## Advertisement for Bids

Project Number: TN-20971

Owner: Seven States Power Corporation

The Seven States Power Corporation is hereby soliciting sealed bids for the following items: 2023 Enhanced DC Fast Charger Installation at three separate locations in Athens, Greeneville, and Morristown, TN under the Appalachian Regional Commission (ARC) Grant program. Separate sealed bids will be accepted until May 28, 2024 at 2:00 p.m. at which time they will be opened and read aloud. All bids must be inclusive of all delivery and handling charges. Seven States Power Corporation reserves the right to reject any and all bids. Bid quotes must be effective for 60 days after bid opening date. Further, the Seven States Power Corporation reserves the right to contact the successful bidder for one full calendar year from award date to determine if successful bidder is willing to provide the same materials or services at the original bid price. All bidders submitting bids are required to present ALL the required vendor information, defined in the project specifications, as accompanying information to their bid submittal, regardless of if these documents have been submitted in previous solicitations, in order for their bid submitted to be considered a valid bid. For specifications and more information contact Lance Irwin at lirwin@7spc.com or Ginger Stout at gstout@etdd.org. Pre-bid meetings will be held at each location on the following dates: Greeneville – May 13<sup>th</sup> at 1PM EST; Morristown – May 13<sup>th</sup> at 2PM EST; Athens – May 14<sup>th</sup> at 9am EST. This project is funded under a grant contract with the State of Tennessee. The contract documents may be obtained via email request or examined at the following locations:

East Tennessee Development District 216 Corporate Place Alcoa, TN. 37701 State of Tennessee GO-DBE Grant website

Knoxville Builders Exchange 300 Clark Street Knoxville, TN. 37921

Please send bid quotes to East Tennessee Development District, Attn: Ginger Stout, 216 Corporate Place, Alcoa TN 37701. All bid envelopes must be noted on outside of envelope as '2023 Enhanced DC Fast Charger Installation Project'.

## **ADVERTISEMENT FOR BIDS**

Project No		
	(Owner)	
Separate sealed bids for		for
will be received by		
at the office of		
until o'clock <del>A.M</del> ./P.M., <del>C.S.T</del> ./E.S.T		_, and then at said
office publicly opened and read aloud.		
The Information for Bidders, Form of Bid, Form of Corons of Bid Bond, Performance and Payment Bond be examined at the following:	d, and other contra	ct documents may
Copies may be obtained at the office oflocated at	_ upon payment of	· \$
for each set. Any unsuccessful bidder, upon returning condition, will be refunded his payment, and any non-will be refunded \$	ng each set promp	tly and in good
The owner reserves the right to waive any informalities	es or to reject any	or all bids.
Each bidder must deposit with his bid, security in the conditions provided in the Information for Bidders.	e amount, form and	I subject to the
All bidders must be licensed General Contractors as Licensing Act of 1994 of the General Assembly of the for the type of construction being bid upon.		
Attention of bidders is particularly called to the requiremployment to be observed and minimum wage rate Section 3, Segregated Facility, Section 109 and E.O.	es to be paid under	
No bidder may withdraw his bid within 60 days after thereof.  (Date)	the actual date of t	the opening

### INFORMATION FOR BIDDERS

Receipt and Opening	of Bids
The	(herein called the "Owner), invites bids on
	eto, all blanks of which must be appropriately filled in. Bids e Owner at the office of
	until o'clock <del>A.M.</del> /P.M.,
<del>C.S.T/</del> E.S.T,	, 20, and then at said office publicly
opened and read alou	d. The envelopes containing the bids must be sealed,
addressed to	at
	and designated as bid

The Owner may consider informal any bid not prepared and submitted in accordance with the provisions hereof and may waive any informalities or reject any and all bids. Any bid may be withdrawn prior to the above scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified shall not be considered. No bidder may withdraw a bid within 60 days after the actual date of the opening thereof.

#### 2. Preparation of Bid:

for

Each bid must be submitted on the prescribed form and accompanied by Certification of Bidder Regarding Equal Employment Opportunity, Acknowledgment Regarding Bidder SAM Registration, Certification of Bidder Regarding Section 3 and Segregated Facilities, and Drug-Free Workplace Affidavit. All blank spaces for bid prices must be filled in, in ink or typewritten, in both words and figures, and the foregoing Certifications must be fully completed and executed when submitted.

Each bid must be submitted in a sealed envelope bearing on the outside the name of the bidder, his/her address, the name of the project for which the bid is submitted, license number, expiration date thereof, and license classification of the contractors applying to bid for the prime contract, and for the electrical, plumbing, heating, ventilation, and air conditioning contracts, and all other information required by State law..

All bidders must be licensed General Contractors as required by the Contractor's Licensing Act of 1994 of the General Assembly of the State of Tennessee, and qualified for the type of construction being bid upon. Each bidder shall write on the outside of the envelope containing its bid: 1) its Contractor's license number; 2) that part of the classification applying to the bid. If this is not done, the bid will not be opened.

#### 3. Subcontracts:

The bidder is specifically advised that any person, for, or other party to whom it is proposed to award a subcontract under this contract:

- a. Must be acceptable to the owner; and
- b. Must submit Certification by Proposed Subcontractor Regarding Equal Employment Opportunity, and Certification of Proposed Subcontractor Regarding Section 3 and Segregated Facilities. Approval of the proposed subcontract award cannot be given by the owner unless and until the proposed subcontractor has submitted the Certifications and/or other evidence showing that it has fully complied with any reporting requirements to which it is or was subject.

Although the bidder is not required to attach such Certifications by proposed subcontractors to his/her bid, the bidder is here advised of this requirement so that appropriate action can be taken to prevent subsequent delay in subcontract awards.

#### 4. Telegraphic Modification:

Any bidder may modify his/her bid by telegraphic communication at any time prior to the scheduled closing time for receipt of bids provided such telegraphic communication is received by the Owner prior to the closing time, and, provided further, the Owner is satisfied that a written confirmation of the telegraphic modification over the signature of the bidder was mailed prior to the closing time. The telegraphic communication should not reveal the bid price but should provide the addition or subtraction or other modification so that the final prices or terms will not be known by the Owner until the sealed bid is opened. If written confirmation is not received within two days from the closing time, no consideration will be given to the telegraphic modification.

#### 5. Method of Bidding:

The Owner invites the following bid(s):

#### 6. Qualification of Bidder:

The Owner may make such investigations as s/he deems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the owner that such bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein. Conditional bids will not be accepted.

#### 7. Bid Security:

Each bid must be accompanied by cash, certified check of the bidder, or a bid bond prepared on the form of bid bond attached thereto, duly executed by the bidder as principal and having as surety thereon a surety company approved by the Owner, in the amount of 5% of the bid. Such cash, checks or bid bonds will be returned to all except the three lowest bidders within three days after the opening of bids, and the remaining cash, checks or bid bonds will be returned promptly after the Owner and the accepted bidder have executed the contract. or, if no award has been made within 60 days after the date of the opening of bids, upon demand of the bidder at any time thereafter, so long as he/she has not been notified of the acceptance of his/her bid.

#### 8. Liquidated Damages for Failure to Enter into Contract:

The successful bidder, upon his/her failure to refusal to execute and deliver the contract and bonds required within 10 days after she/he has received notice of the acceptance of his/her bid. shall forfeit to the Owner, as liquidated damages for such failure or refusal, the security deposited with his/her bid.

#### 9. Time of Completion and Liquidated Damages:

Bidder must agree to commence work on or before a date to be specified in a written "Notice to Proceed" of the Owner and to fully complete the project within consecutive calendar days thereafter. Bidder must agree also to pay as liquidated damages, the sum of \$ for each consecutive calendar day thereafter as hereinafter provided in the Supplemental General Conditions.

#### 10. Condition of Work:

Each bidder must inform him/herself fully of the conditions relating to the construction of the project and the employment of labor thereof. Failure to do so will not relieve a successful bidder of his/her obligation to furnish all material and labor necessary to carry out the provisions of his/her contract. Insofar as possible, the contractor, in carrying out the work, must employ such methods as will not cause any interruption of or interference with the work of any other contractor.

Revised (3/5/2024) CDBG Manual

#### 11. Addenda and Interpretations:

No interpretation of the meaning of the plans, specifications or other pre-bid documents will be made to any bidder orally.

Every request for such interpretation should be in writing addressed to

at

and to be given consideration must be received at least five days prior to the date fixed for the opening of bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which, if issued, will be mailed by certified mail with return receipt requested or emailed to all prospective bidders (at the respective addresses furnished for such purposes), not later than two days prior to the date fixed for the opening of bids. Failure of any bidder to receive any such addendum or interpretation shall not relieve such bidder from any obligation under his/her bid as submitted. All addenda so issued shall become part of the contract documents.

### 12. <u>Security for Faithful Performance:</u>

Simultaneously with his/her delivery of the executed contract, the Contractor shall furnish a surety bond or bonds as security for faithful performance of this contract and for the payment of all persons performing labor on the project under this contract and furnishing materials in connection with this contract, as specified in the General Conditions included herein. The surety on such bond or bonds shall be a duly authorized surety company satisfactory to the Owner.

### 13. <u>Power of Attorney:</u>

Attorneys-in-fact who sign bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

#### 14. Notice of Special Conditions:

Attention is particularly called to those parts of the contract documents and specifications which deal with the following:

- a. Inspection and testing of materials.
- b. Insurance requirements.
- c. Wage rates.
- d. Stated allowances.

#### 15. <u>Laws and Regulations:</u>

The bidder's attention is directed to the fact that all applicable State laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as though herein written out in full.

#### 16. Method of Award - Lowest Qualified Bidder:

After receiving bids and determining the amount of funds estimated by the OWNER as available to finance the contract, the OWNER will award the contract to the lowest responsible bidder. The lowest responsible bidder will be determined upon the basis of the lowest base bid or lowest base bid combined with alternates (additive or deductive). If the contract is to be awarded based on the lowest base bid with alternates, alternates will be accepted in the numerical order in which they are listed in the Form of Bid.

#### 17. Obligation of Bidder:

At the time of the opening of bids each bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the plans and contract documents (including all addenda). The failure or omission of any bidder to examine any form, instrument or document shall in no way relieve any bidder from any obligation in respect of his/her bid.

- 18. Safety Standards and Accident Prevention: With respect to all work performed under this contract, the Contractor shall:
  - a. 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 requirements of the Occupational Safety and Health Act of 1970 (Public Law 91-596), and the requirements of Title 29 of the Code of Federal Regulations, Section 1518 as published in the "Federal Register", Volume 36, No. 75, Saturday, April 17, 1971.
  - b. Exercise every precaution at all times for the prevention of accidents and the protection of persons (including employees) and property.
  - Maintain at his/her 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 care 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.

Revised (3/5/2024) CDBG Manual

### **BID BOND**

KNOW ALL MEN	BY THESE PRESENTS	, that we, the undersigned,	
as Principal, and			
		nd unto	
			for the
		de, we hereby jointly and severally bind	
ourselves, our he	irs, executors, administra	ators, successors and assigns.	
Signed, this	day of	, 20	
The condition of t	he above obligation is su	ich that whereas the Principal has submi	
		a certain Bid, attached	l hereto
and hereby made	a part hereof to enter in	to a contract in writing for the	

#### NOW, THEREFORE,

- (a) If said Bid shall be rejected, or in the alternate.
- (b) If said Bid shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid, then this obligation shall be void, otherwise the same shall remain in force and effect, it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The surety for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by an extension of the time within which the Owner may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal a seals, and such of them as are corporation hereto affixed and these presents to be stirst set forth above.	ons have caused	their corporate se	eals to be
		Principal	(L.S.)
SEAL	———— Ву:	Surety	

Revised (3/5/2024) CDBG Manual

## **BID FOR UNIT PRICE CONTRACTS**

	Place
	Date
	Project No.
Proposal of corporation, organized and existing under the partnership, or an individual doing business as	laws of the State of,
To the	(hereinafter called "Owner")
Gentlemen:	
The Bidder, in compliance with your invitation	for bids for the construction of a
having examined the plans and specifications proposed work, and being familiar with all of the of the proposed project including the availability to furnish all labor, materials, and supplies, and with the contract documents, within the time set below. These prices are to cover all expenses under the contract documents, of which this problem to be a specified in written "Notice to Proceed" of the within consecutive calendar days a specifications. Bidder further agrees to pay as \$ for each consecutive calendar Paragraph 3.c. of the Supplemental General Consecutive C	ne conditions surrounding the construction ty of materials and labor, hereby proposes and to construct the project in accordance et forth therein, and at the prices stated in performing the work required roposal is a part.  The er this contract on or before a date to be Owner and to fully complete the project thereafter as stipulated in the included in the stiquidated damages the sum of ar day thereafter as hereinafter provided in

Revised (3/5/2024) CDBG Manual

Insert corporation, partnership or individual as applicable.

Bidder acknowledges receipt of the following addendum:				
Bidder a	agrees to	perform all thespecifications and sho	own on the plans, for the	work following unit prices:
NO.	EST. QTY.	DESCRIPTION	UNIT PRICE (Each)	<u>Total</u>
1			Dollars & Cents	Dollars & Cents
2 _			(\$)	(\$)
3			Dollars & Cents (\$)	Dollars & Cents (\$)
- <u>-</u>			Dollars & Cents (\$) TOTAL OF BID	Dollars & Cents (\$)

(Amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

The above unit prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.

Bidder understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding.

The bidder agrees that this bid shall be good and may not be withdrawn for a period of 60 days after the scheduled closing time for receiving bids.

CDBG Manual Chapter F: Plans and Specifications

Upon receipt of written notice of the acceptance of this bid, bidder will execute the format contract attached within 10 days and deliver a Surety Bond or Bonds as required by Article 5 of the General Conditions. The bid security attached in the sum of	
	operty of the Owner in the event the contract and above set forth, as liquidated damages for the owner caused thereby.
	Respectfully submitted:
	By:( <i>Title</i> )
(SEAL - if bid is by a corporation)	

## **BID FOR LUMP SUM CONTRACTS**

	Place _	
		No
Proposal of		(hereinafter called "Bidder") (a
	corporation/a p	artnership/an individual doing
(State)	STRIKE (	OUT INAPPLICABLE TERMS
business as	<del></del>	)
To the	<del></del>	
(hereinafter called "Owner")		
Gentlemen:	our invitation for hide fo	r the construction of
The Bidder, in compliance with yo	our invitation for bigs to	r the construction of
proposed work, and being familiar of the proposed project including to furnish all labor, materials, and with the Contract Documents, with below. These prices are to cover under the Contract Documents, or Bidder hereby agrees to commen specified in written "Notice to Prowithin consecutive caspecifications. Bidder further agrees for each consecutive caspecifications. Bidder further agrees for each consecutive caspecifications. Of the Supplemental Bidder acknowledges receipt of the supplemental properties of the supp	the availability of mater supplies; and to construct hin the time set forth the all expenses incurred of which this proposal is see work under this conceed" of the Owner and lendar days thereafter ees to pay as liquidated utive calendar day there tal General Conditions.	rials and labor, hereby proposes truct the project in accordance terein, and at the prices stated in performing the work required a part.  Itract on or before a date to be do to fully complete the project as stipulated in the domages, the sum of reafter as hereinafter provided in the
BASE PROPOSAL: Bidder agree	es to perform all of the	
		work described in the
specifications and shown on the p	olans for the sum	
	(\$	) (Amount shall be
shown in both words and figures.	In case of discrepance	y, the amount shown in words
will govern.)		

#### **ALTERNATE PROPOSALS**

Alternate No. 1:		
Deduct the sum of	(\$	)
Alternate No. 2:		
Deduct the sum of	(\$	)
Alternate No. 3:		
Deduct the sum of	(\$	)
Alternate No. 4:		
Deduct the sum of	(\$	)

#### **UNIT PRICES**

For changing quantities of work items from those indicated by the contract drawings upon written instructions from the architect/engineer, the following unit prices shall prevail:

1	\$
2	\$
3.	\$

The above unit prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for. Changes shall be processed in accordance with Article 11.3.1 of the General Conditions.

Bidder understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding.

The bidder agrees that this bid shall be good and may not be withdrawn for a period of 60 calendar days after the scheduled closing time for receiving bids.

Upon receipt of written notice of the acceptance of this bid, the bidder will execute the formal contract attached within 10 days and deliver a Surety Bond or Bonds as required by Article 5 of the General Conditions.

The bid security attached in the sum of _	
(\$) is to become the pro	operty of the Owner in the event the contract
and bond are not executed within the tim	e above set forth, as liquidated damages for the
delay and additional expense to the Own	er caused thereby.
	Respectfully submitted:
	Ву:
	(Signature)
(SEAL - if bid is by a corporation)	
	(Title)
	(Business Address & Zip Code)
	(=3.5555 : 1.2.d. 565 G = 2.p 5646)

Revised (3/5/2024) CDBG Manual

# ACKNOWLEDGEMENT REGARDING BIDDER SAM REGISTRATION

Pursuant to 2 CFR Parts 183 and 215 and the requirement of the U.S. Department of Housing and Urban Development (HUD), contractors procured directly by grantees, sub-grantees, and/or sub-recipients of HUD funds, including CDBG are required to have an active registration in the System of Award Management (SAM). This document shall be completed and submitted as part of the bid proposal.

- 1. By submitting this proposal, the prospective bidder acknowledges that it must have an active SAM UEI (Unique Entity ID) to be awarded this contract and that without an active SAM UEI the bidder's proposal may be disallowed.
- 2. By submitting this proposal, the prospective bidder certifies neither it, its principals nor affiliates, is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 3. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that an erroneous certification was rendered, in addition to other remedies available to the Federal Government, the Department or agency with which this transaction originated may pursue available remedies.
- 4. Further, the prospective bidder shall provide immediate written notice to the person to which this proposal is submitted if at any time the Participant learns that this certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- 5. By submitting this proposal, it is agreed that should the proposed covered transaction be entered into, the prospective bidder will not knowingly enter into any lower-tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction unless authorized by the agency with which this transaction originated.
- 6. It is further agreed that by submitting this proposal, the prospective bidder will include Certification of Subcontractor Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion without modification, in all lower-tier covered transactions and in all solicitations for lower-tier covered transactions.

Provide the following information as detailed in the prospective bidder's SAM registration:

Entity Name:	
Address:	
City:	State: Zip:
SAM Entity ID:	Expiration Date:
Active Exclusions: Yes No	

# CERTIFICATION OF BIDDER REGARDING EQUAL EMPLOYMENT OPPORTUNITY

This certification is required pursuant to Executive Order 11246 (30 F. R. 12319-25). The implementing rules and regulations provide that any bidder or prospective contractor, or any of their proposed subcontractors, shall state as an initial part of the bid or negotiations of the contract whether it has participated in any previous contract or subcontract subject to the equal opportunity clause; and, if so, whether it has filed all compliance reports due under applicable instructions.

Where the certification indicates that the bidder has not filed a compliance report due under applicable instructions, such bidder shall be required to submit a compliance report within seven calendar days after bid opening. No contract shall be awarded unless such report is submitted.

Bi	dder/Firm:			
Ac	ldress:			
Ci	ty:	State		Zip
1.	Bidder has participated in a previous contract or subcontract subject to the Equal Opportunity Clause.	Yes	No	
2.	Compliance reports were required to be filed in connection with such contract or subcontract.	Yes	No	
3.	Bidder has filed all compliance reports due under applicable instructions, including SF-100.	Yes	No	None Req.
4.	Have you ever been or are you being considered for sanction due to violation of Executive Order 11246, as amended?	Yes	No	
Bio	dder Name:	Title:		
Sic	anature:	Date:		

CDBG Manual Revised (3/5/2024)

**Certification by Bidder** 

# CERTIFICATION OF BIDDER REGARDING USE OF FEMALE/MINORITY SUBCONTRACTORS

This certification is required for the contractor to demonstrate that when subcontractors are to be used on this project, an attempt will be made to utilize female/minority owned firms.

Documentation must be on file to show who has been contacted.

Certification by Bidder

ocitinoation by blader		
Bidder/Firm:		
Address:		
City:		Zip
I,	, certify that every attemp	ot was made to utilize
Bidder Name:	Title:	
Signature:	Date:	

## CERTIFICATION OF SUBCONTRACTOR REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND EXCLUSION

Pursuant to 2 CFR Parts 183, 215, and 2424, and the requirement of the U.S. Department of Housing and Urban Development (HUD), subcontractors for projects that are funded in whole or in part by HUD funds must provide information concerning the entity's debarment, suspension, ineligibility or exclusion status. This document shall be completed and provided to the prime contractor.

- 1. By signing and submitting this proposal, the prospective lower-tier participant certifies that neither it, its principals nor affiliates, is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency. Further, the Participant provides the certification set out below:
- 2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that an erroneous certification was rendered, in addition to other remedies available to the Federal Government, the Department or agency with which this transaction originated may pursue available remedies.
- 3. Further, the Participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the Participant learns that this certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- 4. By submitting this document, it is agreed that should the proposed covered transaction be entered into, the Participant will not knowingly enter into any lower-tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction unless authorized by the agency with which this transaction originated.

The subcontracting entity may satisfy the requirement of this document via one of the two options below:

#### Option 1: SAM.gov Active Registration

Entity Name:	
Address:	
City:	
SAM Entity ID:	Expiration Date:
Active Exclusions: Yes No	
Option 2: Signed Certification	
Entity Name:	
Address:	
City:	State: Zip:
Entity Representative:	
Littly Representative.	Title:

## **CERTIFICATION OF BIDDER REGARDING SECTION 3 AND SEGREGATED FACILITIES**

NAME OF PRIME CONTRACTOR:	
PROJECT NUMBER:	
The undersigned hereby certifies that	
<ul> <li>Section 3 provisions are included in the Cont</li> </ul>	ract.
<ul> <li>This grant project exceeds \$200,000 of CDB0 comply with all Section 3 requirements detailed reporting total labor hours worked,</li> <li>reporting total labor hours worked by a reporting total labor hours worked by a Providing documentation of Section 3 for the project under the covered contract.</li> </ul>	ed in the CDBG Manual, including: Section 3 workers, Fargeted Section 3 workers, worker status as required for all workers
<ul> <li>No segregated facilities will be maintained as Act of 1964.</li> </ul>	required by Title VI of the Civil Rights
Name & Title of Signer (Print or Type)	
Signature	 Date

Revised (3/5/2024) CDBG Manual

## DRUG-FREE WORKPLACE AFFIDAVIT

ST	TATE OF		
CC	COUNTY OF		
en	The undersigned, principal officer of mployer of five (5) or more employees contra overnment to provide construction services, h	cting with	
1.	. The undersigned is a principal officer of referred to as the "Company"), and is duly a the Company.	authorized to execute	(hereinafter this Affidavit on behalf of
2.	. The Company submits this Affidavit pursual employer with no less than five (5) employed any local government to provide construction employer has a drug-free workplace programment to provide construction employer has a drug-free workplace programment.	ees receiving pay who on services to submit	contracts with the state or an affidavit stating that such
3.	. The Company is in compliance with T.C.A.	§ 50-9-113.	
Fu	urther affiant saith not.		
Pr	rincipal Officer		
ST	STATE OF		
C	COUNTY OF		
pe ac	sefore me personally appearedersonally acquainted (or proved to me on the cknowledged that such person executed the fontained.	basis of satisfactory	evidence), and who
W	Vitness my hand and seal at office this	day of	, 20
My	ly commission expires:	Notary Public	

# CERTIFICATION BY PROPOSED SUBCONTRACTOR REGARDING EQUAL EMPLOYMENT OPPORTUNITY

NA	AME OF PRIME CONTRACTOR:			
PF	ROJECT NUMBER:			
im the wh	is certification is required pursuant to Executive Ord plementing rules and regulations provide that any bidd eir proposed subcontractors, shall state as an initial part of bether it has participated in any previous contract or subcouse; and, if so, whether it has filed all compliance report	er or prosp of the bid o contract sub	ective on negotian piect to the contraction of the	contractor, or any of attions of the contract ne equal opportunity
un	here the certification indicates that the subcontractor had applicable instructions, such subcontractor shall be fore the owner approves the subcontract or permits wor	required to	submit	a compliance report
<u>SL</u>	JBCONTRACTOR'S CERTIFICATION			
Su	bcontractor Name:			
Ad	dress:			
Cit	y:	State		Zip
1.	Bidder has participated in a previous contract or subcontract subject to the Equal Opportunity Clause.	Yes	No	
2.	Compliance reports were required to be filed in connection with such contract or subcontract.	Yes	No	
3.	Bidder has filed all compliance reports due under applicable instructions, including SF-100.	Yes	No	None Req.
4.	Have you ever been or are you being considered for sanction due to violation of Executive Order 11246, as amended?	Yes	No	
Na	nme:	Title:		
Sid	anature:	Date:		

# CERTIFICATION OF PROPOSED SUBCONTRACTOR REGARDING SECTION 3 AND SEGREGATED FACILITIES

NAME OF SUBCONTRACTOR:	
PROJECT NUMBER:	
The undersigned hereby certifies that	
requirements detailed in the CDBG Manu  reporting total labor hours worked, reporting total labor hours worked reporting total labor hours worked	he contractor will comply with all Section 3 al, including: by Section 3 workers, by Targeted Section 3 workers, n 3 worker status as required for all workers for
<ul><li>No segregated facilities will be maintained</li><li>1964.</li></ul>	d as required by Title VI of the Civil Rights Act of
Name & Title of Signer (Print or Type)	
Signature	Date

## STATEMENT OF COMPLIANCE CERTIFICATE **ILLEGAL IMMIGRANT**

### EACH CONTRACTOR BIDDING SHALL FILL IN AND SIGN THE FOLLOWING

Bido	der Name:		
Add	ress:		
City	:	State	Zip
This fully	s is to certify that complied with all the requirements of T.C.A. § 12-3	3-309, stating:	have
(1)	No state governmental entity shall contract to ac who knowingly utilizes the services of illegal immig goods or services entered into with a state govern	grants in the perfo	
(2)	No person may contract to supply goods or serv person knowingly utilizes the services of illegal im to supply goods or services entered into with the	nmigrants in the pe	erformance of a contrac
exe	Bidders for construction services on this project slouting this compliance document) as part of their bid requirements of T.C.A. § 12-3-309.	-	, -
Nan	ne:	_ Title:	
Sigr	nature:	_ Date:	

## CERTIFICATION OF NON-BOYCOTT OF ISRAEL

The Bidder certifies that it is not currently engaged in, and will not for the duration of the contract engage in, a boycott of Israel as defined by Tenn. Code Ann. § 12-4-119. This provision shall not apply to contracts with a total value of less than two hundred fifty thousand dollars (\$250,000) or to contractors with less than ten (10) employees.

