	•			
as Principal, and	FEDERAL	INSURANCE	COMPANY			
					, , , ,	
a corporation, dul Surety, are jointl	y authorized to y and severally	do a gene	eral surety bound unto	business	in Oregon,	as
		NEWBERG,				
					<b>t</b>	
the Obligee herein	, in the sum of	EIGHTE	EN THOUSAND	TWO HUNDR	ED FORTY-SI	X and
91/100 the payment of whitors, administrato	ch we jointly a	nd severa	ollars) (\$ lly bind ou	18,246.91 rselves, o	our heirs,	), fo
	OF THIS BOND I		•	·.		
WHEREAS,	RICHAI	RD T. ROBE	RTSON			
e de la companya de l		Cont	ractor			

the Principal herein, on the 14th day of September , 19 72 , entered into a Contract with the Obligee, which Contract Documents consist of the Advertisement for Bids, the Proposal, the Contract, the Performance and Payment Bond, the Information for Bidders, the Special Provisions, the General Conditions, the Specifications, and the Plans, all as hereto attached and made a part hereof, whereby said Principal undertakes to do all labor, furnish all plant and equipment, and furnish all material, in accordance with all the terms and conditions set forth in said Contract Documents; and to promptly make payment for all labor, services, material, and sums due the State Industrial Accident Commission, or equivalent, the Collector of Internal Revenue, and the Treasurer of the State of Oregon; and to save harmless the Obligee from any claim for damages or injury to property or persons arising by reason of said work, as set out more fully in said Contract Documents; and to do and perform all things in said Contract Documents required, in the time and manner and under the terms and conditions therein set forth; and in conformity with all laws, State and national, applicable thereto.

Now, therefore, if said Principal herein shall promptly pay all persons furnishing labor, services, and material, and Industrial Accident Insurance or equivalent, and Social Security and Unemployment Compensation, to him and to his subcontractor, or to their assigns, on or about said work; and shall, commencing with the date hereof and continuing for one (1) year after the complete performance of the Contract and the final acceptance of the work in

the Contract, save harmless the Obligees, its officers and agents, from all claims therefor, or from any claim for damages or injury to property or persons arising by reason of said work; and shall, in the time and manner, and under the terms and conditions prescribed, well and faithfully do, perform, and furnish all matters and things as by them in said Contract undertaken, and as by law, State and National, prescribed, then this obligation shall be void; but otherwise it shall remain in full force and effect.

 $\ensuremath{\text{PROVIDED}}$  ,  $\ensuremath{\text{HOWEVER}}$  , that this Bond is subject to the following further conditions.

- (a) All materialmen, and all persons who shall supply such laborers, mechanics, or subcontractors with material, supplies, or provisions for carrying on such work, shall have a direct right of action against the Principal and Surety on this Bond, second only to the right of the Obligee under this Bond, which right of action shall be asserted in proceedings instituted in the appropriate court of the State of Oregon, and insofar as permitted by the laws of Oregon, such right of action shall be asserted in a proceeding instituted in the name of the Obligee to the use and benefit of the person, firm, or corporation instituting such action and of all other persons, firms, or corporations having claims hereunder, and any other person, firm, or corporation having a claim hereunder shall have the right to be made a party to such proceeding (but not later than one (1) year after the complete performance of said Contract and final acceptance of the work in the Contract) and to have such claim adjudicated in such action and judgment rendered thereon.
- (b) In no event shall the Surety be liable for a greater sum than the penalty of this Bond.
- (c) The said Surety, for the value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the Specifications accompanying the same shall in any way affect its obligations on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the Specifications.
- (d) The Principal herein shall faithfully and truly observe and comply with the terms of the Contract and shall well and truly perform all matters and things by him undertaken to be performed under said Contract upon the terms proposed therein and shall promptly make payments to all persons supplying labor or material for any prosecution of the work provided for in such Contract and shall not permit any lien or claim to be filed or prosecution against the obligees, on account of any labor or material furnished, and shall promptly pay all contributions or amount due the State Industrial Accident Commission or equivalent and all contributions or amounts due the State Employment Compensation Trust Fund incurred in the performance of said Contract, and shall also pay all sums of money withheld from the employees and payable to the State Tax Commission pursuant to ORS 316.711 and shall promptly, as due,

make payment to any person, copartnership, association or corporation furnishing medical, surgical and hospital care or other needed care and attention incident to sickness or injury to the employées of such Principal, pursuant to the laws of this State and any contract entered into pursuant thereto or collected or deducted from the wages of said employees pursuant to any law, contract, or agreement for the purpose of providing or paying for such services, and shall do all things required of said Principal by the laws of this State.

This Bond is given and received under the authority of ORS Chapter 279, the provisions of which hereby are incorporated into this Bond and made a part hereof.

cuted in	Portland, (		this 14th	day of
September	,	19 <b>72</b> .		
	· · · · · · · · · · · · · · · · · · ·		RICHARD T. ROBERTSON	(SEAL)
			By Duky 7 Oa	Plen (SEAL)
				(SEAL)
				(SEAL)
			Principal	
Witnesses:	Noble	· · · · · · · · · · · · · · · · · · ·	FEDERAL INSURANCE COMPANY	(SEAL)
Hancy Ma	Licar		BY SELFONS	(SEAL)
			L. W. Neff, Anyorney	-in-fact (SEAL)
			Surety	
Countersigned:				
Resident Ag		<del></del>		To the state of th

The Attorney-in-Fact (Resident Agent), who executes this Bond in behalf of the Surety Company, must attach a copy of his power-of-attorney as evidence of his authority.

To each executed original of this Bond there must be attached a <u>complete</u> set of the "Contract Documents", as the term is defined in the General Conditions, with all corrections, interlineations, signatures, etc., completely reproduced therein.

L. W. Neff, 2828 SW Corbett St., Portland, Oregon 97201

Certified Copy of

### POWER OF ATTORNEY

Know all Men by these Presents, That the FEDERAL INSURANCE COMPANY, 90 John Street, New York, New York, a New Jersey Corporation, has constituted and appointed, and does hereby constitute and appoint

> A. G. Mansfield Hilary L. Kennedy J. P. Barnes L. W. Neff Portland, Oregon

each its true and lawful Attorney-in-Fact to execute under such designation in its name and to affix its corporate seal to and deliver for and on its behalf as surety thereon or otherwise, bonds of any of the following classes, to-wit:

- 1. Bonds and Undertakings (other than Fiduciary Bonds) filed in any suit, matter or proceeding in any Court, or filed with any Sheriff or Magistrate, for the doing or not doing of anything specified in such Bond or Undertaking, in which the penalty of the bond or undertaking does not exceed the sum of One Hundred Thousand Dollars (\$100,000.00).
- 2. Surety Bonds to the United States of America or any agency thereof, including those required or permitted under the laws or regulations relating to Customs or Internal Revenue; License and Permit Bonds or other indemnity bonds under the laws, ordinances or regulations of any State, City, Town, Village, Board or other body or organization, public or private; bonds to Transportation Companies, Lost Instrument bonds, Lease bonds, Workmen's Compensation bonds, Miscellaneous Surety bonds and bonds on behalf of Notaries Public, Sheriffs, Deputy Sheriffs and similar public officials.
- 3. Bonds on behalf of contractors in connection with bids, proposals or contracts.

In Witness Whereof, the said FEDERAL INSURANCE COMPANY has, pursuant to its By-Laws, caused these presents to be signed by its Vice President and Assistant Secretary and its corporate seal to be hereto affixed this day of January 19

FEDERAL INSURANCE COMPANY

Frederick C. Gardner Vice-President

Walter LaForge

Assistant Secretary

STATE OF NEW YORK

County of New York

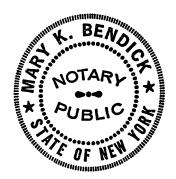
SS.:

On this 1st day of January 1970, before me personally came Walter LaForge, to me known and by me known to be Assistant Secretary of the FEDERAL INSURANCE COMPANY, the corporation described in and which executed the foregoing Power of Attorney and the said Walter LaForge being by me duly sworn, did depose and say that he resides in the City of New York, in the State of New York; that he is Assistant Secretary of the FEDERAL INSURANCE COMPANY and knows the corporate seal thereof; that the seal affixed to the foregoing Power of Attorney is such corporate seal and was thereto affixed by authority of the By-Laws of said Company and that he signed said Power of Attorney as Assistant Secretary of said Company by like authority; that he is acquainted with Frederick C. Gardner and knows him to be Vice President of said Company, and that the signature of said Frederick C. Gardner subscribed to said Power of Attorney is in the genuine handwriting of said Frederick C. Gardner and was thereto subscribed by authority of said By-Laws and in deponent's presence. to subscribed by authority of said By-Laws and in deponent's presence.

> Acknowledged and Sworn to before me on the date above written

Notary Public

MARY K. BENDICK
Notary Public, State of New York
No. 24-0237960
Qualified in Kings County
Certificate filed in New York County Commission Expires March 30, 1971



#### CITY AND COUNTY OF NEW YORK: ss.

I, the undersigned, Assistant Secretary of the FEDERAL INSURANCE COMPANY, do hereby certify that the following is a true excerpt from the By-Laws of the said Company as adopted by its Board of Directors on March 11, 1953 and amended January 2, 1964 and that this By-Law is in full force and effect.

#### "ARTICLE XIX.

Section 2. All bonds, undertakings, contracts, powers of attorney, and other instruments other than as above, for and on behalf of the Company which it is authorized by law or its charter to execute, may and shall be executed in the name and on behalf of the Company either by the Chairman or the Vice-Chairman or the President or a Vice-President, jointly with the Secretary or an Assistant Secretary, under their respective designations, except that any one or more officers or attorneys-in-fact designated in any resolution of the Board of Directors or the Executive Committee, or in any power of attorney executed as provided for in this section, may execute any such bond, undertaking, or other obligation as provided in such resolution or power of attorney."

And I further certify that I have compared the foregoing copy of the POWER OF ATTORNEY with the original thereof and the same is a correct and true copy of the whole of said original Power of Attorney and that said Power of Attorney has not been revoked.

And I further certify that said FEDERAL INSURANCE COMPANY is duly licensed to transact fidelity and surety business in each of the States of the United States of America, Puerto Rico, and each of the Provinces of Canada with the exception of Prince Edward Island; and is also duly licensed to become sole surety on bonds, undertakings, etc., permitted or required by law.

Given under my hand	d and seal of said Company a	New York, N. Y., this	14th	day of
September	72	. /	0',	
	·	: <u>L</u> .	Richard	Por
			ant Secretary	•••••••••••••••••••••••••••••••••••••••

#### CONTRACT FOR CONSTRUCTION

THIS CONTRACT, made and entered into this 14th day of September

19 <b>72</b> , by and between the Cit	y of Newbers	g, Orego	on, a mun	icipal co	rporation,
hereinafter called the "Owner",	and <u>RICHA</u>	ARD T. R	OBERTSON		
of Vancouver, Was	hington				
hereinafter called the "Contrac				•	
WITNESSETH:	,				
	e to do all s es, machiner	the worl y, and a ON STREE	k and fur appurtena I <b>T TO VIL</b> I	nish all nces for _A ROAD 19	the material the construc
Documents referred to herein.			•		
The "Advertisement for Bid	is", the sig	ned copy	y of the	"Proposal	l" made
by the Contractor on the 14th	day of	Septe	ember	, 19	72 , the
fully executed "Performance and	d Payment Bo	nd", the	e "Inform	nation for	Bidders",
the "'Special Provisions", the '	'General Con	ditions	" <b>, t</b> he "S	Specificat	ions", and
the "Plans", which consist of 4	4 shects ent	itled "	City of N	Wewberg,	and the second s

dated , are hereby referred to and by reference made a part of this Contract as fully and completely as if the same were fully set forth herein and are mutually cooperative therewith.

In consideration of the faithful performance of the work herein embraced, as set forth in these Contract Documents, and in accordance with the direction of the Engineer and to his satisfaction to the extent provided in the Contract Documents, the Owner agrees to pay to the Contractor the amount bid as adjusted in accordance with the Proposal as determined by the Contract Documents, or as otherwise herein provided, and based on the said Proposal made by the Contractor, and to make such payments in the manner and at the times provided in the Contract Documents.

The Contractor agrees to complete the work within the time specified herein and to accept as full payment hereunder the amounts computed as determined by the Contract Documents and based on the said Proposal.

The Contractor agrees to indemnify and save harmless the Owner from any and all defects appearing or developing in the materials furnished and the workmanship performed under this Contract for a period of one (1) year after the date of acceptance of the work in the Contract by the Owner.

The provisions required by ORS 279.350 relating to prevailing wage rates are made a part of this Contract as completely as if the same were fully set forth herein.

In the event that the Contractor shall time limit or the extended time limit	fail to complete the work within the agreed upon, as more particularly set dated damages shall be paid at the rate per day. Sundays
IN WITNESS WHEREOF, We, the parti same this14th day of Septe	es hereto, each herewith subscribe the mber , 19 72
	CITY OF NEWBERG, OREGON
	By: Jailsefelif
	By:
	Title: FINANCE OFFICER
	RICHARD T. ROBERTSON
	By: Contractor  By: Colly
Approved as to form:	Title: O wea
City Attack	

## BID BOND

f .	1 to . Chan a salta 1. Also Doston to a 1 and
	hereinafter called the Principal, and
	, a corporation duly organized under
the laws of the State of	, having its principal place
of business at	, in the State
of	, and authorized to do business
in the State of Oregon, as Sur	ety, are held and firmly bound unto the
	hereinafter called the Obligee in the penal
sum of	
	l and truly to be made, we bind ourselves, our ors, successors and assigns, jointly and severally,
	nd is such that, whereas, the Principal herein is Bid Proposal for
herewith submitting his or its	
now, THEREFORE, if the same be accepted, and the Contract Principal shall execute the prance Bond as required by the fixed by said Documents, then shall fail to execute the property bursty hereby agrees to passes	Bid Proposal for
NOW, THEREFORE, if the same be accepted, and the Contract Principal shall execute the prance Bond as required by the fixed by said Documents, then shall fail to execute the properties of the Surety hereby agrees to padamages.	see thereto, being hereby made a part hereof.  aid Bid Proposal submitted by the said Principal be awarded to said Principal, and if the said coposed Contract and shall furnish the Perform-Bidding and Contract Documents within the time this obligation shall be void, if the Principal bosed Contract and furnish the Performance Bond,
NOW, THEREFORE, if the same be accepted, and the Contract Principal shall execute the prance Bond as required by the Efixed by said Documents, then shall fail to execute the property damages.	ce thereto, being hereby made a part hereof.  aid Bid Proposal submitted by the said Principal be awarded to said Principal, and if the said coposed Contract and shall furnish the Perform-Bidding and Contract Documents within the time this obligation shall be void, if the Principal bosed Contract and furnish the Performance Bond, by to the Obligee the penal sum os liquidated
NOW, THEREFORE, if the same be accepted, and the Contract Principal shall execute the prance Bond as required by the Efixed by said Documents, then shall fail to execute the property damages.	ce thereto, being hereby made a part hereof.  aid Bid Proposal submitted by the said Principal be awarded to said Principal, and if the said coposed Contract and shall furnish the Perform-Bidding and Contract Documents within the time this obligation shall be void, if the Principal bosed Contract and furnish the Performance Bond, by to the Obligee the penal sum os liquidated
NOW, THEREFORE, if the same be accepted, and the Contract Principal shall execute the prance Bond as required by the Efixed by said Documents, then shall fail to execute the property damages.	ce thereto, being hereby made a part hereof.  aid Bid Proposal submitted by the said Principal be awarded to said Principal, and if the said coposed Contract and shall furnish the Perform-Bidding and Contract Documents within the time this obligation shall be void, if the Principal bosed Contract and furnish the Performance Bond, by to the Obligee the penal sum os liquidated
NOW, THEREFORE, if the same be accepted, and the Contract Principal shall execute the prance Bond as required by the Efixed by said Documents, then shall fail to execute the property damages.	ce thereto, being hereby made a part hereof.  Aid Bid Proposal submitted by the said Principal be awarded to said Principal, and if the said roposed Contract and shall furnish the Perform-Bidding and Contract Documents within the time this obligation shall be void, if the Principal bosed Contract and furnish the Performance Bond, ay to the Obligee the penal sum os liquidated  Aday of, 19  Principal
NOW, THEREFORE, if the same be accepted, and the Contract Principal shall execute the prance Bond as required by the Efixed by said Documents, then shall fail to execute the property damages.	se Bid Proposal for  the thereto, being hereby made a part hereof.  The did Bid Proposal submitted by the said Principal be awarded to said Principal, and if the said coposed Contract and shall furnish the Perform-Bidding and Contract Documents within the time this obligation shall be void, if the Principal bosed Contract and furnish the Performance Bond, any to the Obligee the penal sum os liquidated
herewith submitting his or its said bid Proposal, by reference NOW, THEREFORE, if the same be accepted, and the Contract Principal shall execute the prance Bond as required by the Fixed by said Documents, then shall fail to execute the properthe Surety hereby agrees to padamages.  Signed and sealed this	ce thereto, being hereby made a part hereof.  Aid Bid Proposal submitted by the said Principal be awarded to said Principal, and if the said roposed Contract and shall furnish the Perform-Bidding and Contract Documents within the time this obligation shall be void, if the Principal bosed Contract and furnish the Performance Bond, ay to the Obligee the penal sum os liquidated  Aday of, 19  Principal
NOW, THEREFORE, if the same be accepted, and the Contract Principal shall execute the prance Bond as required by the fixed by said Documents, then shall fail to execute the properties of the Surety hereby agrees to padamages.	the thereto, being hereby made a part hereof.  The thereto, being hereby made a part

#### PERFORMANCE AND PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS, that we

as Principal, and		
a corporation, duly authorized to do Surety, are jointly and severally hel		on, as
the Obligee herein, in the sum of		
	(Dollars) (\$	), for
tors, administrators, successors, and THE CONDITION OF THIS BOND IS SU WHEREAS,	JCH THAT	5 :
the Principal herein, on the entered into a Contract with the Oblithe Advertisement for Bids, the Propo Payment Bond, the Information for Bid Conditions, the Specifications, and to made a part hereof, whereby said Principall plant and equipment, and furnish terms and conditions set forth in sai make payment for all labor, services, Accident Commission, or equivalent, to Treasurer of the State of Oregon; and claim for damages or injury to proper work, as set out more fully in said Call things in said Contract Documents the terms and conditions therein set	igee, which Contract Documents consosal, the Contract, the Performance dders, the Special Provisions, the the Plans, all as hereto attached ancipal undertakes to do all labor, all material, in accordance with a dd Contract Documents; and to prove material, and sums due the State the Collector of Internal Revenue, and to save harmless the Obligee from the original process of the Contract Documents; and to do and so required, in the time and manner	sist of e and General and furnish all the mptly Industrial and the om any f said perform and under

Now, therefore, if said Principal herein shall promptly pay all persons furnishing labor, services, and material, and Industrial Accident Insurance or equivalent, and Social Security and Unemployment Compensation, to him and to his subcontractor, or to their assigns, on or about said work; and shall, commencing with the date hereof and continuing for one (1) year after the complete performance of the Contract and the final acceptance of the work in

State and national, applicable thereto.

the Contract, save harmless the Obligees, its officers and agents, from all claims therefor, or from any claim for damages or injury to property or persons arising by reason of said work; and shall, in the time and manner, and under the terms and conditions prescribed, well and faithfully do, perform, and furnish all matters and things as by them in said Contract undertaken, and as by law, State and National, prescribed, then this obligation shall be void; but otherwise it shall remain in full force and effect.

PROVIDED, HOWEVER, that this Bond is subject to the following further conditions.

- (a) All materialmen, and all persons who shall supply such laborers, mechanics, or subcontractors with material, supplies, or provisions for carrying on such work, shall have a direct right of action against the Principal and Surety on this Bond, second only to the right of the Obligee under this Bond, which right of action shall be asserted in proceedings instituted in the appropriate court of the State of Oregon, and insofar as permitted by the laws of Oregon, such right of action shall be asserted in a proceeding instituted in the name of the Obligee to the use and benefit of the person, firm, or corporation instituting such action and of all other persons, firms, or corporations having claims hereunder, and any other person, firm, or corporation having a claim hereunder shall have the right to be made a party to such proceeding (but not later than one (1) year after the complete performance of said Contract and final acceptance of the work in the Contract) and to have such claim adjudicated in such action and judgment rendered thereon.
- (b) In no event shall the Surety be liable for a greater sum than the penalty of this Bond.
- (c) The said Surety, for the value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the Specifications accompanying the same shall in any way affect its obligations on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the Specifications.
- (d) The Principal herein shall faithfully and truly observe and comply with the terms of the Contract and shall well and truly perform all matters and things by him undertaken to be performed under said Contract upon the terms proposed therein and shall promptly make payments to all persons supplying labor or material for any prosecution of the work provided for in such Contract and shall not permit any lien or claim to be filed or prosecution against the obligees, on account of any labor or material furnished, and shall promptly pay all contributions or amount due the State Industrial Accident Commission or equivalent and all contributions or amounts due the State Employment Compensation Trust Fund incurred in the performance of said Contract, and shall also pay all sums of money withheld from the employees and payable to the State Tax Commission pursuant to ORS 316.711 and shall promptly, as due,

make payment to any person, copartnership, association or corporation furnishing medical, surgical and hospital care or other needed care and attention incident to sickness or injury to the employees of such Principal, pursuant to the laws of this State and any contract entered into pursuant thereto or collected or deducted from the wages of said employees pursuant to any law, contract, or agreement for the purpose of providing or paying for such services, and shall do all things required of said Principal by the laws of this State.

This Bond is given and received under the authority of ORS Chapter 279, the provisions of which hereby are incorporated into this Bond and made a part hereof.

IN WITNESS WHEREOF, the parties have in	ereto have caused this Bond to be, this day of
, 19	
	. /
	Principal
itnesses:	
	Surety
ountersigned:	
Зу:	
Resident Agent	

The Attorney-in-Fact (Resident Agent), who executes this Bond in behalf of the Surety Company, must attach a copy of his power-of-attorney as evidence of his authority.

To each executed original of this Bond there must be attached a <u>complete</u> set of the "Contract Documents", as the term is defined in the General Conditions, with all corrections, interlineations, signatures, etc., completely reproduced therein.

#### CONTRACT FOR CONSTRUCTION

THIS CONTRACT, made and entered filto this,
9, by and between the City of Newberg, Oregon, a municipal corporation,
ereinafter called the "Owner", and
eremarter carred the owner, and
f
ereinafter called the "Contractor."
WITNESSETH:
Said Contractor, in consideration of the sum of be paid him by the said wner and of the covenants and agreements herein contained, hereby agrees at is own proper cost and expense to do all the work and furnish all the materials cols, labor, and all appliances, machinery, and appurtenances for the construction of
, 19, all in full compliance with the Contract
ocuments referred to herein.
ocuments referred to herein.
The "Advertisement for Bids", the signed copy of the "Proposal" made y the Contractor on the day of, 19, the ully executed "Performance and Payment Bond", the "Information for Bidders", he "Special Provisions", the "General Conditions", the "Specifications", and he "Plans", which consist of 4 sheets entitled "City of Newberg,
, are hereby referred to and by reference ade a part of this Contract as fully and completely as if the same were fully et forth herein and are mutually cooperative therewith.

In consideration of the faithful performance of the work herein embraced, as set forth in these Contract Documents, and in accordance with the direction of the Engineer and to his satisfaction to the extent provided in the Contract Documents, the Owner agrees to pay to the Contractor the amount bid as adjusted in accordance with the Proposal as determined by the Contract Documents, or as otherwise herein provided, and based on the said Proposal made by the Contractor, and to make such payments in the manner and at the times provided in the Contract Documents.

The Contractor agrees to complete the work within the time specified herein and to accept as full payment hereunder the amounts computed as determined by the Contract Documents and based on the said Proposal.

The Contractor agrees to indemnify and save harmless the Owner from any and all defects appearing or developing in the materials furnished and the workmanship performed under this Contract for a period of one (1) year after the date of acceptance of the work in the Contract by the Owner.

The provisions required by ORS 279.350 relating to prevailing wage rates are made a part of this Contract as completely as if the same were fully set forth herein.

based on the Proposal, shall be the day of 19  In the event that the Contractor shall fail to complete the work within the time limit or the extended time limit agreed upon, as more particularly set forth in the Contract Documents, liquidated damages shall be paid at the rate of per day. Sundays and legal holidays shall be excluded in determining days in default.  IN WITNESS WHEREOF, We, the parties hereto, each herewith subscribe the same this day of, 19  CITY OF NEWBERG, OREGON  By:  Title:  Contractor  By:  Title:  Approved as to form:	It is agreed that the time limit f	or the completion of the Contract,
In the event that the Contractor shall fail to complete the work within the time limit or the extended time limit agreed upon, as more particularly set forth in the Contract Documents, liquidated damages shall be paid at the rate of per day. Sundays and legal holidays shall be excluded in determining days in default.  IN WITNESS WHEREOF, We, the parties hereto, each herewith subscribe the same this day of  CITY OF NEWBERG, OREGON  By:  Title:  Contractor  By:  Title:  Approved as to form:		
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of and legal holidays shall be excluded in determining days in default.  IN WITNESS WHEREOF, We, the parties hereto, each herewith subscribe the same this day of, 19  CITY OF NEWBERG, OREGON  By:  Title:  Contractor  By:  Title:  Approved as to form:	time limit or the extended time limit a	greed upon, as more particularly set
and legal holidays shall be excluded in determining days in default.  IN WITNESS WHEREOF, We, the parties hereto, each herewith subscribe the same this day of, 19  CITY OF NEWBERG, OREGON  By:  Title:  Contractor  By:  Title:  Approved as to form:	forth in the Contract Documents, liquid	ated damages shall be paid at the rate
IN WITNESS WHEREOF, We, the parties hereto, each herewith subscribe the same this	of	
CITY OF NEWBERG, OREGON   By:	and legal holidays shall be excluded in	determining days in default.
CITY OF NEWBERG, OREGON   By:	THE COMPANY OF THE CO	
CITY OF NEWBERG, OREGON  By:  Title:  Contractor  By:  Title:  Title:		
By:	same this day or	
By:		
By:		CITY OF NEWBERG, OREGON
Title:  By:  Title:  Contractor  By:  Title:		,
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Title:Approved as to form:		Concractor
Approved as to form:		By:
Approved as to form:		
		Title:
City Attorney	Approved as to form:	
City Attorney		
City Attorney		
	City Attorney	

## 1. GEHERAL

Those requirements apply to all work for which Federal funds administered under Public Law 54-560, as amended, are used as any part of the payment for such work. In the event of conflict with other requirements of the specifications or contract, the following scipulations must be complied with but will be considered as minimum requirements. Any supplemental conditions, extensions or expansions of these requirements in other sections of the specifications are to be construed as a part of these requirements.

Where construction consists of replacement of, or modification to, an existing waste treatment facility, the contractor small take adequate measures to insure continuous treatment during construction and to prevent discharge of raw sewage into any water course. Where continuous treatment is not possible or feasible, a waiver must be obtained from EPA and the State water pollution control agency prior to disruption of treatment.

# 2. SUPPLEMENTAL INSTRUCTIONS FOR APPLICANTS, BIDDERS, PROSPECTIVE CONTRACTORS AND SUBCONTRACTORS - NONDISCRIMINATION IN EMPLOYMENT

Any applicant, bidder, prospective contractor or subcontractor who signs an invironmental Protection Agency (EPA) Construction Contract or an EPA Financially-Assisted Construction Contract in excess of \$50,000 assumes the obligation to take whatever affirmative action is required to assure equal employment opportunity in all aspects of employment irrespective of race, color, sex, religion, or national origin. Thus, any applicant receiving a grant from EPA must extend bid invitations to minority bidders or prospective contractors available in the project area or the area from which a majority of the work force is drawn, including but not limited to material suppliers, architects, skilled tradesmen, laborers, apprentices and other trainees.

The applicant will require that all bidders or prospective contractors submit with their initial bid an Affirmative Action Program and a Manpower Projection Report setting forth their anticipated work force and crafts to be used on the project and the anticipated minority composition and utilization of such work force and crafts. PLEASE NOTE: BIDS SUBMITTED TO APPLICANTS WITHOUT AN AFFIRMATIVE ACTION PROGRAM AND A MANPOWER PROJECTION REPORT WILL BE CONSIDERED NON-RESPONSIVE.