According to the law, a boycott of Israel means engaging in refusals to deal, terminating business activities, or other commercial actions that are intended to limit commercial relations with Israel, or companies doing business in or with Israel or authorized by, licensed by, or organized under the laws of the State of Israel to do business, or persons or entities doing business in Israel, when such actions are taken:

- 1) In compliance with, or adherence to, calls for a boycott of Israel, or
- 2) In a manner that discriminates on the basis of nationality, national origin, religion, or other unreasonable basis, and is not based on a valid business reason. Tenn. Code Ann. § 12-4-119.

I certify this statement to be true and correct.	
Bidder Name Printed	Date
Signature of Bidder	Company

# IRAN DIVESTMENT ACT

In compliance with the Iran Divestment Act (State of Tennessee 2016, Public Chapter No. 817), which became effective on July 1, 2016, certification is required of all bidders on contracts over \$1,000.

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party hereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to T.C.A. § 12-12-106.

l affiri correc	-	y, this statement to be true and
	Date	Signature of Bidder
		Company
forego bidder the bid	ing certification has been comp cannot make the foregoing certid d a signed statement which sets	or award nor shall award be made where the lied with; provided, however, that if in any case the fication, the bidder shall so state and shall furnish with forth in detail the reasons therefor. The bidder who cannot make the certification, on case-by-
1.	The investment activities in I activities in Iran have not been person has adopted, publicize	ran were made before July 1, 2016, the investment expanded or reviewed on or after July 1, 2016, and the d, and is implementing a formal plan to cease the d to refrain from engaging in any new investments in
2.	services are necessary for perform its functions and that, a be unable to obtain the good	makes a determination that the goods or theto absent such an exemption, the political subdivision will sor services for which the contract is offered. Such writing and shall be a public document.



#### **NOTICE**

Tenn. Code Ann. § 12-12-106 requires the chief procurement officer to publish, using credible information freely available to the public, a list of persons it determines engage in investment activities in Iran, as described in § 12-12-105.

For these purposes, the State intends to use the attached list of "Entities determined to be non-responsive bidders/offerers pursuant to the New York State Iran Divestment Act of 2012."

While inclusion on this list would make a person ineligible to contract with the state of Tennessee, if a person ceases its engagement in investment activities in Iran, it may be removed from the list.

If you feel as though you have been erroneously included on this list please contact the Central Procurement Office at <u>CPO.Website@tn.gov</u>.

List Date: May 4, 2022

Source: https://www.ogs.ny.gov/iran-divestment-act-2012

- 1. Ak Makina, Ltd.
- 2. Amona
- Bank Markazi Iran (Central Bank of Iran)
- 4. Bank Mellat
- 5. Bank Melli Iran
- 6. Bank Saderat Iran
- 7. Bank Sepah
- 8. Bank Tejarat
- China Precision Machinery Import- Export Corporation (CPMIEC)
- 10. ChinaOil (China National United Oil Corporation)
- 11. China National Offshore Oil Corporation (CNOOC)
- 12. China National Petroleum Corporation (CNPC)
- 13. Indian Oil Corporation
- 14. Kingdream PLC
- 15. Naftiran Intertrade Co. (NICO)
- National Iranian Tanker Co. (NITC)
- 17. Oil and Natural Gas Corporation (ONGC)
- 18. Oil India, Ltd.
- 19. Persia International Bank
- 20. Petroleos de Venezuela (PDVSA Petróleo, SA)
- 21. PetroChina Co., Ltd.
- 22. Petronet LNG, Ltd.
- 23. Sameh Afzar Tajak Co. (SATCO)
- 24. Shandong FIN CNC Machine Co., Ltd.

- 25. Sinohydro Co., Ltd.
- 26. Sinopec Corp. (China Petroleum & Chemical Corporation)
- 27. SKS Ventures
- 28. SK Energy Co., Ltd.
- 29. Som Petrol AS
- Unipec (China International United Petroleum & Chemicals Co., Ltd.)
- 31. Zhuhai Zhenrong Co.

"General Decision Number: TN20240121 01/05/2024

Superseded General Decision Number: TN20230121

State: Tennessee

Construction Type: Heavy

Including Water and Sewer Line Construction

Counties: Bledsoe, Cocke, Greene, Grundy, Johnson, McMinn, Meigs, Monroe, Rhea, Roane and Sevier Counties in Tennessee.

HEAVY CONSTRUCTION PROJECTS (including sewer/water construction).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an |. The contractor must pay option is exercised) on or after January 30, 2022:

- |. Executive Order 14026 generally applies to the contract.
- all covered workers at least \$17.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2024.

If the contract was awarded on . or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:

- Executive Order 13658 generally applies to the contract.
- . The contractor must pay all covered workers at least \$12.90 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2024.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number

Publication Date 01/05/2024

ENGI0917-025 05/01/2017

	Rates	Fringes
Operating Engineers: Backhoe, Excavator, Trackhoe, Bulldozer, and Crane	\$ 28.26	10.10
SUTN2009-120 12/02/2009		
	Rates	Fringes
ELECTRICIAN	\$ 20.06	0.00
LABORER: Common or General	\$ 11.36 **	0.00
LABORER: Flagger	\$ 10.50 **	0.00
LABORER: Pipelayer	\$ 12.75 **	0.00
TRUCK DRIVER: Dump Truck	\$ 11.63 **	0.81

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

\_\_\_\_\_\_

<sup>\*\*</sup> Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$17.20) or 13658 (\$12.90). Please see the Note at the top of the wage determination for more information. Please also note that the

minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at

https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

-----

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this

classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

#### WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION"

"General Decision Number: TN20240144 01/05/2024

Superseded General Decision Number: TN20230144

State: Tennessee

Construction Type: Heavy

Including Water and Sewer Line Construction

Counties: Grainger, Hamblen and Jefferson Counties in

Tennessee.

HEAVY CONSTRUCTION PROJECTS (including sewer/water construction).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an |. The contractor must pay option is exercised) on or after January 30, 2022:

- |. Executive Order 14026 generally applies to the contract.
- all covered workers at least \$17.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2024.

If the contract was awarded on . or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:

- Executive Order 13658 generally applies to the contract.
- . The contractor must pay all covered workers at least \$12.90 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2024.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number

Publication Date 01/05/2024

ELEC0760-011 06/01/2020

Grainger, and Jefferson Counties

	Rates	Fringes
ELECTRICIAN	.\$ 26.87	12.05
ELEC0934-006 06/01/2023		
Hamblen County		
	Rates	Fringes
ELECTRICIAN	.\$ 25.99	19.75%+8.30
ENGI0917-022 05/01/2017		
	Rates	Fringes
Operating Engineers:  Bulldozer and Crane  Forklift  LABO0818-003 05/01/2017		10.10 10.10
, ,	Rates	Fringes
		-
LABORER: Common or General	.\$ 19.77	6.53
SUTN2009-143 12/02/2009		

Rates

Fringes

LABORER:	Flagger\$ 8.73 **	0.00
LABORER:	Pipelayer\$ 11.70 **	0.00
OPERATOR: Backhoe/Ex	cavator/Trackhoe\$ 17.15 **	0.00
OPERATOR:	Loader 13.50 **	0.00
TRUCK DRIV	ER: Dump Truck\$ 10.76 **	0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

\*\* Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$17.20) or 13658 (\$12.90). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

.....

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

-----

#### WAGE DETERMINATION APPEALS PROCESS

- 1.) Has there been an initial decision in the matter? This can be:
- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor

200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

\_\_\_\_\_\_

END OF GENERAL DECISION"

# **AGREEMENT**

THIS AGREEMENT, between	made this	day of	, 20	, by and herein called
"Owner", acting here	in through its	·		
				_, and
STRIKE OUT	(a corporation)	(a partnership)		
INAPPLICABLE TERMS	(an individual d	oing business as		)
	, Cou	nty of reinafter called "Contract	, and	State of
WITNESSETH: That mentioned, to be made the OWNER to comm	for and in conside and performented and componented and comp	deration of the payments ed by the OWNER, the Collete the construction deserted aum of	s and agreements he CONTRACTOR here scribed as follows:	ereinafter
		I	Dollars (\$	) and all
the materials, supplications and prices Conditions and Spectorints, and other draw and contract docume herein entitled "the A	es, machinery, ed services neces stated in the Prical Conditions of wings and printeents therefore as rchitect/Enginee	s (its or their) own prope equipment, tools, supering sary to complete the safe oposal, the General Conference of the Contract, the plans, dor written explanatory repared byer", and as enumerated in made a part hereof and contract of the contract	itendence, labor, inside project in accordanditions, Supplement which include all matter thereof, the secondary and paragraph 1 of the	surance, and ance with the stal General aps, plats, blue specifications  Supplemental
specified in a written consecut liquidated damages,	"Notice to Proce ive calendar day the sum of \$	nmence work under this deed" of the Owner and to ys thereafter. The Contra for each consect of the Supplemental Gen	fully complete the pactor further agrees attive calendar day t	oroject within to pay, as
contract, subject to a	dditions and dec e payments on a	TRACTOR in current fur ductions, as provided in t account thereof as provided in the real Conditions.	the General Condition	ons of the
	•	s to these presents have deemed an original, in th		` ,
(Seal) ATTEST:		(Own	 ner)	

	By:
(Secretary)	
(Witness)	(Title)
(Seal)	
	(Contractor)
	Ву:
(Secretary)	
(Witness)	(Title)
(Address, City,	State, and Zip Code)

CDBG Manual Chapter F: Plans and Specifications

### BONDING AND INSURANCE

- 1. This Attachment sets forth bonding and insurance requirements for grants. No other bonding and insurance requirements shall be imposed other than those normally required by the grantee.
- 2. Except as otherwise required by law, a grant that requires the contracting (or subcontracting) for construction or facility improvements shall provide for the grantee to follow its own requirements relating to bid guarantees, performance bonds, and payment bonds unless the construction contract or subcontract exceeds \$150,000 (See 2 CFR 200.88). For those contracts or subcontracts exceeding \$150,000, the Federal agency may accept the bonding policy and requirements of the grantee provided the Federal agency has made a determination that the Government's interest is adequately protected. If such a determination has not been made, the minimum requirements shall be as follows:
  - a. A bid guarantee from each bidder equivalent to five percent of the bid price. The "bid guarantee" shall consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon acceptance of his bid, execute such contractual documents as may be required within the time specified.
  - b. A performance bond on the part of the contractor for 100 percent of the contract price. A "performance bond" is one executed in connection with a contract to secure fulfillment of all the contractor's obligations under such contract.
  - c. A payment bond on the part of the contractor for 100 percent of the contract price. A "payment bond" is one executed in connection with a contract to assure payment as required by law of all persons supplying labor and material in the execution of the work provided for in the contract.
- 3. Where the Federal Government guarantees or insures the repayment of money borrowed by the grantee, the Federal agency, at its discretion, may require adequate bonding and insurance if the bonding and insurance requirements of the grantee are not deemed adequate to protect the interest of the Federal Government.
- 4. Where bonds are required in the situations described above, the bonds shall be obtained from companies holding certificates of authority as acceptable sureties (31 CFR 223).

NOTE: AIA Document A311 is acceptable for use as Performance and Payment Bonds.

Revised (3/5/2024) CDBG Manual

# **CERTIFICATE OF OWNER'S ATTORNEY**

I, the undersigned,	, the duly authorized
and acting legal representative of	
do hereby certify as follows:	
I have examined the attached contract(s) and su execution thereof, and I am of the opinion that eabeen duly executed by the proper parties thereto representatives; that said representatives have fragreements on behalf of the respective parties nagreements constitute valid and legally binding of the same in accordance with terms, conditions a	ach of the aforesaid agreements has acting through their duly authorized all power and authority to execute said amed thereon; and that the foregoing bligations upon the parties executing
Date:	

CDBG Manual Revised (3/5/2024)

## **Status of Land Acquisition**

All permanent easements, land purchases, city/county/state right of ways, Department of Transportation, Corps of Engineers and railroad permits and any other land access agreements must be obtained and recorded (if applicable) with the appropriate agencies prior to ECD approval of plans and specifications.

Please check the following boxes and sign below:

Yes No	N/A	
		All permanent easements necessary for the construction of this project have been acquired and recorded with the appropriate agency.
		All land acquisition necessary for the construction of this project has been acquired and recorded with the appropriate agency.
		All right-of-ways, permits, and land access agreements necessary for the construction of this project have been acquired and recorded with the appropriate agency(s).
		OR
		The construction of this project requires no acquisition of land, permanent easements, right-of-ways, permits or land access agreements.
Stary Lak	Im	4-11-24
Signature of grantee,	A TOTAL VILLE - TOTAL	architect, Date
or project/administra	tor	

This form must be sent to ECD before we can approve plans and specifications.

## **Status of Land Acquisition**

All permanent easements, land purchases, city/county/state right of ways, Department of Transportation, Corps of Engineers and railroad permits and any other land access agreements must be obtained and recorded (if applicable) with the appropriate agencies prior to ECD approval of plans and specifications.

Please check the following boxes and sign below:

Yes	No	N/A	
		V	All permanent easements necessary for the construction of this project have been acquired and recorded with the appropriate agency.
			All land acquisition necessary for the construction of this project has been acquired and recorded with the appropriate agency.
			All right-of-ways, permits, and land access agreements necessary for the construction of this project have been acquired and recorded with the appropriate agency(s).
			OR
		V	The construction of this project requires no acquisition of land, permanent easements, right-of-ways, permits or land access agreements.
-	0		
Signature of gra	/		04-18-2024 Date

This form must be sent to ECD before we can approve plans and specifications.

## **Status of Land Acquisition**

All permanent easements, land purchases, city/county/state right of ways, Department of Transportation, Corps of Engineers and railroad permits and any other land access agreements must be obtained and recorded (if applicable) with the appropriate agencies prior to ECD approval of plans and specifications.

Please check the following boxes and sign below:

	Yes	No	N/A	
			K	All permanent easements necessary for the construction of this project have been acquired and recorded with the appropriate agency.
			¥	All land acquisition necessary for the construction of this project has been acquired and recorded with the appropriate agency.
	k			All right-of-ways, permits, and land access agreements necessary for the construction of this project have been acquired and recorded with the appropriate agency(s).
				OR
			K	The construction of this project requires no acquisition of land, permanent easements, right-of-ways, permits or land access agreements.
1	11	1.	2	04/20/2024
Signatui or proje				/architect, Date

This form must be sent to ECD before we can approve plans and specifications.

# Community Development Block Grant Program GENERAL CONDITIONS

#### 1. Contract and Contract Documents

The project to be constructed and pursuant to this contract will be financed with assistance from the Tennessee Community Development Block Grant Program and is subject to all applicable Federal laws and regulations.

The Plans, Specifications and Addenda, hereinafter enumerated in Paragraph 1 of the Supplemental General Conditions shall form part of this Contract and the provisions thereof shall be as binding upon the parties hereto as if they were herein fully set forth. The table of contents, titles, headings, running headlines and marginal notes contained herein and in said documents are solely to facilitate reference to various provisions of the Contract Documents and in no way affect, limit or cast light on the interpretation of the provisions to which they refer.

#### TABLE OF CONTENTS OF GENERAL CONDITIONS

Article <u>Number</u>	<u>Title</u>	<u>Page</u>
1	DEFINITIONS	11
2	PRELIMINARY MATTERS	12
3	CONTRACT DOCUMENTS: INTENT, AMENDING AND REUSE	13
4	AVAILABILITY OF LANDS; PHYSICAL CONDITIONS; REFERENCE POINTS	14
5	BONDS AND INSURANCE	15
6	CONTRACTOR'S RESPONSIBILITIES	19
7	OTHER WORK	24
8	OWNER'S RESPONSIBILITIES	22
9	ENGINEER'S STATUS DURING CONSTRUCTION	22
10	CHANGES IN THE WORK	25
11	CHANGE OF CONTRACT PRICE	25
12	CHANGE OF CONTRACT TIMES	30
13	TESTS AND INSPECTIONS; CORRECTION; REMOVAL OR ACCEPTANCE OF DEFECTIVE	
	WORK	30
14	PAYMENTS TO CONTRACTOR AND COMPLETION	32
15	SUSPENSION OF WORK AND TERMINATION	34
16	DISPUTE RESOLUTION	35
17	MISCELLANEOUS	35

1.	DEFINIT	IONS	53		3.6	Supplementing Contract Documents
	1.1	Addendum	53		3.7	Reuse of Documents
	1.2	Agreement	53	4.	AVAILAB	ILITY OF LANDS; SUBSURFACE AND
	1.3	Application for Payment	53		PHYSICAL	CONDITIONS; REFERENCE POINTS
	1.4	Asbestos	53		4.1	Availability of Lands
	1.5	Bid	53		4.2	Subsurface and Physical Conditions
	1.6	Bidding Documents	53		4.2.1	Reports and Drawings
	1.7	Bidding Requirements	53		4.2.2	Limited Reliance by CONTRACTOR
	1.8	Bonds	53			Authorized; Technical Data
	1.9	Change Order	53		4.2.3	Notice of Differing Subsurface or
	1.10	Contract Documents	53			Physical Conditions
	1.11	Contract Price	53		4.2.4	ENGINEER's Review
	1.12	Contract Times	53		4.2.5	Possible Contract Documents Change
	1.13	CONTRACTOR	53		4.2.6	Possible Price and Times Adjustments
	1.14	defective	53		4.3	Physical ConditionsUnderground
	1.14		53		4.5	Facilities
	1.15	Drawings	53		4.3.1	Shown or Indicated
		Effective Date of the Agreement				
	1.17	ENGINEER	53		4.3.2	Not Shown or Indicated
	1.18	ENGINEER's Consultant	53		4.4	Reference Points
	1.19	Field Order	53		4.5	Asbestos, PCB's, Petroleum, Hazardous
	1.20	General Requirements	53			Waste or Radioactive Material
	1.21	Hazardous Waste	53	5.		ND INSURANCE
	1.22	Laws and Regulations; Laws or			5.1-5.2	Performance, Payment and Other Bonds 59
		Regulations	53		5.3	Licensed Sureties and Insurers;
	1.23	Liens	54			Certificates of Insurance
	1.24	Milestone	54		5.4	CONTRACTOR's Liability Insurance
	1.25	Notice of Award	54		5.5	OWNER's Liability Insurance
	1.26	Notice to Proceed	54		5.6	Property Insurance
	1.27	OWNER	54		5.7	Boiler and Machinery or Additional
	1.28	Partial Utilization	54			Property Insurance
	1.29	PCBs	54		5.8	Notice of Cancellation Provisions
	1.30	Petroleum	54		5.9	CONTRACTOR's Responsibility for
	1.31	Project	54		3.7	Deductible Amounts
	1.32	Radioactive Material	54		5.10	Other Special Insurance
	1.32		54		5.10	
		Resident Project Representative				Waiver of Rights
	1.34	Samples	54		5.12-5.13	Receipt and Application of Insurance
	1.35	Shop Drawings	54			Proceeds
	1.36	Specifications	54		5.14	Acceptance of Bonds and Insurance;
	1.37	Subcontractor	54			Option to Replace
	1.38	Substantial Completion	54		5.15	Partial UtilizationProperty
	1.39	Supplementary Conditions	54			Insurance
	1.40	Supplier	54	6.	CONTRAC	TOR'S RESPONSIBILITIES
	1.41	Underground Facilities	54		6.1-6.2	Supervision and Superintendence
	1.42	Unit Price Work	54		6.3-6.5	Labor, Materials and Equipment
	1.43	Work	54		6.6	Progress Schedule
	1.44	Work Change Directive	54		6.7	Substitutes and "Or-Equal" Items;
	1.45	Written Amendment	55			CONTRACTOR's Expense;
2.	PRELIMI	NARY MATTERS	55			Substitute Construction
	2.1	Delivery of Bonds	55			Methods or Procedures;
	2.2	Copies of Documents	55			ENGINEER's Evaluation
	2.3	Commencement of Contract Times;			6.8-6.11	Concerning Subcontractors, Suppliers
	2.5	Notice to Proceed	55		0.0 0.11	and Others; Waiver of Rights
	2.4	Starting the Work	55		6.12	Patent Fees and Royalties
	2.5-2.7	Before Starting Construction;	33		6.13	•
	2.3-2.7					Permits
		CONTRACTOR's Responsibility to Report:			6.14	Laws and Regulations
		Preliminary Schedules;			6.15	Taxes
		Delivery of Certificates of			6.16	Use of Premises
		Insurance	55		6.17	Site Cleanliness
	2.8	Preconstruction Conference	55		6.18	Safe Structural Loading
_	2.9	Initially Acceptable Schedules	55		6.19	Record Documents
3.		CT DOCUMENTS: INTENT,			6.20	Safety and Protection
		NG, REUSE	56		6.21	Safety Representative
	3.1-3.2	Intent	56		6.22	Hazard Communication Programs
	3.3	Reference to Standards and			6.23	Emergencies
		Specifications of Technical Societies;			6.24	Shop Drawings and Samples
		Reporting and Resolving			6.25	Submittal Procedures;
		Discrepancies	56			CONTRACTOR's Review Prior to
	3.4	Intent of Certain Terms or Adjectives	56			Shop Drawing or Sample Submittal
	3.5	Amending Contract Documents	56			P Starming of Sample Suchinternation
	٥.٠	Contract Documents	20			

	6.26	Shop Drawing & Sample Submittals	
		Review by ENGINEER	66
	6.27	Responsibility for Variation From	
	( 20	Contract Documents	66
	6.28	Related Work Performed Prior to	
		ENGINEER's Review and Approval of Required Submittals	66
	6.29	Continuing the Work	66
	6.30	CONTRACTOR's General	00
	0.50	Warranty and Guarantee	67
	6.31-6.33	Indemnification	67
	6.34	Survival of Obligations	67
7.	OTHER WO	RK	67
	7.1-7.3	Related Work at Site	67
	7.4	Coordination	68
8.		ESPONSIBILITIES	68
	8.1	Communications to Contractor	68
	8.2	Replacement of ENGINEER	68
	8.3	Furnish Data and Pay Promptly When	60
	9.1	Due	68
	8.4	Lands and Easements; Reports and Tests	68
	8.5	Insurance	68
	8.6	Change Orders	68
	8.7	Inspections, Tests and Approvals	68
	8.8	Stop or Suspend Work; Terminate	30
	0.0	CONTRACTOR's Services	68
	8.9	Limitations on OWNER's	
		Responsibilities	68
	8.10	Asbestos, PCB's, Petroleum, Hazardous	
		Waste or Radioactive Material	68
	8.11	Evidence of Financial Arrangements	68
9.		S STATUS DURING	60
		CTION	68
	9.1 9.2	OWNER's Representative	68 68
	9.2	Project Representative	69
	9.4	Clarifications and Interpretations	69
	9.5	Authorized Variations in Work	69
	9.6	Rejecting Defective Work	69
	9.7-9.9	Shop Drawings, Change Orders and	
		Payments	69
	9.10	Determinations for Unit Prices	69
	9.11-9.12	Decisions on Disputes; ENGINEER as	
		Initial Interpreter	69
	9.13	Limitations on ENGINEER's	
1.0	CHARGE?	Authority and Responsibilities	70 70
10.		IN THE WORK	70 70
	10.1	OWNER Ordered Change	70 70
	10.2 10.3	Claim for Adjustment	70
	10.3	Documents	70
	10.4	Change Orders	70
	10.4	Notification of Surety	71
11.		F CONTRACT PRICE	71
	11.1-11.3	Contract Price; Claim for Adjustment;	
		Value of the Work	71
	11.4	Cost of the Work	71
	11.5	Exclusions to Cost of the Work	72
	11.6	CONTRACTOR's Fee	73
	11.7	Cost Records	73
	11.8	Cash Allowances	73
12	11.9	Unit Price Work	73
12.		F CONTRACT TIMES	73 73
	12.1 12.2	Claim for Adjustment  Time of the Essence	73 74
	12.2	Delays Beyond CONTRACTOR's	/ ¬
	14.3	Control	74

	12.4	Delays Beyond OWNER's and
		CONTRACTOR's Control 7
13.		INSPECTIONS; CORRECTION,
		OR ACCEPTANCE OF DEFECTIVE
	WORK	
	13.1	Notice of Defects
	13.2	Access to the Work
	13.3	Tests and Inspections; Contractor's
		Cooperation
	13.4	OWNER's Responsibilities:
		Independent Testing Laboratory 7
	13.5	CONTRACTOR'S Responsibilities
	13.6-13.7	Covering Work Prior to Inspection,
		Testing or Approval
	13.8-13.9	Uncovering Work at ENGINEER's
		Request
	13.10	OWNER May Stop the Work
	13.11	Correction or Removal of Defective
		Work
	13.12	Correction Period
	13.13	Acceptance of Defective Work
	13.14	OWNER May Correct Defective
1.4	DAXD (ENTE)	Work
14.		S TO CONTRACTOR AND
		ON
	14.1	Schedule of Values
	14.2 14.3	Application for Progress Payment
	14.3 14.4-14.7	CONTRACTOR's Warranty of Title
	14.4-14./	Progress Payments
	14.8-14.9	Substantial Completion
	14.0-14.9	Partial Utilization
	14.10	Final Inspection
	14.11	Final Application for Payment
	14.12	Final Payment and Acceptance 7
	14.15-14.14	Waiver of Claims
15.		N OF WORK AND
15.		ION 7
	15.1	OWNER May Suspend Work
	15.2-15.4	OWNER May Terminate
	15.5	CONTRACTOR May Stop Work or
	13.3	Terminate
16.	DISPLITE RE	ESOLUTION 7
17.		NEOUS 7
17.	17.1	Giving Notice
	17.2	Computation of Times
	17.3	Notice of Claim
	17.4	Cumulative Remedies
	17.5	Professional Fees and Court Costs
		Included

Article or Paragrap Numb	
Acceptance of	-1
Bonds and Insurance	
defective Work       10.4.1, 13.13, 13.1         final payment       9.12,14.1	
insurance	
other Work, by CONTRACTOR	
Substitutes and "Or-Equal" Items	1
Work by OWNER2.5, 6.30, 6.34	1
Access to the Lands, OWNER and CONTRACTOR	
responsibilities4.1	1
site, related work	
Work,	)
Acts or Omissions, Acts and Omissions CONTRACTOR	,
ENGINEER	
OWNER 6.20, 8.9	
Addendadefinition of (also see	
definition of Specifications)(1.6, 1.10, 6.19) 1.1	
Additional Property Insurances	7
Adjustments Contract Price or Contract	
Times	,
10.2-10.4, 11, 12, 14.8, 15.1	
progress schedule 6.6	5
Agreement	
definition of	
Allowances, Cash	
Amending Contract Documents	
Amendment, Written	
in general	
10.1, 10.4, 11.2, 12.1, 13.12.2, 14.7.2 Appeal,, OWNER or CONTRACTOR	:
intent to	5
Application for Payment	_
definition of	
ENGINEER's Responsibility	9
final payment	
progress payment	
review of	
Arbitration (Optional)	5
Asbestos	
claims pursuant thereto	
definition of	
OWNER responsibility for	
possible price and times change	2
Authorized Variations in Work	
Availability of Lands	
Before Starting Construction 2.5-2.8	
Biddefinition of	
(1.1, 1.10, 2.3, 3.3, 4.2.6.4, 6.13, 11.4.3, 11.9.1)	
Bidding Documentsdefinition of	
Bidding Requirementsdefinitions of	)
Bonds acceptance of	1
additional bonds 10.5, 11.4.5.9	9
Cost of the Work	
definition of1.	
delivery of	
final application for payment	
general	
Bonds and Insurancein general	
Builder's risk "all risk" policy form	2
Cancellation Provisions, Insurance	5
Cash Allowances 11.8	
Certificate of Substantial Completion1.38, 6.30.2.3	,

Article or Parkgraph Certificates of Inspection
Certificates of Inspection
5.14, 9.13.4, 14.12
Change in Contract Price
Cash Allowances
9.4, 9.5, 9.11, 10.2, 10.5, 11.2, 13.9,
13.13, 13.14, 15.1, 15.5
CONTRACTOR's fee
Cost of the Work general11.4-11.7
general 11.4-11./ Exclusions to 11.5
Cost Records 11.7
in general
Lump Sum Pricing
Notification of Surety
Scope of
Unit Price Work
Value of Work
Change in Contract Times
Claim for times adjustment
9.4, 9.5, 9.11, 10.2, 10.5, 12.1, 13.9, 13.13, 13.14, 14.7, 15.1, 15.5
Contractual time limits
Delays beyond CONTRACTOR's control12.3
Delays beyond OWNER's and CONTRACTOR's
control
Scope of change
Change Orders
Acceptance of Defective Work
Amending Contract Documents
Cash Allowances
Change of Contract Price
Changes in the Work
CONTRACTOR's fee11.6
Cost of the Work
Cost Records
emergencies 6.23
ENGINEER's responsibility
execution of10.4
Indemnification
OWNER may terminate
OWNER's Responsibility 8.6, 10.4
Physical Conditions
Subsurface and,
Underground Facilities
Scope of Change
Substitutes
Unit Price Work
value of Work, covered by
Notification of surety
OWNER's and CONTRACTOR's responsibilities
Right to an adjustment
Scope of change
Claims
against CONTRACTOR
against OWNER
Change of Contract Price9.4, 11.2

Article or Paragraph Number

Change of Contract Times	R
12.1, 14.8, 15.1, 15.5, 17.3	R
CONTRACTOR's Fee11.6	R
CONTRACTOR's liability5.4, 6.12, 6.16, 6.31	R
Cost of the Work	S
Decisions on Disputes 9.11, 9.12	Т
Dispute Resolution	Ü
Dispute Resolution Agreement	V
ENGINEER as initial interpreter	v
Lump Sum Pricing	•
Notice of	a
OWNER's	C
13.9, 13.13, 13.14, 17.3 OWNER's liability	D
	d
OWNER may refuse to make payment	Con
Professional Fees and Court Costs Included	a
request for formal decision on	C
Substitute items	C
Time Extension	d
Time requirements	CON
Unit Price Work	A
Value of	L
Waiver ofon Final Payment 14.14, 14.15	C
Work Change Directive10.2	C
written notice required9.11, 11.2, 12.1	C
Clarifications and Interpretations	d
Clean Site6.17	N
Codes of Technical Society, Organization or	p
Association	S
Commencement of Contract Times	
Communications	S
general	S
Hazard Communication Programs	CON
Completion	C
Final Application for Payment14.12	C
Final Inspection	D
Final Payment and Acceptance	D
, 1	D
Partial Utilization 14.10	D
Substantial Completion	
Waiver of Claims	
Computation of Times	
Concerning Subcontractors,	
Suppliers and Other6.8-6.11	
Conferences	_
initially acceptable schedules	E
preconstruction	E
Conflict, Error, Ambiguity, Discrepancy	
CONTRACTOR to Report	F
Construction, before starting by CONTRACTOR2.5-2.7	G
Construction Machinery, Equipment, Etc	H
Continuing the Work	Ir
Contract Documents	Ir
Amending	L
Bonds	L
Cash Allowances	L
Change of Contract Price	N
Change of Contract Times12	o
Changes in the Work	P
check and verify	P
Clarifications and Interpretations	P
definition of	P
ENGINEER as initial interpreter of	R
ENGINEER as OWNER's representative9.1	R
general3	
Insurance 5.3	
Intent 3.1-3.4	
minor variations in the Work	
OWNER's responsibility to furnish data	
OWNER's responsibility to make	,
prompt payment8.3, 14.4, 14.13	,
prompt payment	C
Record Documents 6.19	Ç
10.19 Necola Documents	

Reference to Standards	s and Specifications
	s3.3
Supplementing	
	NEER's Employment8.2
Unit Price Work	11.9
	3.6, 6.23, 6.27
· ·	EER's
Contract Price	
	11
	9.11
	1.11
Contract Times	
	12.1-12.4
	2.3 1.12
CONTRACTOR	1.12
Acceptance of Insuran	ce5.14
Limited Reliance on T	echnical Data Authorized4.2.2
	6.2, 6.9.2
	duling6.9.2
provide site access to	others
Safety and Protection .	4.3, 1.2, 6.16, 6.18, 6.21-6.23,
Surety und Treveluen	7.2, 13.2
Shop Drawing and Sar	nple Review Prior to Submittal6.25
1 1	ts4.5.2
CONTRACTOR's	
	11.1-11.2
Continuing Obligation	14.15
	9.6 13.10-13.14
Defective Work	9.6, 13.10-13.14 ve Work
Defective Work Duty to correct defecti	9.6, 13.10-13.14 ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work	ve Work13.11 caused by
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu	ve Work
Defective Work Duty to correct defecti Duty to Report- Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti Emergencies	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti Emergencies Equipment and Machin of the Work	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Facilitie Emergencies Equipment and Machii of the Work FeeCost-Plus	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Facilitie Emergencies Equipment and Machin of the Work FeeCost-Plus General Warranty and	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Facilitie Emergencies Equipment and Machin of the Work FeeCost-Plus General Warranty and Hazard Communication	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti Emergencies Equipment and Machin of the Work General Warranty and Hazard Communicatio Indemnification	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti Emergencies Equipment and Machin of the Work General Warranty and Hazard Communicatio Indemnification Inspection of the Work	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti Emergencies Equipment and Machin of the Work General Warranty and Hazard Communicatio Indemnification Inspection of the Work Labor, Materials and E	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti Emergencies Equipment and Machin of the Work General Warranty and Hazard Communicatio Indemnification Inspection of the Work Labor, Materials and E Laws and Regulations, Liability Insurance	ve Work
Defective Work Duty to correct defecting to Report-Changes in the Work Emergency Defects in Work of Changes in Work of Changes in Underground Facilities Energencies Equipment and Maching of the Work General Warranty and Hazard Communication Indemnification Inspection of the Work Labor, Materials and Elaws and Regulations, Liability Insurance Notice of Intent to Apprendiction During the Work Labor of Intent to Apprendiction Intention Intentio	real we Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti Emergencies Equipment and Machin of the Work General Warranty and Hazard Communicatio Indemnification Inspection of the Work Labor, Materials and L Laws and Regulations Liability Insurance Notice of Intent to App obligation to perform a	caused by
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti Emergencies Equipment and Machin of the Work General Warranty and Hazard Communicatio Indemnification Inspection of the Work Labor, Materials and E Laws and Regulations Liability Insurance Notice of Intent to App obligation to perform a Patent Fees and Royali	caused by
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti Emergencies Equipment and Machi of the Work General Warranty and Hazard Communicatio Indemnification Inspection of the Work Labor, Materials and E Laws and Regulations, Liability Insurance Notice of Intent to App obligation to perform a Patent Fees and Royalt Performance and Othe	caused by
Defective Work Duty to correct defecti Duty to Report- Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti Emergencies Equipment and Machin of the Work General Warranty and Hazard Communicatio Indemnification Inspection of the Work Labor, Materials and F Laws and Regulations, Liability Insurance Notice of Intent to App obligation to perform a Patent Fees and Royal Performance and Othe Permits, obtained and	caused by
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti Emergencies Equipment and Machin of the Work General Warranty and Hazard Communicatio Indemnification Inspection of the Work Labor, Materials and E Laws and Regulations, Liability Insurance Notice of Intent to App obligation to perform a Patent Fees and Royal Performance and Othe Permits, obtained and p Progress Schedule	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti Emergencies Equipment and Machin of the Work General Warranty and Hazard Communicatio Indemnification Inspection of the Work Labor, Materials and F Laws and Regulations, Liability Insurance Notice of Intent to App obligation to perform a Patent Fees and Royalt Performance and Othe Permits, obtained and Progress Schedule Request for formal dec Responsibilities	real work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti Emergencies Equipment and Machin of the Work General Warranty and Hazard Communicatio Indemnification Inspection of the Work Labor, Materials and F Laws and Regulations, Liability Insurance Notice of Intent to App obligation to perform a Patent Fees and Royalr Performance and Othe Permits, obtained and Progress Schedule Request for formal dec Responsibilities Changes in the Work	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Faciliti Emergencies Equipment and Machin of the Work General Warranty and Hazard Communication Inspection of the Work Labor, Materials and E Laws and Regulations. Liability Insurance Notice of Intent to Appobligation to perform a Patent Fees and Royalt Performance and Othe Permits, obtained and Progress Schedule Request for formal dec Responsibilities Changes in the Work Concerning Subcontr	ve Work
Defective Work Duty to correct defecting Duty to Report-Changes in the Work Emergency Defects in Work of Conffering conditions Discrepancy in Docuton Underground Facilities Equipment and Machin of the Work Equipment and Machin of the Work General Warranty and Hazard Communication Inspection of the Work Labor, Materials and Facilities and Regulations, Liability Insurance Notice of Intent to Appobligation to perform a Patent Fees and Royalt Performance and Othe Permits, obtained and Progress Schedule Request for formal dec Responsibilities-Changes in the Work Concerning Subcontrocontinuing the Work Emergency	ve Work
Defective Work Duty to correct defecting Duty to Report-Changes in the Work Emergency Defects in Work of Conffering conditions Discrepancy in Docutout Underground Facilities Equipment and Machin of the Work Equipment and Machin of the Work General Warranty and Hazard Communication Inspection of the Work Labor, Materials and Elaws and Regulations, Liability Insurance Notice of Intent to Appobligation to perform a Patent Fees and Royalt Performance and Othe Permits, obtained and Progress Schedule Request for formal de Responsibilities-Changes in the Work Concerning Subcontr Continuing the Work CONTRACTOR's ex	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Facilitic Emergencies Equipment and Machin of the Work General Warranty and Hazard Communication Indemnification Inspection of the Work Labor, Materials and F Laws and Regulations, Liability Insurance Notice of Intent to Appobligation to perform a Patent Fees and Royalt Performance and Othe Permits, obtained and Progress Schedule Request for formal dec Responsibilities Changes in the Work Concerning Subcontr Continuing the Work CONTRACTOR's Ge	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Facilitic Emergencies Equipment and Machin of the Work General Warranty and Hazard Communication Indemnification Inspection of the Work Labor, Materials and E Laws and Regulations. Liability Insurance Notice of Intent to Appobligation to perform a Patent Fees and Royali Performance and Othe Permits, obtained and Progress Schedule Request for formal dec Responsibilities Changes in the Work Concerning Subconnt Continuing the Work CONTRACTOR's ex CONTRACTOR's red	ve Work
Defective Work Duty to correct defecti Duty to Report Changes in the Work Emergency Defects in Work of C Differing conditions Discrepancy in Docu Underground Facilitic Emergencies Equipment and Machin of the Work General Warranty and Hazard Communication Indemnification Inspection of the Work Labor, Materials and E Laws and Regulations. Liability Insurance Notice of Intent to Appobligation to perform a Patent Fees and Royal Performance and Othe Permits, obtained and Progress Schedule Request for formal dec Responsibilities Changes in the Work Concerning Subcontr Continuing the Work CONTRACTOR's ex CONTRACTOR's res Sample Submittal	ve Work

ENGINEER's evaluation, Substitutes	Records11.7
or "Or-Equal" Items	Cost of the Work
For Acts and Omissions of Others	Bonds and insurance, additional
for deductible amounts, insurance	Cash Discounts
general	CONTRACTOR's Fee
Hazardous Communication Programs	Employee Expenses
Indemnification	Exclusions to
Labor, Materials and Equipment	General
Laws and Regulations	Losses and damages
Notice of variation from Contract Documents	Materials and equipment
Patent Fees and Royalties	Minor expenses
Permits	Payroll costs on changes
Progress Schedule 6.6	performed by Subcontractors
Record Documents 6.19	Records11.7
related Work performed prior to ENGINEER's	Rentals of construction equipment and machinery
approval of required submittals	Royalty payments, permits and license fees
safe structural loading	Site office and temporary facilities
Safety and Protection	Special Consultants, CONTRACTOR's11.4.4
Safety Representative	Supplemental11.4.5
Scheduling the Work	Taxes related to the Work
Shop Drawings and Samples	Tests and Inspection
Shop Drawings and Samples Review	Trade Discounts11.4.2
by ENGINEER6.26	Utilities, fuel and sanitary facilities11.4.5.7
Site Cleanliness	Work after regular hours11.4.1
Submittal Procedures	Covering Work
Substitute Construction Methods and	Cumulative Remedies
Procedures	Cutting, fitting and patching7.2
Substitutes and "Or-Equal" Items	Data, to be furnished by OWNER8.3
Superintendence	Daydefinition of17.2.2
Supervision6.1	Decisions on Disputes9.11, 9.12
Survival of Obligations	defectivedefinition of1.14
Taxes	defective Work
Tests and Inspections	Acceptance of
To Report	Correction or Removal of
Use of Premises	Correction Period
Review Prior to Shop Drawing or Sample Submittal	in general
Right to adjustment for changes in the Work	Observation by ENGINEER
right to claim	OWNER May Stop Work
13.9, 14.8, 15.1, 15.5, 17.3	Prompt Notice of Defects
Safety and Protection	Rejecting9.6
Safety Representative 6.21	Uncovering the Work
Shop Drawings and Samples Submittals	Definitions
Special Consultants	Delays
Substitute Construction Methods and Procedures	Delivery of Bonds
Substitutes and "Or-Equal" Items, Expense	Determinations for Unit Prices
Subcontractors, Suppliers and Others	Differing Subsurface or
	Physical Conditions
Taxes, Payment by	Notice of4.2.3
Warranties and guarantees 6.30, 6.5	ENGINEER's Review
Warranty of Title	Possible Contract Documents Change
Written Notice Required	Possible Price and Times Adjustments
CONTRACTOR stop Work or terminate	Discrepancies-Reporting and Resolving2.5, 3.3.2, 6.14.2
Reports of Differing Subsurface and Physical	Dispute Resolution
Conditions4.2.3	Agreement
Substantial Completion 14.8	Arbitration
ONTRACTORsother	general
ontractual Liability Insurance 5.4.10	Mediation
ontractual Times Limits	Dispute Resolution Agreement
pordination 12.2	Disputes, Decisions by ENGINEER9.11-9.12
CONTRACTOR's responsibility	Documents
opies of Documents	Copies of
prection Period	Record
prrection, Removal or Acceptance of	Reuse of
Defective Work	Drawingsdefinition of
in general	Easements
Acceptance of Defective Work	Effective date of Agreementdefinition of
Correction or Removal of Defective Work	Emergencies
Correction Period	ENGINEER
OWNER May Correct Defective Work	as initial interpreter on disputes
OWNER May Stop Work	definition of
ost	Limitations on authority and
of Tests and Inspections	responsibilities9.13

Replacement of	8.2	Special, required by ENGINEER	9.6
Resident Project Representative		Tests and Approval	
ENGINEER's Consultantdefinition of	1.18	Insurance	
NGINEER's	0.12	Acceptance of, by OWNER	5.14
authority and responsibility, limitations on Authorized Variations in the Work		Additional, required by changes in the Work	11.4.5
Change Orders, responsibility for		Before starting the Work	
Clarifications and Interpretations		Bonds andin general	
Decisions on Disputes		Cancellation Provisions	
defective Work, notice of		Certificates of2.7, 5, 5.3, 5.4.11, 5.4.13,	5.6.5, 5.8, 5.14
Evaluation of Substitute Items			9.13.4, 14.1
Liability		completed operations	5.4.1
Notice Work is Acceptable		CONTRACTOR's Liability	
Observations		CONTRACTOR's objection to coverage	
OWNER's Representative	9.1	Contractual Liability	5.4.1
Payments to the CONTRACTOR, Responsibility for	0.0 14	deductible amounts, CONTRACTOR's responsibility	5
Recommendation of Payment		Final Application for Payment	
Responsibilities	14.4, 14.13	Licensed Insurers	
Limitations on	9.11-9.13	Notice requirements, material	
Review of Reports on Differing Subsurface		changes	5.8, 10.5
and Physical Conditions	4.2.4	Option to Replace	
Shop Drawings and Samples, review		other special insurances	
responsibility	6.26	OWNER as fiduciary for insured	
Status During Construction	2.5	OWNER's Liability	
authorized variations in the Work		OWNER's Responsibility	
Clarifications and Interpretations		Partial Utilization, Property Insurance	
Decisions on Disputes		Property	
Determination on Unit Price		Receipt and Application of Insurance Proceeds	
ENGINEER's Regressibilities		Special Insurance	
ENGINEER's Responsibilities Limitations on ENGINEER's Authority and	9.1-9.12	Intent of Contract Documents	
Responsibilities	9.13	Interpretations and Clarifications	
OWNER's Representative		Investigations of physical conditions	
Project Representative		Labor, Materials and Equipment	
Rejecting Defective Work		Lands	
Shop Drawings, Change Orders and		and Easements	8.
Payments	9.7-9.9	Availability of	4.1, 8.
Visits to Site	9.2	Reports & Tests	8.
Unit Price Determinations	9.10	Laws and RegulationsLaws or Regulations	
Visits to Site		Bonds	
Written consent required		Changes in the Work	
Equipment, Labor, Materials and		Contract Documents	
Equipment rental, Cost of the Work		CONTRACTOR's Responsibilities	
Equivalent Materials and Equipment		Correction Period, defective Work	
Errors or omissions		Cost of the Work, taxes	
Explorations of physical conditions		general	
See, CONTRACTOR'sCosts-Plus		Indemnification	
Tield Order		Insurance	
definition of	1.19	Precedence	
issued by ENGINEER		Reference to	3.3.
Final Application for Payment	14.12	Safety and Protection	6.20, 13.
Final Inspection	14.11	Subcontractors, Suppliers and Others	6.8-6.1
inal Payment		Tests and Inspections	13
and Acceptance		Use of Premises	
Prior to, for cash allowances		Visits to Site	9.
General Provisions	17.3-17.4	Liability Insurance	-
General Requirements	1.20	CONTRACTOR'S	
definition of		OWNER's	
principal references to		Licensed Sureties and Insurers	
Giving NoticeGuarantee of Workby	1 / . 1	Application for Progress Payment	14.7
CONTRACTOR	6 30 14 12	Contractor's Warranty of Title	
Hazard Communication Programs		Final Application for Payment	
Hazardous Waste	0.22	definition of	
definition of	1.21	Waiver of Claims	
general		Limitations on ENGINEER's authority and	
OWNER's responsibility for		responsibilities	9.1
ndemnification		Limited Reliance by CONTRACTOR Authorized	
nitially Acceptable Schedules	2.9	Maintenance and Operating Manuals	
nspection		Final Application for Payment	14.12
Certificates of		Manuals (of others)	
Final	14.11	Precedence	3.3.3.