All bidders, prospective contractors and subcontractors bidding on work in areas subject to a <u>Hometown Plan</u>, <u>Imposed Plan</u>, <u>Imposed Bid Conditions</u> or <u>Court-Imposed</u>. Plan, regardless of the amount of the contract, must submit with their bid the appropriate Affirmative Action Plan and Goals and Time Table Report required in such plan or bid conditions. (See attached list of areas subject to the above Hometown Plans, etc.) <u>PLEASE NOTE</u>: <u>BIDS SUBMITTED TO APPLICANTS WITHOUT AND AFFIRMATIVE ACTION PROGRAM AND A GOALS AND TIME TABLE REPORT WILL BE CONSTRUCTED NOTE-RESPONDIVE</u>. The provisions set forth in the attached Affirmative Action. Program are furnished only as suggestions, and are not intended to limit the kinds of actions which may be taken. The applicant shall submit the above Affirmative Action Program, Goals a Time Table Report, or, where appropriate, a manpower Projection Report, of the low responsive bidders to EPA along with the Part B and supporting dhoumants for review and approval.

Within fifteen (15) days after receipt by EPA of both the Affirmative Action Program, Goals & Time Table Report, or, where appropriate, a Manpower Projection Report, a Pre-Construction Equal Opportunity Conference MAY be scheduled by EPA.

The applicant will require all bidders or prospective contractors submit with their initial bid a signed statement as to whether they have previously performed work subject to Executive Order 11246. The applicant will require that bidder or prospective contractors send the attached enclosure, "Notice to Labor Unions or Other Organization of Workers" to such labor unions and organizations to be contacted for work on the project.

The applicant will require successful bidders to submit written, signed statements from authorized agents of labor unions or pools with which they will or may deal for employees on the project. Such labor pools will certify that they will affirmatively cooperate in or offer no hindrance to the recruitment, employment and equal treatment of employees seeking employment and performing work under the contract (see attached E.E.O. Agreement). The successful bidder will certify as to what efforts have been made to secure such statements when such agents or labor union pools have failed or refused to furnish same prior to the award of the contract.

The applicant will require that all bidders or prospective contractors comply in all respects with the contract provisions regarding nondiscrimination as set forth in the Labor Standards Contract Provisions (see attached). The applicant will require all bidders or prospective contractors to include paragraphs (1) through (7) of Part II of Executive Order 11246 in every subcontract in excess of \$10,000 (see printing at the end of the Labor Standard Provisions).

The recruitment, training, or employment of minorities is a responsibility of the applicant, bidder, prospective contractor or subcontractor regardless of previous agreements with labor unions. The applicant, bidder, prospective contractor or subcontractor must satisfy the requirements of Executive Order 11246, even if it should mean that a successful bidder or subcontractor has to go outside of the union or other organization to recruit minorities in order to satisfy the requirements of Executive Order 11246. Discrimination in referral for employment, even if pursuant to provisions of a collective bargaining agreement, is prohibited by the National Labor Relations Act and Title VII of the Civil Rights Act of 1964.

The bidder or prospective contractor will require in every subcontract of \$10,000 or more a WRITTEN Affirmative Action Program with such modification of language as is necessary to obligate the prospective subcontractor to a program of affirmative action. Copies of such program will be kept at the successful bidder's job site for review of the EPA E.E.O. Representative or the appropriate Office of Federal Contract Compliance Representative (0.F.C.C.).

The successful bidder will submit to the EPA a monthly report after construction begins for the duration of the EPA construction or EPA-financially assisted construction contract indicating the number of minority and non-minority group employees currently engaged in each work classification required by the contract work. The attached Manpower Utilization Report will be submitted by the fifth of each month, Attention Equal Opportunity Division.

#### 3. SPECIFICATIONS FOR THE WORK

All work required by the contract shall be performed in accordance with the plans and specifications including alterations thereto as approved by the Environmental Protection Agency.

# 4. SAFETY AND REALTH STANDARDS AND ACCIDENT PREVENTION

United States Department of Labor Safety and Health Regulations for construction, 29 CFR 1518 of April 17, 1971 (Part II), are included here-in by reference.

The contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement shall apply continuously and not be limited to normal working hours.

The required and/or implied duty of the Engineer to conduct construction review of the contractor's performance does not, and is not intended to, include review of the adequacy of the contractor's safety measures in, on or near the construction site.

The contractor shall comply with the safety standards provisions of applicable laws, building and construction codes and the "Manual of Accident Prevention in Construction" published by the Associated General Contractors of America.

The contractor shall exercise every precaution at all times for the prevention of accidents and the protection of persons (including employees) and property.

The contractor shall maintain at his office or other well-known place at the job site, all articles necessary for giving first aid to the injured and shall make standing arrangements for the immediate removal to a hospital or a doctor's dare of persons (including employees) who may be injured on the job site. In no case, shall employees be permitted to work at a job site before the employer has made a standing arrangement for removal of injured persons to a hospital or a doctor's care.

### 5. FEDERAL, STATE AND LOCAL LAWS

The contractor shall conform to all applicable federal, state and local laws in carrying out his obligations under the contract.

#### 6. INSPECTION

The contractor shall provide proper facilities for and access to all work under the contract wherever it is in preparation or progress to representatives of the Environmental Protection Agency and the State agency charged with pollution responsibility.

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The contractor shall include all applicable provisions of this specification insert in all subcontracts for work to be performed under this contract.

#### 8. MATERIALS AND EQUIPMENT SUBSTITUTION

Wherever, in the plans and specifications, any item of equipment or material is designated by reference to a particular brand, manufacturer, or trade name, a product approved in writing as equal and acceptable by the engineer may be substituted by the bidder or contractor.

#### 9. BONDS AND INSURANCE

General. The contractor shall obtain, maintain during the life of the project, and provide copies to the owner of the following bonds and insurance policies which shall be obtained from surety and insurance companies licensed to do business in the State or States in which the project is located in the amounts and for the purposes stated and subject to the owner's approval. Bonds shall be obtained, and approved by the owner, prior to the execution of the formal contract. Insurance policies shall be obtained and approved by owner prior to the commencement of the work. Copies of evidence of renewal of bonds and insurance policies shall be obtained and furnished to the owner prior to expiration date of such bonds and insurance policies when these bonds and insurance policies are written for periods shorter than the life of the project.

- a. Performance and Payment Bond. Performance and Payment Bond at not less than 100% of the contract price for faithful performance of the contract and payment of all labor and materials furnished in connection with the contract or, where such single bond is not in compliance with state and/or local requirements, separate payment and performance bonds, each not less than 50% of the contract price for the same purposes.
- b. Workmen's Compensation and Employer's Liability Insurance. Workmen's Compensation and Employer's Liability Insurance in the amount and terms required by applicable statute for all employees engaged in work on the project under this contract, and in case of any such work sublet, the contractor shall require the subcontractor similarly to provide Workmen's Compensation Insurance for all the latter's employees to be engaged in such work unless such employees are covered by the protection afforded by the contractor's Workmen's Compensation Insurance. In case any class of employees engaged in hazardous work on the project under this contract is not protected under the workmen's compensation statute, the contractor shall provide and shall cause each subcontractor to provide adequate employer's liability insurance for the protection of such of his employees as are not otherwise protected.
- c. Public Liability and Property Damage. Public Liability and Property Damage Insurance shall be provided by the contractor on behalf of himself and the owner against claims arising from his own or any subcontractor's operations including vehicular responsibility.

d. <u>Fire Insurance</u>. Fire Insurance shall be provided by the contractor where the engineer deems the improvements being constructed could be damaged by fire.

#### 10. COMPLETION DATE

If not stated elsewhere in these specifications, the contractor shall complete work under this contract within \_\_\_\_\_\_\*(working) \*(calendar) days. Time for completion shall begin on the 10th day after the issuance of the work order, which shall consist of a written request by the engineer for the contractor to proceed with the construction of the project.

#### 11. CERTIFICATION OF NONSEGREGATED FACILITIES

Contractors and Subcontractors, where contract awards exceed \$10,000, will be required to submit certifications of nonsegregated facilities as required by the May 9, 1967, order (32 F.R. 7439). (Please see below)

# NOTICE TO PROSPECTIVE FEDERALLY ASSISTED CONSTRUCTION CONTRACTORS

- a. A Certification of Nonsegregated Facilities, as required by the May 9, 1967, order (32 F.R. 7439, May 19, 1967) on Elimination of Segregated Facilities, by the Secretary of Labor, must be submitted prior to the award of a federally-assisted construction contract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity clause.
- b. Contractors receiving federally-assisted construction contract awards exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity clause will be required to provide for the forwarding of the following notice to prospective subcontractors for supplies and construction contracts where the subcontracts exceed \$10,000 and are not exempt from the provisions of the Equal Opportunity clause:

# NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR CERTIFICATIONS OF NONSEGREGATED FACILITIES

- a. A Certification of Nonsegregated Facilities, as required by the May 9, 1967, order (32 F.R. 7439, May 19, 1967) on Elimination of Segregated Facilities, by the Secretary of Labor, must be submitted prior to the award of a subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity clause.
- b. Contractors receiving subcontract awards exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity clause will be required to provide for the forwarding of this notice to prospective subcontractors for supplies and construction contracts where the subcontractors exceed \$10,000 and are not exempt from the provisions of the Equal Opportunity clause. (see the attached form, Certification of Nonsegregated Facilities.)

#### 12. PROJECT SIGN

The contractor shall furnish and install a sign for identification of this project.

In the event the applicant wishes to include the contractor's name on a separate sign which could be attached to the official clean water project sign, the words "An Equal Opportunity Employer" shall appear along with the contractor's name. If the contractor elects to erect his own firm project sign on the site, it must contain the words "An Equal Opportunity Employer." (See attached enclosure, CG-41 (Rev. 12/71) Project Sign Details)

#### LIST OF AREAS SUBJECT TO

#### HOMETOWN PLANS, IMPOSED PLANS, IMPOSED BID CONDITIONS,

#### AND COURT-IMPOSED PLANS

#### I. The Seattle-King County Imposed Bid Conditions

Geographical Area: King County, Washington

#### II. The Pasco or Southeastern Washington Plan

#### Geographical Area:

- (1) Benton County, Wash. (4) Grant County, Wash. (2) Franklin County, Wash. (as far as Hwy. #2)
- (3) Walla Walla County, Wash. (5) Southwest corner of Adams County, Wash.

#### III. The Spokane or Northeastern Washington Plan

#### Geographical Area:

Okanogan County, Wash. Spokane County, Wash. (11)Whitman County, Wash. (12)Boundary County, Idaho (2) Lincoln County, Wash. (13)Bonner County, Idaho (3) (4) Adams County, Wash. (14)Kootenia County, Idaho (15)Shoshone County, Idaho Stevens County, Wash. (5) Pend Oreille County, Wash. (16) Benewah County, Idaho (6) Columbia County, Wash. (17)Latah County, Idaho (7) (18)Clearwater County, Idaho (8) Garfield County, Wash. Nez Perce County, Idaho (19)(9) Asotin County, Wash. (20)Lewis County, Idaho · (10) Ferry County, Wash. (21) Idaho County, Idaho

Applicants, bidders, prospective contractors or subcontractors may, upon request, be provided copies of the above plans by calling EPA, Equal Opportunity Division at (206)442-1200, or by writing:

Environmental Protection Agency 1200 - 6th Avenue Seattle, Washington 98101 Attn: Alexander D. Hicks, Director Equal Opportunity Division

This listing will be kept up to date by the Environmental Protection Agency, Equal Opportunity Division

#### **SUGGESTED**

#### AFFIRMATIVE ACTION PROGRAM

The	(firm name)		, hereinafte	r known	as "The	Contractor"
or "this Company"	hereby agrees	to this p	lan for affi	rmative	action '	in meeting
its equal employm	ent opportunity	obligation	on pursuant	to Execu	itive uro	der 11246
as amended, and T	itle VI and VII	of the C	ivii kights	ACT OT I	904.	

#### 1. Equal Employment Opportunity Policy

It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color or national origin. Such action shall include; employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, preapprenticeship, and/or on-the-job training.

#### 2. Equal Employment Opportunity Officer

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• • • •			, as EE	Officer	with	full	author	ity 1	to	administer	and	promote
an	active	program c	of equal	employme	nt op	portu	nity.			•		

#### 3. <u>Dissemination of Policy</u>

- a. All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement the contractor's equal employment opportunity policy and contractual responsibilities. To insure that the above agreement will be met, the following actions will be taken as a minimum:
- b. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's equal employment opportunity policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.
- c. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer or other knowledgeable company official covering all major aspects of the contractor's equal employment opportunity obligations within thirty days following their reporting for duty with the contractor.
- d. The EEO Officer or appropriate company official will instruct all employees engaged in the direct recruitment of employees for the project relative to the methods followed by the contractor in locating and hiring minority group employees.

#### 4. Recruitment

- a. When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." He will insert all such advertisements in newspapers, or other publications, having a large circulation among minority groups in the area from which the project work force would normally be derived.
- b. The contractor will, to the fullest extent possible, conduct systematic and direct recruitment through public and private employee referral sources likely to yield minority group applicants, including, but not limited to, State employment agencies, schools, colleges and minority group organizations. To meet this requirement, the contractor will, through his EEO Officer, identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.
- c. The contractor will encourage his present employees to refer minority group applicants for employment by posting appropriate notices or bulletins in areas accessible to all such employees. In addition, information and procedures with regard to referring minority group applicants will be discussed with employees.

#### 5. Personnel Actions

- a. Wages, working conditions, and employee benefits shall be established and administered, and personnel action of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, or national origin. The following procedures shall be followed:
  - (1) The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.
  - (2) The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.
  - (3) The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.
  - (4) The contractor will investigate all complaints of alleged discrimination made to the contractor in connection with his obligations under this contract, will attempt to resolve such complaints, and will take

appropriate corrective action. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation the contractor will inform every complainant of all of his avenues of appeal.

#### 6. Training and Promotion

- a. The contractor will use his best efforts to locate, qualify and increase the skills of minority group employees and applicants for employment.
- b. Consistent with his manpower requirements and as permissible under Federal and State regulations, the contractor will make full use of training programs, i.e., preapprenticeship, apprenticeship, and/or on-the-job training programs for the geographical area of contract performance.
- c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.
- d. The contractor will periodically review the training and promotion potential of minority group employees and will encourage eligible employees to apply for such training and promotion.

#### 7. Unions

If the contractor relies in whole or in part upon unions as a source of his work force, he will use his best efforts to obtain the cooperation of such unions to increase minority group opportunities within the unions, and to effect referrals by such unions of minority group employees. Actions by the contractor will include the procedures set forth below:

- a. Use his best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members for membership in the unions and increasing the skills of minority group employees so that they may qualify for higher paying employment.
- b. Incorporate an equal employment opportunity clause into all union agreements to the end that such unions will be contractually bound to refer applicants without regard to their race, color, religion, sex, or national origin.
- c. In the event a union is unable or unwilling to refer applicants as requested by the contractor within the time limit set forth in the union agreement, the contractor will, through his recruitment procedures, fill the employment vacancies without regard to race, color, religion, sex, or national origin, making full efforts to obtain minority group persons.

#### 8. Subcontracting

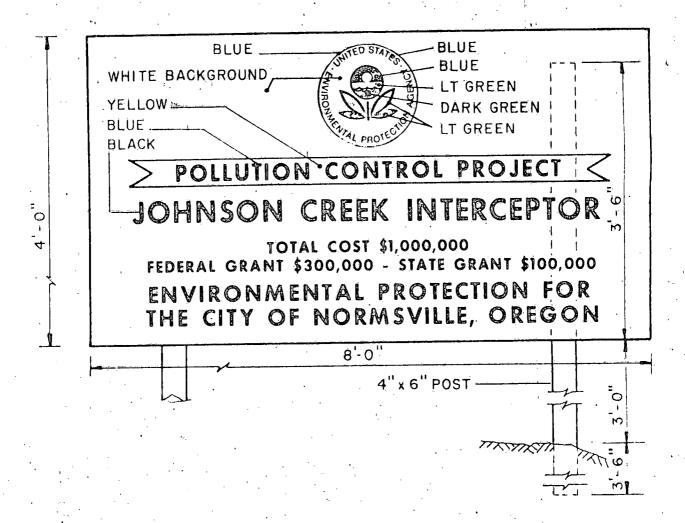
- a. The contractor will use his best efforts to utilize minority group subcontractors or subcontractors with meaningful minority group representation among their employees.
- b. The contractor will use his best efforts to assure subcontractor compliance with their equal employment opportunity obligations.

#### 9. Records and Reports

- a. The contractor will keep such records as are necessary to determine compliance with the contractor's equal employment opportunity obligations. The records kept by the contractor will be designed to indicate:
  - (1) The number of minority and nonminority group members employed in each work classification on each Federal or federally-assisted project. (see attached Goals & Time Table Report)
  - (2) The progress and efforts being made in cooperation with unions to increase minority group employment opportunities (applicable only to contractors who rely in whole or in part on unions as a source of their work force).
  - (3) The progress and efforts being made by the contractor in locating, hiring, training, qualifying and upgrading minority group employees.
  - (4) The progress and efforts being made in securing the services of minority group subcontractors or subcontractors with meaningful minority group representation among their employees.
- b. All such records will be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the Environmental Protection Agency (EPA).
- c. The contractor will submit to the Environmental Protection Agency a monthly report after construction begins for the duration of the EPA construction or EPA-financially assisted construction contract indicating the number of minority and nonminority group employees currently engaged in each work classification required by the contract work.
- d. The prime contractor will require in every subcontract of \$10,000 or more a WRITTEN Affirmative Action Program including all the requirements herein or with such modification of language as is necessary to obligate the subcontractor to a program of affirmative action. Copies of such program shall be kept at the prime contractor's office.

- 5 -

·		CONTRACTOR FIRM	
•		ВУ	
		FIRM ADDRESS	
		•	
DATE	•	•	



The contractor will be required to erect a sign constructed in accordance with the above sketch and the following specifications.

The sign shall be constructed of 3/4" exterior high density overlaid plywood or other approved weather resistant material.

It shall be placed in a prominent location at the project site and shall be maintained in good condition until completion of the project.

The sign is to be painted white with lettering and emblem colors as shown. The  $4" \times 6"$  posts shall be painted black.

Paint shall be exterior type. The lettering shall be applied by an experienced sign painter and shall be similar to "futura medium" style letters.

In the event that a project sign is required by other agencies, the information noted above may be incorporated therein.

# REGION X ENVIRONMENTAL PROTECTION AGENCY Manpower Projection Report for Affirmative Action

Prime Contractor Richard Ti Robertson	Contractor's EEO Designee <u>JAMBS</u> (CoBB)
Address 3406 East 81 5T	Tel # 695-7348
City VANCOUVER State CUASB	Location of Project <u>Newberg ORobon</u>

PRIME CONTRACTOR'S MALE EMPLOYEES			1	FEMALE EMPLOYEES						
PERMANENT WORK FORCE	:	<u> </u>	*** 11T/	IL TOAT!	ON		MI	NORITY UT	ILIZAT	i Span.
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Affirmative action taken or proposed to increase minority representation in permanent work force:

Acting Recumbing University Municipal

Organization. Jula Ulivara and personal Contact

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Affirmative Action taken or proposed to increase minority representation in the above trades:

# REGION X ENVIRONMENTAL PROTECTION AGENCY

#### UNIUN LUCALS

Graft or Trade	Local No.	Address	Total Membership	Total Minority
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What is the	population of th	e project area	LnK	Per	cent Minorii	ty CnK
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Available so	ources of minorit	y labor (1) <u>La</u>	bor Unions	(	2) Minouly	Jeongs.
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Subcontracto	ors notified of E	.E.O. requirem	ents: Ye	s N	0	:

Projected number of minorities to be it ized in all phases of	the	project
by the prime contractor and subcontractor.	• .	•

The suggested time frames for each phase are advisory and may vary according to the contractor's operating procedure

#### PHASE 1

#### (Start to 8 weeks)

	TOTAL EMPLOYEES	TOTAL MANHOURS	NUMBER OF MINORITY MANHOURS	% OF MINORITY MANHOURS OF TOTAL MANHOURS
CRAFT* Engineer	s			
Foremen				
Journeymen	3	960 .		
Apprentices				
Laborers				
Trainees				
CRAFT* Labour	<u> </u>			
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Journeymen	4'	1250	320	25%
Apprentices		<u> </u>		
Laborers		ļi		
Trainees		ļ		<u> </u>
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Laborers			·	
Trainees'				
TOTALS	18	2560	320	12%

<sup>\*</sup>Identify Trade

#### PHASE II

#### (8 weeks to 6 months)

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Laborers				
Trainees				
TOTALS ''	8	320	(vo	1270
the first the first the second second	1		P8904	

\*Identify Trade

Page 44

#### PHASE III

(6 months to completion)

distribution of the second of	TOTAL EMPLOYEES	TOTAL MANHOURS	NUMBER OF MINORITY MANHOURS	% OF MINORITY MANHOURS OF TOTAL MANHOURS
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TOTALS				
*Identify Trade				

Contractor's E.E.O. Designee

TAMES A. COBB Printed Name of E.E.O. Designee

5 Sept 1972 Date Signed

#### LABOR STANDARDS Contract Provisions

- (1) Minimum winges. (i) All mechanics end laborers employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payrol) deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amounts due at time of payment computed at wage rates not less than those contained in the wage determination decision of the necretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics; and the wage determination decision shall be posted by the contractor at the site of the work in a prominent place where it can be easily seen by the workers, For the phropose of this clause, contributions made or costs reunonably anticipated under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers of mechanics are considered waged paid to such laborers or mechanics, subject to the provinces of (1)(iv) heroof. Also for the purpose of this clause, regular contributions made or costs incurred for more than a weekly period under plans, funds, or programs, but covering the particular weekly period, are deemed to be or constructively made or inclined during buch weekly periods
- table remarks that any class of table renaments on mechanics which is not listed in the wage feters indicate and which is to be employed under the intract, shall be classified or reclassified comformably to the wage determination, and a report of the action taken sold be sent by the federal agency to the Secretary of labour. In the event the interested parties cannot agree on the proper classification or neclassification of a particular race of labours, and mechanics to be used, the question a comparised by the recommendation of the contracting life or shall be referred to the Secretary of Labor for final determination.
- can) The contracting efficer shall require whenever the minimum wage rate prescribed in the contract for a class of lab ters or mechanics includes a fringe benefit which is not expressed as an hourly wage rate and the contractor is contracted to pay a cash equivalent of such a fringe benefit, an hearly bash education thereof to be established. In the event the interested parties cannot agree upon a cash equivalent of the tringe benefit, the question, accompanied to the recommendation of the contracting officer, shall be retored to the Secretary of Labor for determination.
- (iv) If the contrector does not make payments to a trustee or other third person, he may consider as part of the wages of any laborer or machanic the amount of any costs reasonably anticipated in providing benefits under a plan of program of a type expressly listed in the wage determination decision of the Secretary of Labor which is a part of this contract: Provided, however, The Secretary of Labor had found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Lebor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.
  - (2) Withholding.
- The Federal Water Pollution Control Administration may withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics employed by the contractor or any subcontractor on the work, the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic employed or working on the site of the work ell or part of the wages required by the contract, the Federal Water Pollution Control Administration may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.
- (3) Phyrolis and basic records. (i) Payrolls and basic records relating thereto will be maintained during the course of the work and preserved for a period of three

- years thereafter for all laborers and mechanics working at the site of the work. Such records will contain the name and address of each such employee, his correct classification, rates of pay (including rates of contributions or costs anticipated of the types described in section 1 (b) (2) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found (as provided for by (1) (iv) hereof) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1 (b) (2) (B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.
- (ii) The contractor will submit weekly a copy of all payrolls to the applicant, sponsor, or owner, as the case may be. The copy shall be accompanied by a statement signed by the employer or his agent indicating that the payrolls are correct and complete, that the wage rates contained therein are not less than those determined by the Secretary of Labor and that the classifications set forth for each laborer or mechanic comform with the work he performed. A submission of a "Weekly Statement of Compliance" which is required under this contract and the Copeland regulations of the Secretary of Labor (29 CFR, Part 3) and the filing with the initial payroll or any subsequent payroll of a copy of any findings by the Secretary of Labor pursuant to (1) (iv) hereof shall satisfy this requirement. The prime contractor shall be responsible for the submission of copies of payrolls of all subcontractors. The contractor will make the records required under the labor standards clauses of the contract available for inspection by authorized representatives of the Federal Water Pollution Control Administration and the Department of Labor, and will permit such representatives to interview employees during working hours on the job.
- (4) Apprentices. Apprentices will be permitted to work as such only when they are registered, individually, under a. bona fide apprenticeship program registered with a State apprenticeship agency which is recognized by the Burnou of Apprenticeship and Training, United States Department of Lubor; or, if no such recognized agency exists in a State, under a program registered with the Bureau of Apprenticeship and Training, United States Department of Labor. The allowable ratio of apprentices to journeymen in any craft classification shall not be greater than the ratio permitted to the contractor as to his entire work force under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered as above, shall be paid the wage rate determined by the Secretary of Labor for the classification of work he actually performed. The contractor or subcontractor will be required to furnish to the contracting officer written evidence of the registration of his program. and apprentices as well as of the appropriate ratios and wage rates, for the area of construction prior to using any apprentices on the contract work.
- (5) Compliance with Copeland Regulations (2º CFR Part 3). The contractor shall comply with the Copeland Regulations (2º CFR Part 3) of the Secretary of Labor which are herein incorporated by reference.
- (6) Subcontracts. The contractor will insert in any subcontracts clauses (1) through (5) and (7) hereof and such other clauses as the Federal Water Pollution Control Administration may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts which they may enter into, together with a clause requiring this insertion in any further subcontracts that may in turn be made.

(7) Contract termination; debarment. A breach of clauses (1) through (6) may be grounds for termination of the contract, and for debarment as provided in Regulations of the Secretary of Labor at 29 CFR 5.6.

(8) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or pennit any laborer or mechanic in any workweek in which he is employed on such work to work in excess of eight hours in any calendar day or in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times his basic rate of pay for all hours worked in excess of eight hours in any calendar day or in excess of forty hours in such workweek, as the case may be.

(9) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (8), the contractor and any subcontractor responsible therefor shall be liable to any affected employee for his unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such district or such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic employed in violation of the clause set forth in paragraph (8), in the sum of \$10 for each calendar day on which such employee was required or permitted to work in excess of eight hours or in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (8).

(10) Withholding for unpaid wages and liquidated damages. The Federal Water Pollution Control Administration may withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor, such sums as may administratively be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (9).

(11) Subcontracts. The contractor shall insert in any subcontracts the clauses set forth in paragraphs (8), (9), and (10) hereof and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts which they may enter into, together with a clause requiring this insertion in any further subcontracts that may in turn be made.

## NONDISCRIMINATION PROVISIONS TO BE INCLUDED IN FEDERALLY ASSISTED CONSTRUCTION CONTRACTS

During the performance of this contract, the contractor agrees as follows:

(I) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading. demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship The contractor agrees to post in conspicuous places, available to employees and applicants for employment, no-tices to be provided setting forth the provisions of this nondiscrimination clause.

(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

(3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(4) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(5) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(6) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(7) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions including sanctions for noncompilance: Provided, however, That in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the on ministering agency the contractor may request the United State ter into such litigation to protect to interests of the United States.

# NOTICE TO LABOR UNIONS OR OTHER ORGANIZATION OF WORKERS

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# NONDISCRIMINATION IN EMPLOYMENT

To:
- (lange of union or or Sautsartion of workers)
The undersigned emreatly holds contract(s) with  (Rame of Applicant)  involving funds or credit of the U.S. Government of
(a) subvontract(s) with a prime contractor holding such contract(s).
You are advised that under the provisions of the above contract(s) or subcontract(n) and in accordance with Section 202 of Executive Order No. 11246 dated September 24, 1965, the undersigned is obliged not to discriminate against any employee or applicant for employment because of race, color, creed, or national origin. This obligation not to discriminate in employment includes, but is not limited to, the following
EMPLOYMENT, UPGRADING, TRAMSFER, OR DEMOTION
RECRUITING AMD ADVERTISING
RATES OF PAY OF OTHER FORMS OF COMPENSATION
SELECTION FOR TRAINING INCLUDING APPRENTICESHIP, LAYOFF OR
TERMINATION
This notice is furnished you pursuant to the provisions of the above contract(s) or subcontract(s) and Executive Order 11246.
Copies of this notice will be posted by the undersigned in conspicuous places available to employees or applicants for employment.
/s/
(Contractor or subcontractor)
(Date)
하는 성도 있는 사람들이 되는 경향에 가격한 사람이 있는 사람들이 되었다. 그를 <mark>사용하는 사람들이 가</mark> 셨다는 사람들이 가입니다.