Reference to in Contract Documents
Materials and equipment
furnished by CONTRACTOR
not incorporated in Work
Materials or equipmentequivalent
Mediation (Optional)
Milestonesdefinition of
Miscellaneous
Computation of Times
Cumulative Remedies
Giving Notice
Notice of Claim
Professional Fees and Court Costs Included
Multi-prime contracts
Not Shown or Indicated
Notice of
Acceptability of Project
Award, definition of
Claim
Defects
Differing Subsurface or Physical Conditions
Giving
Tests and Inspections
Variation, Shop Drawing and Sample
Notice to Proceed
definition of
giving of
Notification to Surety
Observations, by ENGINEER
Occupancy of the Work
Omissions or acts by CONTRACTOR
"Open peril" policy form, Insurance
Option to Replace
"Or Equal" Items
Other work
Overtime Workprohibition of
OWNER
Acceptance of defective Work
appoint an ENGINEER8.2
as fiduciary
Availability of Lands, responsibility
definition of
definition of
data, furnish8.3
data, furnish
data, furnish
data, furnish8.3May Correct Defective Work13.14May refuse to make payment14.7May Stop the Work13.10
data, furnish
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       8.3, 13.10, 15.1-15.4         terminate       8.3, 13.10, 15.1-15.4
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       13.10         terminate       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       terminate       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       terminate       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       13.10         terminate       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10         OWNER's
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       terminate       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10         OWNER's         Acceptance of the Work       6.30.2.5
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       13.10         terminate       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10         OWNER's       Acceptance of the Work       6.30.2.5         Change Orders, obligation to       6.30.2.5
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       13.10         terminate       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10         OWNER's       Acceptance of the Work       6.30.2.5         Change Orders, obligation to execute       8.6, 10.4
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10         OWNER's       Acceptance of the Work       6.30.2.5         Change Orders, obligation to execute       8.6, 10.4         Communications       8.1
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10         OWNER's       Acceptance of the Work       6.30.2.5         Change Orders, obligation to       execute       8.6, 10.4         Communications       8.1         Coordination of the Work       7.4
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10         OWNER's       Acceptance of the Work       6.30.2.5         Change Orders, obligation to execute       8.6, 10.4         Communications       8.1         Coordination of the Work       7.4         Disputes, request for decision       9.11
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10         OWNER's       Acceptance of the Work       6.30.2.5         Change Orders, obligation to execute       8.6, 10.4         Communications       8.1         Coordination of the Work       7.4         Disputes, request for decision       9.11         Inspections, tests and approvals       8.7, 13.4
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10         OWNER's       Acceptance of the Work       6.30.2.5         Change Orders, obligation to execute       8.6, 10.4         Communications       8.1         Coordination of the Work       7.4         Disputes, request for decision       9.11         Inspections, tests and approvals       8.7, 13.4         Liability Insurance       5.5
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       terminate       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10         OWNER's       Acceptance of the Work       6.30.2.5         Change Orders, obligation to       execute       8.6, 10.4         Communications       8.1         Coordination of the Work       7.4         Disputes, request for decision       9.11         Inspections, tests and approvals       8.7, 13.4         Liability Insurance       5.5         Notice of Defects       13.1
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10         OWNER's       Acceptance of the Work       6.30.2.5         Change Orders, obligation to       8.6, 10.4         Communications       8.1         Coordination of the Work       7.4         Disputes, request for decision       9.11         Inspections, tests and approvals       8.7, 13.4         Liability Insurance       5.5         Notice of Defects       13.1         Representative During Construction,
data, furnish         8.3           May Correct Defective Work         13.14           May refuse to make payment         14.7           May Stop the Work         13.10           may suspend work,         terminate           terminate         8.3, 13.10, 15.1-15.4           Payment, make prompt         8.3, 14.4, 14.13           performance of other Work         7.1           permits and licenses, requirements         6.13           purchased insurance requirements         5.6-5.10           OWNER's         Acceptance of the Work         6.30.2.5           Change Orders, obligation to         execute         8.6, 10.4           Communications         8.1         Coordination of the Work         7.4           Disputes, request for decision         9.11         Inspections, tests and approvals         8.7, 13.4           Liability Insurance         5.5         Notice of Defects         13.1           Representative During Construction,         ENGINEER's Status         9.1
data, furnish         8.3           May Correct Defective Work         13.14           May refuse to make payment         14.7           May Stop the Work         13.10           may suspend work,         terminate           terminate         8.3, 13.10, 15.1-15.4           Payment, make prompt         8.3, 14.4, 14.13           performance of other Work         7.1           permits and licenses, requirements         6.613           purchased insurance requirements         5.6-5.10           OWNER's         Acceptance of the Work         6.30.2.5           Change Orders, obligation to         execute         8.6, 10.4           Communications         8.1         Coordination of the Work         7.4           Disputes, request for decision         9.11         Inspections, tests and approvals         8.7, 13.4           Liability Insurance         5.5         Notice of Defects         13.1           Representative During Construction,         ENGINEER's Status         9.1           Responsibilities
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       terminate       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.613         purchased insurance requirements       5.6-5.10         OWNER's       Acceptance of the Work       6.30.2.5         Change Orders, obligation to       8.6, 10.4         Communications       8.1         Coordination of the Work       7.4         Disputes, request for decision       9.11         Inspections, tests and approvals       8.7, 13.4         Liability Insurance       5.5         Notice of Defects       13.1         Representative During Construction,       ENGINEER's Status       9.1         Responsibilities       Asbestos, PCB's, Petroleum, Hazardous
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       13.10         terminate       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10         OWNER's       Acceptance of the Work       6.30.2.5         Change Orders, obligation to       execute       8.6, 10.4         Communications       8.1         Coordination of the Work       7.4         Disputes, request for decision       9.11         Inspections, tests and approvals       8.7, 13.4         Liability Insurance       5.5         Notice of Defects       13.1         Representative During Construction,       ENGINEER's Status       9.1         Responsibilities       Asbestos, PCB's, Petroleum, Hazardous       Waste on Radioactive Material       8.10
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       13.10         terminate       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10         OWNER's       Acceptance of the Work       6.30.2.5         Change Orders, obligation to       execute       8.6, 10.4         Communications       8.1       8.1         Coordination of the Work       7.4       9.1         Inspections, tests and approvals       8.7, 13.4         Liability Insurance       5.5         Notice of Defects       13.1         Representative During Construction,       ENGINEER's Status       9.1         Responsibilities       Asbestos, PCB's, Petroleum, Hazardous       8.6         Waste on Radioactive Material       8.6         Change Orders       8.6
data, furnish       8.3         May Correct Defective Work       13.14         May refuse to make payment       14.7         May Stop the Work       13.10         may suspend work,       13.10         terminate       8.3, 13.10, 15.1-15.4         Payment, make prompt       8.3, 14.4, 14.13         performance of other Work       7.1         permits and licenses, requirements       6.13         purchased insurance requirements       5.6-5.10         OWNER's       Acceptance of the Work       6.30.2.5         Change Orders, obligation to       execute       8.6, 10.4         Communications       8.1       Coordination of the Work       7.4         Disputes, request for decision       9.11       Inspections, tests and approvals       8.7, 13.4         Liability Insurance       5.5       Notice of Defects       13.1         Representative During Construction,       ENGINEER's Status       9.1         Responsibilities       Asbestos, PCB's, Petroleum, Hazardous       9.1         Waste on Radioactive Material       8.6         Change Orders       8.6         Changes in the Work       10.1
data, furnish         8.3           May Correct Defective Work         13.14           May refuse to make payment         14.7           May Stop the Work         13.10           may suspend work,         13.10           terminate         8.3, 13.10, 15.1-15.4           Payment, make prompt         8.3, 14.4, 14.13           performance of other Work         7.1           permits and licenses, requirements         6.13           purchased insurance requirements         5.6-5.10           OWNER's         Acceptance of the Work         6.30.2.5           Change Orders, obligation to         execute         8.6, 10.4           Communications         8.1         Coordination of the Work         7.4           Disputes, request for decision         9.11         Inspections, tests and approvals         8.7, 13.4           Liability Insurance         5.5         Notice of Defects         13.1           Representative During Construction,         ENGINEER's Status         9.1           Responsibilities         Asbestos, PCB's, Petroleum, Hazardous         8.6           Waste on Radioactive Material         8.6           Change Orders         8.6           Changes in the Work         10.1           communications
data, furnish         8.3           May Correct Defective Work         13.14           May refuse to make payment         14.7           May Stop the Work         13.10           may suspend work,         terminate           terminate         8.3, 13.10, 15.1-15.4           Payment, make prompt         8.3, 14.4, 14.13           performance of other Work         7.1           permits and licenses, requirements         6.13           purchased insurance requirements         5.6-5.10           OWNER's         Acceptance of the Work         6.30.2.5           Change Orders, obligation to         execute         8.6, 10.4           Communications         8.1         Coordination of the Work         7.4           Disputes, request for decision         9.11         Inspections, tests and approvals         8.7, 13.4           Liability Insurance         5.5         Notice of Defects         13.1           Representative During Construction,         ENGINEER's Status         9.1           Responsibilities         Asbestos, PCB's, Petroleum, Hazardous         8.6           Waste on Radioactive Material         8.10           Change Orders         8.6           Changes in the Work         10.1           communications
data, furnish         8.3           May Correct Defective Work         13.14           May refuse to make payment         14.7           May Stop the Work         13.10           may suspend work,         13.10           terminate         8.3, 13.10, 15.1-15.4           Payment, make prompt         8.3, 14.4, 14.13           performance of other Work         7.1           permits and licenses, requirements         6.13           purchased insurance requirements         5.6-5.10           OWNER's         Acceptance of the Work         6.30.2.5           Change Orders, obligation to         8.6, 10.4           Communications         8.1           Coordination of the Work         7.4           Disputes, request for decision         9.11           Inspections, tests and approvals         8.7, 13.4           Liability Insurance         5.5           Notice of Defects         13.1           Representative During Construction,         ENGINEER's Status         9.1           Responsibilities         Asbestos, PCB's, Petroleum, Hazardous           Waste on Radioactive Material         8.6           Changes in the Work         10.1           communications         8.6           Changes
data, furnish         8.3           May Correct Defective Work         13.14           May refuse to make payment         14.7           May Stop the Work         13.10           may suspend work,         terminate           terminate         8.3, 13.10, 15.1-15.4           Payment, make prompt         8.3, 14.4, 14.13           performance of other Work         7.1           permits and licenses, requirements         6.13           purchased insurance requirements         5.6-5.10           OWNER's         Acceptance of the Work         6.30.2.5           Change Orders, obligation to         execute         8.6, 10.4           Communications         8.1         Coordination of the Work         7.4           Disputes, request for decision         9.11         Inspections, tests and approvals         8.7, 13.4           Liability Insurance         5.5         Notice of Defects         13.1           Representative During Construction,         ENGINEER's Status         9.1           Responsibilities         Asbestos, PCB's, Petroleum, Hazardous         8.6           Waste on Radioactive Material         8.10           Change Orders         8.6           Changes in the Work         10.1           communications

lands and easements	
prompt payment by	
replacement of ENGINEER	8.2
reports and tests	
stop or suspend Work	8 8 15 2
separate representative at site	
independent testing	
use or occupancy of the Work	
written consent or approval required9.	1, 6.3, 11.4
written notice required7.1, 9.4, 9.11, 11.2, 11.9	, 14.7, 15.4
PCBs	
definition of	
general	
OWNER's responsibility for	8.10
Partial Utilization	1.20
definition ofgeneral	
Property Insurance	
Patent Fees and Royalties	6.12
Payment Bonds	
Payments, Recommendation of	
Payments to CONTRACTOR and Completion	
Application for Progress Payments	14.2
CONTRACTOR's Warranty of Title	
Final Application for Payment	14.12
Final Inspection	
Final Payment and Acceptance	
general Partial Utilization	
Retainage	
Review of Applications for Progress	17.2
Payments	14.4-14.7
prompt payment	
Schedule of Values	
Substantial Completion	14.8-14.9
Waiver of Claims	14.15
when payments due	
withholding payment	
Performance Bonds	
Permits Petroleum	0.13
definition of	1.30
general	
OWNER's responsibility for	
Physical Conditions	
Drawings of, in or relating to	4.2.1.2
ENGINEER's review	4.2.4
existing structures	4.2.2
general	
Subsurface and,	
Underground Facilities	4.3
Possible Contract Documents Change	4.2.5
Possible Price and Times Adjustments	
Notice of Differing Subsurface or,	
Subsurface and	
Subsurface Conditions	
Technical Data, Limited Reliance by	
CONTRACTOR Authorized	4.2.2
Underground Facilities	
general	
Not Shown or Indicated	
Protection of	4.3. 6.20
Shown or Indicated	
Technical Data	4.3.1
Preconstruction Conterence	4.3.1 4.2.2
Preconstruction Conference	4.3.1 4.2.2 2.8
Preliminary Matters	4.3.1 4.2.2 2.8
Preliminary MattersPreliminary Schedules	4.3.1 4.2.2 2.8 2 2.6
Preliminary Matters Preliminary Schedules Premises, Use of Price, Change of Contract	4.3.1 4.2.2 2.8 2 2.6 6.16-6.18
Preliminary Matters Preliminary Schedules Premises, Use of Price, Change of Contract Price, Contract-definition of	4.3.1 4.2.2 2.8 2 2.6 6.16-6.18 11
Preliminary Matters	43.1 42.2 28 26 6.16-6.18 11 1.11

Progress schedule, CONTRACTOR's `	6.29, 10.4, 15.2.1
Projectdefinition of Project Representative	1.31
ENGINEER's Status During Construction	9.3
Project Representative, Residentdefinition of	1.33
prompt payment by OWNER	8.3
Property Insurance Additional	5.7
general	5.6-5.10
Partial Utilization	5.15, 14.10.2
receipt and application of proceeds	5.12-5.13
Protection, Safety and	6.20-6.21, 13.2
Punch list	14.11
definition	1.32
general	
OWNER's responsibility for	
Record Documents	6.19, 14.12
Records, procedures for maintaining	
Reference Points	4.4
of Technical Societies	3.3
Regulations, Laws and (or)	
Related Work	
at Site	7.1-7.3
Performed prior to Shop Drawings and Samples submittals review	6.28
Remedies, cumulative	17.4, 17.5
Removal or Correction of Defective Work	12 11
rental agreements, OWNER approval	13.11
required	11.4.5.3
replacement of ENGINEER, by OWNER	
Reports	
and Drawings	
and Tests, OWNER's responsibility	8.4
definition of	
provision for	9.3
Responsibilities	
CONTRACTOR's-in general	
ENGINEER's-in general Limitations on	
OWNER's-in general	8
Retainage	
Reuse of Documents	3./
and Samples Prior to Submittal	6.25
Review of Applications for Progress Payments	14 4 14 7
Right to an adjustment	10.2
Rights of Way	4.1
Royalties, Patent Fees and	6.12
Safety	
and Protection4.3.2, 6.16, 6.18, 6	
generalRepresentative, CONTRACTOR's	
Samples	
definition of general	
Review by CONTRACTOR	6.25
Review by ENGINEER	6.26, 6.27
related Worksubmittal of	
submittal procedures	6.25
Schedule of progress2.6, 2.8-2.9, 6.6,	, 6.29, 10.4, 15.2.1

Schedule of Shop Drawing and Sample	
Submittals	-2.9, 6.24-6.28
Schedule of Values	6, 2.8-2.9, 14.1
Schedules Adherence to	1521
Adjusting	13.2.1
Change of Contract Times	10.4
Initially Acceptable	2 8-2 0
Preliminary	2.6
Scope of Changes	
Subsurface Conditions	
Shop Drawings	
and Samples, general	6.24-6.28
Change Orders & Applications for	
Payments, and	9.7-9.9
definition of	1.35
ENGINEER's approval of	3.6.2
ENGINEER's responsibility	
for review	
related Work	
review procedures	
submittal required	6.24.1
Submittal Procedures	6.23
use to approve substitutions	
Shown or Indicated	
Site Cleanliness	
Site, Visits to	0.1
by ENGINEER	9.2 13.3
by others	
"Special causes of loss" policy form, insurance	
Specifications	
definition of	1.3
of Technical Societies, reference to	
precedence	
Standards and Specifications of Technical	
Societies	3.3
Starting Construction, Before	2.5-2.8
Starting the Work	2.5-2.8 15.5 3.8, 13.10, 15.1
Starting the Work	2.5-2.8 15.5 3.8, 13.10, 15.1 4.1, 7.2
Starting the Work	2.5-2.8 15.5 3.8, 13.10, 15.1 4.1, 7.2
Starting the Work	
Starting the Work	2.5-2.8 15.5 3.8, 13.10, 15.1 4.1, 7.2 6.18
Starting the Work	
Starting the Work	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights	
Starting the Work	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights	
Starting the Work	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractorsin general Subcontractsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractorsin general Subcontractsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractorsin general Subcontractsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values Schedule of Shop Drawings and	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractorsin general Subcontractsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values Schedule of Shop Drawings and Samples Submissions	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractorsin general Subcontractsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values Schedule of Shop Drawings and Samples Submissions Shop Drawings	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractsrequired provisions Subcontractsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values Schedule of Shop Drawings and Samples Submissions Shop Drawings Substantial Completion	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractorsin general Subcontractsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values Schedule of Shop Drawings and Samples Submissions Shop Drawings Substantial Completion certification of  6.30	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractorsin general Subcontractorsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values Schedule of Shop Drawings and Samples Submissions Shop Drawings Substantial Completion certification of definition of . 6.30 definition of	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractorsin general Subcontractsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values Schedule of Shop Drawings and Samples Submissions Shop Drawings Substantial Completion certification of definition of Substitute Construction Methods or Procedures	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractsrin general Subcontractsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values Schedule of Shop Drawings and Samples Submissions Shop Drawings Substantial Completion certification of definition of Substitute Construction Methods or Procedures Substitute Substitute Substitutes and "Or-Equal" Items	2.5-2.8
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractorsin general Subcontractsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values Schedule of Shop Drawings and Samples Submissions Shop Drawings Substantial Completion certification of definition of Substitute Construction Methods or Procedures Substitutes and "Or-Equal" Items CONTRACTOR's Expense	2.5-2.8
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractsin general Subcontractsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values Schedule of Shop Drawings and Samples Submissions Shop Drawings Substantial Completion certification of definition of Substitute Construction Methods or Procedures Substitutes and "Or-Equal" Items CONTRACTOR's Expense ENGINEER's Evaluation	2.5-2.8
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractorsin general Subcontractsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values Schedule of Shop Drawings and Samples Submissions Shop Drawings Substantial Completion certification of definition of Substitute Construction Methods or Procedures Substitutes and "Or-Equal" Items CONTRACTOR's Expense ENGINEER's Evaluation "Or-Equal"	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractsin general Subcontractsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values Schedule of Shop Drawings and Samples Submissions Shop Drawings Substantial Completion certification of definition of Substitute Construction Methods or Procedures CONTRACTOR's Expense ENGINEER's Evaluation "Or-Equal" Substitute Construction Methods of Procedures "Or-Equal" Substitute Construction Methods of Procedures	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractorsin general Subcontractorsin general Subcontractorsequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values Schedule of Shop Drawings and Samples Submissions Shop Drawings Substantial Completion certification of definition of Substitute Construction Methods or Procedures Substitutes and "Or-Equal" Items CONTRACTOR's Expense ENGINEER's Evaluation "Or-Equal" Substitute Construction Methods of Procedures Substitute Construction Methods of Procedures Substitute Items Substitute Items Subsurface and Physical Conditions	
Starting the Work Stop or Suspend Work by CONTRACTOR by OWNER Storage of materials and equipment Structural Loading, Safety Subcontractor Concerning definition of delays waiver of rights Subcontractorsin general Subcontractsrequired provisions Submittals Applications for Payment Maintenance and Operation Manuals Procedures Progress Schedules Samples Schedule of Values Schedule of Shop Drawings and Samples Submissions Shop Drawings Substantial Completion certification of definition of Substitute Construction Methods or Procedures ENGINEER's Evaluation "Or-Equal" Substitute Construction Methods of Procedures ENGINEER's Evaluation "Or-Equal" Substitute Construction Methods of Procedures Substitute Construction Methods of Procedures	

generalLimited Reliance by CONTRACTOR	4.2	2
Authorized	4.2.2	2
Notice of Differing Subsurface or Physical Conditions	4.2.	,
Physical Conditions Physical Conditions		
Possible Contract Documents Change		
Possible Price and Times Adjustments	4.2.0	6
Reports and Drawings	4.2.	1
Subsurface and	4.2 4 2 1 1	2
Technical Data		
Supervision		
CONTRACTOR's responsibility	6.	1
OWNER shall not supervise	8.9	)
ENGINEER shall not supervise 9.2 Superintendence		
Superintendent, CONTRACTOR's resident	6.2	2
Supplementary costs		
Supplementary Conditions		_
definition of		
5.3, 5.4, 5.6-5.9, 5.11 6.8, 6.13, 7.4, 8.11, 9	4.3, 3.1 9.3. 9.1	n
Supplementing Contract Documents		
Supplier		
definition of		
principal references to		
Waiver of Rights		
Surety		
consent to final payment	2, 14.14	1
ENGINEER has no duty to		
qualification of		
Survival of Obligations		
Suspend Work, OWNER May	10, 15.	1
Suspension of Work and Termination	1	5
	15	5
Terminate		
TerminateOWNER May Suspend WorkOWNER May Terminate	15.1 5.2-15.4	1
Terminate	15.1 5.2-15.4	1
Terminate	15.1 5.2-15.4 6.1	1 1 5
Terminate	15.1 5.2-15.4 6.1; 4.2.2	1 1 5 2
Terminate	15.1 5.2-15.4 6.1: 4.2.2 4.2.0	1 1 5 5
Terminate	15.1 5.2-15.4 6.15 4.2.2 4.2.0	1 1 5 2 5 3
Terminate	15.1 5.2-15.4 6.15 4.2.2 4.2.0	1 1 5 2 5 3
Terminate	15.1 5.2-15.4 6.12 4.2.2 4.2.6	1 4 5 2 5 1
Terminate	15.1 5.2-15.4 6.1: 4.2.2 4.2.6 4.2.6 4.2.6	1 4 5 2 6 3 1
Terminate	15 5.2-15.4 6.15 4.2.2 4.2.6 4.2.6 4.5 15.	1 4 5 2 6 3 1 .5 .4 2
Terminate	15.: 5.2-15.4 6.15 4.2.2 4.2.6 4.2.6 15. 5.1-15 8.2	1 4 5 2 5 3 1 .5 .4 2 5
Terminate  OWNER May Suspend Work  OWNER May Terminate  Taxes-Payment by CONTRACTOR  Technical Data  Limited Reliance by CONTRACTOR  Possible Price and Times Adjustments  Reports of Differing Subsurface and  Physical Conditions  Temporary construction facilities  Termination  by CONTRACTOR  by OWNER  of ENGINEER's employment  Suspension of Work-in general  Terms and Adjectives	15.: 5.2-15.4 6.15 4.2.2 4.2.6 4.2.6 15. 5.1-15 8.2	1 4 5 2 5 3 1 .5 .4 2 5
Terminate	15.5.2-15.4 5.2-15.4 6.13 4.2.6 4.2.6 4.2.6 4.2.6 15.5.1-15 8.2 12	1 1 1 5 2 5 3 1 .5 4 5 4
Terminate	15.5.2-15.4 4.2.2 4.2.6 4.2.6 4.2.6 4.3.6 15.5.1-15 8.2 13.2 13.2	1 1 1 5 2 6 3 1 1 5 4 2 5 4 2 5 5
Terminate	15.5.2-15.4 6.12 4.2.2 4.2.6 4.2.6 4.2.6 15.5.1-15 8.2 13.3 13.3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Terminate	15.5.2-15.4 4.2.2 4.2.2 4.2.6 4.2.6 4.2.6 4.2.6 15.5.1-15 8.2 13.3 13.3 13.3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Terminate	15.5.2-15.4	1 1 1 5 2 5 1 1 5 4 7 5 4 7 7
Terminate	15.5.2-15.4 	1 4 5 2 5 4 1 .5 .4 7 5 1 D
Terminate	15.5.2-15.4	1 4 5 2 6 3 1 5 4 2 5 4 7 5 1 0 4
Terminate	15.5.2-15.4 	1 4 5 2 5 3 1 .5 .4 2 5 .4 7 5 1 0 .4 6
Terminate OWNER May Suspend Work OWNER May Terminate 15 Taxes-Payment by CONTRACTOR Technical Data Limited Reliance by CONTRACTOR Possible Price and Times Adjustments Reports of Differing Subsurface and Physical Conditions Temporary construction facilities Termination by CONTRACTOR by OWNER 50 TengineEr's employment Suspension of Work-in general Terms and Adjectives Tests and Inspections Access to the Work, by others CONTRACTOR's responsibilities cost of covering Work prior to Laws and Regulations (or) Notice of Defects OWNER May Stop Work OWNER's independent testing special, required by ENGINEER timely notice required	15.5.2-15.4 	1 4 5 2 5 3 1 .5 .4 2 5 .4 7 5 1 0 .4 6
Terminate OWNER May Suspend Work OWNER May Terminate OWNER May Terminate Taxes-Payment by CONTRACTOR Technical Data Limited Reliance by CONTRACTOR Possible Price and Times Adjustments Reports of Differing Subsurface and Physical Conditions Temporary construction facilities Termination by CONTRACTOR by OWNER Suspension of Work-in general Terms and Adjectives Tests and Inspections Access to the Work, by others CONTRACTOR's responsibilities cost of covering Work prior to Laws and Regulations (or) Notice of Defects OWNER May Stop Work OWNER's independent testing special, required by ENGINEER's	15.5.2-15.4	1 4 5 2 6 1 1 5 4 2 5 4 7 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Terminate	15.5.2-15.4	1 4 5 2 5 4 2 5 4 7 5 1 0 4 6 4 9
Terminate OWNER May Suspend Work OWNER May Terminate OWNER May Terminate Taxes-Payment by CONTRACTOR Technical Data- Limited Reliance by CONTRACTOR Possible Price and Times Adjustments Reports of Differing Subsurface and Physical Conditions Temporary construction facilities Termination- by CONTRACTOR by OWNER Suspension of Work-in general Terms and Adjectives Tests and Inspections- Access to the Work, by others CONTRACTOR's responsibilities cost of covering Work prior to Laws and Regulations (or) Notice of Defects OWNER May Stop Work OWNER's independent testing special, required by ENGINEER timely notice required Uncovering the Work, at ENGINEER's request Times- Adjusting	15.5.2-15.4	1 4 5 2 6 3 1 .5.4 2 5 4 2 5 4 7 5 1 0 .4.6 4 9 6
Terminate	15.5.2-15.4	1 4 5 2 5 3 1 .5.4 2 5 .4 7 5 1 0 .4 6 4 9 6 2
Terminate	15.5.2-15.4	1 4 5 2 6 3 1 .5 .4 2 .5 .4 7 5 1 0 .4 6 4 9 6 2 6
Terminate	15.5.2-15.4	1 4 5 2 6 3 1 .5.4 2 5 4 7 5 1 0 .4 6 4 9 6 2 6 2

Milestones
Requirements
appeals
clarifications, claims and
disputes
preconstruction conference
schedules
starting the Work
Title, Warranty of
Uncovering Work
Underground Facilities, Physical Conditions
definition of1.41
Not Shown or Indicated4.3.2
protection of4.3, 6.20
Shown or Indicated4.3.1
Unit Price Work
claims
definitions of
general
Unit Prices general
Determination for
Use of Premises
Utility owners
Utilization, Partial
Value of the Work
Values, Schedule of
Variations in WorkMinor
Variations in WorkMinor Authorized
Visits of Siteby ENGINEER9.2
Waiver of Claimson Final
Payment
Waiver of Rights by insured parties5.11, 6.11
Warranty and Guarantee, Generalby CONTRACTOR
CONTRACTOR
Warranty of Title, CONTRACTOR's14.3
Warranty of Title, CONTRACTOR's14.3 Work
Warranty of Title, CONTRACTOR's
Warranty of Title, CONTRACTOR's       14.3         Work       Access to       13.2         by others
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         Access to       13.2         by others       7         Changes in the       10
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       6.29         or Terminate       15.5         Coordination of       7.4
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       7.1-7.3
Warranty of Title, CONTRACTOR's       14.3         Work       Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       7.1-7.3         Starting the       2.4
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       7.1-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5
Warranty of Title, CONTRACTOR's       14.3         Work       Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       7.1-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by OWNER       15.1-15.4
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       7.1-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by OWNER       15.1-15.4         Variation and deviation authorized,
Warranty of Title, CONTRACTOR's       14.3         Work       Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       7.1-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by OWNER       15.1-15.4
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         or Terminate       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       7.1-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by OWNER       15.1-15.4         Variation and deviation authorized,       minor       3.6         Work Change Directive
Warranty of Title, CONTRACTOR's       14.3         Work       13.2         Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         or Terminate       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       7.1-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by OWNER       15.1-15.4         Variation and deviation authorized,       minor       3.6         Work Change Directive       claims pursuant to       10.2         definition of       1.44
Warranty of Title, CONTRACTOR's       14.3         Work       Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       7.1-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by OWNER       15.1-15.4         Variation and deviation authorized,       minor         Mork Change Directive       claims pursuant to       10.2         definition of       1.44         principal references to       3.5.3, 10-1-10.2
Warranty of Title, CONTRACTOR's       14.3         Work       Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       7.1-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by OWNER       15.1-15.4         Variation and deviation authorized,       15.1-15.4         Work Change Directive       claims pursuant to       10.2         definition of       1.44         principal references to       3.5.3, 10-1-10.2         Written Amendment       3.5.3, 10-1-10.2
Warranty of Title, CONTRACTOR's       14.3         Work       Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       7.1-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by OWNER       15.1-15.4         Variation and deviation authorized,       15.1-15.4         Work Change Directive       claims pursuant to       10.2         definition of       1.44         principal references to       3.5.3, 10-1-10.2         Written Amendment       definition of       1.45
Warranty of Title, CONTRACTOR's       14.3         Work       Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10, 15.1         Related, Work at Site       7.1-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by OWNER       15.1-15.4         Variation and deviation authorized,       15.1-15.4         Work Change Directive       claims pursuant to       10.2         definition of       1.44         principal references to       3.5.3, 10-1-10.2         Written Amendment       definition of       1.45         principal references to       1.10, 3.5, 5.10, 5.12, 6.6.2, 6.8.2,
Warranty of Title, CONTRACTOR's       14.3         Work       Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10, 15.1         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       7.1-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by OWNER       15.1-15.4         Variation and deviation authorized,       15.1-15.4         Work Change Directive       claims pursuant to       10.2         definition of       1.44         principal references to       3.5.3, 10-1-10.2         Written Amendment       definition of       1.45         principal references to       1.10, 3.5, 5.10, 5.12, 6.62, 6.8.2,         6.19, 10.1, 10.4, 11.2, 12.1, 13.12.2, 14.7.2
Warranty of Title, CONTRACTOR's       14.3         Work       Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Ocordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10, 15.1         Related, Work at Site       71.7-73         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by CONTRACTOR       15.5         Variation and deviation authorized,       15.1-15.4         Wariation and deviation authorized,       15.1-15.4         Work Change Directive       claims pursuant to       10.2         definition of       1.44         principal references to       3.5.3, 10-1-10.2         Written Amendment       definition of       1.45         principal references to       1.10, 3.5, 5.10, 5.12, 6.6.2, 6.8.2,         6.19, 10.1, 10.4, 11.2, 12.1, 13.12.2, 14.7.2         Written Clarifications and
Warranty of Title, CONTRACTOR's       14.3         Work       Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       1.43         neglected by CONTRACTOR       13.14         other Work       7         OWNER May Stop Work       13.10, 15.1         Related, Work at Site       7.1-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by OWNER       15.1-15.4         Variation and deviation authorized,       15.1-15.4         Work Change Directive       claims pursuant to       10.2         definition of       1.44         principal references to       3.5.3, 10-1-10.2         Written Amendment       definition of       1.45         principal references to       1.10, 3.5, 5.10, 5.12, 6.6.2, 6.8.2,         6.19, 10.1, 10.4, 11.2, 12.1, 13.12.2, 14.7.2         Written Clarifications and       1nterpretations       3.6.3, 9.4, 9.11
Warranty of Title, CONTRACTOR's       14.3         Work       Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       71-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by OWNER       15.1-15.4         Variation and deviation authorized,       15.1-15.4         Work Change Directive-claims pursuant to       10.2         definition of       1.44         principal references to       3.5.3, 10-1-10.2         Written Amendment-definition of       1.45         principal references to       1.10, 3.5, 5.10, 5.12, 6.6.2, 6.8.2, 6.19, 10.1, 10.4, 11.2, 12.1, 13.12.2, 14.7.2         Written Clarifications and Interpretations       3.6.3, 9.4, 9.11         Written Notice Required
Warranty of Title, CONTRACTOR's       14.3         Work       Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       7.1-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by OWNER       15.1-15.4         Variation and deviation authorized,       15.1-15.4         Work Change Directive-       10.2         claims pursuant to       10.2         definition of       1.44         principal references to       3.5.3, 10-1-10.2         Written Amendment-       definition of       1.45         principal references to       1.10, 3.5, 5.10, 5.12, 6.6.2, 6.8.2,         6.19, 10.1, 10.4, 11.2, 12.1, 13.12.2, 14.7.2         Written Clarifications and       1nterpretations       3.6.3, 9.4, 9.11         Written Notice Re
Warranty of Title, CONTRACTOR's       14.3         Work       Access to       13.2         by others       7         Changes in the       10         Continuing the,       6.29         CONTRACTOR May Stop Work       15.5         Coordination of       7.4         Costs of the       11.4-11.5         definition of       13.14         other Work       7         OWNER May Stop Work       13.10         OWNER May Suspend Work       13.10, 15.1         Related, Work at Site       71-7.3         Starting the       2.4         Stopping by CONTRACTOR       15.5         Stopping by OWNER       15.1-15.4         Variation and deviation authorized,       15.1-15.4         Work Change Directive-claims pursuant to       10.2         definition of       1.44         principal references to       3.5.3, 10-1-10.2         Written Amendment-definition of       1.45         principal references to       1.10, 3.5, 5.10, 5.12, 6.6.2, 6.8.2, 6.19, 10.1, 10.4, 11.2, 12.1, 13.12.2, 14.7.2         Written Clarifications and Interpretations       3.6.3, 9.4, 9.11         Written Notice Required

#### **GENERAL CONDITIONS**

#### ARTICLE 1--DEFINITIONS

Wherever used in these General Conditions or in the other Contract

Documents the following terms have the meanings indicated which are applicable to both the singular and plural thereof:

- 1.1. Addenda--Written or graphic instruments issued prior to the opening of Bids which clarify, correct or change the Bidding Requirements or the Contract Documents.
- 1.2. Agreement--The written contract between OWNER and CONTRACTOR covering the Work to be performed; other Contract Documents are attached to the Agreement and made a part thereof as provided therein.
- 1.3. Application for Payment--The form accepted by ENGINEER which is to be used by CONTRACTOR in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Contract Documents.
- 1.4. Asbestos--Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.
- 1.5. *Bid--*The offer or proposal of the bidder submitted on the prescribed form setting forth the prices for the Work to be performed.
- 1.6. Bidding Documents--The advertisement or invitation to Bid, instructions to bidders, the Bid form, and the proposed Contract Documents (including all Addenda issued prior to receipt of Bids).
- 1.7. Bidding Requirements--The advertisement or invitation to Bid, instructions to bidders, and the Bid form.
- 1.8. Bonds-Performance and Payment bonds and other instruments of security.
- 1.9. Change Order--A document recommended by ENGINEER, which is signed by CONTRACTOR and OWNER and authorizes an addition, deletion or revision in the Work, or an adjustment in the Contract Price or the Contract Times, issued on or after the Effective Date of the Agreement.
- 1.10. Contract Documents--The Agreement, Addenda (which pertain to the Contract Documents). CONTRACTOR's Bid (including documentation accompanying the Bid and any post Bid documentation submitted prior to the Notice of Award) when attached as an exhibit to the Agreement, the Notice to Proceed, the Bonds, these General Conditions, the Supplementary Conditions, the Specifications and the Drawings as the same are more specifically identified in the Agreement, together with all Written Amendments, Change Orders, Work Change Directives, Field Orders and ENGINEER's written interpretations and classifications issued pursuant to paragraphs 3.5, 3.6.1, and 3.6.3 on or after the Effective Date of the Agreement. Shop Drawing submittals approved pursuant to paragraphs 6.26 and 6.27 and the reports and drawings referred to in paragraphs 4.2.1.1 and 4.2.2.2 are not Contract Documents.

- 1.11. Contract Price--The moneys payable by OWNER to CONTRACTOR for completion of the Work in accordance with the Contract Documents as stated in the Agreement (subject to the provisions of paragraph 11.9.1 in the case of Unit Price Work).
- 1.12. Contract Times—The numbers of days or the dates stated in the Agreement: (i) to achieve Substantial Completion, and (ii) to complete the Work so that it is ready for final payment as evidenced by ENGINEER's written recommendation of final payment in accordance with paragraph 14.13.
- 1.13. *CONTRACTOR*--The person, firm or corporation with whom the OWNER has entered into the Agreement.
- 1.14. *defective*--An adjective which when modifying the word Work refers to Work that is unsatisfactory, faulty or deficient, in that it does not conform to the Contract Documents, or does not meet the requirements of any inspection, reference standard, test or approval referred to in the Contract Documents, or has been damaged prior to ENGINEER's recommendation of final payment (unless responsibility for the protection thereof has been assumed by OWNER at Substantial Completion in accordance with paragraph 14.8 or 14.10).
- 1.15. Drawings--The drawings which show the scope, extent and character of the Work to be furnished and performed by CONTRACTOR and which have been prepared or approved by ENGINEER and are referred to in the Contract Documents. Shop drawings are not Drawings as so defined.
- 1.16. Effective Date of the Agreement--The date indicated in the Agreement on which it becomes effective, but if no such date is indicated it means the date on which the Agreement is signed and delivered by the last of the two parties to sign and deliver.
- 1.17. ENGINEER--The person, firm or corporation named as such in the Agreement.
- 1.18. *ENGINEER's Consultant*—A person, firm, or corporation having a contract with ENGINEER to furnish services as ENGINEER's independent professional associate or consultant with respect to the Project and who is identified as such in the Supplementary Conditions.
- 1.19. Field Order--A written order issued by ENGINEER which orders minor changes in the Work in accordance with paragraph 9.5 but which does not involve a change in the Contract Price or the Contract Times.
- 1.20. General Requirements--Sections of Division 1 of the Specifications.
- 1.21. *Hazardous Waste-*-The term Hazardous Waste shall have the meaning provided in Section 1004 of the Solid Waste Disposal Act (42 USC Section 6903) as amended from time to time.
- 1.22. Laws and Regulations: Laws or Regulations--Any and all applicable laws, rules, regulations, ordinances, codes and orders of any and all governmental bodies, agencies, authorities and courts having jurisdiction.
- 1.23. *Liens*.-Liens, charges, security interests or encumbrances upon real property or personal property.

- 1.24. *Milestone--*A principal event specified in the Contract Documents relating to an intermediate completion date or time prior to Substantial Completion of all the Work.
- 1.25. Notice of Award--The written notice by OWNER to the apparent successful bidder stating that upon compliance by the apparent successful bidder with the conditions precedent enumerated therein, within the time specified, OWNER will sign and deliver the Agreement.
- 1.26. Notice to Proceed--A written notice given by OWNER to CONTRACTOR (with a copy to ENGINEER) fixing the date on which the Contract Times will commence to run and on which CONTRACTOR shall start to perform CONTRACTOR's obligations under the Contract Documents.
- 1.27. *OWNER*--The public body or authority, corporation, association, firm or person with whom CONTRACTOR has entered into the Agreement and for whom the Work is to be provided.
- 1.28. Partial Utilization--Use by OWNER of a substantially completed part of the Work for the purpose for which it is intended (or a related purpose) prior to Substantial Completion of all the Work.
  - 1.29. PCBs--Polychlorinated biphenyls.
- 1.30. Petroleum--Petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute), such as oil, petroleum, fuel oil, oil sludge, oil refuse, gasoline, kerosene, and oil mixed with other non-Hazardous Wastes and crude oils.
- 1.31. *Project*--The total construction of which the Work to be provided under the Contract Documents may be the whole, or a part as indicated elsewhere in the Contract Documents.
- 1.32. *Radioactive Material*--Source, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954 (42 USC Section 2011 et seq.) as amended from time to time.
- 1.33. Resident Project Representative--The authorized representative of ENGINEER who may be assigned to the site or any part thereof.
- 1.34. Samples--Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.
- 1.35. Shop Drawings--All drawings, diagrams, illustrations, schedules and other data or information which are specifically prepared or assembled by or for CONTRACTOR and submitted by CONTRACTOR to illustrate some portion of the Work.
- 1.36. Specifications--Those portions of the Contract Documents consisting of written technical descriptions of materials, equipment, construction systems, standards and workmanship as applied to the Work and certain administrative details applicable thereto.
- 1.37. *Subcontractor*--An individual, firm or corporation having a direct contract with CONTRACTOR or with any other Subcontractor for the performance of a part of the Work at the site.

- 1.38. Substantial Completion--The Work (or a specified part thereof) has progressed to the point where, in the opinion of ENGINEER as evidenced by ENGINEER's definitive certificate of Substantial Completion, it is sufficiently complete, in accordance with the Contract Documents, so that the Work (or specified part) can be utilized for the purposes for which it is intended; or if no such certificate is issued, when the Work is complete and ready for final payment as evidenced by ENGINEER's written recommendation of final payment in accordance with paragraph 14.13. The terms "substantially complete" and "substantially completed" as applied to all or part of the Work refer to Substantial Completion thereof.
- 1.39. Supplementary Conditions—The part of the Contract Documents which amends or supplements these General Conditions.
- 1.40. Supplier--A manufacturer, fabricator, supplier, distributor, materialman or vendor having a direct contract with CONTRACTOR or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by CONTRACTOR or any Subcontractor.
- 1.41. Underground Facilities--All pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels or other such facilities or attachments, and any encasements containing such facilities which have been installed underground to furnish any of the following services or materials: electricity, gases, steam, liquid petroleum products, telephone or other communications, cable television, sewage and drainage removal, traffic or other control systems or water.
- 1.42. Unit Price Work--Work to be paid for on the basis of unit prices.
- 1.43. Work--The entire completed construction or the various separately identifiable parts thereof required to be furnished under the Contract Documents. Work includes and is the result of performing or furnishing labor and furnishing and incorporating materials and equipment into the construction, and performing or furnishing services and furnishing documents, all as required by the Contract Documents.
- 1.44. Work Change Directive--A written directive to CONTRACTOR, issued on or after the Effective Date of the Agreement and signed by OWNER and recommended by ENGINEER, ordering an addition, deletion or revision in the Work, or responding to differing or unforeseen physical conditions under which the Work is to be performed as provided in paragraph 4.2 or 4.3 or to emergencies under paragraph 6.23. A Work Change Directive will not change the Contract Price or the Contract Times, but is evidence that the parties expect that the change directed or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order following negotiations by the parties as to its effect, if any, on the Contract Price or Contract Times as provided in paragraph 10.2.
- 1.45. Written Amendment--A written amendment of the Contract Documents, signed by OWNER and CONTRACTOR on or after the Effective Date of the Agreement and normally dealing with the nonengineering or nontechnical rather than strictly construction-related aspects of the Contract Documents.

#### ARTICLE 2--PRELIMINARY MATTERS

#### Delivery of Bonds:

2.1. When CONTRACTOR delivers the executed Agreements to OWNER, CONTRACTOR shall also deliver to OWNER such Bonds

as CONTRACTOR may be required to furnish in accordance with paragraph 5.1.

#### Copies of Documents:

2.2. OWNER shall furnish to CONTRACTOR up to ten copies (unless otherwise specified in the Supplementary Conditions) of the Contract Documents as are reasonably necessary for the execution of the Work. Additional copies will be furnished, upon request, at the cost of reproduction.

#### Commencement of Contract Times; Notice to Proceed:

2.3. The Contract Times will commence to run on the thirtieth day after the Effective Date of the Agreement, or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed. A Notice to Proceed may be given at any time within thirty days after the Effective Date of the Agreement. In no event will the Contract Times commence to run later than the sixtieth day after the day of Bid opening or the thirtieth day after the Effective Date of the Agreement, whichever date is earlier.

#### Starting the Work:

2.4. CONTRACTOR shall start to perform the Work on the date when the Contract Times commence to run, but no Work shall be done at the site prior to the date on which the Contract Times commence to run.

#### Before Starting Construction:

- 2.5. Before undertaking each part of the Work, CONTRACT-OR shall carefully study and compare the Contract Documents and check and verify pertinent figures shown thereon and all applicable field measurements. CONTRACTOR shall promptly report in writing to ENGINEER any conflict, error, ambiguity or discrepancy which CONTRACTOR may discover and shall obtain a written interpretation or clarification from ENGINEER before proceeding with any Work affected thereby; however, CONTRACTOR shall not be liable to OWNER or ENGINEER for failure to report any conflict, error, ambiguity or discrepancy in the Contract Documents, unless CONTRACTOR knew or reasonably should have known thereof.
- 2.6. Within ten days after the Effective Date of the Agreement (unless otherwise specified in the General Requirements), CONTRACTOR shall submit to ENGINEER for review:
  - 2.6.1. a preliminary progress schedule indicating the times (numbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract Documents;
  - 2.6.2. a preliminary schedule for Shop Drawing and Sample submittals which will list each required submittal and the times for submitting, reviewing and processing such submittal;
  - 2.6.3. a preliminary schedule of values for all of the Work which will include quantities and prices of items aggregating the Contract Price and will subdivide the Work into component parts in sufficient detail to serve as the basis for progress payments during construction. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work.

2.7. Before any Work at the site is started, CONTRACTOR and OWNER shall each deliver to the other, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance which either of them or any additional insured may reasonably request) which CONTRACTOR and OWNER respectively are required to purchase and maintain in accordance with paragraphs 5.4, 5.6 and 5.7.

#### Preconstruction Conference:

2.8. Within twenty days after the Contract Times start to run, but before any Work at the site is started, a conference attended by CONTRACTOR, ENGINEER and others as appropriate will be held to establish a working understanding among the parties as to the Work and to discuss the schedules referred to in paragraph 2.6, procedures for handling Shop Drawings and other submittals, processing Applications for Payment and maintaining required records.

#### Initially Acceptable Schedules:

2.9. Unless otherwise provided in the Contract Documents, at least ten days before submission of the first Application for Payment a conference attended by CONTRACTOR, ENGINEER and others as appropriate will be held to review for acceptability to ENGINEER as provided below the schedules submitted in accordance with paragraph CONTRACTOR shall have an additional ten days to make corrections and adjustments and to complete and resubmit the schedules. No progress payment shall be made to CONTRACTOR until the schedules are submitted to and acceptable to ENGINEER as The progress schedule will be acceptable to provided below. ENGINEER as providing an orderly progression of the Work to completion within any specified Milestones and the Contract Times, but such acceptance will neither impose on ENGINEER responsibility for the sequencing, scheduling or progress of the Work nor interfere with or relieve CONTRACTOR from CONTRACTOR's full responsibility therefore. CONTRACTOR's schedule of Shop Drawing and Sample submissions will be acceptable to ENGINEER as providing a workable arrangement for reviewing and processing the required submittals. CONTRACTOR's schedule of values will be acceptable to ENGINEER as to form and substance.

# ARTICLE 3--CONTRACT DOCUMENT: INTENT, AMENDING, REUSE

#### Intent:

- 3.1. The Contract Documents comprise the entire agreement between OWNER and CONTRACTOR concerning the Work. The Contract Documents are complementary; what is called for by one is as binding as if called for by all. The Contract Documents will be construed in accordance with the law of the place of the Project.
- 3.2. It is the intent of the Contract Documents to describe a functionally complete Project (or part thereof) to be constructed in accordance with the Contract Documents. Any Work, materials or equipment that may reasonably be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the intended result will be furnished and performed whether or not specifically called for. When words or phrases which have a well-known technical or construction industry or trade meaning are used to describe Work, materials or equipment, such words or phrases shall be interpreted in accordance with that meaning. Clarifications and interpretations of the Contract Documents shall be issued by ENGINEER as provided in paragraph 9.4.

# 3.3. Reference to Standards and Specifications of Technical Societies; Reporting and Resolving Discrepancies:

- 3.3.1. Reference to standards, specifications, manuals or codes of any technical society, organization or association, or to the Laws or Regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard, specification, manual, code or Laws or Regulations in effect at the time of opening of Bids (or, on the Effective Date of the Agreement if there were no Bids), except as may be otherwise specifically stated in the Contract Documents.
- 3.3.2. If, during the performance of the Work, CONTRACTOR discovers any conflict, error, ambiguity or discrepancy within the Contract Documents or between the Contract Documents and any provision of any such Law or Regulation applicable to the performance of the Work or of any such standard, specification, manual or code or of any instruction of any Supplier referred to in paragraph 6.5, CONTRACTOR shall report it to ENGINEER in writing at once, and, CONTRACTOR shall not proceed with the Work affected thereby (except in an emergency as authorized by paragraph 6.23) until an amendment or supplement to the Contract Documents has been issued by one of the methods indicated in paragraph 3.5 or 3.6; provided, however, that CONTRACTOR shall not be liable to OWNER or ENGINEER for failure to report any such conflict, error, ambiguity or discrepancy unless CONTRACTOR knew or reasonably should have known thereof.
- 3.3.3. Except as otherwise specifically stated in the Contract Documents or as may be provided by amendment or supplement thereto issued by one of the methods indicated in paragraph 3.5 or 3.6, the provisions of the Contract Documents shall take precedence in resolving any conflict, error, ambiguity or discrepancy between the provisions of the Contract Documents and:
  - 3.3.3.1. the provisions of any such standard, specification, manual, code or instruction (whether or not specifically incorporated by reference in the Contract Documents); or
  - 3.3.3.2. the provisions of any such Laws or Regulations applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract Documents would result in violation of such Law or Regulation).

No provision of any such standard, specification, manual, code or instruction shall be effective to change the duties and responsibilities of OWNER, CONTRACTOR or ENGINEER, or any of their subcontractors, consultants, agents, or employees from those set forth in the Contract Documents, nor shall it be effective to assign to OWNER, ENGINEER or any of ENGINEER's Consultants, agents or employees any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility inconsistent with the provisions of paragraph 9.13 or any other provision of the Contract Documents.

3.4. Whenever in the Contract Documents the terms" as ordered," "as directed," "as required," "as allowed," "as approved" or terms of like effect or import are used, or the adjectives "reasonable," "suitable," "acceptable," "proper" or "satisfactory" or adjectives of like effect or import are used to describe a requirement, direction, review or judgment of ENGINEER as to the Work, it is intended that such requirement, direction, review or judgment will be solely to evaluate, in general, the completed Work for compliance with the requirements of and information in the Contract Documents and conformance with the

design concept of the completed Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective shall not be effective to assign to ENGINEER any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of paragraph 9.13 or any other provision of the Contract Documents.

#### Amending and Supplementing Contract Documents:

- 3.5. The Contract Documents may be amended to provide for additions, deletions and revisions in the Work or to modify the terms and conditions thereof in one or more of the following ways:
  - 3.5.1. a formal Written Amendment.
  - 3.5.2. a Change Order (pursuant to paragraph 10.4), or
  - 3.5.3. a Work Change Directive (pursuant to paragraph 10.1).
- 3.6. In addition, the requirements of the Contract Documents may be supplemented, and minor variations and deviations in the Work may be authorized, in one or more of the following ways:
  - 3.6.1. a Field Order (pursuant to paragraph 9.5),
  - 3.6.2. ENGINEER's approval of a Shop Drawing or Sample (pursuant to paragraphs 6.26 and 6.27), or
  - 3.6.3. ENGINEER's written interpretation or clarification (pursuant to paragraph 9.4).

#### Reuse of Documents:

3.7. CONTRACTOR, and any Subcontractor or Supplier or other person or organization performing or furnishing any of the Work under a direct or indirect contract with OWNER (i) shall not have or acquire any title to or ownership rights in any of the Drawings, Specifications or other documents (or copies of any thereof) prepared by or bearing the seal of ENGINEER or ENGINEER's Consultant, and (ii) shall not reuse any of such Drawings, Specifications, other documents or copies on extensions of the Project or any other project without written consent of OWNER and ENGINEER and specific written verification or adaption by ENGINEER.

ARTICLE 4--AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; REFERENCE POINTS

#### Availability of Lands:

4.1. OWNER shall furnish, as indicated in the Contract Documents, the lands upon which the Work is to be performed, rights-of-way and easements for access thereto, and such other lands which are designated for the use of CONTRACTOR. Upon reasonable written request, OWNER shall furnish CONTRACTOR with a correct statement of record legal title and legal description of the lands upon which the Work is to be performed and OWNER's interest therein as necessary for giving notice of or filing a mechanic's lien against such lands in accordance with applicable Laws and Regulations. OWNER shall identify any encumbrances or restrictions not of general application but

specifically related to use of lands so furnished with which CONTRACTOR will have to comply in performing the Work. Easements for permanent structures or permanent changes in existing facilities will be obtained and paid for by OWNER, unless otherwise provided in the Contract Documents. If CONTRACTOR and OWNER are unable to agree on entitlement to or the amount or extent of any adjustments in the Contract Price or the Contract Times as a result of any delay in OWNER's furnishing these lands, rights-of-way or easements, CONTRACTOR may make a claim therefore as provided in Articles 11 and 12. CONTRACTOR shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

#### 4.2. Subsurface and Physical Conditions:

- 4.2.1. Reports and Drawings: Reference is made to the Supplementary Conditions for identification of:
  - 4.2.1.1. Subsurface Conditions: Those reports of explorations and tests of subsurface conditions at or contiguous to the site that have been utilized by ENGINEER in preparing the Contract Documents; and
  - 4.2.1.2. *Physical Conditions*: Those drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site (except Underground Facilities) that have been utilized by ENGINEER in preparing the Contract Documents.
- 4.2.2. Limited Reliance by CONTRACTOR Authorized: Technical Data: CONTRACTOR may rely upon the general accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions. Except for such reliance on such "technical data." CONTRACTOR may not rely upon or make any claim against OWNER, ENGINEER or any of ENGINEER's Consultants with respect to:
  - 4.2.2.1. the completeness of such reports and drawings for CONTRACTOR's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures of construction to be employed by CONTRACTOR and safety precautions and programs incident thereto, or
  - 4.2.2.2. other data, interpretations, opinions and information contained in such reports or shown or indicated in such drawings, or
  - 4.2.2.3. any CONTRACTOR interpretation of or conclusion drawn from any "technical data" or any such data, interpretations, opinions or information.
- 4.2.3. Notice of Differing Subsurface or Physical Conditions: If CONTRACTOR believes that any subsurface or physical condition at or contiguous to the site that is uncovered or revealed either:
  - 4.2.3.1. is of such a nature as to establish that any "technical data" on which CONTRACTOR is entitled to rely as provided in paragraphs 4.2.1 and 4.2.2 is materially inaccurate, or
  - 4.2.3.2. is of such a nature as to require a change in the Contract Documents, or

- 4.2.3.3. differs materially from that shown or indicated in the Contract Documents, or
- 4.2.3.4. is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents; then
- CONTRACTOR shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as permitted by paragraph 6.23), notify OWNER and ENGINEER in writing about such condition. CONTRACTOR shall not further disturb such conditions or perform any Work in connection therewith (except as aforesaid) until receipt of written order to do so.
- 4.2.4. ENGINEER's Review: ENGINEER will promptly review the pertinent conditions, determine the necessity of OWNER's obtaining additional exploration or tests with respect thereto and advise OWNER in writing (with a copy to CONTRACTOR) of ENGINEER's findings and conclusions.
- 4.2.5. Possible Contract Documents Change: If ENGINEER concludes that a change in the Contract Documents is required as a result of a condition that meets one or more of the categories in paragraph 4.2.3., a Work Change Directive or a Change Order will be issued as provided in Article 10 to reflect and document the consequences of such change.
- 4.2.6. Possible Price and Times Adjustments: An equitable adjustment in the Contract Price or in the Contract Times, or both, will be allowed to the extent that the existence of such uncovered or revealed condition causes an increase or decrease in CONTRACTOR's cost of, or time required for performance of, the Work; subject, however, to the following:
  - 4.2.6.1. such condition must meet any one or more of the categories described in paragraphs 4.2.3.1 through 4.2.3.4, inclusive;
  - 4.2.6.2. a change in the Contract Documents pursuant to paragraph 4.2.5 will not be an automatic authorization of nor a condition precedent to entitlement to any such adjustment;
  - 4.2.6.3. with respect to Work that is paid for on a Unit Price Basis, any adjustment in Contract Price will be subject to the provisions of paragraphs 9.10 and 11.9; and
  - 4.2.6.4. CONTRACTOR shall not be entitled to any adjustment in the Contract Price or Times if;
    - 4.2.6.4.1. CONTRACTOR knew of the existence of such conditions at the time CONTRACTOR made a final commitment to OWNER in respect of Contract Price and Contract Times by the submission of a bid or becoming bound under a negotiated contract; or
    - 4.2.6.4.2. the existence of such condition could reasonably have been discovered or revealed as a result of any examination, investigation, exploration, test or study of the site and contiguous areas required by the Bidding Requirements or Contract Documents to be conducted by or for CONTRACTOR prior to CONTRACTOR's making such final commitment; or

4.2.6.4.3. CONTRACTOR failed to give the written notice within the time and as required by paragraph 4.2.3.

If OWNER and CONTRACTOR are unable to agree on entitlement to or as to the amount or length of any such equitable adjustment in the Contract Price or Contract Times, a claim may be made therefore as provided in Articles 11 and 12. However, OWNER, ENGINEER and ENGINEER's Consultants shall not be liable to CONTRACTOR for any claims, costs, losses or damages sustained by CONTRACTOR on or in connection with any other project or anticipated project.