#### ENVIRONNENTAL PROTECTION AGENCY

#### CERTIFICATION OF KONSTREECATED FACILITIES

(Applicable to federally designed construction contracts and related subcontracts exercises \$10,000 Chich are not except from the Equal Opposituaity clause.)

The federally assaisted constantion contractor certifies that he does not maine tain or provide for his caplogees any segregated facilities at any of his establicate. nents, and that he does not permit his captorees to perform their services at any location, under his control, where segregated facilities are maintained; federally assisted grantication contractor contains further that he will not maintain or provide for his apployers any segregated facilities, at any of his: establiffication and that he will not permit his employees to perform their services at any location, under his control, where segregated facilities are paintained. The Lederally assisted construction contractor agrees that a breach of this certification is a violation of the Liquel Opportunity clause in this contract, As used in this contification, the term "sepregated facilities" means any vaiting rooms, work areas, rept recas and wash rooms, restaurants and other eating oreas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or enterpainment areas, transportation, and housing facilities provided for employers which are segregated by explicit directive or are in fact segregated on the babis of race, creed, color, or national origin, because of habit, local ending, or fatherwise. The federally assisted construction confractor agrees that (exempt the hot be putained identical certifications from proposed contractors for specific fire poplods) be will obtain identical contilications from proposed unbroutregations prior to the award of subcontracts executing \$10,000 which are now except from the provisions of the Equal Opportunity clause, and that he will retain such certifications in his files.

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Name and Title of Signer (Please Type)

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.G. 1001.

# OPTIONAL FORM 66 Revised April 1971

As prescribed by the Dept. of Labor (OFCC)

MONTHLY MANPOWER UTILIZATION REPORT

(See reverse for instructions)

To: (Name and location of Compliance Agency)

Environmental Protection Agency Attn: Equal Opportunity Division 1200 Sixth Avenue

Seattle, Washington 98101

From; (Name and location of prime contractor)

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#### INSTRUCTIONS FOR FILING MANPOWER UTILIZATION REPORT

The Manpower Utilization Report is to be completed by the prime contractor and signed by a responsible official of the company. The Reports are to be filed on the day required, each month, during the term of the contract, and they shall include the total man-hours worked for each employee level in each designated trade for the entire reporting period. Send one copy of the completed Report to the Federal Completee Agency and a duplicate copy to:

	Mr. James F. Warren, Regional Director
	Area Coordinator
	Office of Federal Contract Compliance Address:
	Arcade Plaza Bldg. M/S 382
	1321 Second Avenue
	Seattle, Washington 9810!
	Jedger Ga Magazing
Compliance Agency	U.S. Government contracting or administering agency responsible for equal employment opportunity on the project.
Prime Contractor	Any contractor who has a construction contract with the U.S. Government or Applicant (See OFCC Regs. 60-1.3).
<ol> <li>Name of project</li></ol>	Name given in the invitation for bids.
3a Project number	Number assigned in the invitation for bids.
35. Percent project completed	Percent of total work completed.
3c. Date project completed	Date of estimated completion.
4. Name of company	Any contractor or subcontractor who employ the trades enumerated in paragraph of the (date)
5. % of project work completed	% project work contractor or subcontractor has completed
6. Trade	Only those crafts enumerated in paragraph of the (date) order.
7 Man-hours of employment	The total number of hours worked by all employees in each classification; and the total number of hours worked by each minority group (Negro, Spanish American, American Indian, and Oriental) in each classification.
- Classification · · · · · · · · · · · · · · · · · · ·	The level of accomplishment or status of the worker in the trade. ( J - Journeymen, H - Helper, Ap - Apprentice, Tr - Trainee)
8. Percent of minority man-hours of total man-hours	The percentage of total minority man-hours worked of all man-hours worked
9. Total no. of minority employees · · · ·	Number of minority employees working on job during reporting period.
10. Total no. of employees	Number of all employees working on job during reporting period.



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1 Gu-770 (Dresente) c (1-1)

FAIR NO. 10878.

A-New Year's Bay: F-Memorial Day: C-Independence Day: D-Labor Day:

E-Thanksgiving Day: F-Christmas Day.

FOUT.OFFS:

a. Employer credits 4: basse hourly rate of employee with over a years' service.

21. basic hourly rate from 6 membra to 5 years' service to Vacation Plan.

Six Paid Holidays: A through E.

b. 47. of all pross tages to be placed to the credit of employees with less.

than one year of services. 62 to employees with more than one year of service.

Dine Commingation - Gregor e (1) 33.02 .15 Cable Splinger; Deadmon Role Sprayer Eliceran; lade Sprayer; herry Line Equipment 7.24 6.54 6.74 1% .15 Hinny Cortified Lineuan weiger 16 .15 Tree Triange 12 Line Ecuiptent Lan Hood Groundman (Champer); Bood Groundman; 12.17 1% Pouderman; Jacksaner Man 5.45 .15 15. 18 5.15 .15 Groundsen; Trea Trimer Helper 4.93 .15 hole Digger

	1		1 11110	a retrief	ATHENTS	
	100	N <sub>M</sub> »,	Parame	Veranna	1 Ass Tr	00-
- Company of the Comp	1			1		
Lincing		i		<b>.</b>		]
DIFFER AEVERAGE	ļ					ì
(a) 5 yarda rad öger	\$7.76	-33	35	ļ	ļ	
(b) 5 y 32 c 2 (c) 30 c	7.26		.35		1	
na si ili ili ili ili ili ili ili ili ili	6.40	.55	.35.		ŀ	ļ
ASSALTANT CAST CONTROL OF CONTROL		l			ľ	į
Operator for Fridary Eulip, Hower Enrie	6.56	35	35	-	1	
ENGINEER WELLER-CHANTERN	6.51		.35 .35	ł	1	
ASSISTANT LANGER (Mentric, Diegol, Steam		-	1			}
or boostor Pump) Hates and Boatman	6.46	• 35	- 35			
FIRE AN-CYLER ASSISTANT MATE (Deckland)	6.21	.35	.35	1		
ASSISIANT NATER DECKRAND	0.11	الروف	رږد			
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아들아 나는 그 그 아이를 살아 있다.	1	1	-			
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LABORIS	BASIC		FRINCE B	NEFITS P	AYMENTS	
CROTA, 1	RATES	H-6-W	PENSIONS	VACATION	/PP. TR.	OTHE
Apphalt plant Taborers; Asphalt					1	
spreaders; Batch weighmang Broomers;						1
Brush burners & cutters; Car & truck	1		ł.			(
Poaders; Cathenter tender; Change-Hou			1	i	İ	İ
man or dry shack men; Choker setters	3.6		l		1	1
Clean up Laborens; Concrete Taborens;	<b>1</b> }		l .			1
Crusher feeders; Culvert, hand labor;	1	-	I	l		i .
Curing, concrete; DemoTition, wheekir	1.	•	ļ.		i	1
& moving laborers; Driller helpers;	۱۹۰۰		} .	1		<b>!</b> .
Dumpers, Road oilding Crew, Dumphen				<b>.</b>		1
(for grading crew); Edevator feeders;				'	<b>!</b>	l
Fence builder (incl. Guard rail, Hedi				1	i	l
rail, Reference post, Guide post,	- 1		t:		ł	l
Right-of-way marker); Fine graders;	. !		1	1		1 1
Form strippers (not swinging stages)	ļ	1	l.	1	1	l
CUMERAL LINORFUS; Lindreaving or	1		ľ			l
planting laborers; Legernan en aggre-			1			1
gate spreader (Flaherty & similar			<b>.</b> .	1		1
types); Leading spotters; Material .			ł'		1	Į.
yand man (inel, electrical); Fittsbur	in .		1 .		1	ł
chipper operator of similar types;	ľ .		ŀ			l
Postgraan Beller, Railroad track	-		1	l .		ì
laborers; Kabben setters (incl. steel			1	'	957	į
forms); Eip han man (hand placed);				ŀ	1.5	1
Road pump tender; Sever labor; .	,		1	ł	i.	ľ
Skipmen: Stenalman; Slepers: Spraymer			-	i	1	ŀ
Stand clinker-Stake setter-Grade check	Cr.		i	l	1	l .
Stockpiler: Timber faller & bucker	- 1		1	l	ĺ	l .
(hand labou); Toolroom man (at job si			1	Į.	l	1
Tunnel bull gang (above ground); Weig			1 :		I	i
manacrusher appregate (when used)	5.25	-40	.45	-20	.02	1
CROUP LI	1		1	l	1. *	ľ
			Į.		1	1
Applicator (incl. pot tender for same applying projective parerial by hand				i		
nezzle on utillity Tines or storage	Dr.		1	l.		1
tanks on project; Burners: Cheker	,	-	i	Í	1	ŀ
splicer; Clary power spreader &		1	1	<b>.</b>	1	
similar type: Clean-up nozzlemen;			I	ŀ	43	١.
Greencutter (Concrete rock, ctc.);			•	ľ	1"	<b>.</b>
Concrete pover buggyman; Demolition			ľ			1
6 wrecking charred materials; Cunite			i .	1.	ſ	1
nozzleman tender; Gunite or sand			ł	i		1
blasting pot tender; Handlers or mixe	T. 5			1	· ·	1
of all muterials of an irritating nat			1	ļ	•	į .
(incl. cement & lime); Hanhole builde		ŀ	1	[	l .	ì
Povertool op., incls but not limited	to:	[	1	l	1	ŀ
Chipping Guns, JACKHAPHER, Paving	1 *		1	1	l	I
breakers, Post hole digger, Air Gas,	þr	<b>.</b>		1	l	1 .
Electric, Tampers, Mibrating screed,	ł ·	l .	1	1 .	1 .	1
Vibrators (less than 4" in diameter)		l	1			1
Ribbon setter, head; Rip rap pan (her			1	1	1	ŀ
Hand placed; Sand blasting (wet); Sev	ler ,		1	1	1	1
	1	[	1	1	ł	I



BOAR PORMACHINE OF PATORS	LEOU LY		FRANCE D	eczalas P	AYUE:ITS	-
Grand I' And A Shi - Chinesen; Otter, in-	RATES	11 15 4	P. HISTORIA	VACATION	APP. TR.	OTHERS
engling plant and prusher, frusher						<del>                                     </del>
Fordering Packhand; Solf-pro-	1					į .
polled Scaffoldings (fired Rail	1	1				1
Punch Oiler; Just under 4" Erakeman		ĺ'		1	•	
Switchweng Lasts Fan (Tool Toom)	\$6.10	-10	.50	.20	1	
CHOIP II	1. 1		1		!	1
BLASE, FULLED TYPE; Truck Crane				1	Ì	
Oller-driver, 25 ten caracity or			•			
Pircenn, ell equipment; A-France			1	1	ļ	
Truck, single deam; Tomes or Coffin type Noist, any revery Drill		]	1	ŀ	1	1
lieberg Luine Cilen; Dorthant Fork-	1		1 : .	ľ		
last or lamber Stacker; Temporary	I		1		7	
Hearing Picit; Gunda Giller, required	1:	ļ	1	i .	<u>l</u> .	
to check gentles Chade Checkers Tar Pot Finemens Tar Tot Finegan	.		1	İ		1
(peger Agity ted); Habi Legithman				!	lae,	
Holper; Wilder's Helper; Fireman					1	
Halicopter Eddio-man (ground);				1	ļ ·	
Roller, Both	6.24	10	.50	.20		
GROUP FII				İ		
Pident Fine EARTY; Dagottly; Truck Hounted			1		}	
· Asphalt Spreader, with sareedy Com-	1 .	i ·		·	1.	
pressor, any pour, under 1,000 cu.					é	
ft: Yotal caracity; Edica Box Concate Plant; Caramate Conveyor;		1	1 .		ĺ	
Correct Hoa; Concrete Saw, self-	1	1		[		
propolice unit; Fire Mit Bicking or						
Booming Anchine; Concente Curing	1	7, 3				
Kachane, self-propelled; Bucket						1
Elevator Divisir, Parliar Gacene and similar type: Eventual Pros Press;			2 . "			
Prop any power, he and over;			1			į.
				, '		1
Jack Tamper; Bell Boy, phones, etc;						
Tamping Pachine, mechanical self-	1		, "			ļ .
propelled; hydrographic Sceder Rachine, atraw, purp or send; Broom						
Operator, self-prepelled; Air			1			ŀ
Filtration Equipment, Wolding	1	1		· '	į.	J. 1.5
Pachine	6.34	.40	.50	.26		
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	155400	. <del> </del>	PRESGE D	ENEFITS P	ATTRETS	
	RATES	нье	FINDIONS	VACATION	APP. TR	0141
CROUP 14 (Contained).  Cirbornen: Limber Fuckers & Callers, Brush Gufters (power saw); Tunnely			•			
Muckers; Brakemen, Concrete crev. Bull gang (underground)	5.40	.40	.45	.20	.02	
Ashalt rakers; Bid girnden; Concrete saw op., Drill doctor; Drill operator, Arr tracks. Cat drills, Agon drills types; Cunite nozaleman; High scaters strippers & driller; (rovers york in swinging stages; choirs or belts, unextreme conductors who are belts, unextreme conductors who are belts, unextreme, conductors who are belts, unextreme, brackets, barring-down, or sloping & strippens, barring-down, or sloping & strippens, brackets, the saw ops. (Buckets & Intling rightland logs); Pumperedé hotsplands and blanding (Dry); Senes Pitt laving alrack librers; Anchor dachines, Ballest regions, Eultain transpers, Power Jacks; Lugger op.; Tunnel-Chuck tenders, Sippers & Imbersen; Vibrators (4 & Lincer); Water blöster	er er ebyle eta	46	45	20	.02	
GROLD IV Turnel prodection	5÷70	.40	.45	•20	.02	
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	i. North		100	)		
. PUMER EQUITIONAL GRADAGEMES (contid)	ny c		udang d	incel es	A.V. eUTS	
GROUP, TV	1.7.TES	BSV	1. 43 10.92	V40 V. (01)	are, m.	OTHERS
No. 1. La Compactor, including vicareory: Companions, over 1,000			•		7.7	
River, single drum, when I ben						
Continuation Matter and Congressor.						
Cimite work; Haliford a Point; tork		•		1	,	
Lift, over 5 tons: Lold Wellift or sirilar types; Payment Takeher;					·- ,	
Darge more than 1, one where Locantive, under 10 lines heller.						
Olling, CTE	\$6.50	11:0	.50	,20		
GROUP Y DEMANDE NESS, COMM.			-			Tarrent .
ANDVAR Co. to And Co. Filter, Frings Parison on striker twos (without birde);						
Entrh Brant Paterial Commol; Power Junes, gettier flip forma,						
ets. in theredig The line have, paper deliver heater the lifeting						
denice for converte for a Medat, sirals draw a bester, Barnel, Carr	-					
Bingulaen; Godo Grony di un Francis ( Linna Couglishing i Kinggola (1886-1896)				-		
solf-immediate. The strain that the solf to both the solf to be so			1			1
Therebire is obline, resient diagram capacity 3 ft. depth	6.52	.40	.50	.20	1	
CHOUP VI		:	-			
Marinals, interest Will state	,				-	
vir aliai Carabaga Tarbiaa Rugsiis Charabaga doaras, Paradi	]				•	-
Birrock, Till goldenberg chadde kap. - Chan Machine, Hackbooker F. Lag. Cado						
and/or Curb and Gutter; Concrete Joint Michine; Constate Hauer; Cost			ŀ			
in place pipe laying cheme;				•		
Concrete Passing Eaching: Concrete Spreader; Londers, Rubber-Lired			1			1
type, Zi cu. yds. and under; Rock Spreader; self-propellyd	6.60	.Lo	.50	.20		
	1000			ļ.	ŀ	
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	1-000	-1760-1	(-?-3-t	- C	3-5)	
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PCUER EQUITMENT OFFICETORS (CONT. D)	100	11 & 11	·	V	Apr Tr	000
Gatesp TII  Lorderd, Adaptate: Conducte Misser, single drum, 5 bag capacity and over: Salterete: Baserete: Generate parts Tiller-denyon and saltlar; Grouting Erchine; Concrete drugs Toom Tobile: F-Frace Truck, doubte dense: Book facek; Charn Brill and Earth Baring Faceling, Mydigather Profiles, wheel type 3/4 cu. yess, and thider with on without front cod	•				-	-
Decre, Case tyre); Licenting Grider, Interior and touch rounding operator or streter; Fot France; Pallast Ecculator; Bellast Temper Bulbi-Purpose; Tuck Liner; Tie Spacer; Shuttle Car; Locogotive, he thus and over	\$6.6%	.l.o	.50	.20		
GROUP /III Divid Lai Dattello REGINARA, PRAIT OR FROATING; Datch Plant ani/or bet mix, one and two drive; Guarantee; Dional-Electric Engineer; Bolt Loaders Kolman and No Cal types	6.76	eil.	•50	.20		
Group IX  bold Falk: Deill Cat; Side-Rean Cat; Compactor, with  blade; Chicago Food and similar types; Lift Slab  Machine; Boom Type lifting degice, 5 tens  typedily or less; Cheary picker or gindler type  crane-Laint 5 ten compactor or less; Grizzler;  Crusher Plant; Parish Enchine; Surface Reader &  Flynen; Heogaulic Buckine, truck type 3/0 cu. yas  Lester, frost and and overhead 2s cu. yds. and  under h cu. yds.; Thre Chemian Eschine; Pipe  Deping Machine; Fire Feeding Nachine; Fing		•				
Wranping Machine: Post Treading Machine; Drill Bocton: Including hit grindship H.D. Fuchenic; H.D. Fuchenic; H.D. Fuchenic; Drag Machine; Machine Tread Operation; Driving Machines and Over 50 H.P. Flyshed; Dragton; bubber thred with home attachments; Treading Machine maximum digging capacity over 3 ft. depth	6.82	.40	.50	.20		
CREUP X FULLI-LER, THIR-EXTRE (TC 12 and similar type); Cable-Flow; Compactor, Eulti-chaine; Briller- Percussion, Bianund, Core, Cable, Rogary and similar types; Mack Operator Elevative Harges; Force Operator, melf-Unloading; Combination II.D. Mechanic-Welder; Welder-Gertified; Rubber tired Dozers and Pushers (Michigan, Cat. Hough type)	6.88	.Lo	.50	.20		

NOTICES

1-(414-142)-1-2-1-6 POJER EQUITMENT OPERATORS (CONT'D): Killed MOBILEy-Crane, 75 tons and under; Chownl. Disgrine, Clamshell, Hoe, etc., under 1 cu., yd.; 86.90 .40 .50 .20 Gradeall, under 1 cu. yd.; Bucking Eaching Bittles; witch Plant and for wet mix. I with or more; Horst, 2 drug; Boist, 3 or more grams; Elevating Boaden, Athey and similar tygica Pidedriver (not crane type); Rubber-tired Scraper, sample engine, single scraper; Scraper-Serf-Loading, padd.c. wheel ladder type; Rubber-tired Screper, twin comina; Rufter-tired Scraber, with push-pull attachments; Blade Mounted Sprenders, Wirden and similar types; .40 .50 Sheild Comptor -ELADE, JIMISH (Wenking with either red or blue tops); Blade, Electronically controlled by wire or laser "bears; Blade, Multi-engine; Songrete Pawing and Road Mixer: Eridge Crass, Bornsolder, Gentry, Overhead; Derrick, under 100 tony; Horst, Stiff-Tent Suy Derrick or similar type 56 tous and every Cableway, up to 25 toning Crass, ev r 25 tens and including ho tens; Tower Chare; Pide miser (not erane type); Floading Clarete II. escap under 3 cur rds is Floating Course (iterrates impres), loss than 30 tens; Therewilling Enchange, thrick type over 3/8 cu. vda. Elevatang Grader, bedrated to tractor, Sirra, Eucidd or similar typus; Ivice-Filling Machine: Showel, etc., 1 cu. vd. but less than 3 cu. yds.; Gradeall, I cu. yd. and over; Eack fill-7.04 .40 .50 .20 ing lachine 7.20 .20 RUBELL-TIMED SCRAPER WITH TAIDER SCRAPET .40 .50 hien avoil; loader, how, yday but less than 6 cu. 7.35 .50 .20 Cil. yds. AUNO SHAJER (i.e. CHO) or THISER; Tander Bulldozer, Quadening and sinites topic; Automotic Concrete Slap Form lavery Concerns Canal Dinner; Unbluzay, 25 tons and over; Crane, over 40 tens and including 100 tens; Whirley, 80 tons and under; Floating Clemshell, etc., 3 cut yab. and over;

	1-OH	E-PEO-	142-3-	p ===(	(5-5)	
POUT EQUITIENT OF BATORS (BONT D)	944	1		in wie de i	******	
Chem: FVI cont/d  - 1 issting Grame (Derrick Burge); 30 tond but less than 60 tons; Leader, 6 du. yda., but less than 8 du. yda.; harder 6 du. yda., but less than 12 du. yda.; Kubber-tired Scraper, with Tandem Scrapers, Bulti-engine; Shovel, etc. 3 du. yds. but less	1	-		Verrein	A 1:	- Oe-
than 5 cu. yds.; Wheel Excavator, under 750 cu. yds. per hour GPOUR XVII	\$7.54	.40	.50	.20		
Okah, Over 100 tons and including 200 tons; Unirles over 80 tons; and including 150 tons; Floating Crane (Darrick Furge), 80 tons but less than 150 tons; Londer; 12 cu. yds. and over; Shovel, etc., 5 cu. yds. and over; Canal Trimmer		.10	.50	.20	+-	
GROUP XVIII  CHARR, over 200 tons; Whirley, 150 tons and over; Floating Crone 150 tons but less than 250 tons; Wheel Excavator, over 750 cu. yds, per hour; Rand Marions, in conjuction with wheel excavator	7.86	.Lo	.50	.20		
GROUP XVIV  Hardwarfing; Then used in erecting work; Floating; Crame 250 tons and over; Remote controlled, earth moving equipment (no one operator shall operate nore than two pieces of moving equipment at one time); Underwater Equipment, remote or otherwise	8.00	.Lo	.50	.20		
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AH-P,475 Fago To 1-008-T0-1-2-3-d. (1-2)

and the contract of the contra	1-4.1.2	-114	u	1.4	/		
Secure Constant of the Constan	1.7.		F504 - 526/4		-usnts -		ì
TRUCK TOWN AND		/4		44.54.5			٠
Bottory rebuses po bus or conshaul drivery Concrete	B	W 2, "		Value of the last	A 1-	(15.01	J.
buggles (power operates); East trucks, side, and	T						ï
printed that chemical, and	i		ï			· 1	
to bottom create, incl. accommunity to trains or	P 1						į.
combin. the works of cy. yas. & miles: Diffe	-			l		ï	Т
Chapter Course of the Course of the Venders	1			<b>:</b>			1.
fitneys, fork lifts (all Sizes used in loading,			1	. 1	1		ŀ
unloading & transporting material on tob site);	. (		). <u> </u>	i i		i	1
Loader mid/or Text rath on concrete dry bottch	1 !		l' '	l ;	:		1
Closuer and or development on contract the	i 1			i		í	ł
plant (secondly operated); Filot com; Solo flat	! :-!	1	1:	1 1			i
bad & rance body brucks. 0-10 tone; bruck holper;	}		1	!!	250		1
Ball C. Filtre, been all the second s	1.			! !		i -	١
Truck mechanic nelpen; warehouser a (warehouse	,	t.	1	1.	, -	i.	ł
marte that men to nunts chaser, chircher &	1		]	1	ł	1.	1
necesiveral; Water wagens (rated caracity); up to	l .		] .		ľ	∤' •	1
	1 60 00	-35	.40	.15	l:		1
1600 gals.	3.33	- 22	-40	.17	ί.	li:	1
magazi Mirani	h	i:	j	h	·~'	2	1
المُمَا وَالْمُعَالِمُ السَّالِينَ الْمُعَالِمُ وَالْمُعَالِمُ اللَّهِ فَيْ الْمُعَالِمُ اللَّهِ فَي اللَّهِ ال	1	Į.	!	t	li"	1 .	
"A" frame or twora-laft thuck w/lead hearing surface	f. c	1.	1 . 1	ï	t'	di i	i
Laboration bein, fuel track traiver, Lungain, Wash	3		1.	1	ŀ	1	- 1
rock, special and or combine; Fear drivers	5.98	35	.lio	1.15	₹	1	J
LOCK! PRESENT OF STREET OF COMPTHIS SAME OF TREETS	1 7.70	1 377	1	1	1	1.	- 7
	1	l .	1	1 `	1 .	F	- 7
Dump trucks, side, end & Fitton dumas, Incl. semi-	1		1	ľ	I.	1	
Math directed and a currie a larged and a la	1	1.0	1 .	1 .	1	P	
trucks a toping or of the theneo. t over 6 cu.	ļ.	L	.1 2	1	1 .	1	
and were the fire for the filter than the filter of the fi	t	<b>F</b>	1	1	1.	1 .	
lest man; Transit rax & cry or well imposts 5 cu.	1	-1	7 .	1	4 N	1 -	
16xx Mant. Azimita selection of the land and the first of the	1	1 .	1 .	1	;	ľ	
yds, & w. w. farer in (tall-time haspel; Witer	1	4	1.	1	1 .	1.	
wagons (mosel capsorty): 1600 to 3060 gals.	16.03	. 35	ւե0	. 15	1 .	1	
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ers prome and the manifestation of truck a trailler	}	1	1 .	4.	1 .	1 .	
ESTA STANDARD COMPLETE BASIS CONTROL OF THE CONTROL	ï	i	4.	1	1.	!	
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or legg-sign Water wagons (nated capacity: 3000			1	-	1 .	.1	
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46 5000 gars.	10.5	4		1 - 1	1		
7	. !	1	1	1	1	1 1	
Dumpster or similar ecuip ont, all sines; Transit	100	1	-1 '	-}·	1	1 .	
Dumpsion or Smiller Could the art same	i:	<b>:</b>	j ,	!	1 .	į.	
mix & ect or dry nix trucks; Gver 5 cu. vds. &	- B	d	. 1	نسرت ا	1	l.	
incl. 7 co. yes.	6.1	.35	.40	.15	1	1 .	
11C1: 1 C2: Jos.	1 "		t		1	1.	
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Dump trucks, Stde, and A better dumps, incl. seri	Ť	1 .		4	4 .	*	
Purp trucks, Dreet, Agranting	4	ĺ	1	1	15	+ ;	
trucks & trucks or combon, thereof: over 10 cus	- 4	1.	all to	1	1	1	
ydo. 4 in 1. 20 cu. ydo.; Trunck dix 6 dry or	1	1	-	1	1 -	-1	
vet mix trucker over few, year 2 and . 9 cu. year	:1	i i		Ţ	1	1	-
App. Box cancers been war dens a angel of	* N *	1.	1				
Truck meanande-welder-body repairman; bater		1 .	- T - 2 -		4 .	1	
wagons (rated capacity): 5000 to 7000 galow	16.2	3   .35	.10	1.15	( '	1	
water fraces enhage attended of the same	1					100	
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#### DIVISION I - CEMERAL PROVISIONS

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#### Bootion I - Definitions and Terra

Teres used or referred to herein are defined as follows:

- 1.01 BIDDER Any individual; firm, partnership, corporation or combination thereof; esting directly or through a duly authorized reprecentative, submitting a proposal on the work contemplated.
- 1.02 CHANGE ORDER
  A written instruction to the Contractor, signed by the Engineer, prescribing any change in the work.
- 1.03 CONTRACTING AGENCY The performance of the work or for which has contracted for the performance of the work or for whom the work is being performed.
- The written represent covering performance of the work including the formal contract, advertisement for bids, instructions to hidders, proposal with required affidavit, specifications, bond and plans.
- 1.05 CONTRACTOR
  The individual, partnership, corporation, or other entity entering into a contract with the Contracting Agency to perform the contemplated work. In the case of work being done under a permit issued by the Contracting Agency, the Parmittee shall be construed to be the Contractor.
- 1.06 Trainer of the Contracting Agency, acting without directly or through his duthorized naprasentatives. End designated by the Costracting Agency to suggraise the work during its execution

- 1.09 INSPECTOR
- An authorized representative of the Engineer of the Contracting Agency, limited to the particular duties entrusted by the Engineer.

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1.10 LABORATORY

A materials testing laboratory operated by a public agency or if approved by the Engineer, any private, commercial testing leb-pratory.

- 1.11 LINEAL FOOT Horizontal measurement as determined by engineers" station.
- 1.12 MAJOR ITEM
  Any item or work and/or materials having an original contract value in excess of \$500.00 or which exceeds ten (10) percent of the amount of the original contract, whichever is greater.
- A written notice to the Contractor from the Contracting Agency. designating the date by which the Contractor shall begin prosecution of the work..
- 1.14 PERSON Any individual, firm, association, partnership, corporation, trust, or joint venture.
- 1.15. PLANS
  The plans, profiles, cross sections, and drawings, or reproductions thereof, approved by the Engineer, which show the details of the work to be done.
- 1.16 PROPOSAL The offer of the bidder when dubmitted on the proposal form, properly signed and guaranteed.
- 1.17 PROPOSAL GUARANTY Certified chack or bidder's surety bond executed by a bonafida surety company, accompanying the proposal as a guarantee that the bidder will enter into a contract with the Board for the performance of the work.
- 1.18 REFERENCE SPECIFICATIONS
  Bulleting, standards, rules, methods of analysis or test, rodes and specifications of other agencies, engineering societies, or industrial associations referred to in these specifications.
  All such references specified herein, refer to the latest edition thereof, including any amendments thereto which are in effect, and published at the time of advertising for bids or issuing the permit for the project.
- 1.19 ROADWAY
  That portion of the right of way or essement intended for use by vehicular traffic:

A sewer that carries liquid and water-carried wastes together with minor quantities of storm, surface, and groundwaters that are not admitted intentionally.

- 1.21 SEALER OF WEIGHTS AND MEASURES: The Sealer of Weights and Measures of the State of Oregon, as defined by ORS 618.080 and ORS 618.090.
- 132 SEWER A pipe or conduit that carries wastewater or drainage water.
- 1.23 . SPECIAL PROVISIONS

  Specific clauses setting forth conditions or requirements peculiar to the work which modify or supplement the standard specifications.
- 1.24 SPECIFICATIONS
  This term includes the standard specifications and specifications included herein by reference, any special or project specifications and specifications included therein by reference, specifications on the plans referred to and specifications contained or referred to in supplemental agreements between the Contractor and the Contracting Agency.
- 1.25 STANDARD DRAWINGS
  Drawings of structures or devices referred to on the plans or in specifications by title and/or an index number.
- 1.26 STATE
  The State of Oregon.
- 1.27 STORM SEWER

  A sewer that carried storm water and surface water, street wash and other wash waters, or drainage, but excludes domestic waste-- water and industrial wastes. Also called storm drain.
  - 1.28 STREET Any road, highway, parkway, freeway, alley, walk, or way.
- 1.29 SURETY
  The bonsman, party or parties who may guarantee the fulfillment of the contract by bond.
- 1.30 UTILITY
  Pracks. overhead or underground wires, pipe lines, conduits, ducts. or structures, owned, operated, or maintained in or across a public right of way or private easement.
- 1.31 WORK
  That Which is proposed to be constructed or done under the contract.

1.32 ABBREVIATIONS AND SYMBOLS
A.A.S.H.O. (AASHO) American Association of State F

A.A.S.H.O. (AASHO) American Association of State Highway Officials. A.G.C. (AGC) Associated General Contractors of America. A.P.W.A. (APWA) American Public Works Association. (ASTM) American Society for Testing Materials. A.W.W.A. (AWWA) American Water Works Association. O.R.S. (ORS) Oregon Revised Statutes.

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#### Section ? - Proposal Requirements And Conditions

2.01 INTERPRETATION OF PLANS AND SPECIFICATIONS.
The Engineer will interpret the meaning of any part of the plans and specifications about which any misunderstanding may arise, and his decision will be final.

Should the Contractor become aware of any error or discrepancy in or between the plans and specifications, he shall refer the matter to the Engineer for adjustment before proceeding further with the work. Should the Contractor proceed with the work without referring the matter, he does so on his own responsibility.

Logs of test holes, ground water levels, and any accompanying soil reports as furnished by the Contracting Agency are furnished for general information only. The field conditions so set forth shall not constitute a representation or warranty, expressed or implied, that such conditions are actually existent. Bidders shall make their own investigations and form their own estimates of the site conditions. The Contracting Agency will not be liable for any loss sustained by the Contractor as a result of any variance between conditions as set forth in the soil reports or shown by the logs of test holes and the actual conditions revealed during the progress of the work or otherwise.

2.03 CONTRACT DOCUMENTS
The Contract Documents under which it is proposed to execute this work consist of the material bound herewith. These Contract Documents are intended to be mutually cooperative and to provide all details reasonably required for the execution of the proposed work. Any person contemplating the submission of a Proposed and being in doubt as to the meaning or intent of said Contract Documents should request of the Engineer, in writing, an interpretation thereof. Any interpretation or change in said Contract Documents will be made only in writing, and a copy of such interpretation or change will be mailed or delivered to each person receiving a set of the Documents. The Contracting Again; will not be responsible for any other explanation or interpretations of said Documents.

2.04 TMPE OF PROPOSAL
The Proposal for the work contemplated is to be submitted on the form prescribed in the Proposal.

2.05. PREPARATION OF PROPOSALS
All blank spaces in the Proposal form must be filled in, in tak, in both words and figures where required. No changes shall be made in the phrashology of the forms or in the items mentioned harein. Written amounts shall govern in cases of discrepancy between the amounts stated in writing and the emounts stated in figures. In the case of error in extending unit prices in the proposal, the correct extension of the unit prices shall govern.

Any proposal shall be doesed informal which contains emissions, or additions of any kind, or items uncalled for, or in which any of the items are obviously unbalanced, or which in any manner shall fail to conform to the cenditions of the published Advertisement for Rids.

The Bidder shall sign his Proposel in the blank space provided therefor. Proposals nade by corporations or partnerships chall centain names and addresses of the principal officers or partners. If the Proposal is made by a corporation, it must be acknowledged by one of the principal officers thereof; if made by a partnership, by one of the partners.

2.06 SUBMISSION OF PROPOSALS
All proposals must be submitted at the time and place and in the manner prescribed in the Advertisement for Bids. Proposals must be made on the prescribed Proposal forms and submitted with the Contract Documents.

2.07 WITHDRAWAL OF PROPOSAL
Any proposal may be withdrawn prior to the scheduled time for the opening of proposals either by telegraph or written request, or in person. No proposal may be withdrawn after the time scheduled for opening of proposals unless the time specified in Section 3.01 has elapsed.

Proposals must be accompanied by a certified check drawn on a bank in good standing, or a bid bond issued by a surety company authorized to issue such bonds in the State of Oregon, in an amount of not less than ten percent (10%) of the total amount of the Proposal submitted. This check or bid bond shall be given as a guarantee that if awarded the Contract, the successful Bidder will execute the attached Contract and furnish a properly executed Performance Bond in the full amount of the Contract price within

The Contracting Agency reserves the right to retain the bid security of the three lowest bidders until the successful Bidder has signed and delivered the Contract and furnished a one hundred percent (100%) Performance Bond. Upon failure of the successful Bidder to sign and deliver said Contract and Performance Bond within the specified time, the next lowest bid may be accepted at the Owner's discretion whereupon the above instructions and requirements will apply to the said second bidder.

BID SECURITY

the time specified.

2.09 CONDITIONS OF WORK
Each bidder must inform himself of the conditions relating to the regular execution of the work, and it is assumed that he will respect the site and make himself thoroughly familiar with all the Contract Documents. Failure to do so will not relieve the successful Bidder of his obligation to enter into a Contract and complete the contemplated work in strict accordance with the Contract Documents.

Each Bidder must inform himself of all aaws and statutes, both Federal and State, relative to the regular execution of the work, the employment of labor, protection of public health, the protection of private property, right-of-way, and acess to the work, fire protection regulations, and similar requirements.

2.10 PREQUALIFICATION OF BIDDERS
Bidders must be prequalified in conformance with ORS 279.008, acts amendatory thereto, and the regulations of the Contracting Agency at least 10 days prior to the bid opening date in order for the prospective Bidder to retain his right to appeal should he be disqualified by public officer representing the Contracting Agency. If the prequalification form is submitted less than five (5) days prior to the bid opening date, the right of appeal is lost.

Prequalification forms shall not be submitted with the bid.

#### Section 31 - Award and Execution of Contract

3.01 AWARD OF CONTRACT
After the proposals for the contemplated work have been opened
and read as provided in these specifications, the respective
totals thereof will be checked and compared by the Contracting
Agency; and the results thereupon will be considered public
information.

Unless otherwise stated in the Special Provisions or in the Advertisement for Bids the contract will be awarded within the thirty (30) days after the opening of proposals to the lowest bidder meeting the qualifications required by law, including but not limited to the law relating to prequalification of bidders, and the requirements stated in the advertisement for bids, the instructions to bidders, and/or the specifications, and whose proposal complies with all the prescribed requirements unless all proposals are rejected. The Contracting Agency reserves the right to reject any and all proposals and no proposal shall be considered as being binding upon the Contracting Agency until the execution of the contract; and failure of the awardee to properly execute the awarded contract and furnish acceptable bonds and insurance as provided herein, shall be just and sufficient cause for the annulment of the award and the forfeiture of his proposal guaranty.

EXECUTION OF CONTRACT The contract shall be signed by the successful bidder and returned, together with the contract bonds and required insurance documents' within 10 calendar days after the award of the contract unless otherwise stated in the Special Provisions or in the Advertisement for Bids, and after receipt of same by the Contracting Agency the proposal guarantees will be returned to all bidders. The Contractor shall carry all insurance which may be required by Federal and State laws by local ordinances, and by these speci-The attention of the Contractor is called to the fact that, when the United States Government participates in all or any portion of the cost of the work, the Federal laws authorizing such participation and the rules and regulations made pursuant to such laws must be observed by the Contractor. work shall be subject to the inspection and approval of the authorized representatives of such Federal agencies as are created for the administration of these laws.

3.03 CONTRACT BONDS
Prior to the execution of the contract, the Contractor shall file with the Contracting Agency a Performance Bond in the amount and for the purposes noted below, duly executed by a responsible corporate surety authorized to issue such bonds in the State of Oregon, which bond must in all respects comply with ORS 279.502 to ORS 279.540, inclusive, and be satisfactory and acceptable to the Contracting Agency and he shall pay all premiums and costs thereof and incidental thereto to keep such bond in full force until one year after acceptance of the work in writing by the Contracting Agency.

The bond must be signed by both the Contractor and surety and shall be in the sum of not less than 100% of the contract price to assure the claims of material men supplying materials to him, and of mechanics and laborers employed by him on the work required under these specifications.

Provided the Contractor shall faithfully and truly observe and comply with the terms, conditions and provisions of the contract, in all respects, and shall well and truly and fully do and perform all matters and things by him undertaken to be performed under said contract, upon the terms set forth therein, and within the time prescribed therein, or as extended as provided in the applicable Standard Specifications, and shall indemnify and save harmless the Contracting Agency, its officers, employees, and agents, against any direct or indirect damages of every kind and description that shall be suffered or claimed to be suffered in connection with or arising out of the performance of the said contract by the said Contractor or his subcontractors; make payment promptly, as due, to all subcontractors and to all persons supplying to the Contractor or his subcontractors equipment, supplies, labor or materials for the prosecution of the work, or any part thereof, provided for in said contract, and shall pay all contributions or amounts due the State Industrial

Accident Fund and the State Unemployment Compensation Trust Fund from such Contractor or subcontractors incurred in the performance of said contract, and pay all sums of money withheld from the Contractor's employees and payable to the State Tax Commission; and shall pay all other just debts, dues and demands incurred in the performance of the said contract and shall pay the Contracting Agency such damages as may accrue under said contract and shall in all respects perform said contract according to law, then this obligation is to be void, otherwise to remain in full force and effect.

Nonpayment of the bond premium will not invalidate this bond nor shall the Contracting Agency be obligated for the payment thereof.

Should any surety or sureties upon said bonds or any of them become insufficient, said Contractor shall renew said bond or bonds with good and sufficient sureties within ten (10) days after receiving notice from the Contracting Agency that the surety or sureties are insufficient.

3.04 PROTECTIVE LIABILITY INSURANCE REQUIREMENTS
The contractor shall furnish to the Contracting Agency in t riplicate, a policy or certificate of protective liability insurance
in which the Contracting Agency shall be named insured or be
named in such insurance as an additional insured with the
Contractor. In compliancd with this provision, the Contractor may
file with the Contracting Agency a satisfactory "blanket coverage"
policy or certificate, of insurance. The policy shall insure the
Contracting Agency, its officers, employees and agents against
all claims arising out of or in connection with the work to be
performed and shall remain in full force and effective until the
work is accepted by the Contracting Agency. The policy shall
provide the following minimum limits.

Bodily Injury.... \$100,000 each person \$300,000 each occurrence

Property Damage .... \$50,000 each accident

Such policy shall provide coverage at least as broad as that provided in the Standard Form approved by the National Bureau of Casualty Underwriters together with such endorsements as are required to cover the risks involved. In addition the Contractor shall furnish evidence of a commitment by the insurance company to notify the Contracting Agency of the expiration or cancellation of the insurance policies.

The cost of this insurance shall be understood to be included in the prices bid for the various items of work and no additional compensation will be made therefor. 3.05 CONTRACTING AGENCY S IMMUNITY FROM LIABILITY
The Contractor shall save, keep and hold harmless, the Contracting
Agency and all officers and agents thereof from all damages, costs
or expenses in law or equity that may at any time arise or be set
up because of damages to property or of personal injury received
by reason of or in the course of performing said work, which may
be occasioned by any negligent act or omission to act which
amounts to negligence upon the part of the Contractor or any of
said Contractor's employees, or any subcontractor performing
any or the work contemplated by the contract.

The Contracting Agency shall not be liable or responsible for any accident loss or damage happening to the works referred to in the contract prior to the completion and acceptance thereof.

The Contractor shall secure, maintain in full force and effect and bear the cost of complete Industrial Accident Insurance in accordance with the requirements of the Workmen's Compensation Laws of the State of Oregon for all persons employed on the work, for the duration of the contract and shall furnish to the Contracting Agency, prior to the execution of the contract a Certificate of Insurance which meets the requirements of said Workmen's Compensation Laws. The Contracting Agency, its officers, employees, or agents will not be responsible for any claims or suits in law or equity occasioned by the failure of the Contractor to comply with the provisions of this paragraph.

## Section 4 - Scope of Work

4.01 INTENT OF CONTRACT
The intent of the contract is to prescribe a complete work or improvement which the Contractor undertakes to do, in full compliance with the provisions and requirements of the contract. The Contractor for all or any part shall furnish all labor, materials, tools, equipment, transportation, necessary supplies and incidentals required to make each and every item complete as contemplated by the contract. Any deviation from these requirements must be stipulated in the special provisions.

4.02 PLANS, SPECIFICATIONS AND WORK
The plans, together with specifications and other contract
documents will govern the work to be done. Anything mentioned
in the specifications and not shown on the plans and detailed
drawings, or shown on the plans and detailed drawings and not
mentioned in the specifications, shall be of like effect as
though shown or mentioned in both.

Specifications and plans referred to in any of the contract documents shall be considered as being included in the document in which such reference is made. A reference to a particular specification or standard drawing in a contract document shall

exclude any earlier or later modification thereof. When a particular standard or specification is referred to, such reference shall be to the standard or specification including officially adopted revisions or amendments thereto which is in force at the time of advertising for bids.

In case of conflict, the order of precedence of the following documents in controlling the work shall be:

(1) Permits from outside agencies required by law

(2) Special Provisions

(3) Plans

(4) Standard Drawings

(5) Standard Specifications

Change Orders, supplemental agreements and approved revisions to plans and specifications will take precedence over contract documents listed above.

4.03 PLANS AND SHOP DRAWINGS
The plans furnished and included with the specifications will show such details as may be necessary to comprehensively indicate the work that is proposed and the results that are intended to be accomplished. Any additional working drawings, detail plans, or shop drawings that may be required in connection with the prosecution or construction of any part of such work shall be supplied by and at the expense of the Contractor as they will not be accepted by the Engineer from suppliers or others.

When shop drawings are required in the various sections of the specifications or are requested by the Engineer, they shall be prepared in accordance with modern engineering practice. Unless otherwise specified, shop drawings shall be submitted in quadruplicate to the office of the Engineer for approval or correction not less than 30 days before approved drawings will be required. One set will be returned to Contractor marked "approved" or "approved as corrected". If changes are required, four copies of corrected shop drawings shall be delivered to the Engineer.

Shop drawings shall be of sufficient size and scale to clearly show all details.

No materials shall be furnished or work done on items requiring shop drawings prior to approval. Approval or shop drawings shall not relieve the Contractor from responsibility for deviations from the contract documents unless the deviation was specifically called to the attention of the Engineer, nor from responsibility for errors or omissions of any sort in the shop drawings.

The Contractor shall keep a copy of the plans and specifications at the job site and access thereto shall at all times be accorded the Engineer.

- Provision has been made in the specifications for certain specific changes in methods of construction which may be made at the Contractor's request and upon approval of the Engineer. Changes in the drawings and specifications, other than those specified herein, which do not materially affect the work, and which are not detrimental to the work or to the interests of the Contracting Agency as determined by the Engineer, may be granted to facilitate the work of the Contractor when such changes are requested in writing and submitted to the Engineer for approval. In the event such changes are granted, the changes shall be made without additional cost to the Contracting Agency, and the Contracting Agency reserves the right to receive an equitable adjustment in the contract price or contract time as a consideration for authorizing any such change.
- ALTERATION OF QUANTITIES AND EXTRA WORK 4.05 The Contracting Agency reserves the right to make such inchease or decrease in the quantity of any item of work or material to be performed or furnished under such contract, or to order the performance of such additional or extra work of a class not contemplated by the proposal, as may be considered expedient or advantageous and essential to the satisfactory completion of the proposed work and the full accomplishment of the intended purpose thereof, without thereby affecting the validity of the contract or contract bonds, and without giving notice to the surety on any such bond, unless the total bid price is increased more than In such cases the Contractor will be requied to perform or furnish additional quantities or extra items of work or materials, or to decrease the amount of work or materials to be performed or furnished under the contract or to omit portions thereof, and to furnish and provide the necessary labor and equipment to do so, when and as the Engineer may so order in writing within the limitations herein or by haw provided. In the event that any such increase or decrease in the quantity of work or materials to be performed or furnished is so ordered, the amount to be paid the Contractor under his contract shall be correspondingly increased or decreased as the case may be, in proportion to the increased or decreased quantities or work or materials performed or furnished under such order.
- 4.06 ALTERATION OF QUANTITIES
  In the event that the Contractor is directed by the Engineer
  to increase, decrease or omit portions of the work, and the total
  pay quantity for any item of work varies from the original contract
  quantity by 25 percent or less, payment will be made for the
  quantity of work performed at the contract unit price therefor.

If the total pay quantity for any item of work required under the contract varies from the original contract quantity by more than 25 percent, the compensation to the Contractor will be determined as follows:

If a change is made which, together with any previous changes in quantity, increases the quantity of any major item or decreases the quantity of any item more than 25 percent of the original contract quantity, the payment for the work in excess of the 25 percent increase over the original contract amount of that item will be determined by negotiation; at the option of the Engineer, payment for such excess will be made on the basis of "Extra Work" as hereinafter provided. Credit for decreases in the quantity of any item may be determined by negotiation but in no event shall the amount of credit exceed the contract unit prices for the omitted items.

4.07 EXTRA WORK
Any new and unforeseen work will be classes as "Extra Work" when
determined by the Engineer that said work is not covered by any
of the contract items for which there is a bid price, or by a
combination of such items.

Changes in the work involving either additional costs or credits for unforeseen additions or omissions in the work shall be made only subsequent to execution of a Change Order by the Engineer or by Supplemental Agreement issued by the Contracting Agency.

Payment for extra work on a lump sum or Unit Price basis required to be performed in accordance with the provisions of this section will be established by mutual agreement between the Contractor and the Engineer within the legal limits provided by State laws or local ordinances. When no mutual agreement can be reached, payment will be made on a force account basis as hereinafter prescribed.

When the extra work is to be performed on a force accound basis, the Contractor shall keep full and complete records of the cost of such work and shall permit the Engineer to have access thereto as may be necessary to assist in the determination of the compensation payable for such work. An itemized statement of such extra work shall be submitted to the Engineer for approval prior to submitting invoice for payment. The Contractor will be paid for labor, materials and equipment rental as hereinafter prescribed.

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Only materials incorporated in the work will be paid for.

To the totals computed as hereinafter prescribed for labor, materials, and equipment rental will be added 10% for overhead, profit and supervision. It is understood that labor, materials and equipment may be furnished by the Contractor or the subcontractor or by others on behalf of the Contractor. However, when extra work to be paid for on a force account basis is performed by forces other than those of the Contractor, the Contractor shall reach agreement with such other forces as to the distribution of the payment to be made by the Contracting Agency for such work and no additional payment will be made therefor.

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The cost of all labor used in performing the work under this contract shall be based on the prevailing wage scale as may be set forth in the Special Provisions for each particular craft or type of workman involved. Employer payments for payroll taxes and insurances, health and welfare, pension, vacation, and other similar purposes shall be included in this cost.

4.07B MATERIALS
The cost of materials incorporated in the work will be the cost to the purchaser, whether contractor, subcontractor or other forces, from the supplier thereof, except as follows:

- a. If materials are procured by the purchaser by any method which is not a direct purchase from and a direct billing by the actual supplier to such purchaser, the cost of such materials shall be deemed to be the price paid to the actual supplier as determined by the Engineer. No markup except for actual costs incurred in the handling of such materials will be permitted.
- b. If the materials are obtained from a supplier or source owned wholly or in part by the purchaser, payment therefor will not exceed the price paid by the purchaser for similar materials furnished from said source on contract items or the current price of such materials delivered to the job site, whichever price is lower.
- c. The Contracting Agency reserves the right to furnish such materials as it deems advisable, and the Contractor shall have no claims for costs and profit on such furnished materials.

4.07C EQUIPMENT RENTAL
The Contractor will be paid for the use of equipment on the basis of, but not exceeding the prevailing hourly rental rates established by the Oregon State Highway Department and recognized by the Associated General Contractors for the area where such equipment is required to be operated.

On any equipment for which no rental rate has been established by the Oregon State Highway Department, or where the required operation of the equipment is less than four hours or in excess of one week, rental rates shall be proposed by the Contractor and agreed upon in writing by the Engineer prior to the start of fource account work.

Equipment that is in operational condition and is standing by with the Engineer's approval for participation in fource account work will be paid for at 50 percent of the agreed upon rental rate.

Rental time will not be allowed while equipment is inoperative due to breakdowns for periods in excess of 30 minutes. Rental time shall be computed in 2-hour increments. In computing rental time of equipment in actual operation, less than 30 minutes will be considered 2 hour.

The rental rates paid, as above provided, shall include the cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance and all incidentals. Operators of rented equipment will be paid for as provided under Section 4.08.

All equipment shall, in the opinion of the Engineer be in good working condition and suitable for the purpose for which the equipment is to be used.

Unless otherwise specified, manufacturer's ratings and manufacturer approved modifications shall be used to classify equipment for the determination of applicable rental rates. Equipment which has no direct power unit shall be powered by a unit of at least the minimum rating recommended by the manufacturer.

Individual pieces of equipment or tools having a replacement value of \$50.00 or less, whether or not consumed by use, shall be considered to be small tools and no payment will be made therefor.

- a. Equipment on the Work The rental time to be paid for equipment on the work shall be the time the equipment is in operation on the extra work being performed and, in addition, shall include the time required to move the equipment to the location of the extra work and return it to the original location except that moving time will not be paid for if the equipment is used at the site of the extra work on other than such extra work. Loading and transporting costs will be allowed, in lieu of moving time, when the equipment is moved by means other than its own power, except that no payment will be made if the equipment is used at the site of the extra work on other than such extra work.
- b. Equipment Not on the Work For the use of equipment moved in on the work and used exclusively for extra work paid for on a force account basis, the Contractor will be paid rental rates as agreed to, as provided in section 4.10 above, and for the cost of transporting the equipment to the location of the work and its return to its original location, all in accordance with the following provisions.
- (1) The original location of the equipment to be hauled to the location of the work shall be agreed to by the Engineer in advance.
- (2) The Contracting Agency will pay the costs of loading and unloading such equipment.
- (3) The cost of transporting equipment in low bed trailers shall not exceed the hourly rates charged by established haulers or the applicable minimum established rates of the Oregon Public Utility Commission.

- (4) The rental period shall begin at the time the equipment is unloaded at the site of the extra work, shall include each day that the equipment is at the site of the extra work, excluding Saturdays, Dundays and legal holidays unless the extra work is performed on such days, and shall terminate at the end of the day on which the Engineer directs the Contractor to discontinue the use of such equipment. The maximum rental time to be paid per day will not exceed 8 hours unless the equipment is in operation for a longer time.
- (5) Should the Contractor desire the return of the equipment to a location other than its original location, the Contracting Agency will pay the cost of transportation in accordance with the above provisions, provided such payment shall not exceed the cost of moving the equipment to the work.
- (6) Payment for transporting, loading and unloading equipment as above provided, will not be made if the equipment is used on the work in any other way than upon extra work paid for on a force account basis.

4.07D RECORDS
The Contractor shall maintain his records in such a manner as to provide a clear distinction between the direct cost of extra work paid for on the force account basis and the costs of other operations performed in connection with the contract.

The Contractor shall furnish to the Engineer daily reports in duplicate of the extra work to be paid for on a force account basis. The reports shall itemize the materials used and shall set forth the direct cost of labor and the charges for equipment rental whether furnished by the Contractor, or subcontractor. The reports shall provide names or identifications and classifications of workmen, the hourly rate of pay and hours worked together with the size, type and identification number of equipment and hours of equipment operation.

Material charges shall be substantiated by vendors' invoices. Such invoices shall be submitted with the reports; or, if not available, they shall be submitted with subsequent reports. In the event said vendors' invoices are not submitted within 15 days after acceptance of the work, the Contracting Agency reserves the right to establish the cost of such materials at the lowest current price at which said materials are available in the quantities concerned delivered to the location of the work.

All reports shall be signed by the Contractor or his authorized representative.

The Engineer will compare his records with the reports furnished by the Contractor, make any necessary adjustments and then compile the costs of extra work paid for on a force account basis

on forms furnished by the Contracting Agency. When these extra work reports are agreed upon and signed by both parties, they shall become the basis of payment for the work performed.

Throughout the period of construction, the Contractor shall keep the site free and clean from all rubbish and debris and shall promptly clean up all or any portion of the site when notified to do so by the Engineer. Care shall be taken to prevent spillage on the streets over which hauling is done, and any such spillage or debris deposited on streets due to the Contractor's operations shall immediately be cleaned up. The Contractor shall promptly remove from any parts of the working area all unused materials, surplus earth, and debris. Construction areas shall be left in a clean, neat and acceptable condition at the earliest time following completion of that portion of the work.

In the event that the Contractor fails to comply with the orders of the Engineer regarding cleanup the Engineer may require the Contractor to cease progress on any or all parts of the work under contract until the unsatisfactory condition is corrected. The Engineer may order such cleanup work performed by others and and the costs therefor deducted from payments due the Contractor. No additional compensation will be allowed as a result of such suspension.

During all phases of the construction work, the Contractor shall take precautions to abate dust nuisance by cleaning up, sweeping, sprinkling with water, or other means as necessary to accomplish results satisfactory to the Engineer.

Upon completion of the work and prior to final inspection the entire site of operations shall be cleared of equipment, unused materials, and rubbish, so as to present a clean and neat appearance. All costs of "Cleanup" including all charges for water, are to be absorbed in the prices bid for the various bid items.