#### 4.3. Physical Conditions--Underground Facilitates:

- 4.3.1. Shown or Indicated: The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or contiguous to the site is based on information and data furnished to OWNER or ENGINEER by the owners of such Underground Facilities or by others. Unless it is otherwise expressly provided in the Supplementary Conditions:
  - 4.3.1.1. OWNER and ENGINEER shall not be responsible for the accuracy or completeness of any such information or data; and
  - 4.3.1.2. The cost of all of the following will be included in the Contract Price and CONTRACTOR shall have full responsibility for: (i) reviewing and checking all such information and data, (ii) locating all Underground Facilities shown or indicated in the Contract Documents, (iii) coordination of the Work with the owners of such Underground Facilities during construction, and (iv) the safety and protection of all such Underground Facilities as provided in paragraph 6.20 and repairing any damage thereto resulting from the Work.
- Not Shown or Indicated: If an Underground Facility is uncovered or revealed at or contiguous to the site which was not shown or indicated in the Contract Documents, CONTRACTOR shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as required by paragraph 6.23), identify the owner of such Underground Facility and give written notice to that owner and to OWNER and ENGINEER. ENGINEER will promptly review the Underground Facility and determine the extent, if any, to which a change is required in the Contract Documents to reflect and document the consequences of the existence of the Underground Facility. If ENGINEER concludes that a change in the Contract Documents is required, a Work Change Directive or a Change Order will be issued as provided in Article 10 to reflect and document During such time, CONTRACTOR shall be such consequences. responsible for the safety and protection of such Underground Facility as provided in paragraph 6.20. CONTRACTOR shall be allowed an increase in the Contract Price or an extension of the Contract Times, or both, to the extent that they are attributable to the existence of any Underground Facility that was not shown or indicated in the Contract Documents and that CONTRACTOR did not know of and could not reasonably have been expected to be aware of or to have anticipated. If OWNER and CONTRACTOR are unable to agree on entitlement to or the amount or length of any such adjustment in Contract Price or Contract Times, CONTRACTOR may make a claim therefore as provided in Articles 11 and 12. However, OWNER, ENGINEER and ENGINEER's Consultants shall not be liable to CONTRACTOR for any claims, costs, losses or damages incurred or sustained by CONTRACTOR on or in connection with any other project or anticipated project.

#### Reference Points:

4.4. OWNER shall provide engineering surveys to establish reference points for construction which in ENGINEER's judgment are necessary to enable CONTRACTOR to proceed with the Work. CONTRACTOR shall be responsible for laying out the Work, shall protect and preserve the established reference points and shall make no changes or relocations without the prior written approval of OWNER. CONTRACTOR shall report to ENGINEER whenever any reference point is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points by professionally qualified personnel.

## 4.5. Asbestos, PCBs, Petroleum, Hazardous Waste or Radioactive Material:

- 4.5.1. OWNER shall be responsible for any Asbestos, PCBs, Petroleum, Hazardous Waste or Radioactive Material uncovered or revealed at the site which was not shown or indicated in Drawings or Specifications or identified in the Contract Documents to be within the scope of the Work and which may present a substantial danger to persons or property exposed thereto in connection with the Work at the site. OWNER shall not be responsible for any such materials brought to the site by CONTRACTOR, Subcontractor, Suppliers or anyone else for whom CONTRACTOR is responsible.
- 4.5.2. CONTRACTOR shall immediately: (i) stop all Work in connection with such hazardous condition and in any area affected thereby (except in an emergency as required by paragraph 6.23), and (ii) notify OWNER and ENGINEER (and thereafter confirm such notice in writing). OWNER shall promptly consult with ENGINEER concerning the necessity for OWNER to retain a qualified expert to evaluate such hazardous condition or take corrective action, if any. CONTRACTOR shall not be required to resume Work in connection with such hazardous condition or in any such affected area until after OWNER has obtained any required permits related thereto and delivered to CONTRACTOR special written notice: (i) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work, or (ii) specifying any special conditions under which such Work may be resumed safely. If OWNER and CONTRACTOR cannot agree as to entitlement to or the amount or extent of an adjustment, if any, in Contract Price or Contract Times as a result of such Work stoppage or such special conditions under which Work is agreed by CONTRACTOR to be resumed, either party may make a claim therefore as provided in Articles 11 and 12.
- 4.5.3. If after receipt of such special written notice CONTRACTOR does not agree to resume such Work based on a reasonable belief it is unsafe, or does not agree to resume such Work under such special conditions, then OWNER may order such portion of the Work that is in connection with such hazardous condition or in such affected area to be deleted from the Work. If OWNER and CONTRACTOR cannot agree as to entitlement to or the amount or extent of an adjustment, if any, in Contract Price or Contract Times as a result of deleting such portion of the Work, then either party may make a claim therefore as provided in Articles 11 and 12. OWNER may have such deleted portion of the Work performed by OWNER's own forces or others in accordance with Article 7.
- 4.5.4. To the fullest extent permitted by Laws and Regulations, OWNER shall indemnify and hold harmless CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants and the officers, directors, employees, agents, other consultants and subcontractors of each and any of them from and against all

claims, costs, losses and damages arising out of or resulting from such hazardous condition, provided that: (i) any such claim, cost, loss or damage is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting there from, and (ii) nothing in this subparagraph 4.5.4 shall obligate OWNER to indemnify any person or entity from and against the consequences of that person's or entity's own negligence.

4.5.5. The provisions of paragraphs 4.2 and 4.3 are not intended to apply to Asbestos, PCBs, Petroleum, Hazardous Waste or Radioactive Material uncovered or revealed at the site.

#### ARTICLE 5--BONDS AND INSURANCE

#### Performance, Payment and Other Bonds:

- CONTRACTOR shall furnish Performance and Payment 5.1. Bonds, each in an amount at least equal to the Contract Price as security for the faithful performance and payment of all CONTRACTOR's obligations under the Contract Documents. These Bonds shall remain in effect at least until one year after the date when final payment becomes due, except as provided otherwise by Laws or Regulations or by the Contract Documents. CONTRACTOR shall also furnish such other Bonds as are required by the Supplementary Conditions. All Bonds shall be in the form prescribed by the Contract Documents except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Audit Staff, Bureau of Government Financial Operations, U.S. Treasury Department. Bonds signed by an agent must be accompanied by a certified copy of such agent's authority to act.
- 5.2. If the surety on any Bond furnished by CONTRACTOR is declared a bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the Project is located or it ceases to meet the requirements of paragraph 5.1, CONTRACTOR shall within ten days thereafter substitute another Bond and surety, both of which must be acceptable to OWNER.

#### 5.3. Licensed Sureties and Insurers; Certificates of Insurance:

- 5.3.1. All Bonds and insurance required by the Contract Documents to be purchased and maintained by OWNER or CONTRACTOR shall be obtained from surety or insurance companies that are duly licensed or authorized in the jurisdiction in which the Project is located to issue Bonds or insurance policies for the limits and coverages so required. Such surety and insurance companies shall also meet such additional requirements and qualifications as may be provided in the Supplementary Conditions.
- 5.3.2. CONTRACTOR shall deliver to OWNER, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by OWNER or any other additional insured) which CONTRACTOR is required to purchase and maintain in accordance with paragraph 5.4. OWNER shall deliver to CONTRACTOR, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by CONTRACTOR or any other additional insured) which OWNER is

required to purchase and maintain in accordance with paragraphs 5.6 and 5.7 hereof.

#### CONTRACTOR's Liability Insurance:

- 5.4. CONTRACTOR shall purchase and maintain such liability and other insurance as is appropriate for the Work being performed and furnished and as will provided protection from claims set forth below which may arise out of or result from CONTRACTOR's performance and furnishing of the Work and CONTRACTOR's other obligations under the Contract Documents, whether it is to be performed or furnished by CONTRACTOR, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to perform or furnish any of the Work, or by anyone for whose acts any of them may be liable:
  - 5.4.1. claims under workers' compensation, disability benefits and other similar employee benefit acts;
  - 5.4.2. claims for damages because of bodily injury, occupational sickness or disease, or death of CONTRACTOR's employees;
  - 5.4.3. claims for damages because of bodily injury, sickness or disease, or death of any person other than CONTRACTOR's employees;
  - 5.4.4. claims for damages insured by customary personal injury liability coverage which are sustained: (i) by any person as a result of an offense directly or indirectly related to the employment of such person by CONTRACTOR, or (ii) by any other person for any other reason;
  - 5.4.5. claims for damages, other than to the Work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting there from; and
  - 5.4.6. claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance or use of any motor vehicle.

The policies of insurance so required by this paragraph 5.4 to be purchased and maintained shall:

- 5.4.7. with respect to insurance required by paragraphs 5.4.3. through 5.4.6 inclusive, include as additional insured (subject to any customary exclusion in respect of professional liability) OWNER, ENGINEER, ENGINEER's Consultants and any other persons or entities identified in the Supplementary Conditions, all of whom shall be listed as additional insured, and include coverage for the respective officers and employees of all such additional insured;
- 5.4.8. include the specific coverages and be written for not less than the limits of liability provided in the Supplementary Conditions or required by Laws or Regulations, whichever is greater;
  - 5.4.9. include completed operations insurance;
- 5.4.10. include contractual liability insurance covering CONTRACTOR's indemnity obligations under paragraphs 6.12, 6.16 and 6.31 through 6.33;

- 5.4.11. contain a provision or endorsement that the coverage afforded will not be cancelled, materially changed or renewal refused until at least thirty days prior written notice has been given to OWNER and CONTRACTOR and to each other additional insured identified in the Supplementary Conditions to whom a certificate of insurance has been issued (and the certificates of insurance furnished by the CONTRACTOR pursuant to paragraph 5.3.2 will so provide);
- 5.4.12. remain in effect at least until final payment and at all times thereafter when CONTRACTOR may be correcting, removing or replacing *defective* Work in accordance with paragraph 13.12; and
- 5.4.13. with respect to completed operations insurance, and any insurance coverage written on a claims-made basis, remain in effect for at least two years after final payment (and CONTRACTOR shall furnish OWNER and each other additional insured identified in the Supplementary Conditions to whom a certificate of insurance has been issued evidence satisfactory to OWNER and any such additional insured of continuation of such insurance at final payment and one year thereafter).

#### OWNER's Liability Insurance:

5.5. In addition to the insurance required to be provided by CONTRACTOR under paragraph 5.4, OWNER, at OWNER's option, may purchase and maintain at OWNER's expense OWNER's own liability insurance as will protect OWNER against claims which may arise from operations under the Contract Documents.

#### Property Insurance:

- 5.6. Unless otherwise provided in the Supplementary Conditions, OWNER shall purchase and maintain property insurance upon the Work at the site in the amount of the full replacement cost thereof (subject to such deductible amounts as may be provided in the Supplementary Conditions or required by Laws and Regulations). This insurance shall:
  - 5.6.1. include the interests of OWNER, CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants and any other persons or entities identified in the Supplementary Conditions, each of whom is deemed to have an insurable interest and shall be listed as an insured or additional insured;
  - 5.6.2. be written on a Builder's Risk "all-risk" or open peril or special causes of loss policy form that shall at least include insurance for physical loss or damage to the Work, temporary buildings, false work and Work in transit and shall insure against at least the following perils fire, lightning, extended coverage, theft, vandalism and malicious mischief, earthquake, collapse, debris removal, demolition occasioned by enforcement of Laws and Regulations, water damage, and such other perils as may be specifically required by the Supplementary Conditions;
  - 5.6.3. include expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and architects);
  - 5.6.4. cover materials and equipment stored at the site or at another location that was agreed to in writing by OWNER prior to being incorporated in the Work, provided that such materials and equipment have been included in an Application for Payment recommended by ENGINEER; and

- 5.6.5. be maintained in effect until final payment is made unless otherwise agreed to in writing by OWNER, CONTRACTOR and ENGINEER with thirty days written notice to each other additional insured to whom a certificate of insurance has been issued.
- 5.7. OWNER shall purchase and maintain such boiler and machinery insurance or additional property insurance as may be required by the Supplementary Conditions or Laws and Regulations which will include the interests of OWNER, CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants and any other persons or entities identified in the Supplementary Conditions, each of whom is deemed to have an insurable interest and shall be listed as an insured or additional insured.
- 5.8. All the policies of insurance (and the certificates or other evidence thereof) required to be purchased and maintained by OWNER in accordance with paragraphs 5.6 and 5.7 will contain a provision or endorsement that the coverage afforded will not be canceled or materially changed or renewal refused until at least thirty days' prior written notice has been given to OWNER and CONTRACTOR and to each other additional insured to whom a certificate of insurance has been issued and will contain waiver provisions in accordance with paragraph 5.11.
- 5.9. OWNER shall not be responsible for purchasing and maintaining any property insurance to protect the interests of CONTRACTOR, Subcontractors or others in the Work to the extent of any deductible amounts that are identified in the Supplementary Conditions. The risk of loss within such identified deductible amount, will be borne by CONTRACTOR, Subcontractor or others suffering any such loss and if any of them wishes property insurance coverage within the limits of such amounts, each may purchase and maintain it at the purchaser's own expense.
- 5.10. If CONTRACTOR requests in writing that other special insurance be included in the property insurance policies provided under paragraphs 5.6 or 5.7, OWNER shall, if possible, include such insurance, and the cost thereof will be charged to CONTRACTOR by appropriate Change Order or Written Amendment. Prior to commencement of the Work at the site, OWNER shall in writing advise CONTRACTOR whether or not such other insurance has been procured by OWNER.

#### 5.11. Waiver of Rights:

5.11.1. OWNER and CONTRACTOR intend that all policies purchased in accordance with paragraphs 5.6 and 5.7 will protect CONTRACTOR, Subcontractors, ENGINEER's Consultants and all other persons or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds in such policies and will provide primary coverage for all losses and damages caused by the perils covered thereby. All such policies shall contain provisions to the effect that in the event of payment of any loss or damage the insurers will have no rights of recovery against any of the insureds or additional insureds thereunder. OWNER and CONTRACTOR waive all rights against each other and their respective officers, directors, employees and agents for all losses and damages caused by, arising out of or resulting from any of the perils covered by such policies and any other property insurance applicable to the Work; and, in addition, waive all such rights against Subcontractors, ENGINEER, ENGINEER's Consultants and all other persons or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds under such policies for losses and damages so caused. None of the above waivers shall extend to the

rights that any party making such waiver may have to the proceeds of insurance held by OWNER as trustee or otherwise payable under any policy so issued.

- 5.11.2. In addition, OWNER waives all rights against CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants and the officers, directors, employees and agents of any of them, for:
  - 5.11.2.1. loss due to business interruption, loss of use or other consequential loss extending beyond direct physical loss or damage to OWNER's property or the Work caused by, arising out of or resulting from fire or other peril, whether or not insured by OWNER; and
  - 5.11.2.2. loss or damage to the completed Project or part thereof caused by, arising out of or resulting from fire or other insured peril covered by any property insurance maintained on the completed Project or part thereof by OWNER during partial utilization pursuant to paragraph 14.10, after substantial completion pursuant to paragraph 14.8 or after final payment pursuant to paragraph 14.13.

Any insurance policy maintained by OWNER covering any loss, damage or consequential loss referred to in this paragraph 5.11.2 shall contain provisions to the effect that in the event of payment of any such loss, damage or consequential loss the insurers will have no rights of recovery against any of CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants and the officers, directors, employees and agents of any of them.

#### **Receipt and Application of Insurance Proceeds**

- 5.12. Any insured loss under the policies of insurance required by paragraphs 5.6 and 5.7 will be adjusted with OWNER and made payable to OWNER as fiduciary for the insureds, as their interests may appear, subject to the requirements of any applicable mortgage clause and of paragraph 5.13. OWNER shall deposit in a separate account any money so received, and shall distribute it in accordance with such agreement as the parties in interest may reach. If no other special agreement is reached the damaged Work shall be repaired or replaced, the moneys so received applied on account thereof and the Work and the cost thereof covered by an appropriate Change Order or Written Amendment.
- 5.13. OWNER as fiduciary shall have power to adjust and settle any loss with the insurers unless one of the parties in interest shall object in writing within fifteen days after the occurrence of loss to OWNER's exercise of this power. If such objection be made, OWNER as fiduciary shall make settlement with the insurers in accordance with such agreement as the parties in interest may reach. If no such agreement among the parties in interest is reached, OWNER as fiduciary shall adjust and settle the loss with the insurers and, if required in writing by any party in interest, OWNER as fiduciary shall give bond for the proper performance of such duties.

#### Acceptance of Bonds and Insurance; Option to Replace;

5.14. If either party (OWNER or CONTRACTOR) has any objection to the coverage afforded by or other provisions of the Bonds or insurance required to be purchased and maintained by the other party in accordance with Article 5 on the basis of non-conformance with the Contract Documents, the objecting party shall so notify the other party in writing within ten days after receipt of the certificates (or other evidence requested) required by paragraph 2.7. OWNER and

CONTRACTOR shall each provide to the other such additional information in respect of insurance provided as the other may reasonably request. If either party does not purchase or maintain all of the Bonds and insurance required of such party by the Contract Documents, such party shall notify the other party in writing of such failure to purchase prior to the start of the Work , or of such failure to maintain prior to any change in the required coverage. Without prejudice to any other right or remedy, the other party may elect to obtain equivalent Bonds or insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and a Change Order shall be issued to adjust the Contract Price accordingly.

#### Partial Utilization--Property Insurance:

5.15. If OWNER finds it necessary to occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work, such use or occupancy may be accomplished in accordance with paragraph 14.10; provided that no such use or occupancy shall commence before the insurers providing the property insurance have acknowledged notice thereof and in writing effected any changes in coverage necessitated thereby. The insurers providing the property insurance shall consent by endorsement on the policy or policies, but the property insurance shall not be cancelled or permitted to lapse on account of any such partial use or occupancy.

#### ARTICLE 6--CONTRACTOR'S RESPONSIBILITIES

#### Supervision and Superintendence:

- 6.1. CONTRACTOR shall supervise, inspect and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. CONTRACTOR shall be solely responsible for the means, methods, techniques, sequences and procedures of construction, but CONTRACTOR shall not be responsible for the negligence of others in the design or specification of a specific means, method, technique, sequence or procedure of construction which is shown or indicated in and expressly required by the Contract Documents. CONTRACTOR shall be responsible to see that the completed Work complies accurately with the Contract Documents.
- 6.2. CONTRACTOR shall keep on the Work at all times during its progress a competent resident superintendent, who shall not be replaced without written notice to OWNER and ENGINEER except under extraordinary circumstances. The superintendent will be CONTRACTOR's representative at the site and shall have authority to act on behalf of CONTRACTOR. All communications to the superintendent shall be as binding as if given to CONTRACTOR.

#### Labor, Materials and Equipment:

6.3. CONTRACTOR shall provide competent, suitably qualified personnel to survey, lay out and construct the Work as required by the Contract Documents. CONTRACTOR shall at all times maintain good discipline and order at the site. Except as otherwise required for the safety or protection of persons or the Work or property at the site or adjacent thereto, and except as otherwise indicated in the Contract Documents, all Work at the site shall be performed during regular working hours and CONTRACTOR will not permit overtime work or the performance of Work on Saturday, Sunday or any legal holiday without OWNER's written consent given after prior written notice to ENGINEER.

- 6.4. Unless otherwise specified in the General Requirements, CONTRACTOR shall furnish and assume full responsibility for all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water sanitary facilities, temporary facilities and all other facilities and incidentals necessary for the furnishing, performance, testing, start-up and completion of the Work.
- 6.5. All materials and equipment shall be of good quality and new, except as otherwise provided in the Contract Documents. All warranties and guarantees specifically called for by the Specifications shall expressly run to the benefit of OWNER. If required by ENGINEER, CONTRACTOR shall furnish satisfactory evidence (including reports of required tests) as to the kind and quality of materials and equipment. All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with instructions of the applicable Supplier, except as otherwise provided in the Contract Documents.

#### Progress Schedule:

- 6.6. CONTRACTOR shall adhere to the progress schedule established in accordance with paragraph 2.9 as it may be adjusted from time to time as provided below:
  - 6.6.1. CONTRACTOR shall submit to ENGINEER for acceptance (to the extent indicated in paragraph 2.9) proposed adjustments in the progress schedule that will not change the Contract Times (or Milestones). Such adjustments will conform generally to the progress schedule then in effect and additionally will comply with any provisions of the General Requirements applicable thereto.
  - 6.6.2. Proposed adjustments in the progress schedule that will change the Contract Times (or Milestones) shall be submitted in accordance with the requirements of paragraph 12.1. Such adjustments may only be made by a Change Order or Written Amendment in accordance with Article 12.

#### 6.7. Substitutes and "Or-Equal" Items:

- 6.7.1. Whenever an item of material or equipment is specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier, the specification or description is intended to establish the type, function and quality required. Unless the specification or description contains or is followed by words reading that no like, equivalent or "or-equal" item or no substitution is permitted, other items of material or equipment or material or equipment of other Suppliers may be accepted by ENGINEER under the following circumstances:
  - 6.7.1.1. "Or-Equal": If in ENGINEER's sole discretion an item of material or equipment proposed by CONTRACTOR is functionally equal to that named and sufficiently similar so that no change in related Work will be required, it may be considered by ENGINEER as an "or-equal" item, in which case review and approval of the proposed item may, in ENGINEER's sole discretion, be accomplished without compliance with some or all of the requirements for acceptance of proposed substitute items.
  - 6.7.1.2. Substitute Items: If in ENGINEER's sole discretion an item of material or equipment proposed by CONTRACTOR does not qualify as an "or-equal" item under

- subparagraph 6.7.1.1., it will be considered a proposed substitute item. CONTRACTOR shall submit sufficient information as provided below to allow ENGINEER to determine that the item of material or equipment proposed is essentially equivalent to that named and an acceptable substitute therefore. The procedure for review by the ENGINEER will include the following as supplemented in the General Requirements and as ENGINEER may decide is appropriate under the circumstances. Requests for review of proposed substitute items of material or equipment will not be accepted by ENGINEER from anyone other than CONTRACTOR. If CONTRACTOR wishes to furnish or use a substitute item of material or equipment, CONTRACTOR shall first make written application to ENGINEER for acceptance thereof, certifying that the proposed substitute will perform adequately the functions and achieve the results called for by the general design, be similar in substance to that specified and be suited to the same use as that specified. The application will state the extent, if any, to which the evaluation and acceptance of the proposed substitute will prejudice CONTRACTOR's achievement of Substantial Completion on time, whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with OWNER for work on the Project) to adapt the design to the proposed substitute and whether or not incorporation or use of the substitute in connection with the Work is subject to payment of any license fee or royalty. All variations of the proposed substitute from that specified will be identified in the application and available maintenance, repair and replacement service will be indicated. The application will also contain an itemized estimate of all costs or credits that will result directly or indirectly from acceptance of such substitute, including costs of redesign and claims of other contractors affected by the resulting change, all of which will be considered by ENGINEER in evaluating the proposed substitute. ENGINEER may require CONTRACTOR to furnish additional data about the proposed substitute.
- 6.7.1.3. *CONTRACTOR's Expense:* All data to be provided by CONTRACTOR in support of any proposed "orequal" or substitute item will be at CONTRACTOR's expense.
- 6.7.2. Substitute Construction Methods or Procedures: If a specific means, method, technique, sequence or procedure of construction is shown or indicated in and expressly required by the Contract Documents, CONTRACTOR may furnish or utilize a substitute means, method, technique, sequence or procedure of construction acceptable to ENGINEER. CONTRACTOR shall submit sufficient information to allow ENGINEER, in ENGINEER's sole discretion, to determine that the substitute proposed is equivalent to that expressly called for by the Contract Documents. The procedure for review by ENGINEER will be similar to that provided in subparagraph 6.7.1.2.
- 6.7.3. Engineer's Evaluation: ENGINEER will be allowed a reasonable time within which to evaluate each proposal or submittal made pursuant to paragraphs 6.7.1.2 and 6.7.2. ENGINEER will be the sole judge of acceptability. No "or-equal" or substitute will be ordered, installed or utilized without ENGINEER's prior written acceptance which will be evidenced by either a Change Order or an approved Shop Drawing. OWNER may require CONTRACTOR to furnish at CONTRACTOR's expense a special performance guarantee or other surety with respect to any "or-equal" or substitute. ENGINEER will record time required by ENGINEER and ENGINEER's Consultants in

evaluating substitutes proposed or submitted by CONTRACTOR pursuant to paragraphs 6.7.1.2 and 6.7.2 and in making changes in the Contract Documents (or in the provisions of any other direct contract with OWNER for work on the Project) occasioned thereby. Whether or not ENGINEER accepts a substitute item so proposed or submitted by CONTRACTOR, CONTRACTOR shall reimburse OWNER for the charges of ENGINEER and ENGINEER's Consultants for evaluating each such proposed substitute item.