4.09 VERMIN CONTROL
At the time of occupancy by the Contracting Agency, any structure or structures entirely constructed under the contract shall be free of rodents, insects, vermin or pests. Extermination work as may be necessary shall be arranged and paid for by the Contractor as part of the contract work within the contract time and shall be performed by a licensed agency and in accordance with the requirements of governing authorities. The Contractor shall be responsible for any injury to persons or property resulting from extermination work and for the elimination of any offensive odors resulting from extermination operations.

4.10 SANITARY PROVISIONS
The Contractor shall provide, and maintain in a neat and sanitary condition, such accommodations for the use of his employees as may be necessary to comply with all applicable laws, ordinances and regulations.

In the event of damage to the existing sewer facilities, or interruptions of existing sewage flows, the Contractor shall promptly dispose of any free sewage by pumping or other means. Sewage shall not be permitted to flow in the trenches or be covered by backfill. Continuous sanitary sewer service in closed conduits shall be maintained at all times.

# Section 5 - Control of Work

## 5.01 SUPERVISION AND INSPECTION

The Engineer shall decide within the provisions of the specifications all questions which may arise concerning the quality or acceptance of materials furnished and work performed, and all questions concerning the acceptable fulfillment of the contract by the Contractor.

The Engineer or his representative shall have access to the work at all times. The Contractor shall furnish all facilities for inspection at the construction site, and at shops or yards, and shall not cover up amy work requiring inspection until the same has been approved by the Engineer. If work should be covered up before being inspected, the Contractor will be required to remove such portions of the work as may be necessary to disclose the part in question.

The Contractor shall notify the Engineer 24 hours prior to commencing any work, or resuming work after shutdowns, except for normal resumption of work following Saturdays, Sundays, or holidays.

The Contractor shall be fully responsible for providing proper supervision and sufficient labor and equipment to accomplish the work and to complete the work within the contract time.

The Contractor shall maintain a local telephone for the duration of the contract, at his own expense, where he or his authorized representative may be reached directly or by message at all times; during and outside of working hours.

## 5.02 COOPERATION WITH OTHERS

Ordinarily, utility owners and Contracting Agency responsible for facilities located within the right of way will be required to complete any installation, relocation, repair, or replacement prior to the commencement of work by the Contractor. However, when this is not feasible or practicable or the need for such work was not foreseen, such utility owners or Contracting Agency shall have the right to enter upon the right of way and upon any structure therein for the purpose of making new installations, changes or repair, and the Contractor shall so conduct his operations as to provide the time needed for such work to be accomplished during the progress of the improvement.

GS-17

Where two or more contractors are employed on related or adjacent work, each shall conduct his aperations in such a manner as not to cause any unnecessary delay or hindrance to the other.

5.03 MUTUAL RESPONSIBILITY OF CONTRACTORS
The Contracting Agency may let other contracts on any portion of the site for any work not included in the contract.

The Contractor shall perform the work of the contract so that it will properly coordinate with and fit the work performed by other contractors. He shall give the other contractors every reasonable opportunity to perform their work, store materials, and place equipment therefor, and fit their work to the work of other contractors. He shall furnish to the other contractors all information necessary in order that they may properly connect and fit their work to his and in ample time, so that they may have reasonable opportunity to prepare their work accordingly. He shall make the work of the contract ready to receive the work of the other contractors at the time fixed therefor, and shall fit this work to that of the other contractors at the times fixed therefor.

Utilites for the purposes of these specifications shall be considered as including but not limited to: pipe lines, conduits, transmission lines, and appurtenances of Public Utilities and those of private industry, businesses or individuals solely for their own use or for use of their tenants; and storm drains, sanitary sewers, irrigation facilities, street lighting, traffic signal, telephone, television, and fire alarm systems.

The Contracting Agency has by a search of known records, endeavored to locate and indicate on the drawings, all utilities which exist within the limits of the work. However, the accuracy or completeness of the utilities indicated on the drawings is not guaranteed. Service connections to adjacent property may or may not be shown on the drawings. It shall be the responsibility of the Contractor to determine the exact location of all utility owners and request that they locate and mark any existing utilities and their appurtenances and service connections which may be affected by the contract work. In addition, the Contractor shall notify the Engineer as to any utility, appurtenances and service connections located by him which have been incorrectly shown or omitted from the drawings.

Unless otherwise specified the Contractor shall remove all interfering portions of utilities which are shown on the drawings as "abandoned" or "to be abandoned in place", and which interfere with the construction of the project. All costs involved in said removals shall be included in the priced bid for the various items of work. All such abandoned utilities removed by the Contractor shall be stored on the site where directed and shall remain the property of the owner utility company or Contracting Agency as determined by the Engineer.

GS-18

Where utilities are shown on the drawings as "abandoned" or "to be abandoned in place", it shall be the Contractor's responsibility to contact the utility company involved, as required in 5.11, herein, prior to excavating around such utilities to ascertain that the abandonment of the utility has been completed.

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In certain cases where indicated on the drawings, the Contractor shall locate utilities in advance of his construction operations. In these cases the Contractor shall backfill the excavations and shall construct either a temporary or permanent resurfacing over the backfill. The temporary resurfacing shall be constructed when the exploratory excavations are made in an area located within the proposed project excavations.

The permanent resurfacing when specified shall be constructed when the exploratory excavations are made in an area located outside the proposed project excavation. Said permanent resurfacing shall be of the type and thickness specified or as field conditions may otherwise require. In either case, the excavations shall be backfilled by the methods and to the relative density specified.

This work shall be performed as soon as practical after award of the contract and in any event a sufficient time in advance of construction to avoid possible delays to the Contractor's work. All costs for making such exploratory excavations (including the backfilling and the resurfacing as specified herein) shall be included in the prices bid for the various items of work.

Utilities which upon exploration are found to interfere with the permanent project work will be relocated, altered, or reconstructed by others in accordance with the provisions of Section 5.05 herein, or the Engineer may approve and order changes in location, line or grade of structures being built, in order to avoid the utilities. The cost of such changes will be paid for under applicable bid items or as "Extra Work" as provided under section 4.07.

Work required in connection with utilities because of interference with contract work will be performed and paid for as specified in the following paragraphs.

5.05 BY OTHER THAN THE CONTRACTOR
When it is stated in the detailed specifications or indicated
on the drawings, that a utility is to be relocated, altered or
reconstructed by other than the Contractor; the Contracting
reconstructed all negotiations with the owners in respect
Agency will conduct all negotiations with the owners in respect
to such work and the work shall be done at no cost to the
Contractor.

Service connections which physically interfere with project structures or appurtenances, whether or not so stated or indicated, shall be relocated by other than the Contractor; except as otherwise specified or unless directed by the Engineer in accordance with section 5.08.

5.06 BY THE CONTRACTOR UNDER A SPECIFIC CONTRACT ITEM When the bidding schedule contains a separate item covering the relocation, alteration, or reconstruction of a utility by the Contractor, the price bid for said item shall cover all costs involved in such work.

The Drawings and detailed specifications will give the construction details for the work, and unless the time at which the work must be done is specified in the detailed specifications, the Contractor shall coordinate with the owner in respect to when the work is to be done.

5.07 BY THE CONTRACTOR BUT NOT UNDER A SPECIFIC CONTRACT ITEM

When work on a utility is specified or indicated on the drawings to be done by the Contractor, but is not included as a separate contract item in the bidding schedule, the Contracting Agency will make all armangements with the owner of the utility in respect to the construction details, however, the Contractor shall coordinate with the owner as to when the work is to be done. Any costs for such work shall be absorbed in the unit prices or included in the lump sum amounts bid for the various contract items.

5.08 BY THE CONTRACTOR \_ SERVICE CONNECTIONS (EXCEPT SANITARY SEWERS)

For the purpose of these specifications, service connections shall be construed to mean all, or any portion of, the conduit, cable or duct which connects a utility main distribution line to the meter box of an individual user.

Except when shown on the drawings to be relocated by others. and except as otherwise specified herein, the alteration or permanent relocation of service connections which physicallly interfere with project structures, or appurtenances thereto, which are to be constructed under this contract shall, when directed by the Engineer, be arranged for by the Contractor in accordance with the requirements of the utility owner. The Costs for such work will be paid for as "Extra Work" as per section 4.07.

5.09 BY THE CONTRACTOR FOR HIS OWN CONVENIENCE

The temporary or permanent relocation or alteration of utilities including service connections, desired by the Contractor for his own convenience shall be the Contractor's own responsibility

and he shall make all arrangements regarding such work. The costs of such work shall be absorbed in the unit prices or included in the lump sum amounts bid for the various contract items.

- DISCLOSED DURING CONTRACT WORK

  In the event that a utility is disclosed subsequent to the award of the contract, such utility not being indicated on the drawings, or in the event that an existing utility is found to be in a materially different location than shown on the drawings and thus requires additional or more costly work on the part of the Contractor for its maintenance, relocation, or support, the necessary alteration, relocation, proper support and protection shall be done and paid for as follows:
- a. When said utility is found to occupy the space to be occupied by a part of the permanent works to be constructed, or when utility is, in the opinion of the Engineer, in such close proximity to the new work as to require the relocation or alteration of said utility the Contracting Agency will arrange for such relocation or alteration, or require the Contractor to do so as "Extra Work" as per section 4.07.
- b. When any portion of a utility is in close proximity and more or eess parallel to the structure of conduit and does not lie between the vertical planes or pay lines specified in subparagraph a. above, the Contractor shall advise the owner thereof, and in cooperation with the owner, provide and place the necessary support for proper portection to insure continuous and safe operation of the utility structure. All costs for such work shall be borne by the Contractor.
- c. With the exception of service connection, when said utility lies within the excavation but does not intercept the permanent works to be constructed and when the length of said utility between the vertical planes or pay lines specified in paragraph a. above, is less than five times the perpendicular distance between pay lines, the Contractor shall maintain the utility in place. The work of maintaining the utility in place will be considered as "Extra Work". (See section 4.07)
- The Contractor shall be held responsible for all costs for the repair of any and all damage to the contract work or to any utility (Whether previously known or disclosed during the work). as may be caused by his operations. Utilities not shown on the drawings to be relocated or altered by others, shall be maintained in place by the Contractor. Utilities which are relocated by others in order to avoid interference with structures and which cross the project work shall be maintained in their relocated positions by the Contractor. All costs for such work

shall be absorbed or included in the prices bid for the various items of work.

The Contractor shall notify the owners of all utilities at least 2 working days in advance of excavating around any of their structures.

DELAYS CAUSED BY FAILURE TO RELOCATE UTILITIES
Where parties other than the Contractor are responsible for the
relocation of utilities, and a delay in the Contractor's work
is caused by the failure on the part of said parties to remove
or relocate such utilities in time to prevent such delay, or
by any action or lact of action on the part of the Contracting
Agency, it shall be understood that the Contractor shall not be
entitled, as a result of such delay to his work, to damages or
additional payments over and above the contract price. If
delays in the Contractor's work are caused by the reasons mentioned herein, the Contractor shall be entitled to an extension
of time. The length of such extension of time will be determined by the Engineer with consideration as to the effect of
the delay on the project as a whole.

In order to minimize delays to the Contractor caused by the failure of other parties to relocate utilities which interfere with structures, the Contractor, upon request to the Engineer, may be permitted to temporarily omit the portion of work affected by the utility. The portion thus omitted shall be constructed by the Contractor immediately following the relocation of the utility involved.

5.13 PERMANENT SURVEY MARKERS
The Contractor shall notify the Engineer not less than seven days prior to starting work in order that the Engineer may take necessary measures to insure the preservation of survey monuments, stakes, or bench marks without the consent of the Engineer, and shall notify the Engineer and bear the expense of replacing any that may be disturbed without permission. Replacement shall be done or arranged for only by the Engineer.

When a change is made in the finished elevation of the pavement of any roadway in which a permanent survey monument is located the Contractor shall, at his own expense, adjust the monument cover to the new grade unless otherwise specified.

5.14 LOT STAKES
Unless otherwise directed by the Engineer or shown in the plans, the Contractor shall preserve existing survey stakes that mark property lines and corners. Any stakes that become lost or disturbed by his operations shall be replaced at the Contractor's expense and by a Registered Civil Engineer or Registered Land Surveyor.

5.15 SURVEY SERVICE
The Engineer will furnish and set construction stakes establishing lines and grades as determined necessary by the Engineer for all work indicated on the plans or required under the contract, including lines and grades for street excavation and fill, finished subgrade, finished base gravel, curbs and gutters, walks, structures and utilities, and will furnish the Contractor all the necessary information relative to the lines and grades.

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Line and grade stakes will be offset from the construction area. They will show the offset distances, stationing and required cut or fill to the finished grade or flow line as indicated on the plans or grade sheet. Upon request a copy of the grade sheet will be furnished to the Contractor. Grade stakes will be set by the Engineer to the finished grade of the subgrade and also of the base gravel, or as determined necessary by the Engineer, and the tops of these stakes marked blue or red.

The Contractor shall construct the work in accordance with the Engineer's stakes and marks, making use of them before they are disturbed, and shall be charged with full responsibility for conformity and agreement of the work with such stakes and marks.

The Contractor shall be responsible for the preservation of construction survey stakes and marks for the duration of their usefulness during construction. If any construction survey stakes are lost or disturbed, and in the opinion of the Engineer need to be replaced, such replacement shall be by the Engineer at the expense of the Contractor. The cost of replacing them shall be charged against, and shall be deducted from, the payment for the work.

The Contrator shall give notice to the Engineer not less than two working days in advance of when he will require survey services in connection with the laying out of any portion of the work.

5.16 PRIVATE ENGINEERS
Surveying by private engineers on permit projects or any other work under the control of the Contracting Agency shall conform in all respects to the quality and practice required of the Contracting Agency's surveyors as set forth in subsection 5.15 above.

#### 5.17 LINE AND GRADE

All work, during its progress and upon its completion, shall conform to the lines, elevations, and grades shown on the plans. Distances and measurements, except elevations and structural dimensions, are given and made on horizontal planes.

Three consecutive points set on the same slope shall be used together in order that any variation from a straight grade can

be detected. If any such variation is found, it shall be reported to the Inspector; and, in the absence of such report prior to completion of grade, the Contractor shall be responsible for any error in the grade of the finished work.

PRESERVATION OF PROPERTY
The Contractor shall protect all public and private property
including irrigation berms, insofar as it may be endangered by
his operations and he shall take every reasonable precaution to
avoid damage to such property.

Public or private improvements of facilities within the right of way not designated fro removal but visibly evident or correctly shown on the plans which are damaged or injured directly or indirectly by or on account of any act, omission, or neglect of the Contractor in the execution of the work shall be restored by the Contractor at his expense to a condition substantially equivalent to that existing before such damage of injury occurred, by repairing, rebuilding, or otherwise affecting restoration thereof, or if this is not feasible, a suitable settlement shall be made with the owner of the damaged property.

The Contractor shall give reasonable notice to occupants of buildings on property adjacent to the work to permit the occupants to remove vehicles, trailers and other possessions as well as salvage or relocate plants, trees, fences, sprinkler systems, or other improvements in the right of way which are designated for removal or which might be destroyed or damaged by the Contractor's operations.

The Contracor shall be responsible for the protection of all designated trees and planted areas within the right of way. He shall also exercise care and conduct his operations so as to minimize damages to other planted areas.

DAMAGE TO RAILROADS 5.19 The provisions given elsewhere herein, which require the Contractor to protect property against damage, and which place upon the Contractor all responsibility for damage to property, injury to persons, and loss, expense, inconvenience and delay to the owners of property and others, shall be understood to apply in connection with railway lines or railroads the same as in connection with other kinds of property. In the protection of railway lines and railrodds, however, the Contractor will be required to exercise particular care to avoid any damage which might result in train wrecks or in delays in train service. In the performance of work in close proximity to railroad tracks, he shall consult with the railroad owners or officials in regard to means and methods of conducting the work, and, unless the Engineer orders otherwise, he shall use in the performance of the work means and methods which are not unsatisfactory to said owners or officials, and he shall at his own expense provide such trackwalkers and flagmen as GS - 24

the said owners and officials may deem necessary for the adequate protection of the railroad property and train service.

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The Contractor shall be solely and directly responsible to the owners and operators of such properties for any damage, injury, expense, loss, inconvenience or delay which may result from the caryying out of the work to be done under this contract, and if the Special Provisions so specify, he shall give bond or insurance in the amount therein specified to each corporation, company, partnership, or individual owning or operating any of the properties affected, in guarantee of this responsibility. Any extension of time granted the Contractor in which to complete the contract shall not relieve him or his surety from this responsibility.

PROTECTION OF MATERIALS AND WORK
The Contractor shall provide and maintain substantial and
adequate protection as necessary to protect new or existing work,
and all items of equipment and furnishings, for the duration of
the contract, except that by Board action the Contractor may
be relieved of certain responsibilities for maintenance and
protection of completed portions of the work as provided under
Section 23, hereof.

Unless relieved of responsibility as provided under section 5.21, the Contractor and his sureties shall be fully liable for any loss or damage to the works referred to in the contract, resulting from any cause whatsoever, including but not limited to fire, theft, vandalism, malicious mischief, or injury or damage by the elements, except for any loss or damage that may be occasioned by acts of God, acts of the public enemy, acts of governmental authorities, or any act, ommission, or default of the Contracting Agency prior to completion of the project and final acceptance thereof by the Contracting Agency.

5.21 RELIEF FROM MAINTENANCE AND RESPONSIBILITY
Upon the request of the Contractor and with the approval of the
Contracting Agency, or upon the order of the Contracting Agency,
the Contractor will be relieved of the duty of maintaining and
protecting certain portions of the work which are ready to be
placed in service and which have been completed in accordance with
the plans and specifications, including cleanup.

In addition, such action by the Contracting Agency will relieve the Contractor of responsibility for injury or damage to said completed portions of the improvement resulting from use by public traffic or from the action of the elements or from any other cause, excepting injury or damage resulting from the Contractor's own operations or from his negligence. The Contractor will not be required to again clean up such portions of the improvement prior to field acceptance, excepting for such items of work as result from his operations. However, nothing in this section shall be construed as relieving the Contractor from full responsibility for making good defective

work or materials found to be defective.

5.22 STORAGE OF MATERIALS IN PUBLIC STREETS, ROADS, OR

Materials shall not be stored in streets, roads, or highways for longer than four working days after being unloaded, unless a longer storage period is permitted by the Engineer. In the event the rate of progress of construction is such that the materials stored in streets, roads, or highways is not installed in its final position within the time period stipulated hereinabove, the Contractor shall, when so directed by the Engineer remove such materials to storage areas to be provided by the Contractor at his own expense.

Unless otherwise permitted by the Engineer, no storage of excavated material will be permitted in public streets, roads, or highways. After the placing of the backfill in said trench, all remaining excavated material shall be removed from the site of the work.

5.23 HISTORICAL AND ARCHAEOLOGICAL REPORTS
Where historical objects of archaeological and paleontological
nature, including ruins, sites, buildings, artifacts, fossils
and other objects of antiquity are encountered within the areas
on which the contractor's operations are performed, the Contractor
shall postpone operations in the area, shall preserve such
objects from disturbance or damage and shall notify the
Engineer of their existence and location.

Upon receipt of such notification, the Engineer will arrange for the disposition of the objects or for the recording of data relative thereto, and will notify the Contractor when it is proper for him to proceed with the work in the affected area. If the Contractor is directed by the Engineer to perform any work in salvaging said objects, the Contractor shall do so on the "extra work" basis set forth in section 4.07.

5.24 LIGHT, POWER, AND WATER
The Contractor shall furnish temporary light, power, and water
complete with connecting piping, wiring, lamps, and similar
equipment necessary for the work as determined by the Engineer..
The Contractor shall install, maintain, and remove his temporary
lines upon completion of work. All expenses in connection with
temporary services and facilities shall be paid by the Contractor.

Section 6 - Control of Materials
6.01 MATERIALS AND WORKMANSHIP
All materials, parts and equipment furnished by the Contractor
shall be new, high grade, and free from defects and imperfections unless otherwise hereinafter specified. Workmanship shall
be in accord with the best standard practices. Both materials
and workmanship shall be subject to the approval of the Engineer.

All materials and workmanship not conforming to the requirements of those specifications shall be considered as defective and will be rejected. Defective material whether in place or not, shall be removed immediately from the site of the work by the Contractor at his expense when so directed by the Engineer. No rejected material, the defects of which have been subsequently corrected, shall be used until approval in writing has been given by the Engineer.

In the event any defect in material or workmanship is of a minor nature and the Engineer determines that it is not of such consequence as to result in a dangerous and undesirable condition, the Contracting Agency shall have the right to retain such work and make such deductions in the payment therefor as they determine reasonable and in the public interest. Such determination by the Contracting Agency shall be final.

Except as may otherwise be provided, all testing that may be required by the Contracting Agency to determine the quality, fitness and suitability of such materials shall be performed under the direction and upon the order of the Engineer, and at no expense to the Contractor; samples being secured and tested whenever considered necessary by the Engineer. In those cases in which the Contractor is required to provide and bear the expense of such testing the specifications or drawings will definitely so state.

The Contractor, at his own expense, shall deliver the materials for testing at the time and to the place designated by the Engineer.

Whenever in the specifications any particular materials, process, and/or equipment is indicated or specified by patent, proprietary, or brand name, or by name of manufacturer, such wording shall be deemed to be used for the purpose of facilitating description of the material, process, and/or equipment desired, and shall be deemed to be followed by the words "or equal". The lists of acceptable materials indicated in various sections of the specifications, or on the drawings, for materials are not intended to be comprehensive lists, or in any order of preference. The Contractor may offer any material, process, and/or equipment which complies with the governing specification and which he considers to be equivalent to that indicated or specified.

If a substitute offered by the Contractor is not found by the Engineer to be equal to the material specified, or indicated, then the Contractor shall furnish and install the specified or indicated by name.

The Contractor shall, before installation, submit data substantiating a request for a substitution of "an equal" item.

The Contractor shall, at his own expense, furnish information and/or data concerning the material and/or equipment offered by him as an equivalent to that specified or indicated by name; and if the Engineer shall so require, the Contractor, at his own expense, shall have the said material tested as to its quality, strength, physical, chemical, and/or other pertinent characteristics, including durability, finish, efficiency, dimensions, service, and suitability to perform the function intended to be served by the material and/or equipment.

The method of performing the test or tests shall be subject to the approval of the Engineer, and the results of said tests shall be reported promptly to the Engineer, who shall evaluate the results thereof and shall determine whether or not the substitute material and/or equipment so tested is deemed to be equivalent, and his findings shall be final. Installation and use of the material shall not be made until such substitute material has been approved by the Engineer.

The time specified for completion of the work under the contract shall not be affected by any circumstance whatsoever developing from the provisions of this section.

6.04 OREGON PRODUCED MATERIALS
The Contractor shall comply with the applicable provisions of sections 279.036 through 279.044 of the Oregon Revised Statutes, which relate to restrictions on use of meterials produced outside of the State of Oregon.

All nonmetallic mineral construction materials that are to be used in the work to be done under the contract, excepting cement, sand, gravel, crushed rock and plaster, and excepting materials of kinds not produced or manufactured in Oregon, shall be Oregon produced or Oregon manufactures materials, unless the Contractor has submitted alternate proposals covering the use of such Oregon materials and the use of materials from outside the State, and the Contracting Agency has accepted the proposal which is based upon the use of materials from outside the State. Such alternate proposals shall be accompanied by letters setting forth quotations from producers or manufacturers of the prices f.o.b. the project of the materials produced or manufactured outside of Oregon which are proposed to be used by the Contractor in the work.

With respect to such common building materials as cement, sand, crushed rock, gravel, plaster, etc. the Contractor shall use Oregon produced or manufactured materials in all cases where the bid prices of such materials are no greater than those of similar materials produced or manufactured outside of Oregon.

The provisions in section 6.04 do not apply to contracts on projects financed wholly or in part by Federal funds.

### Section 7 - Responsibility To The Public

7.01 PUBLIC CONVENIENCE
The Contractor shall so conduct his operations as to offer the least possible obstruction and inconvenience to traffic, and he shall have under construction no greater amount of work than he can prosecute properly with due regard for the rights of the public.

The Contractor shall obtain prior approval from the Engineer for the closing or partial closing of any street, alley or other public thoroughfare. He shall also give advance notice of such closure to all agencies providing emergency services, including police, fire, and ambulance services.

Unless otherwise provided by the plans or project specifications or authorized by the Engineer, vehicular access to properties at established driveways and pedestrian access to building entrances shall be provided and maintained by the Contractor, except for such periods of time as may be reasonably necessary to expeditiously complete those construction operation which preclude such access.

The Contractor shall conduct his operations in a manner which will minimize interference with the normal use of property adjacent to the construction.

Occupants of property fronting on the street shall be given at least 24 hours advance notice that the entire street or half the street, as the case may be, will be closed to vehicular traffic whenever necessary for the normal prosecution of the work. Such notices shall be given by the Contractor unless otherwise directed by the Engineer, or otherwise specified in the Special Provisions. Parking of cars may be prohibited on streets where construction work, such as grading or paving operations are in progress. When directed by the Engineer, traffic shall be controlled or routed through the construction area, such as maintaining controlled or one-way traffic over one-half of the street while construction is progressing on the other half.

In order that all unnecessary delay to the traveling public may be avoided where ordered by the Engineer, the Contractor shall provide and maintain temporary "No Parking" and/or detour signs pilot cars, and station competent flagmen whose sole duties shall consist of directing the movement of public traffic either through or around the work. Signs shall be of standard size and design as approved by the Engineer amd shall comply with the requirements specified in section 27 hereof. Such signs shall be removed as soon as practicable or when directed by the Engineer.

The cost for all work involved in providing for public convenience including detours, as set forth in this article shall be considered as included in the prices paid for the various contract items of work and no additional allowance will be made.

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7.02 DETOURS
The Contractor shall construct and maintain emporary detours as shown on the plans or specified in the Special Provisions, or as necessary to provide adequate passage of public traffic and for protection of his work, or as determined necessary by the Contracting Agency. Routing and width of detours shall be approved by the Engineer.

Unless otherwise specified, when a detour is required the Contractor shall be governed by the following:

A Permit will be required from the Contracting Agency for all detours of traffic.

- 1. One day duration
  - (a) Passable no gravel but graded
  - (b) Water and maintain smooth and dust free
- 2. One day to one week duration
  - (a) Gravel
  - (b) Water
  - (c) Maintain smooth and dust free
- More than one week if on a major or secondary street (if on a collector street, treatment No. 2 above will suffice).
  - (a) Gravel 2 in. and graded
  - (b) Penetration with a minimum of .30 gal. per sq. yd. MC 70
  - (c) Maintain with patching of chuck holes.
- 4. General Conditions
  - (a) If maintenance is not performed, the Contracting Agency will do the maintenance and bill the Contractor at rates specified in section 4.07 thru 4.10.
  - (b) When directed by the Engineer detours shall be removed and all ditches, etc., restored before the permit is closed out. If restoration is delayed more than one week after completion of work, the Contracting Agency will restore the area and bill the Contractor.
  - (c) Before pavement is cut, the Engineer must approve the construction and barricading.

(d) Provisions for public convenience and public safety shall be maintained in compliance with sections 7.01 thru 7.03 hereof.

The Engineer will reserve the right to estimate the expected time the detour will be in use and will order construction accordingly.

7.03 PUBLIC SAFETY
The Contractor shall erect and maintain temporary fences, traffic control signs, bridges, railings, lights, and barriers, taking all other necessary precautions, and place proper quards for prevention of accidnet. In the event any of the above items become misplaced, damaged, or destroyed, they shall be replaced immediately in their proper location.

All warning signs, barriers, barricades, lights and performance of flagmen shall conform to the "Oregon Manual on Uniform Traffic Control Devices for Streets and Highways" issued by the Oregon State Highway Department, local ordinances, and existing published rules and/or traffic control manuals and regulations of the Contracting Agency.

The Contractor shall at all times keep open or backfilled excavations in a safe or protected condition. In the event of the existence of unsafe or hazardous conditions in the Contractor's work or operations, the Contractor shall immediately take such measures as are necessary to eliminate the conditions.

The cost for all work involved in providing for public safety as set forth in this article shall be considered as included in the prices paid for the various contract items of work and no additional allowance will be made.

Access shall be provided to all fire hydrants at all times. Pavements and sidewalkds adjacent to fire hydrants shall be kept clean and clear of debris, materials and Contractor's equipment. The Contractor shall not draw any water from a fire hydrant for use on the work other than for extinguishing fire, without first obtaining permission from the owner. Slow-closing valves will be required in connection with the use of fire hydrants. Unnecessary wasting or leakage of water shall not be permitted.