#### Concerning Subcontractors, Suppliers and Others:

- 6.8.1. CONTRACTOR shall not employ any Subcontractor, Supplier or other person or organization (including those acceptable to OWNER and ENGINEER as indicated in paragraph 6.8.2), whether initially or as a substitute, against whom OWNER or ENGINEER may have reasonable objection. CONTRACTOR shall not be required to employ any Subcontractor, Supplier or other person or organization to furnish or perform any of the Work against whom CONTRACTOR has reasonable objection.
- 6.8.2. If the Supplementary Conditions require the identity of certain Subcontractors, Suppliers or other persons or organization (including those who are to furnish the principal items of materials or equipment) to be submitted to OWNER in advance of the specified date prior to the Effective Date of the Agreement for acceptance by OWNER and ENGINEER, and if CONTRACTOR has submitted a list thereof in accordance with the Supplementary Conditions, OWNER's or ENGINEER's acceptance (either in writing or by failing to make written objection thereto by the date indicated for acceptance or objection in the bidding documents or the Contract Documents) of any such Subcontractor, Supplier or other person or organization so identified may be removed on the basis of reasonable objection after due investigation, in which case CONTRACTOR shall submit an acceptable substitute, the Contract Price will be adjusted by the difference in the cost occasioned by such substitution and an appropriate Change Order will be issued or Written Amendment signed. No acceptance by OWNER or ENGINEER of any such Subcontractor, Supplier or other person or organization shall constitute a waiver of any right of OWNER or ENGINEER to reject defective Work.
- 6.9.1. CONTRACTOR shall be fully responsible to OWNER and ENGINEER for all acts and omissions of the Subcontractors, Suppliers and other persons and organizations performing or furnishing any of the Work under a direct or indirect contract with CONTRACTOR just as CONTRACTOR is responsible for CONTRACTOR's own acts and omissions. Nothing in the Contract Documents shall create for the benefit of any such Subcontractor, Supplier or other person or organization any contractual relationship between OWNER and ENGINEER and any such Subcontractor, Supplier or other person or organization, nor shall it create any obligation on the part of OWNER or ENGINEER to pay or to see to the payment of any moneys due any such Subcontractor, Supplier or other person or organization except as may otherwise be required by Laws and Regulations.
- 6.9.2. CONTRACTOR shall be solely responsible for scheduling and coordinating the Work of Subcontractors, Suppliers and other persons and organizations performing or furnishing any of the Work under a direct or indirect contract with CONTRACTOR. CONTRACTOR shall require all Subcontractors, Suppliers and such other persons and organizations performing or furnishing any of the Work to communicate with the ENGINEER through CONTRACTOR.

- 6.10. The divisions and sections of the Specifications and the identifications of any Drawings shall not control CONTRACTOR in dividing the Work among Subcontractors or Suppliers or delineating the Work to be performed by any specific trade.
- 6.11. All Work performed for CONTRACTOR by a Subcontractor or Supplier will be pursuant to an appropriate agreement between CONTRACTOR and the Subcontractor or Supplier which specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract Documents for the benefit of OWNER and ENGINEER. Whenever any such agreement is with a Subcontractor or Supplier who is listed as an additional insured on the property insurance provided in paragraph 5.6 or 5.7, the agreement between the CONTRACTOR and the Subcontractor or Supplier will contain provisions whereby the Subcontractor or Supplier waives all rights against OWNER, CONTRACTOR, ENGINEER, ENGINEER's Consultants and all other additional insureds for all losses and damages caused by, arising out of or resulting from any of the perils covered by such policies and any other property insurance applicable to the Work. If the insurers on any such policies require separate waiver forms to be signed by any Subcontractor or Supplier, CONTRACTOR will obtain the same.

#### Patent Fees and Royalties:

6.12. CONTRACTOR shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product or device which is the subject of patent rights or copyrights held by others. If a particular invention, design, process, product or device is specified in the Contract Documents for use in the performance of the Work and if to the actual knowledge of OWNER or ENGINEER its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights shall be disclosed by OWNER in the Contract Documents. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER, ENGINEER's Consultants and the officers, directors, employees, agents and other consultants of each and any of them from and against all claims, costs, losses and damages arising out of or resulting from any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product or device not specified in the Contract Documents.

#### Permits:

6.13. Unless otherwise provided in the Supplementary Conditions, CONTRACTOR shall obtain and pay for all construction permits and licenses. OWNER shall assist CONTRACTOR, when necessary, in obtaining such permits and licenses. CONTRACTOR shall pay all governmental charges and inspection fees necessary for the prosecution of the Work, which are applicable at the time of opening of Bids, or, if there are no Bids, on the Effective Date of the Agreement. CONTRACTOR shall pay all charges of utility owners for connections to the Work, and OWNER shall pay all charges of such utility owners for capital costs related thereto such as plant investment fees.

#### Laws and Regulations:

6.14.1. CONTRACTOR shall give all notices and comply with all Laws and Regulations applicable to furnishing and performance of the Work. Except where otherwise expressly required by applicable Laws and Regulations, neither OWNER nor ENGINEER shall be responsible for monitoring CONTRACTOR's compliance with any Laws or Regulations.

6.14.2. If CONTRACTOR performs any Work knowing or having reason to know that it is contrary to Laws or Regulations, CONTRACTOR shall bear all claims, costs, losses and damages caused by, arising out of or resulting there from; however, it shall not be CONTRACTOR's primary responsibility to make certain that the Specifications and Drawings are in accordance with Laws and Regulations, but this shall not relieve CONTRACTOR or CONTRACTOR's obligations under paragraph 3.3.2.

#### Taxes:

6.15. CONTRACTOR shall pay all sales, consumer, use and other similar taxes required to be paid by CONTRACTOR in accordance with Laws and Regulations of the place of the Project which are applicable during the performance of the Work.

#### Use of Premises:

- CONTRACTOR shall confine construction equipment, the storage of materials and equipment and the operations of workers to the site and land and areas identified in and permitted by the Contract Documents and other land and areas permitted by Laws and Regulations, rights-of-way, permits and easements, and shall not unreasonably encumber the premises with construction equipment or other materials or equipment. CONTRACTOR shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof or of any adjacent land or areas, resulting from the performance of the Work. Should any claim be made by any such owner or occupant because of the performance of the Work, CONTRACTOR shall promptly settle with such other party by negotiation or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law. CONTRACTOR shall, to the fullest extent permitted by Laws and Regulations, indemnify and hold harmless OWNER, ENGINEER, ENGINEER's Consultant and anyone directly or indirectly employed by any of them from and against all claims, costs, losses and damages arising out of or resulting from any claim or action, legal or equitable, brought by any such owner or occupant against OWNER, ENGINEER or any other party indemnified hereunder to the extent caused by or based upon CONTRACTOR's performance of the Work.
- 6.17. During the progress of the Work, CONTRACTOR shall keep the premises free from accumulations of waste materials, rubbish and other debris resulting from the Work. At the completion of the Work CONTRACTOR shall remove all waste materials, rubbish and debris from and about the premises as well as all tools, appliances, construction equipment and machinery and surplus materials. CONTRACTOR shall leave the site clean and ready for occupancy by OWNER at Substantial Completion of the Work. CONTRACTOR shall restore to original condition all property not designated for alteration by the Contract Documents.
- 6.18. CONTRACTOR shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall CONTRACTOR subject any part of the Work or adjacent property to stresses or pressures that will endanger it.

#### Record Documents:

6.19. CONTRACTOR shall maintain in a safe place at the site one record copy of all Drawings, Specifications, Addenda, Written Amendments, Change Orders, Work Change Directives, Field Orders and written interpretations and clarifications (issued pursuant to paragraph 9.4) in good order and annotated to show all changes made during construction. These record documents together with all

approved Samples and a counter part of all approved Shop Drawings will be available to ENGINEER for reference. Upon completion of the Work, these record documents, Samples and Shop Drawings will be delivered to ENGINEER for OWNER.

#### Safety and Protection:

- 6.20. CONTRACTOR shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. CONTRACTOR shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:
  - 6.20.1. all persons on the Work site or who may be affected by the Work;
  - 6.20.2. all the Work and materials and equipment to be incorporated therein, whether in storage on or off the site; and
  - 6.20.3. other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities and Underground Facilities not designated for removal, relocation or replacement in the course of construction.

CONTRACTOR shall comply with all applicable Laws and Regulations of any public body having jurisdiction for safety of persons or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection. CONTRACTOR shall notify owners of adjacent property and of Underground Facilities and utility owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation and replacement of their property. All damage, injury or loss to any property referred to in paragraph 6.20.2 or 6.20.3 caused, directly or indirectly, in whole or in part, by CONTRACTOR, any Subcontractor, Supplier or any other person or organization directly or indirectly employed by any of them to perform or furnish any of the Work or anyone for whose acts any of them may be liable, shall be remedied by CONTRACTOR (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of OWNER or ENGINEER or ENGINEER's Consultant or anyone employed by any of them or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of CONTRACTOR or any Subcontractor, Supplier or other person or organization directly or indirectly employed by any of them). CONTRACTOR's duties and responsibilities for safety and for protection of the Work shall continue until such time as all the Work is completed and ENGINEER has issued a notice to OWNER and CONTRACTOR in accordance with paragraph 14.13 that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).

#### Safety Representative:

6.21. CONTRACTOR shall designate a qualified and experienced safety representative at the site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

#### Hazard Communication Program:

6.22. CONTRACTOR shall be responsible for coordinating any exchange of material safety data sheets or other hazard communication information required to be made available to or exchanged between or among employers at the site in accordance with Laws or Regulations.

#### Emergencies:

6.23. In emergencies affecting the safety or protection of persons or the Work or property at the site or adjacent thereto, CONTRACTOR, without special instruction or authorization from OWNER or ENGINEER, is obligated to act to prevent threatened damage, injury or loss. CONTRACTOR shall give ENGINEER prompt written notice if CONTRACTOR believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby. If ENGINEER determines that a change in the Contract Documents is required because of the action taken by CONTRACTOR in response to such an emergency, a Work Change Directive or Change Order will be issued to document the consequences of such action.

#### 6.24. Shop Drawings and Samples:

- 6.24.1. CONTRACTOR shall submit Shop Drawings to ENGINEER for review and approval in accordance with the accepted schedule of Shop Drawings and Sample submittals (see paragraph 2.9). All submittals will be identified as ENGINEER may require and in the number of copies specified in the General Requirements. The data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials and similar data to show ENGINEER the materials and equipment CONTRACTOR proposes to provide and to enable ENGINEER to review the information for the limited purposes required by paragraph 6.26.
- 6.24.2. CONTRACTOR shall also submit Samples to ENGINEER for review and approval in accordance with said accepted schedule of Shop Drawings and Sample submittals. Each Sample will be identified clearly as to material, Supplier, pertinent data such as catalog numbers and the use for which intended and otherwise as ENGINEER may require to enable ENGINEER to review the submittal for the limited purposes required by paragraph 6.26. The numbers of each Sample to be submitted will be as specified in the Specifications.

#### 6.25. Submittal Procedures:

- 6.25.1. Before submitting each Shop Drawing or Sample, CONTRACTOR shall have determined and verified:
  - 6.25.1.1. all field measurements, quantities, dimensions, specified performance criteria, installation requirements, materials, catalog numbers and similar information with respect thereto.
  - 6.25.1.2. all materials with respect to intended use, fabrication, shipping, handling, storage, assembly and installation pertaining to the performance of the Work, and
  - 6.25.1.3. all information relative to CONTRACTOR's sole responsibilities in respect of means, methods, techniques, sequences and procedures of construction and safety precautions and programs incident thereto.

CONTRACTOR shall also have reviewed and coordinated each Shop Drawing or Sample with other Shop Drawings and Samples and with the requirements of the Work and the Contract Documents.

6.25.2. Each submittal will bear a stamp or specific written indication that CONTRACTOR has satisfied CONTRACTOR's obligations under the Contract Documents with respect to CONTRACTOR's review and approval of that submittal.

- 6.25.3. At the time of each submission, CONTRACTOR shall give ENGINEER specific written notice of such variations, if any, that the Shop Drawings or Sample submitted may have from the requirements of the Contract Documents, such notice to be in a written communication separate from the submittal; and, in addition, shall cause a specific notation to be made on each Shop Drawing and Sample submitted to ENGINEER for review and approval of each such variation.
- ENGINEER will review and approve Shop Drawings and Samples in accordance with the schedule of Shop Drawings and Sample submittals accepted by ENGINEER as required by paragraph 2.9. ENGINEER's review and approval will be only to determine if the items covered by the submittals will, after installation or incorporation in the Work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed project as a functioning whole as indicated by the Contract Documents. ENGINEER's review and approval will not extend to means, methods, techniques, sequences or procedures of construction (except where particular means, method, technique, sequence or procedure of construction is specifically and expressly called for by the Contract Documents) or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions. CONTRACTOR shall make corrections required by ENGINEER, and shall return the required number of corrected copies of Shop Drawings and submit as required new Samples for review and approval. CONTRACTOR shall direct specific attention in writing to revisions other than the corrections called for by ENGINEER on previous submittals.
- 6.27. ENGINEER's review and approval of Shop Drawings or Samples shall not relieve CONTRACTOR from responsibility for any variation from the requirements of the Contract Documents unless CONTRACTOR has in writing called ENGINEER's attention to each such variation at the time of submission as required by paragraph 6.25.3 and ENGINEER has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample approval; nor will any approval by ENGINEER relieve CONTRACTOR from responsibility for complying with the requirements of paragraph 6.25.1.
- 6.28. Where a Shop Drawing or Sample is required by the Contract Documents or the schedule of Shop Drawings and Sample submissions accepted by ENGINEER as required by paragraph 2.9, any related Work performed prior to ENGINEER's review and approval of the pertinent submittal will be at the sole expense and responsibility of CONTRACTOR.

#### Continuing the Work:

6.29. CONTRACTOR shall carry on the Work and adhere to the progress schedule during all disputes or disagreements with OWNER. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, except as permitted by paragraph 15.5 or as OWNER and CONTRACTOR may otherwise agree in writing.

#### 6.30. CONTRACTOR's General Warranty and Guarantee

6.30.1. CONTRACTOR warrants and guarantees to OWNER, ENGINEER and ENGINEER's Consultants that all Work will be in accordance with the Contract Documents and will not be *defective*. CONTRACTOR's warranty and guarantee hereunder excludes defects or damage caused by:

- 6.30.1.1. abuse, modification or improper maintenance or operation by persons other than CONTRACTOR, Subcontractors or Suppliers; or
  - 6.30.1.2. normal wear and tear under normal usage.
- 6.30.2. CONTRACTOR's obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents or a release of CONTRACTOR's obligation to perform the Work in accordance with the Contract Documents:
  - 6.30.2.1. observations by ENGINEER;
  - 6.30.2.2. recommendation of any progress or final payment by ENGINEER;
  - 6.30.2.3. the issuance of a certificate of Substantial Completion or any payment by OWNER to CONTRACTOR under the Contract Documents;
  - 6.30.2.4. use or occupancy of the Work or any part thereof by OWNER;
  - 6.30.2.5. any acceptance by OWNER or any failure to do so;
  - 6.30.2.6. any review and approval of a Shop Drawing or Sample submittal or the issuance of a notice of acceptability by ENGINEER pursuant to paragraph 14.13;
    - 6.30.2.7. any inspection, test or approval by others; or
    - 6.30.2.8. any correction of defective Work by OWNER.

#### Indemnification:

- To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER, ENGINEER's Consultants and the officers, directors, employees, agents and other consultants of each and any of them from and against all claims, costs, losses and damages (including but not limited to all fees and charges of engineers, architects, attorneys and other professionals and all court or arbitration or other dispute resolution costs) caused by, arising out of or resulting from the performance of the Work, provided that any such claim, cost, loss or damage: (i) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting there from, and (ii) is caused in whole or in part by any negligent act or omission of CONTRACTOR, any Subcontractor, any Supplier, any person or organization directly or indirectly employed by any of them to perform or furnish any of the Work or anyone for whose acts any of them may be liable, regardless of whether or not caused in part by any negligence or omission of a person or entity indemnified hereunder or whether liability is imposed upon such indemnified party by Laws and Regulations regardless of the negligence of any such person or entity.
- 6.32. In any and all claims against OWNER or ENGINEER or any of their respective consultants, agents, officers, directors or employees by any employee (or the survivor or personal representative of such employee) of CONTRACTOR, any Subcontractor, any Supplier, any person or organization directly or indirectly employed by any of them

to perform or furnish any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under paragraph 6.31 shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for CONTRACTOR or any such Subcontractor, Supplier or other person or organization under workers' compensation acts, disability benefit acts or other employee benefit acts.

6.33. The indemnification obligations of CONTRACTOR under paragraph 6.31 shall not extend to the liability of ENGINEER and ENGINEER's Consultants, officers, directors, employees or agents caused by the professional negligence errors or omissions of any of them

#### Survival of Obligations:

6.34. All representatives, indemnifications, warranties and guarantees made in, required by or given in accordance with the Contract Documents, as well as all continuing obligations indicated in the Contract Documents, will survive final payment, completion and acceptance of the Work and termination or completion of the Agreement.

#### ARTICLE 7--OTHER WORK

#### Related Work at Site:

- 7.1. OWNER may perform other work related to the Project at the site by OWNER's own forces, or let other direct contracts therefore which shall contain General Conditions similar to these, or have other work performed by utility owners. If the fact that such other work is to be performed was not noted in the Contract Documents, then: (i) written notice thereof will be given to CONTRACTOR prior to starting any such other work, and (ii) CONTRACTOR may make a claim therefore as provided in Articles 11 and 12 if CONTRACTOR believes that such performance will involve additional expense to CONTRACTOR or requires additional time and the parties are unable to agree as to the amount or extent thereof.
- 7.2. CONTRACTOR shall afford each other contractor who is a party to such a direct contract and each utility owner (and OWNER, if OWNER is performing the additional work with OWNER's employees) proper and safe access to the site and a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work and shall properly connect and coordinate the Work with theirs. Unless otherwise provided in the Contract Documents, CONTRACTOR shall do all cutting, fitting and patching of the Work that may be required to make its several parts come together properly and integrate with such other work. CONTRACTOR shall not endanger any work of others by cutting, excavating or otherwise altering their work and will only cut or alter their work with the written consent of ENGINEER and the others whose work will be affected. The duties and responsibilities of CONTRACTOR under this paragraph are for the benefit of such utility owners and other contractors to the extent that there are comparable provisions for the benefit of CONTRACTOR in said direct contracts between OWNER and such utility owners and other contractors.
- 7.3. If the proper execution or results of any part of CONTRACTOR's Work depends upon work performed by others under this Article 7, CONTRACTOR shall inspect such other work and promptly report to ENGINEER in writing any delays, defects or deficiencies in such other work that render it unavailable or unsuitable

for the proper execution and results of CONTRACTOR's Work. CONTRACTOR's failure so to report will constitute an acceptance of such other work as fit and proper for integration with CONTRACTOR's Work except for latent or nonapparent defects and deficiencies in such other work.

#### Coordination:

- 7.4. If OWNER contracts with others for the performance of other work on the Project at the site, the following will be set forth in Supplementary Conditions:
  - 7.4.1. the person, firm or corporation who will have authority and responsibility for coordination of the activities among the various prime contractors will be identified;
  - 7.4.2. the specific matters to be covered by such authority and responsibility will be itemized; and
  - 7.4.3. the extent of such authority and responsibilities will be provided.

Unless otherwise provided in the Supplementary Conditions, OWNER shall have sole authority and responsibility in respect of such coordination.

#### ARTICLE 8--OWNER'S RESPONSIBILITIES

- 8.1. Except as otherwise provided in these General Conditions, OWNER shall issue all communications to CONTRACTOR through ENGINEER.
- 8.2. In case of termination of the employment of ENGINEER, OWNER shall appoint an engineer against whom CONTRACTOR makes no reasonable objection, whose status under the Contract Documents shall be that of the former ENGINEER.
- 8.3. OWNER shall furnish the data required of OWNER under the Contract Documents promptly and shall make payments to CONTRACTOR promptly when they are due as provided in paragraphs 14.4 and 14.13.
- 8.4. OWNER's duties in respect of providing lands and easements and providing engineering surveys to establish reference points are set forth in paragraphs 4.1 and 4.4. Paragraph 4.2 refers to OWNER's identifying and making available to CONTRACTOR copies of reports of explorations and tests of subsurface conditions at the site and drawings of physical conditions in existing structures at or contiguous to the site that have been utilized by ENGINEER in preparing the Contract Documents.
- 8.5. OWNER's responsibilities in respect of purchasing and maintaining liability and property insurance are set forth in paragraphs 5.5 through 5.10.
- 8.6. OWNER is obligated to execute Change Orders as indicated in paragraph 10.4.
- 8.7. OWNER's responsibility in respect of certain inspections, tests and approvals is set forth in paragraph 13.4.

- 8.8. In connection with OWNER's right to stop Work or suspend Work, see paragraphs 13.10 and 15.1. Paragraph 15.2 deals with OWNER's right to terminate services of CONTRACTOR under certain circumstances.
- 8.9. The OWNER shall not supervise, direct or have control or authority over, nor be responsible for, CONTRACTOR's means, methods, techniques, sequences or procedures of construction or the safety precautions and programs incident thereto, or for any failure of CONTRACTOR to comply with Laws and Regulations applicable to the furnishing or performance of the Work. OWNER will not be responsible for CONTRACTOR's failure to perform or furnish the Work in accordance with the Contract Documents.
- 8.10. OWNER's responsibility in respect of undisclosed Asbestos, PCBs, Petroleum, Hazardous Waste or Radioactive Materials uncovered or revealed at the site is set forth in paragraph 4.5.
- 8.11. If and to the extent OWNER has agreed to furnish CONTRACTOR reasonable evidence that financial arrangements have been made to satisfy OWNER's obligations under the Contract Documents, OWNER's responsibility in respect thereof will be as set forth in the Supplementary Conditions.

#### ARTICLE 9--ENGINEER'S STATUS DURING CONSTRUCTION

#### OWNER's Representative:

9.1. ENGINEER will be OWNER's representative during the construction period. The duties and responsibilities and the limitations of authority of ENGINEER as OWNER's representative during construction are set forth in the Contract Documents and shall not be extended without written consent of OWNER and ENGINEER.

#### Visits to Site:

9.2. ENGINEER will make visits to the site at intervals appropriate to the various stages of construction as ENGINEER deems necessary in order to observe as an experienced and qualified design professional the progress that has been made and the quality of the various aspects of CONTRACTOR's executed Work. Based on information obtained during such visits and observations, ENGINEER will endeavor for the benefit of OWNER to determine, in general, if the Work is proceeding in accordance with the Contract Documents. ENGINEER will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. ENGINEER's efforts will be directed toward providing for OWNER a greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and on-site observations, ENGINEER will keep OWNER informed of the progress of the Work and will endeavor to guard OWNER against defective Work. ENGINEER's visits and on-site observations are subject to all the limitations on ENGINEER's authority and responsibility set forth in paragraph 9.13, and particularly, but without limitation, during or as a result of ENGINEER's on-site visits or observations of CONTRACTOR'S Work ENGINEER will not supervise, direct, control or have authority over or be responsible for CONTRACTOR's means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of CONTRACTOR to comply with Laws and Regulations applicable to the furnishing or performance of the Work.

#### Project Representative:

9.3. If OWNER and ENGINEER agree, ENGINEER will furnish a Resident Project Representative to assist ENGINEER in providing more continuous observation of the Work. The responsibilities and authority and limitations thereon of any such Resident Project Representative and assistants will be as provided in paragraph 9.13 and in the Supplementary Conditions. If OWNER designates another representative or agent to represent OWNER at the site who is not ENGINEER's Consultant, agent or employee, the responsibilities and authority and limitations thereon of such other person will be as provided in the Supplementary Conditions.

#### Clarifications and Interpretations:

9.4. ENGINEER will issue with reasonable promptness such written clarifications or interpretations of the requirements of the Contract Documents (in the form of Drawings or otherwise) as ENGINEER may determine necessary, which shall be consistent with the intent of and reasonably inferable from Contract Documents. Such written clarifications and interpretations will be binding on OWNER and CONTRACTOR. If OWNER or CONTRACTOR believes that a written clarification or interpretation justifies an adjustment in the Contract Price or the Contract Times and the parties are unable to agree to the amount or extent thereof, if any, OWNER or CONTRACTOR may make a written claim therefore as provided in Article 11 or Article 12.

#### Authorized Variations in Work:

9.5. ENGINEER may authorize minor variations in the Work from the requirements of the Contract Documents which do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. These may be accomplished by a Field Order and will be binding on OWNER and also on CONTRACTOR who shall perform the Work involved promptly. If OWNER or CONTRACTOR believes that a Field Order justifies an adjustment in the Contract Price or the Contract Times and the parties are unable to agree as to the amount or extent thereof, OWNER or CONTRACTOR may make a written claim therefore as provided in Article 11 or 12.