In the event a fire hydrant is damaged, or for any reason becomes inoperative, or is placed out of service due to the nature of the construction, it shall be the Contractor's responsibility to immediately notify the owner and the Engineer.

7.05 USE OF EXPLOSIVES
The use of explosives will be permitted only when authorized in writing by the Engineer unless otherwise stated in the Special

Provisions. Explosives shall be handled, used, and stored in accordance with the provisions and requirements of all applicable laws, ordinances, and regulations with respect thereto.

The approval by the Engineer for rhe use of explosives shall not relieve the Contractor from his responsibility.

7.06 SAFETY
Construction materials, equipment, methods and workmanship shall be in accordance with applicable local ordinances and State laws. The Contractor shall comply with the lawful orders and codes issued by the Workmen's Compensation Board of the State of Oregon.

7.07 LABOR
The Contractor shall be bound by and comply with all applicable provisions of the Revised Statutes of the State of Oregon and shall keep informed of and observe and comply with, and cause all of his agents and employees to observe and comply with, all Federal, State, and local laws which in any way affect the conduct of the work of this contract.

None but competent workmen shall be employed on any work under these specifications; and any laborer, workman, mechanic, foreman, superintendent, or otherperson so employed who is found to be to incompetent, intemperate, troublesome, disorderly or otherwise objectionable, or who fails or refuses to perform his work properly and acceptably, shall be removed from the job immediately upon notification in writing, and not again employed on the work unless approved by the Engineer.

7.07 NONDISCRIMINATION OF LABOR
The attention of the Contractor is directed to the provisions of Chapter 659, Oregon Revised Statutes relative to unlawful employment practices and discrimination by employers against any employee or applicant for employment because of race, religion, color, or national origin. Particular reference is made to Section 659.030 ORS, which states that it is an unlawful employment practice for an employer, because of the race, religion, color or national origin of any individual, to refuse to hire or employ or to bar or discharge from employment such individual or to discriminate against such individual in compensation or in terms, conditions or privileges of employment.

In the event the contract is funded in whole or in part by Federal funds, the Contractor shall comply with all provisions of Executive Order No. 11246 or September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

In the event of the Contractor's noncompliance with the nondiscrimination clauses of a contract so funded, or with any such rules, regulations, or orders, the contract may be cancelled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts or Federally assisted construction contracts, in accordance with procedures authorized in Executive Order No. 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invokes as provided in Executive Order No. 11246 of September 14, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

- 7.09 PREFERENCE TO WAR VETERANS
  As required by ORS 408.220, the Contractor shall, in the employment of labor, give preference to war veterans, providing such veterans possess business capacity necessary to discharge the duties of the position.
- 7.10 MINIMUM WAGES
  The Contractor shall comply fully with ORS 279.348 through 279.356, which provide in part that "the hourly rate of wage to be paid by any contractor or subcontractor to workmen upon all public works shall be not less than the prevailing rate of wage for an hour's work in the same trade or occupation in the locality where such labor is performed."

The provisions of this law do not apply to workmen or other persons regularly employed on a monthly or perdiem salary.

The "prevailing rate of wage", for the purposes hereof, shall be the rate of hourly wage and overtime paid in the locality, as hereinafter defined, to the majority of workmen in the same trade or occupation; provided, however, that if there is not a majority in the same trade or occupation paid at the same rate, the average rate of hourly wage and overtime paid in the locality to workmen in the same trade or occupation shall be the prevailing rate, and provided further, that when a contractor or subcontractor is a party to a state-wide agreement in effect with any labor organization, the rate of wages as established in the agreement shall be considered to be the prevailing rate in the locality.

If the wage paid by any contractor or subcontractor to workmen is based on a period of time other than an hour, the hourly wage shall be mathematically determined by the number of hours worked in that period.

The "locality". for the purposes hereof, shall be the largest city in the county or counties in which the work under the contract is performed.

In case any dispute arises as to what is the prevailing rate of wage for the same trade or occupation in the locality and that dispute cannot be settled by—the parties involved, the dispute shall be referred to the Commissioner of the State Bureau of Labor, who will determine the prevailing rate of wage for the same trade or occupation in the locality.

The minimum hourly rate of wage, not dess than the prevailing rate of wage, which may be paid to workmen in each trade or occupation required for the work under the contract employed in the performance of the contract either by the Contractor or subcontractor or by other person doing or contracting to do the whole or part of the work contemplated by the contract shall be as set forth in the Schedule of Minimum Hourly Wage Rates as may be included in the Special Provisions, and the workmen employed in the performance of the contract shall be paid not less than the applicable specified minimum hourly rate of wage as such is set forth in said schedule.

Before payment is made by or on behalf of the Contracting agency of any sum or sums due under the contract, the Contractor or his surety and every subcontractor or his surety shall submit a statement in writing in a form prescribed by the State Labor Commissioner certifying under oath the hourly rate of wage paid each classification of workmen employed by him upon the work under the contract, and further certifying that no workmen employed by him upon said work has been paid less than the prevailing rate of wage or less than the minimum hourly rate of wage specified in the contract. These statements are to be submitted to the Engineer in the manner and at the times designated by him.

In case of conflict between any of the minimum hourly wage rates set forth in the schedule above referred to and other pertinent minimum hourly wage rates, as such other rates may have been set forth in the contract provisions in accordance with Federal regulations, the higher of the conflicting wage rates shall be applicable under the contract.

There is no representation on the part of the Contracting Agency that labor can be obtained at the hourly rates as may be shown in the Special Provisions. It is the responsibility of bidders to inform themselves as to local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price shall be allowed or authorized on account tof the payment of wage rates in excess of those listed.

7.11 SATURDAY, SUNDAY, HOLIDAY AND OVERTIME WORK
The Contractor shall comply fully with section 279.334 of the
Oregon Revised Statutes, which reads as follows: "In all cases
where labor is employed by the state, county, school districk,
municipality, municipal corporation, or subdivision, through a
contractor, no person shall be required or permitted to labor
more than eight hours in any one day, or 40 hours in any one
week, except in cases of necessity, emergency, or where the
public policy absolutely requires it, in which event, the person
or persons so employed for excessive hours shall receive at
least time and a half pay for all overtime in excess of eight
hours a day, and for work performed on Saturday and on legal

However, if it is necessary for the Contractor to perform construction work on Saturdays, Sundays, legal holidays or outside the 8 hours regular working day, the Contractor shall first notify the Engineer of his intent to do so prior to commencing such "overtime work". In any event, all owrk shall be subject to approval of the Engineer. Prior to the start of such work, the Contractor shall arrange with the Engineer for the continuous or periodical inspection of the work, surveys, and tests of materials, when necessary.

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- 7.12 PERMITS AND LICENSES
  Except for private contracts or unless otherwise specified elsewhere in these specificiation, the Contracting Agency will obtain required permits for the work. The Contractor shall obtain all other permits and licenses and pay any fees connected therewith, having to do with his construction operation.
- 7.13 CLEARING AND BURNING PERMITS
  The Contractor shall comply fully with ORS 477.246 which reads, in part, as follows: "(1) Everyone shall, before clearing any right of way for any highway or railroad, or any power, commercial telegraph or telephone line, or for any transmission or transportation utility right of way on any forest land, whether upon his land or that of another, where the clearing would constitute a fire hazard, file with the forester a general description of the right of way to be cleared. The forester shall issue a written permit for such clearing. The permit shall set forth the precautionary conditions and manner under which the clearing shall be done."
- "(2) No one at any time engaged in clearing any right of way or forest land shall place on adjoining land or property any forest material or debris resulting from such clearing without the permission of the owner of the adjoining land."
- 7.14 LICENSING OF CONTRACTORS
  The Contractor shall be licensed in accordance with all state
  and local requirements.
- 7.15 PATENTS, FEES OR ROYALTIES
  In the event that any patented article, material or process is to be installed or used in the performance of the work as shown on the plans or particular specifications therefor, the Contractor shall pay the royalty chargeable, if any, and shall save, keep and hold the Contracting Agency harmless from all damage, costs and expenses by reason of any infringement of the patent thereof, and any loss to the Contracting Agency if enjoined from using such patented article or material and the incidental damage caused by the loss of use and damage to the Contracting Agency's property in removing same, and cost of replacing the article or material the use of which is enjoined. Provided further the Bond for Faithful Performance shall be deemed to expressly apply to this provision of the specifications.

- 7.16 LIABILITY FOR MONIES DUE STATE COMMISSIONS
  The Contractor shall promptly pay all contributions or amounts due the State Industrial Accidnet Fund and the State Unemployment Compensation Trust Fund from such Contractor or his subcontractors, incurred in the performance of the contract, (see ORS 279.510).
  The Contractor shall pay all sums of money withheld from his employees and payable to the State Tax Commission pursuant to ORS 315.575, 316.575 or 316.711 and 316.714.
- 7.17 LIABILITY FOR AMOUNTS DUE HOSPITAL ASSOCIATIONS, ETC. The Contractor shall comply fully with ORS 279.320 which reads in part as follows:
- "... The Contractor shall promptly, as due, make payment to any person, copartnership, association, or corporation, furnishing medical, surgical and hospital care or other needed care and attention, incident to sickness or injury, to the employees of such Contractor, of all sums which the Contractor agrees to pay for such services and all moneys and sums which the Contractor:
- "(1) May or shall have deducted from the wages of his employees for such services pursuant to the terms of ORS 655.010 to 655.160 and any contract entered into pursuant thereto; or
- "(2) Collected or deducted from the wages of his employees pursuant to any law. contract or agreement for the purpose of providing or paying for such services."
- 7.18 CONTRACTOR"S CONSTRUCTION EQUIPMENT
  The Contractor shall furnish and maintain in good condition all equipment and facilities including stairs, ramps, runways, scaffolds, hoists, etc., as required for the proper execution and inspection of the work. All such equipment and facilities shall meet all requirements of all ordinances and laws applicable thereto.
- 7.19 RIGHT OF WAY
  The right of way for the improvement will be provided by the
  Contracting Agency. Unless the plans or specifications show
  additional work area to be provided by the Contracting Agency,
  the Contractor shall make his own arrangements and pay all
  expenses for additional area required by him outside the limits
  of the right of way.

# Section 8 - Prosecution and Progress

8.01 PROGRESS OF THE WORK
The Contractor shall commence the work within 10 calendar days after receiving notice to proceed, unless otherwise stated in the Special Provisions, and shall diligently prosecute the same to completion within the time limit specified.

GS - 36

8.02 CONTRACTOR'S CONSTRUCTION SCHEDULE
Before stargin work, the Contractor shall submit for approval
his propsed construction schedule to the Engineer. In the event
the Contractor desires to carry on operations in more than one
location simultaneously he shall submit for approval a schedule
therefor two weeks in advance of beginning such operations. In
the event that the Contractor's proposed construction schedule
does not meet the necessary construction program schedule as
determined by the Contracting Agency, he may be required to
resubmit a schedule that shall conform to an approved
program of construction operations. The Contractor must obtain
from the Engineer written approval of a construction schedule
prior to start of work.

8.03 SUSPENSION OF WORK
The Engineer shall have the authority to suspend the work
wholly or in part for such periods as may be necessary because
of unsuitable weather or unforeseen conditions or the failure
of the Contractor to carry out lawful orders to comply with any
of the provisions of the contract. The Contractor shall
immediately suspend work when so ordered, and he shall resume
work after such suspension only on written instructions from
the Engineer. Upon receipt of such instructions to resume work,
he shall immediately proceed with the work.

If through the fault of the Contracting Agency, the Contractor must suspend operations and incurs expenses or sustains losses which could not have been avoided by the judicious handling of forces and equipment, and if by a diligent prosecution of the work he could not have completed the work before such suspension, the Contractor will be paid such amounts as may be agreed upon between the Contractor and the Contracting Agency to be a fair and reasonable compensation and a commensurate extension of contract time will be granted.

If work is suspended through no fault of the Contracting Agency all such expenses and losses incurred by the Contractor during such suspensions of work shall be borne in full by him. In the event the Contractor fails to properly provide for public safety, traffic, and protection of the work during periods of suspension of work, the Contracting Agency may elect to do so, and deduct the cost thereof from monies due the Contractor.

8.04 TIME OF COMPLETION
The Contractor shall complete the work called for under the contract in all parts and requirements within the number of callendar days set forth in the contract. Unless otherwise provided, all work shall be performed during normal working days. A working day is defined as any day except Saturdays, Sundays, legal holidays, days on which the Contractor is specifically required by the contract to suspend construction operations, and days on which the Contractor is prevented from working by inclement weather or interference from utility relocation or alteration work. Credit for inclement weather or interference

from utility relocation or alteration work will be allowed only when the Contractor is prevented by such work will be allowed only when the Contractor is prevented by such weather or utility work or conditions resulting immediately therefrom, from proceeding for at least five hours with at least 75% of the normal labor and equipment force engaged in the current controlling operation or operations.

Should the Contractor prepare to begin work at the regular starting time in the morning of any day on which inclement weather or the conditions resulting from the weather, or the condition of the work, prevents the work from beginning at the usual starting time and the crew is dismissed as a result thereof, the Contractor will not be charged for a working day whether or not conditions should change thereafter during said day and the major portion of the day could be considered suitable for such construction operations.

The current controlling operation or operations is to be construed to include any feature of the work which, if delayed at the time being considered, could delay the completion of the work behond the contract period.

Determination of each nonworking day except Staurdays, Sundays, legal holidays, and days on which the Contractor is specificially required by the contract to suspend construction operations shall be made and agreed upon during such day by conference between the Engineer and the Contractor. In the event of failure to agree, the Contractor will be allowed 15 days in which to file a written protest setting forth in what respects he differs from the Engineer. Otherwise the decision of the Engineer shall be deemed to have been accepted by the Contractor as correct.

LIQUIDATED DAMAGES 8.05 It is agreed by the parties of the contract that in case all of the work required under the terms of this contract is not completed within the number of calencar days as specified therefor in the contract or any lawful extension thereof as provided herein, damage will be sustained by the Contracting Agency as a result thereof, but to definitely determine and ascertain the actual amount of such damage, either before or after the occurrence thereof would be difficult and impractical. The sum stated in the Special Provisions for liquidated damages for each and every calendar day that the completion of said work is delayed beyond the prescribed completion date, or lawful extansion thereof, is hereby stipulated as being the nearest and most exact measure of such damage than can be fixed at this or any subsequent time; and when so assessed by the Contracting Agency, the Contractor shall become liable for and shall pay to the Contracting Agency as liquidated damages and not as a penalty said smm per day for each and every calendar day of such delay. When the amount of liquidated damages is not stated in GS - 38

the Special Provisions, it is agreed by the parties to the contract that the amount of liquidated damages shall be One Hundred Dollars (\$100.00) per day for each and every calendar day of such delay. The amount of such liquidated damages may be deducted by the Contracting Agency from any compensation due, or that may become due, the Contractor under his contract, and the Contractor and his sureties shall be liable for any excess.

It is further agreed that if the work is not finished and completed in all parts and requirements within the number of calendar days as specified therefor in the contract or any lawful extension thereof as provided herein, the Contracting Agency will have the right to extend the time for completion if to do so seems best to serve its interests; and in case said Contracting Agency decides to so extend the time limit for the completion of the work, it shall have the further right to charge to the Contractor, his heirs, assigns, or sureties, all or any part as it may deem proper, the actual costs of engineering, inspection, supervision, and other overhead expenses, that are directly chargeable to the contract and accrue during the period of such extension, and deduct the amount thereof from the final payment for the work; provided, however, that the cost of the final survey and preparation of the final estimate will not be included in such charges.

In the event that the Contractor is directed to perform extra or additional work, the number of calendar days specified in the contract shall be extended by an amount determined by application to the original number of calendar days of the ratio that the value of the extra or additional work bears to the original contract value.

Should the nature of the extra or additional work be such that the Contractor believes that a longer time extension should be granted than that computed by the above procedure, he may notify the Engineer in writing.

The Contracting Agency may grant such additional time extension as it feels is warranted.

Should any default, act or omission of the Contracting Agency, act of the State, act of public enemy or act of God, epidemic, quarantine restriction, strike, freight embargo, fire or flood cause any delay in the completion of the work the Contractor will not be assessed for liquidated damages nor engineering or other overhead charges for the period of such delay, provided that he shall, within ten (10) days subsequent to the beginning of any such delay, file a written report as to the cause thereof with the Engineer, who will ascertain the facts relative thereto and the extent of the delay, and whose finding in connection therewith shall be final and conclusive. The Contracting Agency shall not be liable to the Contractor for any damages on account of such delay.

8.06 RESPONSIBILITY OF CONTRACTOR AND OF CONTRACTOR'S REPRESENTATIVE ON THE WORKS

The Contractor shall give his personal attention and supervision to the work until same is entirely completed. In the absence of the Contractor from the work, he sahll have a representative in charge who shall be competent to superintend and direct the progress of the work and who shall be authorized to receive insturctions and to act for the Contractor on all matters relating to the work. The name, address and telphone number of this representative shall be sent by letter to the Engineer immediately after the awarding of the contract.

PROVISIONS RELATIVE TO DEFAULT BY CONTRACTOR 8.07 If, at any time, the Contractor shall neglect or refuse to prosecute the work with reasonable diligence, or should refuse or neglect to perform the work according to the drawings and specifications, as interpreted by the Engineer, the Contracting Agency will give him written notice to proceed. If the Contractor fails to comply with such notice within a period of seven (7) days, he shall be in default of the contract. The Contracting Agency will have the right, without further notice to the Contractor, and without voiding the contract, to take possession of all materials, to complete the work, and to charge cost of so doing against the Contractor. Should the unpaid balance of the contract price exceed the expense of finishing the work, including compensation for additional managerial and administrative services, such excess shall be paid to the Contractor. such expenses shall exceed the balance due the Contractor, the Contractor and his bondsmen agree to pay the excess to the Contracting Agency.

Notice, for the purposes of this section, may be served personally, or may be served by mail, adressed to the Contractor and his surety at their respective places of business as indicated in the contract documents.

The determination by the Engineer of the question as to whether any of the terms of the contract or specifications have been violated, or have not been performed saisfactorily, shall be conclusive upon the Contractor, his surety, and any and all other parties who may have any interest in the contract or any portion thereof.

The foregoing provisions of this section shall be in addition to all other rights and remedies availabe to the Contracting Agency under law.

### 8.08 TERMINATION OF CONTRACT

If conditions encountered during the progress of the work make it impossible or impracticable to proceed with the work. the Contracting Agency may order the termination of the contract. Upon such termination, the Contracting Agency will pay the Contractor

Gs - 40

fair and reasonable compensation as agreed upon between the Contractor and the Contracting Agency. In the event that no agreement is reached between the Contractor and the Contracting Agency as to fair and reasonable compensation, the Contracting Agency will be liable to the Contractor only for the reasonable value of the work performed and any other actual costs sustained by the Contractor.

8.09 ADVERTISING
No advertising matter shall be attached or painted on surfaces
of buildings, fences or canopies, except the names of contractors
and subcontractors, with their addresses and the designation
of their particular branch may be shown on signs of a removable
type. Size and location of such signs shall be subject to approval
of the Engineer.

8.10 ASSIGNMENT
No contract or any portion thereof, may be assigned without consent of the Contracting Agency except that money due the Contractor may be assigned as specified below.

The Contractor may assign money due or to become due him under the contract and such assignment will be recognized by the Contracting Agency, if given written notice thereof, to the extent permitted by law, but any assignment of money shall be subject to all proper setoffs and withholdings in favor of the Contracting Agency and to all deductions provided for in the contract, and particularly all money withheld, whether assigned or not, shall be subject to being used by the Contracting Agency for completion of the work in the event the Contractor should be in default therein.

8.11 SUBCONTRACTS
Names of subcontractors for all or any portion of the work shall be submitted to the Engineer prior to commencement of any subcontracted work. Such submittals shall state the types of work to be subcontracted and the names of the proposed subcontractors. Subcontracting all or any portion of the work shall not be construed to relieve the Contractor of any of his responsibility under the contract.

No subcontractors will be recognized as such, and all persons engaged in the work of construction will be considered as employees of the Contractor. The Contractor will be held responsible for theri work, which shall be subject to the provisions of the contract and specifications.

8.12 CERTIFICATE OF COMPLIANCE
The Contractor shall file with the Engineer, prior to the acceptance of the wor, a certificate in form substantially as follows: "I (We) hereby certify that all work has been performed and materials supplied in accordance with the plans, specifications and contract documents for the above work, and that:

- 1. Not less than the prevailing rates of wages as ascertained by the Contracting Agency has been paid to laborers, workmen and mechanics employed on this work;
- 2. There have been no unauthorized substitutions of subcontractors; no have any subcontracts been entered into without the names of the subcontractors having been submitted to the Engineer prior to the start of such subcontracted work;

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- 3. No subcontract was assigned or transferred or performed by any subcontractor other than the original subcontractor, without prior notice having been submitted to the Engineer together with the names of all subcontractors;
- 4. All claims for material and labor and other service performed in connection with these specifications have been paid.
- 5. All monies due the State Industrial Accidnet Fund, the State Unemployment Empensation Trust Fund (ORS 279.510), the State Tax Commission (ORS 315.575, 316.575, or 316.711 and 316.714), hospital associations and/or others, (ORS 279.320), have been paid."

# Section 9 0 Measurement and Payment

9.01 METHODS OF MEASUREMENT
Materials and items of work which are to be paid for on the basis
of measurement shall be measured in accordance with the
methods stipulated in the particular sections herein covering
materials or types of work.

When material is to be paid for on a volume basis and it would be impracticable to determine a volume by the specified method of measurement, or when requested by the Contractor and approved by the Engineer, the material will be weighed in accordance with the requirements specified for weight measurement and such weights will be converted to volume measurement for payment purposes. Factors for conversion from weight measurement to volume measurement will be determined by the Engineer and shall be agreed to by the Contractor before such method of measurement of pay quamtities will be adopted.

Unless otherwise provided, when mineral aggregate or roadway material is being paid for by weight, deductions from pay quantities will be made for the weight of water in excess of 3% if the material is to be treated with bitumen, and 6% if the material is to be waterbound.

9.02 MEASUREMENT OF QUANTITIES FOR UNIT PRICE WORKS.
Unless otherwise specified, linear or area quantities of work
such as grading, landscaping, paving, curb, gutter, walk and
other work of a similar nature shall be determined from
GS - 42

measurements of dimensions of such work and computed in horizontal planes. However, linear quantities of underground cable, piling, and timber, shall be considered as being the true length measured along the longitudinal axis thereof. For pipe work see related sections.

Volumetric quantities shall be determined by the average end area method.

- 9.03 UNITS OF MEASUREMENT Measurements shall be in accordance with U.S. Standard Measures. A pound shall be avoirdupois. A ton shall be 2,000 pounds. The unit of liquid measure shall be the U.S. gallon.
- When payment is specified to be made on the basis of weight, the weighing shall be done on certified platform scales sealed by the State Sealer of Weights and Measures or the City Sealer of Weights and Measures as defined by sections 618.010 through 618.090. Oregon Revised Statutes. The Contractor shall furnish the Engineer with certificates issued by the Sealer of Weights and Measures showing the actual net weights together with the information required by section 618.230. Oregon Revised Statutes. The Contractor shall pay all costs, if amy, in connection with obtaining said certificates. The Contracting Agency will accept the certificates as evidence of the weight delivered.
- Once each month, the Engineer will made an approximate measurement of the work performed to that date and an estimate of the value thereof based on the contract prices. When the work has been satisfactorily completed, the Engineer will determine the final quantity of work performed and prepare the final estimate of the value thereof. The quantities listed in the bid schedule do not govern final payment. Payments to the Contractor will be made only for the actual quantities of contract items performed in accordance with the plans and specifications and if upon completion of the construction these actual quantities show either an increase or decrease from the quantities given in the bid schedule, the contract unit prices will still prevail.

In unit price contracts, when an item for mobilization is included in the bid, this item shall include the cost of assembling of materials, plant, and equipment as set forth in said bid item and as more fully described in the specifications. An evaluation for the purpose of payment for mobilization will be included in progress estimates in unit price contracts only when mobilization is so set forth as an item in the bid. In such cases, the specifications will indicate a fixed sum or a percentage of the total bid price as a maximum that may be bid on this item.

# Section 60 - Pipe Materials and Testing for Sewers, Drains and Culverts

Pipe used in sanitary sewer construction, unless otherwise specified, shall be concrete, vitrified clay or asbestos cement. Pipe used in underdrains shall be concrete, vitrified clay, asbestos cement or corrugated metal. Pipe used in culverts, unless otherwise specified shall be concrete, vitrified clay or corrugated metal falvanized pipe. All sanitary sewer pipe shall have flexible gasketed joint unless otherwise psecified. Storm drain pipe shall be cement mortar joint or rubber gasketed unless otherwise specified. Culvert pipe shall be jointed as specified. However, where rubber gasket joints are required in smooth bore material to require tight joints all materials must so qualify.

60-2 GENERAL Where reference is made to an ASTM or AASHO designation it shall be understood to be the latest revision at time of call for bids, except as noted on the plans or in the special provisions.

60-3 MATERIALS AND TESTING

3.01 Pipe Materials

3.01A Concrete Pipe. Non-reinforced Nonreinforced concrete pipe shall conform to ASTM designation C14 and shall be of the table of strength designated.

## 3.02 JOINTING MATERIALS

3.02A Flexible Gasketed Joints
Flexible joints shall be rubber gasketed when used with concrete pipe and conform to ASTM C443. Asbestos-Cement joints shall conform to ASTM D1869. Clay pipe shall conform to ASTM C425.

Gasketed material shall be stored in a cool, clean place, protected from sunlight and contaminants until ready for installation on the pipe. Pipes with gaskets affixed shall be installed in the sewer line within 28 daya, unless adequately protected against sunlight and contaminants.

All surfaces of the joint upon or against which the gasket may bear shall be smooth, free from spalls, cracks or fractures and imperfections which would adversely affect the performance of the joint.

The joints of the pipe shall be of such design that they will withstand the forces caused by the compression of the gasket, when joined, without cracking or fracturing.

The rubber type gasket shall be the sole element depended upon to make the joint flexible and watertight.

The gasket shall be a continuous ring which fits snugly into the annular space between the overlapping surfaces of the joints of the pipe to form a flexible watertight seal. The gasket shall not be stretched more than 20% of its original

# Diameter

<del>-</del> -		
	650 lbs.	2600 lbs.
4 inches	1000 lbs.	4000 lbs.
6	1300 lbs.	5200 lbs.
8		5600 lbs.
10	1400 lbs.	6000 lbs.
12	1500 lbs.	7400 lbs.
15	1850 lbs.	8800 lbs.
18	2200 lbs.	•
21	2500 lbs.	10,000 dbs.
24 and over	2750 lbs.	11.000 lbs.
GT ALL		

While under this load, the stressed joints shall show no leakage when subject to five (5) lbs., hydrostatic pressure. As an acceptable alternate, one-half of the load may be applied on the bell of the suspended pipe.

3.04 CAP FOR FITTINGS Fittings as required shall be capped with a plug and joined by rubber gasket or equal method to withstand all test pressures involved without leakage.

MEASUREMENT AND PAYMENT
Measurement and payment for pipe and incidental accessories.
and for the testing as has been specified herein, will be included in such other of the sewer and culvert sections as their use is related to. Accessories and testing shall be considered as incidental to the materials affected and the costs thereof shall be included in the unit contract prices of applicable bid items in the proposals.

# Section 61 - Trench Excav., Backfill, Foundation and Bedding for Sewers, Drains and Culverts

- Trench excavation and backfill shall include all excavation. backfilling, disposal of surplus material, and all other work incidental to the construction of trenches, including any additional excavation which may be required for man holes or other structures forming a part of the pipe line and not otherwise classified as "Structure Excavation".
- CLASSIFICATION

  Trench excavation and backfill shall be classfied as Class A or Class B for earth excavation. Class C for rock excavation, and Class D for excavation in unsuitable earth below grade. The approximate limits and quantities for Classes A and B will be shown on the construction plans.

Classes A.B. and C excavation and backfill, where ordered by the Engineer, shall extend to the bottom of the pipe zone. Beyond this depth. Class D Excavation will be paid for.

The Engineer shall have the authority to change classifications and the limits thereof as he may deem necessary, consistent with requirements outlines under definitions of the classifications.

- TRENCH EXCAVATION AND BACKFILL, CLASS A Class A shall be trench excavation where the excavated material is piled beside the trench as it is removed and backfilled from this position, or wasted immediately adjacent to the excavation. The disposal of excess material resulting from pipe volume shall be considered as incidental to Class A. unless otherwise provided for in the special provisions.
- TRENCH EXCAVATION AND BACKFILL. CLASS B Class B shall cover all cases of trench excavation where the excavated material is transported to another site for wasting and the trench is backfilled with bank run gravel or sand as specified on the plans or in the special provisions. When bank run gravel is specified, it shall conform to Section 26-2, excepting that 100 percent of the material shall pass the 2½ inch square opening.

The Contractor shall secure and maintain all necessary waste sites unless otherwise designated on the plans of in the special provisions.

2.03 TRENCH EXCAVATION AND BACKFILL CLASS C Class C shall cover the removal and disposal of solid rock, i.e. all material which by actual demonstration, cannot, in the Engineer's opinion, be reasonably excavated with a 3/4 yard Bucyrus-Eerie 22-B backhoe equipped with a 19-foot boom.

SS - 6 - F

general duty dipper and rock points, or similar approved equipment and which in fact, removed by systematic drilling and blasting. \* and also boulders exceeding one-half cubic yard in volume. All rock, boulders or stones shall be removed to the bottom of the pipe zone.

Class C shall be supplemental to either Class A or B as shown on the construction plans or designated by the Engineer. Payment for Class C shall be in accordance with Section 61-4.01B and shall be in addition to the payment made for either Class A or B.

2.04 TRENCH EXCAVATION AND BACKFILL, CLASS D
Class D shall apply to the excavation of unsuitable material
which lies below the bottom of the pipe zone, the removal of
which may be ordered by the Engineer. Excavated materials shall
be transported to another site for wasting and the trench backfilled
to the bottom of the pipe zone with foundation material as
specified in Section 61.3.03D.

The Contractor shall secure and maintain all necessary waste sites unless otherwise designated on the plans or in the special provisions.

## 61-3 CONSTRUCTION DETAILS

3.01 EXGAVATION
The length of trench excavated in advance of the pipe laying shall be kept to a minimum. and in no case shall it exceed one hundred and fifty (150) feet unless specifically authorized by the Engineer.

Below the crown of the pipe, trench widths shall not exceed;

15-inch diameter and smaller.... 1 include diameter + 12 fee 18-inches diameter and large.... 12 x inside diameter + 18 in.

In all cases, trenches must be of sufficient width to permit proper jointing of the pipe and backfilling of material along the side of the pipe. Trench width at the surface of the ground shall be kept to the minimum amount necessary to install the pipe in a safe manner. Trenches shall be excavated with vertical trench walls. Trenches wider than the maximum specified may result in a greater load of overburden than the pipe is designed for and, consequently, if the maximum trench width is exceeded by the Contractor without the written authorization of the Engineer, the Contractor will be required at his own expense to provide pipe of higher strength classification, or to provide a higher class of bedding, as may be deemed necessary by the Engineer.

Excavation for manholes and other structures shall be sufficient to provide a minimum of twelve (12) inches between their surfaces and the sides of the excavation.

All material excavated from trenches and piled adjacent to the trench or in a roadway or public thoroughfare shall be piled and maintained so that the toe of the slope of the material is at least two (2) feet from the edge of the trench. It shall be piled in such manner as will cause a minimum of inconvenience to public travel, and provision shall be made for merging traffic where such is necessary. Pree access shall be provided to all fire hydrants, water valves and meters, and clearance shall be left to enable free flow of storm water in all gutters, other conduits, and natural water courses.

DEWATERING
Pipe trenches shall be kept free from water during pipe laying and jointing by such method as the Contractor may elect, provided the method is acceptable to the Engineer. The Contractor shall be responsible for damages of any nature resulting from the dewatering operations, notwithstanding tacit approval of the method by the Engineer.

Dewatering of the trench shall be considered as incidental to the construction and all costs thereof shall be included in various unit contract prices in the proposal, unless otherwise provided in the special provisions.

Proper preparation of foundation, placement of foundation material where required and placement of bedding material shall precede the installation of all sewer and culvert pipe. This shall include necessary leveling of the native trench bettom or the top of the foundation material as well as placement and compaction of required bedding material to a uniform grade so that the entire length of the pipe will rest firmly on a well compacted material. So the backfill material around the pipe will be placed in a manner to meet requirements specified hereinafter.

3.03B CLASSIFICATION OF BEDDING
Bedding procedures shall be classified as Class A, Class B.
Class C, and Class D and shall apply to the pipe zone defined
as that portion of the trench between the sides of the trench.
4 inches below the bottom of the pipe for pipe 27 inches in
diameter and less and 6 inches for pipe 30 inches in diameter
or larger and 12 inches above the top of the pipe. The
approximate limits for the various classes of bedding will be
indicated on the construction plans where it is feasible to do
so.

Where no special reference is made to the classification of bedding on the plans or in the specifications, it shall be construed that all bedding procedures shall be as described for class C.

The Engineer shall have the authority to change bedding classifications and the limits thereof as he may deem mecessary during SS - 8 - P

the progress of the construction, consistent with the requirements outlined under the definitions and requirements of the various classifications contained herein.

Where unauthorized excavation has been made below the established grade, the Contractor shall provide, place and compact suitable bedding material to the proper grade elevation at his own expense.

3.03Bl CLASS A. BEDDING. Class A bedding shall consist of a pipe cradle constructed of Class 4 (12) Portland Cement Concrete as specified in Section 39-3.01. The bottom of the trench shall be fully compacted before placement of pipe or cradle.

Cradle construction shall conform to the details on the standard drawing. The balance of the pipe zone shall be filled with plear granular, well graded sand and gravel material of which 100% will pass the U.S. Standard 3/4 inch opening, and not more than 3 percent will pass the U.S. No. 200 (wet sieve), with a minimum sand equivalent of 50. (Section 6.)

The unit price per lineal foot for Class A Bedding shall be full compensation for furnishing all labor, equipment and materials necessary to complete the work in accordance with these specifications.

3.03B2 CLASS B. BEDDING Class B bedding shall consist of the leveling of the trench at the bottom of the pipe zone and the furnishing, placing and compacting of bedding materials in the entire pipe zone.

Bedding material used in classes B and C bedding shall consist of clean, granular, well graded sand and gravel material of which 100 percent will pass the U.S. Standard 3/4 inch opening, and not more than 3 percent will pass the U.S No. 200 (wet sieve). with a minimum sand equivalent of 50. (Section 6)

The unit contract price per linear foot for Class B Bedding shall be full compensation for furnishing all labor. equipment and materials necessary to complete the work in accordance with these specifications.

3.03B3Class C Bedding. Class C bedding shall consist of the leveling of the trench at the bottom of the pipe zone and the furnishing, placing and compacting of budding materials in the pipe zone up to 1/6 the outside diameter of the pipe. Select native material shall be placed and compacted in the balance of the pipe zone.

The bedding material for Class C bedding shall conform to bedding material for Class B bedding.

The unit contract price per linear foot for Class C bedding shall be full compensation for furnishing all albor, equipment and materials necessary to complete the work in accordance with these specifications.

3.03B4 CLASS D BEDDING. Class D bedding shall consist of carefully excavating the trench to proper grade and placing select native material in the pipe zone and backfilling in accordance with Section 61-3.05. Class D bedding, as described, shall be considered as incidental to the construction and all costs thereof shall be included in other unit contract items of the proposal.

3.03C PIPE BEDDING IN SOLID ROCK EXCAVATION. In solid rock excavation, all ledge rock, boulders, or stones shall be removed to the bottom of the pipe zone. All materials thus removed shall be replaced with the classification of bedding noted on the plans or directed by the Engineer.

3.03D FOUNDATION MATERIAL Where unsuitable excavation has been removed, necessary foundation material shall be placed and compacted to form a suitable base for the replacement of the required thickness of bedding material. Where unsuitable native foundation materials have been removed from excavations, an approved replacement foundation material shall be placed to the required thickness. Such foundation material shall conform to one of the following gradations as called for on the plans, the special provisions, or as determined by the Engineer.

MATERIAL PASSING	CLASS Min.	A Max.	CLASS Min.	B Max.
23" Square opening	98	100	95.	100
2" Square opening		100	<b>7</b> 5	100
13" Square opening		87	30	60
14" Square opening		75	0	1.5
3/4" Square opening	27	47	0.	1
3/8" Square opening		14	•	-
U.S. No. 4 Sieve	. 0	- 1	<del>,</del>	***

Coarse aggregate shall contain no piece larger than five (5) inches, measured along the line of greatest dimension.

Where foundation material is required, all costs for its procurement and placement shall be included in the unit contract price per cubic yard for "Foundation Material. Class ....".

3.04 CRIBBING AND SHEETING
Unless otherwise provided in the special provisions, the Contract shall provide all cribbing and sheeting needed to protect the work, existing property, utilities, pavement, etc., and to provide safe working conditions in the trench. Such cribbing and sheeting shall be according to the Contractor's design which shall comply with applicable local and state safety codes.

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Removal of any cribbing and sheeting from the trench shall be accomplished in such a manner as to fulfill the above requirements.

Damages resulting from improper cribbing or from failure to crib shall be the sole responsibility of the Contractor. Cribbing will not be a pay item and the cost thereof shall be included in the unit contract price for "Trench Excavation" of the particular class of trench excavation required, unless otherwise provided in the special provisions.

As the pipe is installed, it shall be backfilled by hand in the pipe zone with the materials specified for the applicable Class of pipe bedding. The materials shall be placed and compacted in 6 inch lifts to the top of the pipe zone taking care that the material is in contact with the entire periphery of the pipe. The material shall be so carefully placed that subsequent backfilling operations will not disturb the pipe in any way.

Temporary cribbing, sheeting, or other timbering shall be removed unless specific permission is given by the Engineer to leave it in place.

In backfilling the trench, the Contractor shall take all necessary precautions to protect the pipe from any damage or shifting of the pipe. In general, backfilling shall be performed by pushing the material from the end of the trench into, along and directly over, the pipe so that the material will be applied in the form of a rolling slope rather than by side filling which will damage the pipe. Backfilling from the sides of the trench will be permitted after sufficient material has first been carefully placed over the pipe to such a depth as the Engineer may approve.

Pipe placed below the water table shall be kept from floating by placing backfill material upon it, or by maintaining the water level at the bottom of the trench.

During all phases of the backfilling operations and testing as outlined herein, the Contractor shall protect the sewer installation, provide for the mainmenance of traffic as may be necessary, and provide for the safety of property and person.

The cost of backfilling shall be included in the unit contract price per linear foot for the particular class of trench excavation and backfill, and in addition thereto, payment will be made for compaction and backfill when included in the plans and proposal, or ordered by the Engineer.

3.06 COMPACTION OF TRENCH BACKFILL where compaction of trench backfill material is required, one of the following methods or combination thereof as set forth in the special provisions shall be used and payment will be made in SS - 11 - 9

accordance therewith. The Engineer whall have the right to change methods and limits to better accompdate field conditions.

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3.06Al Water Uses Other Than Trench Backfill. Water required for dust control and uses other than described in this section shall be considered incidental and the costs thereof shall be included in the unit contract price of applicable bid items in the proposal.

3.068 MECHANICAL TAMPER
The mechanical tamper shall be sufficient to achieve compaction to 95% maximum density.

J.060 VIBRATORY COMPACTOR
The Vibratory Compactor shall be a single hand operated unit.
a group hand operated unit. or a vibratory roller. Where vibratory units will be required on the job. it will be so specified in the special provisions. and the method of payment therefor will be included in the proposal.

# 61-4 MEASUREMENT AND PAYMENT

measurement for trench excavation and backfill will be by the linear feet whenever a single classification of trench excavation and backfill is involved for a continuous distance, and when it is so provided in the special provisions or bid proposal. Where trench excavation and backfill will be measured by the cubic yard the allowable width and depth will be as described hereinafter.

When measurement and payment is called for by a unit contract object per linear foot, the trench shall be measured continuously along center line from the beginning point to the terminus and including the distances through structures, excepting however, that if excavation for structures is a bid item in connection with the structures the allowable distance along center line through the structure excavation shall be deducted from the total length of trench.

The unit contract price per linear foot for Trench Excavation and Backfill, Class ..... shall be full compensation for all labor, materials, tools and equipment required to excavate and backfill the trench in accordance with the plans and specifications; the unit contract price does not, however, include the work and expense of foundation material, bedding material, water settling and mechanical compaction which, if required, will become separate items in the proposal.

4.02 PIPE BEDDING
Measurement for pipe bedding will be by the linear foot. The pipe bedding shall be measured continuously along centerline from the beginning point to the terminus and including the distances through structures, excepting however, that if bedding SS - 13-P

for structures is a bid item in connection with the structures the allowable distance along centerline through the structure bedding shall be deducted from the total length of pipe bedding.

The unit contract price per linear foot for "Pipe Bedding Class .... shall be full compensation for all labor, materials. tools, and equipment required to place the pipe bedding in accordance with the plans and specifications.

COMPACTION OF TRENCH BACKFILL Measurement for compaction of trench backfill will be by the linear foot. The trench shall be measured continuously along centerline from the beginning point to the terminus and including the distances through structures.

The unit contract price per linear foot for compaction of trench backfill for water settling or mechanical compacting including mechanical tampers and vibratory compactors, shall be full compensation for all labor, materials, tools and equipment required to compact the trench backfill in accordance with the plans and specifications.

PAYMENT Payment will be made for such of the following bid items as are included and shown on any particular contract:

- "Trench Excavation and Backfill Class A" per linear foot "Trench Excavation and Backfill Class B" per linear foot 2.
- "Trench Excavation and Backfill Class C" per cubic yard "Trench Excavation and Backfill Class D" per cubic yard
- "Pipe Bedding Class A" per linear foot
- "Pipe Bedding Class B" per linear foot "Pipe Bedding Class C" per linear foot
- "Compaction of Trench Backfill Water Settling" per linear
- "Compaction of Trench Backfill Mechanical Compaction" 9. per linear foot
- "Top Soil Removal and Replacement" per cubic yard 10.
- "Lawn Removal and Replacement" per square yard. 11.

# Section 62 - Pipe Laying, Jointing and Testing

DESCRIPTION This section covers the pipe laying, jointing and testing of sanitary sewers, storm drains and culverts. The construction of these lines shall meet the requirements herein and as shown on the plans, special provisions and standard drawings.

Any pipe or appurtenance which inadvertently or otherwise has been laid or jointed in non-accordance with the specifications and special provisions shall, upon direction of the Engineer at any time before final acceptance of the contract or before expiration of the quaranty period, be repaired or be removed and replaced at the expense of the Contractor, and to the satisfaction of the Engineer. SS - 14 -P

62--2 MATERIALS
The materials shall conform to requirements outlines in the various applicable section of the specifications.

# 62-3 CONSTRUCTION DETAILS

3.01 SURVEY LINE AND GRADE Survey line and grade control hubs will be provided by the Engineer in a manner consistent with accepted practices.

The Contractor shall constantly check line and grade and in the event they do not meet specified limits described hereinafter, the work shall be immediately stopped, the Engineer notified. and the cause remedied before procedding with the work.

3.02 SEWER PIPE LAYING
Laying of sewer pipe shall be accomplished to line and grade in
the trench only after it has been dewatered and the foundation
the trench only after it has been dewatered and the foundation
and/or bedding has been prepared in accordance with Section 61.
Mud, Silt, gravel and other foreign material shall be kept out
of the pipe and off the jointing surfaces.

All pipe laid shall be retained in position by mechanical means or otherwise, as approved by the Engineer, ao as to maintain alighment and joint closure until sufficient backfill has been completed to adequately hold the pipe in place. All pipe shall be laid to conform to the prescribed line and grade shown on the plans, within the limits that follow.

The sewer pipe, unless otherwise approved by the Engineer, shall be laid up grade from point of connection on the existing sewer or from a designated starting point. Te sewer pipe shall be installed with the bell end forward or upgrade, unless approved otherwise. When pipe laying is not in progress the forward end of the pipe shall be kept tightly closed with an approved temporary plug.

DEWATERING
Dewatering, sufficient to maintain the ground water level at Dewatering, sufficient to maintain the ground water level at Dewatering, sufficient to maintain the ground water level at Dewatering, or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or base of the bedding or below the surface of trench bottom or below the surface of trench bottom or base of the bedding or below the bedding or belo

if not prior to excavation and placing of the bedding as called for in other sections of the specifications or special provisions. The dewatering operation, however accomplished, shall be carried out so that it does not destroy or weaken the strength of the soil under or alongside the trench. The normal water table shall be restored to its natural level in such a manner as to not disturb the pipe and its foundation.

3.05 BEDDING
The pipe bedding shall be placed so that the entire length of the pipe will have full bearing. No blocking of any kind shall be used to adjust the pipe to grade except when used with embedment concrete. Bell holes shall be dug as required to assure uniform support along the pipe barrel.

Plugs for pipe branches, stubs or other open ends which are not to be immediately connected shall be made of an approved material and shall be secured in place with a joint comparable to the main line joint, or stoppers may be of an integrally cast breakout design.

3.08 PIPE JOITING
All sanitary sever pipe shall have flexible gasketed joints
unless otherwise specified. All sanitary sewer pipe and side
sewers shall be subject to tests described in Section 62-3.10.

3.08B Gasket Type Joints
Flexible gasketed joints shall be made in strict accordance with
the instruction furnished by the pipe manufacturer, and shall
be in accordance with other provisions described below except
in any case where they may be inconsistent with the manufacturer's
instructions.

Pipe handling after the gasket has been affixed shall be carefully controlled to avoid disturbing the gasket and knocking it out of position, or loading it with dirt or other foreign material. Any gaskets so disturbed shall be removed and replaced, cleaned and relubricated if required before the jointing is attempted.

Care shall be taken to properly align the pipe before joints are entirely forced home. During insertion of the tongue or spigot, the pipe shall be partially supported by hand, sling or crane to minimize unequal lateral pressure on the gasket and to maintain concentricity until the gasket is properly positioned. Since most flexible gasketed joints tend to creep apart when the end pipe is deflected and straightened, such movement shall be held to a minimum once the joint is home.

Sufficient pressure shall be applied in making the joint to assure that it is home, as described in the installation instructions provided by the pipe manufacturer. Sufficient restraint as specified in Section 62-3.02 shall be applied to the line to assure that joints once home are held so, until fill material under and alongside the pipe has been sufficiently compacted. At the end of the work day, the last pipe laid shall be blocked in an effective way to prevent creep during "down time".

3.08C Jointing of Dissimilar Pipes
For dissimilar pipes where suitable adaptor couplings are not available, the jointing shall be accomplished with a special fabricated coupling or concrete encasement expansion block, as approved by the Engineer.

All sanitary sewer pipe and appurtenances shall be sleamed and shall be tested after backfill by exfiltration method for each first section of line laid between manholes and/or where a new sewer crew is used on any portion of the work, unless otherwise provided in the special provisions: excepting however, that if the condition where the ground water table are such as to preclude a proper exciltration test, the Engineer may require infiltration testing. Low pressure air testing is an acceptable alternate to either hydrostatic method and shall conform to the standard test for low pressure air testing as per DCPM.

Storm sewer pipe and appurtenances shall be cleaned and may be tested after backfill.

manholes and/or rodding inlets as required herein shall be completed within 15 working days after backfilling of sewer lines and structures. Any further delay will require the writter consent of the Engineer. TheContractor shall furnish all labor, materials, tools and equipment necessary to make the test, clean the lines and to perform all work incidental Thereto. Frequitions shall be taken to prevent joints from drawing during tests, and any damage resulting from tests shall be repaired by the Contractor at his own expense. The manner and time of testing shall be subject to approval of the Engineer, provided that the Engineer may limit pipe footage to be laid without testing.

All wyes, tees and stubs shall be plugged with flexible jointed caps, or acceptable alternate, securely fastened to withstand the internal test pressure. Such plugs or caps shall be feasily removable and for their removal shall provide a socket suitable SS - 18-17

for making a flexible jointed lateral connection or extension.

In the event that the Contractor elects to test large diameter pipe one joint at a time. leakage allowances shall be converted from GPM per 100 feet to GPM per joint by dividing by the number of joints occurring in 100 feet. If leakage exceeds the allowable amount, corrective measures shall be taken and the line be then retested to the satisfaction of the Engineer.

Prior to making exfiltration leakage tests, the Contractor may fill the pipe with clear water to permit mormal absorption into the pipe walls: provided, however, that after so filling the pipe he shall complete the leakage test within twenty-four (24 hours after filling. When under test, the leakage allowable shall comply with the provisions that follow.

Leakage shall be no more than five-tenths(0.5) gallon per hour per inch of diameter per one hundred (100) feet of sewer pipe, with a minimum test pressure of six (6) feet of water column above the crown at the upper end of the pipe or above the active ground water table, whichever is highest as determined by the ingineer. The length of pipe tested shall be limited so that the pressure on the invert of the lower end of the section tested shall not exceed sixteen (16) feet of water column, and in no case shall be greater than 700 feet. For each increase in pressure of two (2) feet above a basic six (6) feet measured above the crown at the lower end of the test station, the allowable leakage shall be insreased by 10 percent, tabulated in the table which follows:

ALLOWABLE LEAKAGE IN GALS. / LOOLINEAR PRET/HR

Head above	crown	on	Tower.	End	OΣ	Test	Section
· ·	The second secon		4 T. P. F. B. T. C. S. C. C. S.	~ / D			

Pipe (Inc)	Sise		6 Pta	g Pt,	1.0 - 170.	12 Ft.	1,4 Ft.	16 m.	• .
ls.	a Garaji		2.0	2,2	2 . A	. 1 . C	ege de	3.0	
6 8	t		3.0 4.0	7.7	2.4 2.8	3,2	4,2 5,5	6,0	
10			5.0	5.5	6.0	7.5	7.0	7.5 9.0	
15		-, -	7.5	Carrie	: 9B	9 . B	30.4	11.0	
. 18 21		** , **	210.5	9.0 11.0	10.8	11.7	13.6	15.8 15.8	
24			12.0	13.8	3.4 .4	15.6	16.8	18.0	
20			13.0		13.0	17.6	18.9	20.3	
75 1; ;		100	15.0	19.8 23.1	21.6	27.3	25.2 25.4	27 0 34 2s	,
5 <u>8</u> 54			26.0 27.0	26.4	28.0	31.2	32.6	žė įo	
30			130.0	13.0	38.3 36.9	39.0	97.8 42.0	45.10	
البية <sup>ال</sup> را ال		•	36.9	33.6 SS	43.8 - 19-0	46,8	50.4	54 0	

Testing of storm drains where specified shall be the same as for sanitary severs, except that the calculated leakage allowable for acceptance shall be two (2) times that of a sanitary sever.

The Contractor shall furnish all equipment, materials and labor necessary for making the leakage tests. Any arrangement of test equipment which will provide accurate means of measurement will be approved by the Engineer. The leakage test shall be made by the Contractor in the presence of the Engineer.

3.10B Infiltration Test
When the natural ground water table is above the crown of the higher end of the test section. The maximum allowable limit for infiltration shall be four tenths (0.4) gallon per hour per inch of internal diameter per 100 feet of length, with no allowance for external hydrostatic head.

3.100. Other Test Allowances
All lateral or side sewer branches included in the test section shall be taken into account in computing allowable leakage.
An allowance of two tenths (0.2) GPH per foot of head above invert shall be made for each manhole included in a test section.

J.10D Air Testing
THE PRESUMTIVE TEST: The contractor may low pressure all test
the line before backfilling the trench to aid the contractor in
checking the installation for any defects and proper workmanship.
This test is at the option of the contractor.

THE ACCEPTANCE TEST: The Contractor shall test the line as prescribed in the specifications by the engineer or agency after the backfilling has been completed.

RECOMMENDED AIR TEST. The contractor shall furnish all facilities and personnel for conduting the test under the observation of the Engineers. The equipment and personnel shall be subject tot the approval of the Engineers. The Contractor shall clean the line before proceeding with the air test. All debris shall be removed at the first manbole where its presence is noted. In the event cemented or wedged debris or a damaged size shall prevent cleaning, the contractor shall remove the obstruction. The pipe or sections of pipe to be tested should be wetted before the air test is started.

Immediately following the pipe cleaning and wettings the pipe shall be tested with low pressure air. Air shall be slowly supplied to the plugged pipe installation until the internal air pressure a reaches 4.0 pounds per square inch greater than the average back pressure of any ground water than may submerge the pipe. At least two minutes shall be allowed for temperature stabilization before procedding forther. The rate of air loss shall then be determined by measuring the time interval required for the internal pressure to decrease from 3.5 to 2.5 pounds per square inch greater than the average back pressure

of any ground water that may submerge the pipe.

The pipeline shall be considered acceptable when tested at an average pressure of 3.0 pounds per square inch greater than the average back pressure of any ground water that may submerge the pipe when the section under test does not lose air at a rate greater than 0.001 subjected per minute per square foot of internal pipe area except that the minimum allowable rate of loss for the section shall not be less than 2 cubic feet per minute.

Sufficient of the property of the second of

The requirements of this specification shall be considered satisfied if, during the time as computed according to the attached page entitled Recommended Procedure for Conducting Acceptance Test", the pressure in the pipe line toes not drop more than one p.s.f., below the initial pressure of 3.5 p.s.f., greater than the average back pressure of any ground water head that may submerge the (pipe) line.

Acceptance Test shall be made for each first section of line constructed. for every 1st reach of line installed where a new newer crew is used, or wherever the Engineer may Circet. The Contractor shall not proceed with any construction until the prerequisite of meeting the successful installation of each nestion is made, as mentioned above, to qualify the erew and or material.

If the pipe installation fails to meet these requirements, the Contractor shall determine at his own expense the source of sources of leakage, and he shall repair or replace all defeative materials or workmanship. The completed plue installation shall meet the requirements of this test, or the alternate water extilization or infiltration test before being considered acceptable.

(a)Rotometer or Constant Pressure.

The line shall be tested at 3.0 psig and the volume of air leaked at this pressure shall be read by the ase of a Rutsmeter placed in the sys tem.

The maximum rate of air loss for an acceptable somer line that not exceed 0.003 C.F.M. per square foot of interior pipe subface, or 2.0 C.F.M. minimum when subjected to a constant pressure of 1.0 psig. I e rate of loss to be determined when the system reaches an equilibrium state. For each foot of water table elevation above the invert of the pipe under best, the allowable loss shall be reduced six (6) percent.

(b) Time Pressure Drop Method.

This method shall be conducted according to the procedure described below.

Sample Calculations for Time Pressure Drop Method.

Example 1 (Refer to Nomograph on Page 188)

Given: 300 feet of 8 inch Pipe, Set straight edge on 8" in
"d" column and 300 feet in "L" column. Read 0.92 on C scale and
215 on K scale. Reading on C scale is less than one so the K
reading of 215 seconds would be the minimum time allowable (in
seconds) for this run of nine.

Example 2:
Given: 500 feet of 10 inch Pipe. Set straight edge on 10 inch
in right hand column and 500 feet in "L" column. Read C of
1.95 and K of 550. C is greater than one so divided C into Y.
550/1.95 = 282 seconds for this run of pipe. This result may also
read on the Nomograph in column t.

c. The test equipment used with either method of air pressure testing shall be certified as satisfactory by the Engineer at the beginning of a job. The imprestor may at any time require a calibration check of the instrumentation used, i.e., resometers, bourdon gages, pressure reducing valves, etc.

ATR TESTING BY TIME PRESSURE DROP METHOD
Recommended Procedure for Conducting Acceptance Test

- 1. Clean pipe to be tested by propelling snug fitting inflated fubber ball through the pipe with water.
- 2. Plug all pipe outlets with suitable test plugs. Brace each plug securely.
- If the pipe to be tested is submerged in ground water, interta pipe probe, by boring or jetting, into the backfill material adjacent to the center of the pipe, and determine the pressure in the probe when air passes slowly through it. This is the back pressure due to ground water submergency over the end of the probe. All gauge pressures in the test should be increased by this amount.
- u. Add air slowly to the portion of the pipe installation under test until the internal air pressure as raised to 4.0 fair.
- 5. Check exposed pipe and plugs for abnormal leakage by dosting with a seap solution. If any failures are observed, black off air and make necessary repairs.
- at least two minutes for air temperature to stabline, adding only the amount of air required to maintain pressure.
- 7. After the two minute period, disconnect air supply-
- 8. When pressure decreases to 3.5 psig. start stopwater. Determine the time in seconds that is required for the intermal

air pressure to reach 2.5 psig. This time interval should then be compared with the time required by specification as computed below.

9. Dist size and length of all portions of pipe under test in table similar to one shown here.

	Diameter   inches	Longth Feet	K= .11 d'i	c=.003882	
	334.0 VI 6.23	* \(\sigma\)			<u> </u>
•					
		** .			
		Tota	1 K To	tal d	Jalana and and a second
		Time	Required by	Specificat	វិចភូន

- 10. By use of nomograph (Fig. 13) compute K and E. Use Spales d and L. read K and E. and enter these values in the table shows.
- il. Add all values of K and all values of C for pipe under test.
- 12. If the total of all 3 values is less than one, enter the total of all K values into the space for "Time Required by Specification."
- 13. If the total of all C values is greater than one. divide the total of all K values, by the total of all C values, to get tq. To make this division with the nonograph, use scales C and L. and read tq.

SAFETY PROVISIONSY The plugs must be firmly passured and care chould be exercised by their removal. (The total force on a 12" plug at 4.0 p.s.i. is ever 450 powness.) Care must be excercised in not loading the sewer line with the full pressure of the compressor. Keep men out of manholet until the pressure has been released. If water loaks into the line after the plugs are installed and floods the air inlet and the noedle on the direct pressure gage indicates zero them possibly the water column has belanced the air pressure in this instance and care is necessary in releasing the pressure. If testing below ground water level, inject the air at the upper plug and/or turn the inlet up as with a water test apparatus. Gages, air piping manifolds and valves shall be located at the top of the ground. No one shall be permitted to enter a manhole where a plugged pipe is under pressure.

Air testing apparatus shall be equipped with a pressure release device such as a rupture disk or a pressure relief valve designed to relive pressure in the pipe under test at 6 p.s.i.

3.10E Payment for tests
The work of cleaning and testing and the furnishing of caps and plugs for the tests shall be considered as incidental to the construction and all costs incurred therefor shall be included in the unit contract price of pay items in the proposal.

The Contractor shall arrange for and provide all necessary water at his own expense, unless otherwise provided in the special erovisions.

If the Contractor shall purchase water from a water utility at a fire hydrast on ar meas the perject. he shall make all arrangements at his own expense and shall pay the utility on basis of astual quantity of water metered.

MEASUREMENT
Measurement for payment shall be by the linear fact of pipe laid and tested and shall be along the pipe through the tree and fittings. Measurements shall be from center to center of standay types of manholes or to incide face of structures, and shall be taken to the nearest one tenth (0.1) fout.

Measurement for tees and fittings shall be per each for each size as constructed.

62-5 PAYMENT
Payment for all pipe shall be the unit contrast price "par linear foot" for each class, size and type of pipe laid and satisfactorily tested in accordance with the specifications. No additional compensation will be allowed for testing.

Payment for tees and fittings shall be the unit contract price "ser each" for each size, including caps or pluge laid and tosto the additional compensation will be allowed for testing or providing cap or pluge.

Payment will be made for such of the following bid items as are included and shown on any particular contract:

- 1. "(size) (class) Pipe in Place." per linear fook.
- 2. "Toes or Wyes (size)." per each.

# Section 6) - Manholes for Storm and Senitary Sewers

fig. DESCRIPTION the constructed of precast units or monolithic concrete. all in accordance to standard plans say these specifications.

Precast concrete manholes shall conform to ASTM CAPE. The minimim diameter in public rights of way shall be 42 private property 42.

#### RECOMMENDED PROCEDURE FOR CONDUCTING ACCEPTANCE TEST

- 1. Clean pipe to be tested by propolling snug fitting inflated rubber ball through the pipe with water.
  - 2. Plug all pipe outlets with suitable test plugs. Brace each plug securely.
- 3. If the pipe to be tested is submerged in ground water, insert a pipe probe, by boring or jetting, into the backfill material adjacent to the center of the pipe, and determine the pressure in the probe when air passes slowly through it. This is the back pressure due to ground water submergence over the end of the probe. All gauge pressures in the test should be increased by this amount.
- 4. Add air slowly to the portion of the pipe installation under test until the internal air pressure is raised to 4.0 psig.
- 5. Check exposed pipe and plugs for abnormal leakage by coating with a soap solution. If any failures are observed, bleed off air and make necessary repairs.
- 6. After an internal pressure of 4.0 psig is obtained, allow at least two minutes for air temperature to stabilize, adding only the amount of air required to maintain pressure.
- 7. After the two minute period, disconnect air supply.

  8. When pressure decreases to 3.5 psig, start stopwatch. Determine the time in seconds that is required for the internal air pressure to reach 2.5 psig. This time interval should then be compared with the time required by specification as computed
- 9. List size and length of all portions of pipe under test in table similar to one shown here.

	Diameter inches	Length Feet	$K = .011 d^2L$	C = .0003882 dL
		·		
, ··		4		
				-
			Total K	Total C
			Time required	by specification

- 10. By use of nomograph (Fig. 13), compute K and C. Use scales d and L, read K and C, and enter these values in the table above.
  - 11. Add all values of K and all values of C for pipe under test.
- 12. If the total of all C values is less than one, enter the total of all K values into the space for "Time Required by Specification,"
- 13. If the total of all C values is greater than one, divide the total of all K values, by the total of all C values, to get  $t_q$ . To make this division with the nomograph, use scales C and K, and read  $t_\alpha$ .

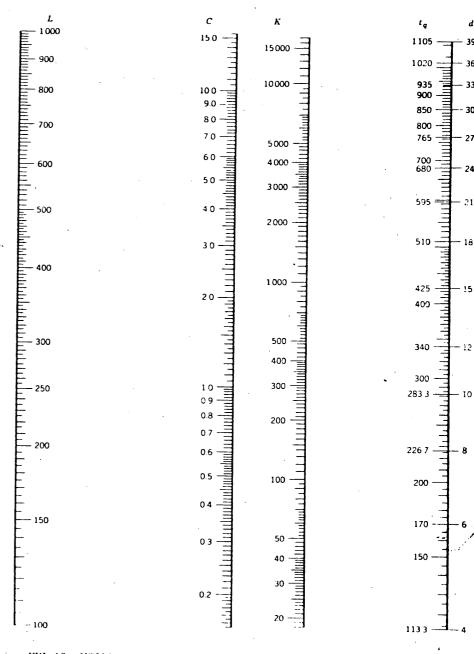


FIG. 13.—NOMOGRAPH FOR THE SOLUTION OF K = .011d<sup>2</sup>L, C = .0003882dL,  $t_{\rm q}$  - K  $\dot{\ast}$  C

- 2.01 REINFORCED CONCRETE
  Reinforced concrete shall consist of portland cement, mineral aggregates and water. in which steel has been embedded in such manner that the stell and concrete act together.
- 2.01A Cement
  Fortland dement shall conform to the requirements of the
  Specificiations for Portland Cement ASTM C150, any type, unless
  otherwise limited in the special provisions; or it may be airentraining portland cement conforming to ASTM S175.
- 2.01B Wire Fabric Reinforcement Reinforcement conforming to ASTM A-185.
- 2.010 Bar Reinforcement
  Bar reinforcement shall conform to ASTM A 15. intermediate grade.
- 2.01D Aggregates
  Aggregates shall conform to ASTM C-33, except that the requirement for gradation shall not apply to precast items.
- 2.01E Mixture
  The aggregates shall be so sized, and graded and proportioned and thoroughly mixed in proportions of cement and water as will produce a homogeneous concrete mixture of such quality that the manhole components will conform to the strength and water-tightness requirements of these specifications. Ad-mixtures or blends may be used with the written permission of the Engineer.

# 2.03B Worter

2.0381 Mortar for Jointing
Mortar for jointing precast manhole sections or masonry manhole
units shall be one part portland cement to not less then one
part no more than two parts plaster sand, mixed with the least
amount of clean water necessary to provide a workable mortar.

2.04 MANHOLE FRAMES

Manhole frames and covers all manhole frames and covers shall

be of the size and shape detailed in the standard plans or an approved equal.

Casting shall be tough, close-trained, gray iron free from blow holes, shrinkage and cold sheets. They shall conform to ASTE A 48 and shall be sound, smooth, clean and free from blisters and defects. Castings shall be planed and ground when necessary to incure perfectly flat and true surfaces. Covers shall be true and shall seat within the ring at all points.

2.05 MANHOLE EXTENSIONS
Extensions approximately 4 inches in height will be added to those manholes designated by the Engineer. The actual height of the extnesion shall be as determined by the Engineer. The concrete rings used in those extensions shall be 4 inches in thickness and of standard construction and approved by the Engineer Before purchase.

2.06 PRECAST MANHOLE COMPONENTS

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2.064. Base Sections
Base sections for manhole construction shall be either poured
in place concrete and be not less than 6 inches in thickness or
precast sections conforming to the requirements for precast
manhole sections, unless otherwise provided in the plant and
special provisions. Base sections shall be constructed to form
a watertight structure.

Openings to receive pipe shall be sircular, tapered in toward the inside of the section and shall be held to the minimum size possible to accompdate the pipe to be insorted and to effectively seal the joints. Openings for pipe up to 24" diamter may be provided in 42" or 48" base sections. Openings for pipe up to 42" diameter may be provided in 72" base sections. Where pips of larger diameters are to be accompdated, a monolithic base structure shall be provided.

2.96B PRHeast Manhole Sections
Etandard precast manhole sections shall conform to ASTM C475
and consist of circular sections in standard mominal diaritars.
No more than two life holes shall be cast into each section.
Holes shall be so located as to not damage reinforcing, or
expose it to corresion. At the manufacturer's option, steel
loops may be provided for handling, in lieu of lift holes.

2.06C Frecast Cones Standard precast cones, eccentric or concentric shall conform to ASTM C 478.

2.960 Flat Slab Covers Flat slab covers shall conform to ASTM C478.

- 2.07 WORKMANSHIP AND PINISH OF PRECAST SECTIONS
  Comes and sections shall be substantially free from fractures,
  large or deep cracks and surface roughness. Slabs shall be
  sound and free from gravel pockets. All manhole elements shall
  be capable of producing a watertight structure when properly
  assembled and jointed.
- 2.08 MONOLITHIC CONCRETE MANHOLES Monolithic concrete manholes shall conform to detailed plane and shall conform to the dimensional requirements specified. Walls and base shall be 6" minimum thickness.
- 63-3 CONSTRUCTION DETAILS
- 3.01 FOUNDATION PREPARATION
- 3.01A DEWATERING Dewatering of the site shall conform to the requirements for sewer transh dewatering in Section 62-3.04.
- 3.018 Sub-Base Preparation Adequate foundation for all manhole structures scall be obtained by removal and replacement of unsuitable material with well graded granular material; or by tightening with coarse ballact rock, or by such other means as provided for foundation preparation of the connected sewers, or as required in the special provisions. Where water is encountered at the site, all castin place bases or monolithic structures shall be placed on a conspictor water into the frash concrete.
- Precast tase sections shall be placed on a well graded gradular bedding course conforming to the requirements for sewer bedding but not loss than 4 lockes in thickness and extending sither to the limits of the excavation or to a minimum of 32 inches satisfy the outside limits of the base section. In the latter case, the balance of the excavated area shall be filled with select material wall tasped to the level of the top of the bedding to positively prevent any lateral movement of the bedding when the weight of the manhole is placed upon it. The bedding eares whall be firmly tamped and made smooth and level to assure aniform contact and support of the precast elements.

#### PRECAST MANHOLES

3.03

The concrete bases for the pre-cast manholes shall be so constructed so as to permit the first section of the pre-cast manhole to have uniform bearing throughout the full circumference of the manhole. wall. Sufficient mortar shall be deposited on the concrete base so as to provide a watertight seal between the base and the manhole wall. The concrete base shall not be placed in water and if the trench foundation is not stable the contmactor shall over-excavate one or two feet below invert as per Engineer's direction. The over-excavation shall be brought to grade with gravel.

AND SERVICE SACROPHICAL

MANHOLE INVERT 3.023 The invert of the manhole shall conform to details shown on the Plans. Cars shall be taken so as to construct the invert of the manhole to provide amouth flo-through characteristics. tharp edges or rough sections which will tend to obstruct the flow of sewage will be permitted. In general, the invert shall be constructed to a section identical with that of the newer pipe. Where size of sewer pipe is changed at the manhole, the invert shall be constructed in the form of a smooth transition without abrupt breaks or uneveness of invert surfaces. Where a full section of concrete sewer pipe is laid through the manhole, the top shall be broken out to or below the spring line of the pipe, and the exposed edge of the pipe completely covered with mortar. During construction of the invert section. and for a period of not less than 24 hours Mollowing placing of concrete or mortar in the invert sections, the Contractor chall temporarily divert existing flows of ground water or newage from new concrete or mortar surfaces to prevent damage to the fresh concrete or mortar within the maniple until in/tial set has been achieved?

0.030 MANHOLE WALDS manholes. Manhole Walls shall be constructed plumb and true in accordance with the details shown on the Planc. Where walls are constructed using precast concrete sections, joints shall be mortared tight, to provide a water-tight joint which will prevent infiltration of ground water into the manholes.

All unreinforced pipes entering or leaving the manhole shall be provided with flexible joints within 18 inches of the exterior wall of the manhole structure and shall be placed on firmly compacted bedding, particularly within the area of the manhole excavation which normally is deeper than that of the sewer trench. Special careshall be taken to see that the openings through which pipes enter the structure are completely and firmly rammed full of mortar to ensure watertightness.

3.04 GRADE ADJUSTMENT

Unless otherwise shown on the plans or in the special provisions, grade adjustment shall be as per Section 63. Final elevation for each manhole will be determined by the Engineer, and tilt shall conform to the existing street surface unless otherwise specified or directed by the Engineer.

## 3.07 CHANNELS

Channels shall be made to conform accurately to the sewer grade and shall be brought together smoothly with well rounded junctions, satisfactory to the Engineer. Channel sides shall be carried up vertically to the crown elevation of the various pipes. and the concrete shelf between channels shall be smoothly finished and warped evenly with slopes to drain.

7.08 BACKFILL

Packfill around the manhole and extending at least one pipe length into each transh shall be hand placed and tamped with selected native material up to an elevation of six (6) inches above the crown of all entering pipes. Work shall conform to the applicable provious of section 61.

3.09 DROP MANHOLES

Drop hankeles, wherever shown on the plane, shall conform in all respects to the requirements for standard meaboles of the type or types used on the projects.

63-4 MEASUREMENT

Each manhale will be measured to the nearest one-tenth (0.10) of a foot from invert of the outlet pipe vortically to the tent of the quartee the grading, for the purpose of determining the amount to be paid per foot in addition to the base price per each for manhales flyg feet or less in overall depth.

63-5 PAYMENT

Payment for each manhole shall consist of a basic price per each, plus a unit price per foot for all depth in excess of five feet, plus a unit price per each for drop connections where they occur.

#### SPECIAL SPECIFICATIONS

## Section 101 - Creek Crossing

#### 101-1 SCOPE

This section covers all work necessary to construct gravity sewer lines across a creek, within the limits indicated.

#### 101-2 MATERIALS

- 2.1 Excavation and Backfill
  Conform to sections on TRENCH EXCAVATION AND BACKFILL.
- 2.2 Rock for Erosion Protection
  The top 12 inches of the backfill shall be 6 inch minus pit-run gravel or crushed rock, reasonably evenly graded from coarse to fine. Submit samples to Engineer for approval.
- 2.3 Concrete for Pipe Encasement Concrete shall be 2,000 PSI at 28 days, with a minimum of 42 sacks of cement per cubic yard. Encasement shall extend 2 feet on either side of joint.
- 2.4 Gravity Sewer Pipe. Pipe used in creek crossings shall be ASTM C-22 Cast Iron "Tyton" or Push-on Joint Pipe.

#### 101-3 WORKMANSHIP

- 3.1 Greek Diversion
- Water in the creek may be diverted; however, flow shall not be interrupted. Engineer's approval of plan for diverson will not relieve the Contractor from responsibility for maintaining flow at all times and for adequate protection of all work and existing structures.
- Rock for Erosion Protection

  Browide erosion rock from bank to bank for a minimum depth of I2 inches and a width of one foot beyond the disturbed channel on each side. Rock may be machine placed, but hand placing of the upper exposed surfaces may be required, as directed by the Engineer, to insure a "Keyed" rock surface to adequately resist erosion effects of water. Finished surface shall conform to original cross section.
- 3.3 Cleanup.

After completion of each crossing, reshape all existing channels and ditches, remove all excess materials and construction debris, and restore area to equivalent of its original condition or better.

101-4 PAYMENT

Payment for creek crossings will be based on the linear foot price set forth in the Contractor's Proposal and shall include all work and materials (including pipe) necessary to construct the crossing between the limits shown.

## Section 102 - Cleanup and Site Restoration

#### 102-1 SCOPE

This section covers all work necessary to ensure adequate restoration of construction site and other areas used by the Contractor.

#### 102-2 MATERIALS

Seed, sod, fertilizer and other materials used in site restoration shall be of a type recommended by the Engineer.

Any trees, designated by the Engineer as special or historic trees, damaged or destroyed by the Contractor, shall be replaced in kind and value at the Contractor's expense.

There are approximately 15 trees so designated within the 40 foot construction easement on this project. Prior to bid opening they will be flagged and located by the Engineer upon request of the Contractor.

#### 102-3 WORKMANSHIP

At all times during the work, keep the premises clean and orderly, and upon completion of the work, leave the project free of rubbish or excess materials of any kind.

During construction, handle materials so as to do the least damage to adjacent lawns, grassed areas, gardens, shrubbery or fences, regardless of whether these are on private property, City, State or County rights-of-way. Remove all excavated materials from grassed and planted areas; leave these surfaces in a condition equivalent to their original condition and free from all rocks, gravel bolders, or other foreign material.

Any damage to grassed or planted areas shall be the responsibility of the Contractor.

Any damage to special or historic trees shall be the responsibility of the Contractor.

Construction areas shall be seeded with first-quality seed approved by the Engineer. All ground preparation and reseeding shall be done in accordance with the best accepted practices for lawn planting. The Contractor shall be responsible for obtaining a satisfactory grass turf acceptable to the property owner. Lawn may be restored by sodding if approved by the property owner.

Upon completion of the project, all areas used by the Contractor in connection with the work shall be finished as follows: Project site, borrow, and storage areas properly cleaned of all temporary structures, rubbish, and waste materials and properly graded to drain and blend in with the abutting property; any waste area obtained by the Contractor for deposit of waste materials shall be finished to properly drain and blend with the surrounding terrain.

3.1 Street Cleanup During Construction Clean all spilled dirt, gravel or other foreign material caused by the construction operations from all streets and roads outside the project area at the conclusion of each day's operation. 3.2 Dust Prevention

Give all streets, roads, or detours used for hauling material to or from the construction area an oil dust preventive treatment or continually water to prevent dust.

Dust prevention measures shall be continuous until final acceptance by the Owner.

- 3.3 Street Cleaning. Within 5 days after completion of all paving on any block, move all dirt, mud, rock, gravel, and other foreign material from the paved surface.
- 3.4 Operation of Valves in Water System Prohibited At no time undertake to close off any lines or open valves or take any other action which would effect the operation of the existing water system, except as specifically required by the Plans and Specifications and after approval is granted by the Owner. Request approval well in advance of the time that the interruption of the existing service is required.
- Responsibility for Damage to Existing Structures. Where any existing structures or facilities which are intended to remain are damaged by the Contractor during demolition or construction, the Contractor shall promptly repair or replace the damaged portion or damaged facility at no additional cost to the Owner.

#### 102-4 PAYMENT

The work specified in this section shall be considered incidental to the project cost, and the expense shall be included in the lump sum bid or unit price bids, as applicable.

## Section 103 BANK PROTECTION

## 103-1 Description

This section shall cover all work and materials necessary to ensure adequate bank protection along the course of Hess Creek.

#### 103-2 Materials

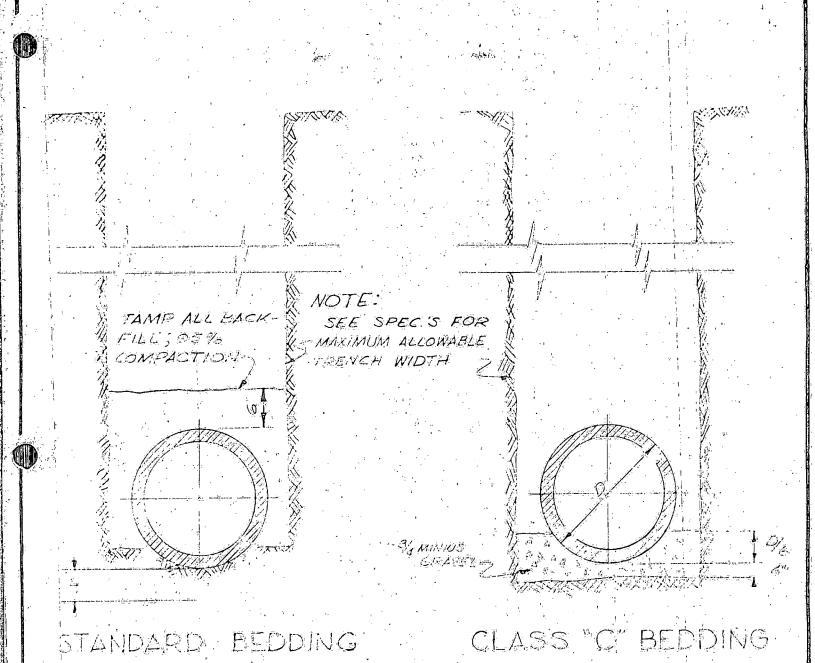
The bank protection material shall consist of 6-inch minus pit-run gravel or crushed rock, reasonably evenly graded from coarse to fine. Submit samples to the Engineer for approval.

### 103-3 Workmanship

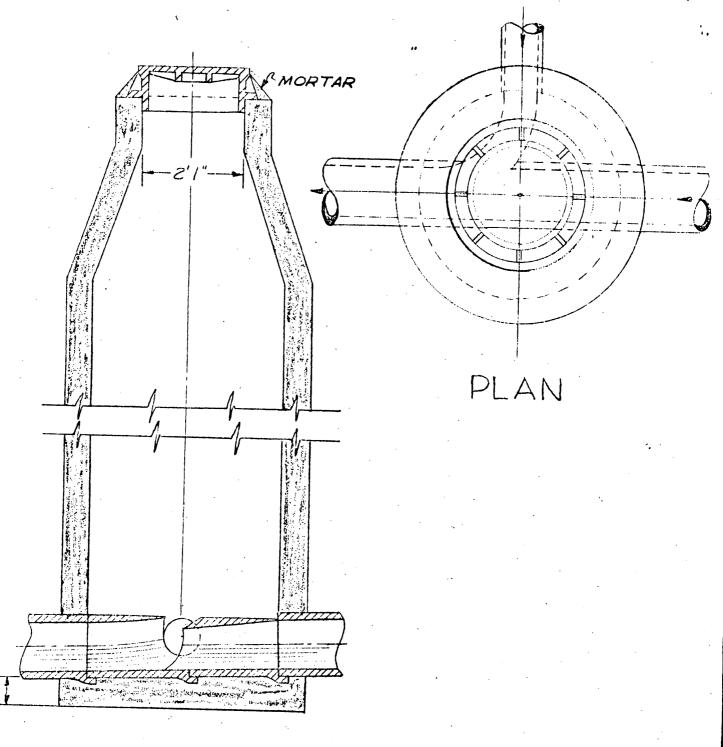
Bank protection shall be placed wherever, in the opinion of the Engineer, there is a possibility of bank erosion caused by excavation. The rock shall be dumped above the bank and machine placed so as to achieve a natural slope of approximately  $1\frac{1}{2}$ :1.

#### 103-4 Payment

Payment for bank protection shall be on the per ton basis set forth in the Contractor's proposal and shall include all work and materials necessary as described.

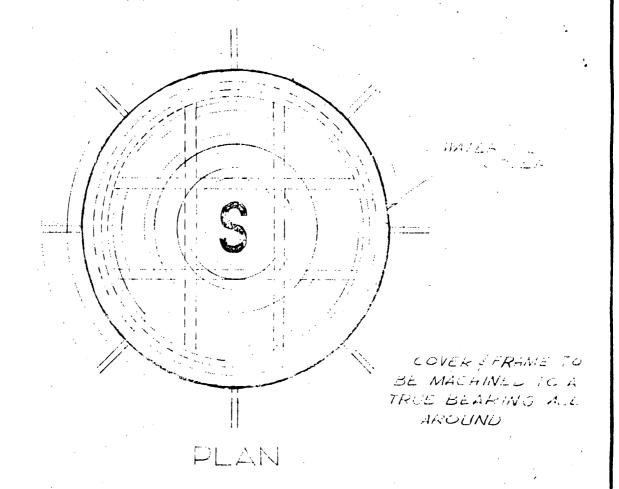


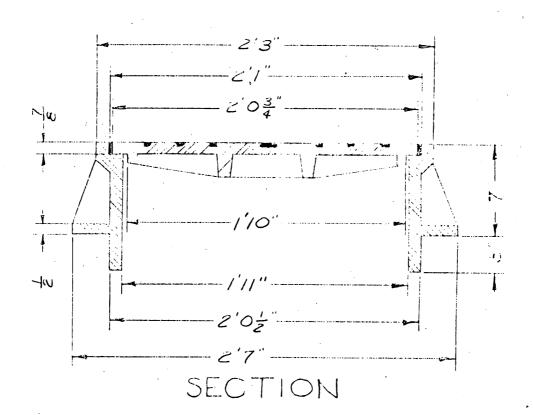
TRENCH CHARACTERISTICS



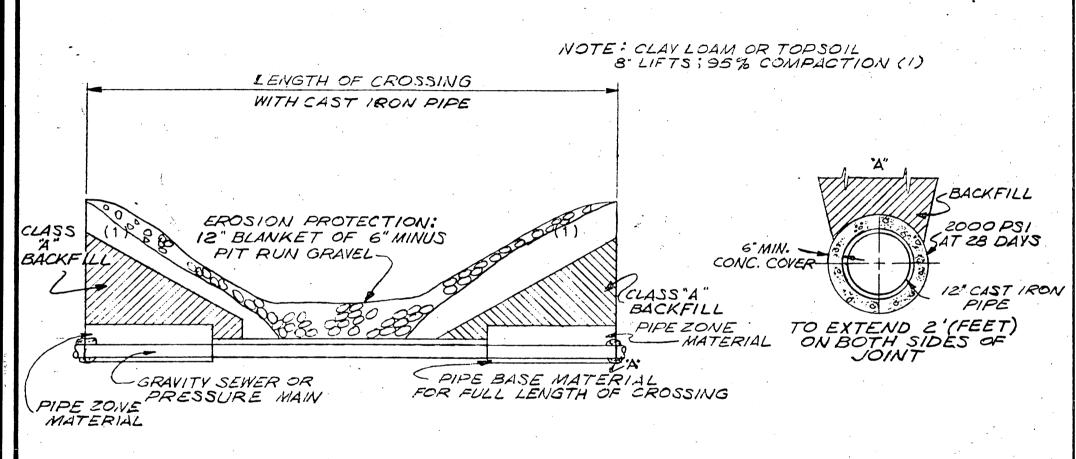
SECTION

MANHOLE DETAILS





MANHOLE FRAME & COVER SCALE 12"= 1'-0"



TYPICAL CREEK CROSSING

# RICHARD T. ROBERTSON

3906 EAST 8th STREET — PHONE 695-7340 VANCOUVER, WASHINGTON

31 October 1972

Honorall mayor & Council city Hall city of newlog-

Rear Sir,

to the let of my browledge I have Completed the Hess creek Sewer extension content except for one item. This item is reserving of the lower arios, Due to winter Conditions and the difficulty of grawing grass at this Time of the year Inquest that I be allowed to replant and seed in the spring of 1973. I Shall Complet this item within the guarantee feriod. also I would appreciate being notified by the sety Engineer when love he Corridor the ronditions to be proper for seeding.

Serverely yours Richard + Probation