#### Rejecting Defective Work:

9.6. ENGINEER will have authority to disapprove or reject Work which ENGINEER believes to be *defective*, or that ENGINEER believes will not produce a completed Project that conforms to the Contract Documents or that will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. ENGINEER will also have authority to require special inspection or testing of the Work as provided in paragraph 13.9, whether or not the Work is fabricated, installed or completed.

# Shop Drawings, Change Orders and Payments:

- 9.7. In connection with ENGINEER's authority as to Shop Drawings and Samples, see paragraphs 6.24 through 6.28 inclusive.
- 9.8. In connection with ENGINEER's authority as to Change Orders, see Articles 10, 11, and 12.
- 9.9. In connection with ENGINEER's authority as to Applications for Payment, see Article 14.

#### **Determinations for Unit Price:**

ENGINEER will determine the actual quantities and classifications of Unit Price Work performed by CONTRACTOR. ENGINEER will review with CONTRACTOR the ENGINEER's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise). ENGINEER's written decision thereon will be final and binding upon OWNER and CONTRACTOR, unless, within ten days after the date of any such decision, either OWNER or CONTRACTOR delivers to the other and to ENGINEER written notice of intention to appeal from ENGINEER's decision and: (i) an appeal from ENGINEER's decision is taken within the time limits and in accordance with the procedures set forth in Exhibit GC-A, "Dispute Resolution Agreement," entered into between OWNER and CONTRACTOR pursuant to Article 16, or (ii) if no such Dispute Resolution Agreement has been entered into, a formal proceeding is instituted by the appealing party in a forum of competent jurisdiction to exercise such rights or remedies as the appealing party may have with respect to ENGINEER's decision, unless otherwise agreed in writing by OWNER and CONTRACTOR. Such appeal will not be subject to the procedures of paragraph 9.11.

#### Decisions on Disputes:

9.11. ENGINEER will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the Work Claims, disputes and other matters relating to the acceptability of the Work or the interpretation of the requirements of the Contract Documents pertaining to the performance and furnishing of the Work and Claims under Articles 11 and 12 in respect of changes in the Contract Price or Contract Times will be referred initially to ENGINEER in writing with a request for a formal decision in accordance with this paragraph. Written notice of each such claim, dispute or other matter will be delivered by the claimant to ENGINEER and the other party to the Agreement promptly (but in no event later than thirty days) after the start of the occurrence or event giving rise thereto, and written supporting data will be submitted to ENGINEER and the other party within sixty days after the start of such occurrence or event unless ENGINEER allows an additional period of time for the submission of additional or more accurate data in support of such claim, dispute or other matter. The opposing party shall submit any response to ENGINEER and the claimant within thirty days after receipt of the claimant's last submittal (unless ENGINEER allows additional time). ENGINEER will render a formal decision in writing within thirty days after receipt of the opposing party's submittal, if any, in accordance with this paragraph. ENGINEER's written decision on such claim, dispute or other matter will be final and binding upon OWNER and CONTRACTOR unless: (i) an appeal from ENGINEER's decision is taken within the time limits and in accordance with the procedures set forth in EXHIBIT GC-A, "Dispute Resolution Agreement," entered into between OWNER and CONTRACTOR pursuant to Article 16, or (ii) if no such Dispute Resolution Agreement has been entered into, a written notice of intention to appeal from ENGINEER's written decision is delivered by OWNER or CONTRACTOR to the other and to ENGINEER within thirty days after the date of such decision and a formal proceeding is instituted by the appealing party in a forum of competent jurisdiction to exercise such rights or remedies as the appealing party may have with respect to such claim, dispute or other matter in accordance with applicable Laws and Regulations within sixty days of the date of such decision, unless otherwise agreed in writing by OWNER and CONTRACTOR.

9.12. When functioning as interpreter and judge under paragraphs 9.10 and 9.11, ENGINEER will not show partiality to OWNER or CONTRACTOR and will not be liable in connection with any interpretation or decision rendered in good faith in such capacity. The rendering of a decision by ENGINEER pursuant to paragraphs 9.10 or

9.11 with respect to any such claim, dispute or other matter (except any which have been waived by the making or acceptance of final payment as provided in paragraph 14.16) will be a condition precedent to any exercise by OWNER or CONTRACTOR of such rights or remedies as either may otherwise have under the Contract Documents or by Laws or Regulations in respect of any such claim, dispute or other matter pursuant to Article 16.

#### 9.13. Limitations on ENGINEER's Authority and Responsibilities:

- 9.13.1. Neither ENGINEER's authority or responsibility under this Article 9 or under any other provision of the Contract Documents nor any decision made by ENGINEER in good faith either to exercise or not exercise such authority or responsibility or the undertaking, exercise or performance of any authority or responsibility by ENGINEER shall create, impose or give rise to any duty owed by ENGINEER to CONTRACTOR, any Subcontractor, any Supplier, any other person or organization, or to any surety for or employee or agent of any of them.
- 9.13.2. ENGINEER will not supervise, direct, control or have authority over or be responsible for CONTRACTOR's means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of CONTRACTOR to comply with Laws and Regulations applicable to the furnishing or performance of the Work. ENGINEER will not be responsible for CONTRACTOR's failure to perform or furnish the Work in accordance with the Contract Documents.
- 9.13.3. ENGINEER will not be responsible for the acts or omissions of CONTRACTOR or of any Subcontractor, any Supplier, or of any other person or organization performing or furnishing any of the Work.
- 9.13.4. ENGINEER's review of the final Application for Payment and accompanying documentation and all maintenance and operating instructions, schedules, guarantees, bonds and certificates of inspection, tests and approvals and Other documentation required to be delivered by paragraph 14.12 will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests and approvals that the results certified indicate compliance with, the Contract Documents.
- 9.13.5. The limitations upon authority and responsibility set forth in this paragraph 9.13 shall also apply to ENGINEER's Consultants, Resident Project Representative and assistants.

# ARTICLE 10--CHANGES IN THE WORK

- 10.1. Without invalidating the Agreement and without notice to any surety, OWNER may, at any time or from time to time, order additions, deletions or revisions in the Work. Such additions, deletions or revisions will be authorized by a Written Amendment, a Change Order, or a Work Change Directive. Upon receipt of any such document, CONTRACTOR shall promptly proceed with the Work involved which will be performed under the applicable conditions of the Contract Documents (except as otherwise specifically provided).
- 10.2. If OWNER and CONTRACTOR are unable to agree as to the extent, if any, of an adjustment in the Contract Price or an adjustment of the Contract Times that should be allowed as a result of a Work

Change Directive, a claim may be made therefore as provided in Article 11 or Article 12.

- 10.3. CONTRACTOR shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any Work performed that is not required by the Contract Documents as amended, modified and supplemented as provided in paragraphs 3.5 and 3.6 except in the case of any emergency as provided in paragraph 6.23 or in the case of uncovering Work as provided in paragraph 13.9.
- 10.4. OWNER and CONTRACTOR shall execute appropriate Change Orders recommended by ENGINEER (or Written Amendments) covering:
  - 10.4.1. changes in the Work which are (i) ordered by OWNER pursuant to paragraph 10.1, (ii) required because of acceptance of *defective* Work under paragraph 13.13 or correcting *defective* Work under paragraph 13.14, or (iii) agreed to by the parties;
  - 10.4.2. changes in the Contract Price or Contract Times which are agreed to by the parties; and
  - 10.4.3. changes in the Contract Price or Contract Times which embody the substance of any written decision rendered by ENGINEER pursuant to paragraph 9.11;

provided that, in lieu of executing any such Change Order, an appeal may be taken from any such decision in accordance with the provisions of the Contract Documents and applicable Laws and Regulations, but during any such appeal, CONTRACTOR shall carry on the Work and adhere to the progress schedule as provided in paragraph 6.29.

10.5. If notice of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times) is required by the provisions of any Bond to be given to a surety, the giving of any such notice will be CONTRACTOR's responsibility, and the amount of each applicable Bond will be adjusted accordingly.

# ARTICLE 11--CHANGE OF CONTRACT PRICE

- 11.1. The Contract Price constitutes the total compensation (subject to authorized adjustments) payable to CONTRACTOR for performing the Work. All duties, responsibilities and obligations assigned to or undertaken by CONTRACTOR shall be at CONTRACTOR's expense without change in the Contract Price.
- 11.2. The Contract Price may only be changed by a Change Order or by a Written Amendment. Any claim for an adjustment in the Contract Price shall be based on written notice delivered by the party making the claim to the other party and to ENGINEER promptly (but in no event later than thirty days) after the start of the occurrence or event giving rise to the claim and stating the general nature of the claim. Notice of the amount of the claim with supporting data shall be delivered within sixty days after the start of such occurrence or event (unless ENGINEER allows additional time for claimant to submit additional or more accurate data in support of the claim) and shall be accompanied by claimant's written statement that the adjustment claimed covers all known amounts to which the claimant is entitled as a result of said occurrence or event. All claims for adjustment in the Contract Price shall be determined by ENGINEER in accordance with paragraph 9.11 if OWNER and CONTRACTOR cannot otherwise

agree on the amount involved. No claim for an adjustment in the Contract Price will be valid if not submitted in accordance with this paragraph 11.2.

- 11.3. The value of any Work covered by a Change Order or of any claim for an adjustment in the Contract Price will be determined as follows:
  - 11.3.1. where the Work involved is covered by unit prices contained in the Contract Documents, by application of such unit prices to the quantities of the items involved (subject to the provisions of paragraphs 11.9.1 through 11.9.3, inclusive);
  - 11.3.2. where the Work involved is not covered by unit prices contained in the Contract Documents, by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with paragraph 11.6.2);
  - 11.3.3. where the Work involved is not covered by unit prices contained in the Contract Documents and agreement to a lump sum is not reached under paragraph 11.3.2, on the basis of the Cost of the Work (determined as provided in paragraphs 11.4 and 11.5) plus a CONTRACTOR's fee for overhead and profit (determined as provided in paragraph 11.6).

#### Cost of the Work:

- 11.4. The term Cost of the Work means the sum of all costs necessarily incurred and paid by Contractor in the proper performance of the Work. Except as otherwise may be agreed to in writing by OWNER, such costs shall be in amount no higher than those prevailing in the locality of the Project, shall include only the following items and shall not include any of the costs itemized in paragraph 11.5:
  - 11.4.1. Payroll costs for employees in the direct employ of CONTRACTOR in the performance of the Work under schedules of job classifications agreed upon by OWNER and CONTRACTOR. Such employees shall include without limitation superintendents, foremen and other personnel employed full-time at the site. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits which shall include social security contributions, unemployment, excise and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto. The expenses of performing Work after regular working hours, on Saturday, Sunday or legal holidays, shall be included in the above to the extent authorized by OWNER.
  - 11.4.2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts shall accrue to CONTRACTOR unless OWNER deposits funds with CONTRACTOR with which to make payments, in which case the cash discounts shall accrue to OWNER. All trade discounts, rebates and refunds and returns from sale of surplus materials and equipment shall accrue to OWNER, and CONTRACTOR shall make provisions so that they may be obtained.
  - 11.4.3. Payments made by CONTRACTOR to the Subcontractors for Work performed or furnished by Subcontractors. If required by OWNER, CONTRACTOR shall

obtain competitive bids from subcontractors acceptable to OWNER and CONTRACTOR and shall deliver such bids to OWNER who will then determine, with the advice of ENGINEER, which bids, if any, will be accepted. If any subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work Plus a fee, the Subcontractor's Cost of the Work and fee shall be determined in the same manner as CONTRACTOR's Cost of the Work and fee as provided in paragraphs 11.4, 11.5, 11.6 and 11.7. All subcontracts shall be subject to the other provisions of the Contract Documents insofar as applicable.

- 11.4.4. Costs of special consultants (including but not limited to engineers, architects, testing laboratories, surveyors, attorneys and accountants) employed for services specifically related to the Work
  - 11.4.5. Supplemental costs including the following:
    - 11.4.5.1. The proportion of necessary transportation, travel and subsistence expenses of CONTRACTOR's employees incurred in discharge of duties connected with the Work.
    - 11.4.5.2. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office and temporary facilities at the site and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost less market value of such items used but not consumed which remain the property of CONTRACTOR.
  - machinery and the parts thereof whether rented from CONTRACTOR or others in accordance with rental agreements approved by OWNER with the advice of ENGINEER, and the costs of transportation, loading, unloading, installation, dismantling and removal thereof--all in accordance with the terms of said rental agreements. The rental of any such equipment, machinery or parts shall cease when the use thereof is no longer necessary for the Work.
  - 11.4.5.4. Sales, consumer, use or similar taxes related to the Work, and for which CONTRACTOR is liable, imposed by Laws and Regulations.
  - 11.4.5.5. Deposits lost for causes other than negligence of CONTRACTOR, any Subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.
  - 11.4.5.6. Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by CONTRACTOR in connection with the performance and furnishing of the Work (except losses and damages within the deductible amounts of property insurance established by OWNER in accordance with paragraph 5.9), provided they have resulted from causes other than the negligence of CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of OWNER. No such losses, damages and expenses shall be included in the Cost of the Work for the purpose of determining CONTRACTOR's fee. If, however, any such loss or damage requires reconstruction and CONTRACTOR is

placed in charge thereof, CONTRACTOR shall be paid for services a fee proportionate to that stated in paragraph 11.6.2.

- 11.4.5.7. The cost of utilities, fuel and sanitary facilities at the site.
- 11.4.5.8. Minor expenses such as telegrams, long distance telephone calls, telephone service at the site, expressage and similar petty cash items in connection with the Work.
- 11.4.5.9. Cost of premiums for additional Bonds and insurance required because of changes in the Work.
- 11.5. The term Cost of the Work shall not include any of the following:
  - 11.5.1. Payroll costs and other compensation of CONTRACTOR's officers, executives, principals (of partnership and sole proprietorships), general managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expediters, timekeepers, clerks and other personnel employed by CONTRACTOR whether at the site or in CONTRACTOR's principal or a branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in paragraph 11.4.1. or specifically covered by paragraph 11.4.4--all of which are to be considered administrative costs covered by the CONTRACTOR's fee.
  - 11.5.2. Expenses of CONTRACTOR's principal and branch offices other than CONTRACTOR's office at the site.
  - 11.5.3. Any part of CONTRACTOR's capital expenses, including interest on CONTRACTOR's capital employed for the Work and charges against CONTRACTOR for delinquent payments.
  - 11.5.4. Cost of premiums for all Bonds and for all insurance whether or not CONTRACTOR is required by the Contract Documents to purchase and maintain the same (except for the cost of premiums covered by subparagraph 11.4.5.9 above).
  - 11.5.5. Costs due to the negligence of CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of *defective* Work, disposal of materials or equipment wrongly supplied and making good any damage to property.

Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in paragraph 11.4.

- 11.6. The CONTRACTOR's fee allowed to CONTRACTOR for overhead and profit shall be determined as follows:
  - 11.6.1. a mutually acceptable fixed fee

11.7. Whenever the cost of any Work is to be determined pursuant to paragraphs 11.4 and 11.5, CONTRACTOR will establish and maintain records thereof in accordance with generally accepted accounting practices and submit in form acceptable to ENGINEER an itemized cost breakdown together with supporting data.

#### Cash Allowance:

- 11.8. It is understood that CONTRACTOR has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be furnished and performed for such sums as may be acceptable to OWNER and ENGINEER. CONTRACTOR agrees that:
  - 11.8.1. the allowances include the cost to CONTRACTOR (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the site, and all applicable taxes; and
  - 11.8.2. CONTRACTOR's cost for unloading and handling on the site, labor, installation costs, overhead, profit and other expenses contemplated for the allowances have been included in the Contract Price and not in the allowances and no demand for additional payment on account of any of the foregoing will be valid

Prior to final payment, an appropriate Change Order will be issued as recommended by ENGINEER to reflect actual amounts due CONTRACTOR on account of Work covered by allowances, and the Contract Price shall be correspondingly adjusted.

#### 11.9. Unit Price Work:

- 11.9.1. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the established unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Determinations of the actual quantities and classifications of Unit Price Work performed by CONTRACTOR will be made by ENGINEER in accordance with paragraph 9.10.
- 11.9.2. Each unit price will be deemed to include an amount considered by CONTRACTOR to be adequate to cover CONTRACTOR's overhead and profit for each separately identified item.
- 11.9.3. OWNER or CONTRACTOR may make a claim for an adjustment in the Contract Price in accordance with Article 11 if:

- 11.9.3.1. the quantity of any item of Unit Price Work performed by CONTRACTOR differs materially and significantly from the estimated quantity of such item indicated in the Agreement; and
- 11.9.3.2. there is no corresponding adjustment with respect to any other item of Work; and
- 11.9.3.3. if CONTRACTOR believes that CONTRACTOR is entitled to an increase in Contract Price as a result of having incurred additional expense or OWNER believes that OWNER is entitled to a decrease in Contract Price and the parties are unable to agree as to the amount of any such increase or decrease.

#### ARTICLE 12--CHANGE OF CONTRACT TIMES

- 12.1. The Contract Times (or Milestones) may only be changed by a Change Order or a Written Amendment. Any claim for an adjustment of the Contract Times (or Milestones) shall be based on written notice delivered by the party making the claim to the other party and to ENGINEER promptly (but in no event later than thirty days) after the occurrence of the event giving rise to the claim and stating the general nature of the claim. Notice of the extent of the claim with supporting data shall be delivered within sixty days after such occurrence (unless ENGINEER allows an additional period of time to ascertain more accurate data in support of the claim) and shall be accompanied by the claimant's written statement that the adjustment claimed is the entire adjustment to which the claimant has reason to believe it is entitled as a result of the occurrence of said event. All claims for adjustment in the Contract Times (or Milestones) shall be determined by ENGINEER in accordance with paragraph 9.11 if OWNER and CONTRACTOR cannot otherwise agree. No claim for an adjustment in the Contract Times (or Milestones) will be valid if not submitted in accordance with the requirements of this paragraph 12.1.
- 12.2. All time limits stated in the Contract Documents are of the essence of the Agreement.
- 12.3. Where CONTRACTOR is prevented from completing any part of the Work within the Contract Times (or Milestones) due to delay beyond the control of CONTRACTOR, the Contract Times (or Milestones) will be extended in an amount equal to the time lost due to such delay if a claim is made therefore as provided in paragraph 12.1. Delays beyond the control of CONTRACTOR shall include, but not be limited to, acts or neglect by OWNER, acts or neglect of utility owners or other contractors performing other work as contemplated by Article 7, fires, floods, epidemics, abnormal weather conditions or acts of God. Delays attributable to and within the control of a Subcontractor or Supplier shall be deemed to be delays within the control of CONTRACTOR.
- 12.4. Where CONTRACTOR is prevented from completing any part of the Work within the Contract Times (or Milestones) due to delay beyond the control of both OWNER and CONTRACTOR, an extension of the Contract Times (or Milestones) in an amount equal to the time lost due to such delay shall be CONTRACTOR's sole and exclusive remedy for such delay. In no event shall OWNER be liable to CONTRACTOR, any Subcontractor, any Supplier, any other person or organization, or to any surety for or employee or agent of any of them, for damages arising out of or resulting from (i) delays caused by or within the control of CONTRACTOR, or (ii) delays beyond the control of both parties including but not limited to fires, floods,

epidemics, abnormal weather conditions, acts of God or acts or neglect by utility owners or other contractors performing other work as contemplated by Article 7.

#### ARTICLE 13--TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF *DEFECTIVE* WORK

13.1. Notice of Defects: Prompt notice of all defective Work of which OWNER or ENGINEER have actual knowledge will be given to CONTRACTOR. All defective Work may be rejected, corrected or accepted as provided in this Article 13.

#### Access to Work:

13.2. OWNER, ENGINEER, ENGINEER's Consultants, other representatives and personnel of OWNER, independent testing laboratories and governmental agencies with jurisdiction interests will have access to the Work at reasonable times for their observation, inspecting and testing. CONTRACTOR shall provide them proper and safe conditions for such access and advise them of CONTRACTOR's site safety procedures and programs so that they may comply therewith as applicable.

#### Tests and Inspections:

- 13.3. CONTRACTOR shall give ENGINEER timely notice of readiness of the Work for all required inspections, tests or approvals, and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.
- 13.4. OWNER shall employ and pay for the services of an independent testing laboratory to perform all inspections, tests, or approvals required by the Contract Documents except:
  - 13.4.1. for inspections, tests or approvals covered by paragraph 13.5 below;
  - 13.4.2. that costs incurred in connection with tests or inspections conducted pursuant to paragraph 13.9 below shall be paid as provided in said paragraph 13.9; and
  - 13.4.3. as otherwise specifically provided in the Contract Documents.
- 13.5. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested or approved by an employee or other representative of such public body, CONTRACTOR shall assume full responsibility for arranging and obtaining such inspections, tests or approvals, pay all costs in connection therewith, and furnish ENGINEER the required certificates of inspection, or approval. CONTRACTOR shall also be responsible for arranging and obtaining and shall pay all costs in connection with any inspections, tests or approvals required for OWNER's and ENGINEER's acceptance of materials or equipment to be incorporated in the Work, or of materials, mix designs, or equipment submitted for approval prior to CONTRACTOR's purchase thereof for incorporation in the Work.
- 13.6. If any Work (or the work of others) that is to be inspected, tested or approved is covered by CONTRACTOR without written concurrence of ENGINEER, it must, if requested by ENGINEER, be uncovered for observation.

13.7. Uncovering Work as provided in paragraph 13.6 shall be at CONTRACTOR's expense unless CONTRACTOR has given ENGINEER timely notice of CONTRACTOR's intention to cover the same and ENGINEER has not acted with reasonable promptness in response to such notice.

#### **Uncovering Work:**

- 13.8. If any Work is covered contrary to the written request of ENGINEER, it must, if requested by ENGINEER, be uncovered for ENGINEER's observation and replaced at CONTRACTOR's expense.
- If ENGINEER considers it necessary or advisable that covered Work be observed by ENGINEER or inspected or tested by others, CONTRACTOR, at ENGINEER's request, shall uncover, expose or otherwise make available for observation, inspection or testing as ENGINEER may require, that portion of the Work in question, furnishing all necessary labor, material and equipment. If it is found that such Work is defective, CONTRACTOR shall pay all claims, costs, losses and damages caused by, arising out of or resulting from such uncovering, exposure, observation, inspection and testing and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and OWNER shall be entitled to an appropriate decrease in the Contract Price, and, if the parties are unable to agree as to the amount thereof, may make a claim therefore as provided in Article 11. If, however, such Work is not found to be defective, CONTRACTOR shall be allowed an increase in the Contract Price or an extension of the Contract Times (or Milestones), or both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement and reconstruction; and, if the parties are unable to agree as to the amount or extent thereof, CONTRACTOR may make a claim therefore as provided in Articles 11 and 12.

# OWNER May Stop the Work:

13.10. If the Work is *defective*, or CONTRACTOR fails to supply sufficient skilled workers or suitable materials or equipment, or fails to furnish or perform the Work in such a way that the completed Work will conform to the Contract Documents, OWNER may order CONTRACTOR to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of OWNER to stop the Work shall not give rise to any duty on the part of OWNER to exercise this right for the benefit of CONTRACTOR or any surety or other party.

# Correction or Removal of Defective Work:

13.11. If required by ENGINEER, CONTRACTOR shall promptly, as directed, either correct all *defective* Work, whether or not fabricated, installed or completed, or, if the Work has been rejected by ENGINEER, remove it from the site and replace it with Work that is not *defective*. CONTRACTOR shall pay all claims, costs, losses and damages caused by or resulting from such correction or removal (including but not limited to all costs of repair or replacement of work of others).

# 13.12. Correction Period:

13.12.1. If within one year after the date of Substantial Completion or such longer period of time as may be prescribed by Laws or Regulations or by the terms of any applicable special guarantee required by the Contract Documents or by any specific provision of the Contract Documents, any Work is found to be *defective*, CONTRACTOR shall promptly, without cost to

OWNER and in accordance with OWNER's written instructions: (i) correct such defective Work, or, if it has been rejected by OWNER, remove it from the site and replace it with Work that is not defective, and (ii) satisfactorily correct or remove and replace any damage to other Work or the work of others resulting there from. If CONTRACTOR does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, OWNER may have the defective Work corrected or the rejected Work removed and replaced, and all claims, costs, losses and damages caused by or resulting from such removal and replacement (including but not limited to all costs of repair or replacement of work of others) will be paid by CONTRACTOR.

- 13.12.2. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications or by Written Amendment.
- 13.12.3. Where *defective* Work (and damage to other Work resulting there from) has been corrected, removed or replaced under this paragraph 13.12, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

#### Acceptance of Defective Work:

13.13. If, instead of requiring correction or removal and replacement of defective Work OWNER (and, prior to ENGINEER's recommendation of final payment, also ENGINEER) prefers to accept it, OWNER may do so. CONTRACTOR shall pay all claims, costs, losses and damages attributable to OWNER's evaluation of and determination to accept such defective Work (such costs to be approved by ENGINEER as to reasonableness). If any such acceptance occurs prior to ENGINEER's recommendation of final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work; and OWNER shall be entitled to an appropriate decrease in the Contract Price, and, if the parties are unable to agree as to the amount thereof, OWNER may make a claim therefore as provided in Article 11. If the acceptance occurs after such recommendation, an appropriate amount will be paid by CONTRACTOR to OWNER.

# OWNER May Correct Defective Work:

If CONTRACTOR fails within a reasonable time after written notice from ENGINEER to correct defective Work or to remove and replace rejected Work as required by ENGINEER in accordance with paragraph 13.11, of if CONTRACTOR fails to perform the Work in accordance with the Contract Documents, or if CONTRACTOR fails to comply with any other provision of the Contract Documents, OWNER may, after seven days' written notice to CONTRACTOR, correct and remedy any such deficiency. In exercising the rights and remedies under this paragraph OWNER shall proceed expeditiously. In connection with such corrective and remedial action, OWNER may exclude CONTRACTOR from all or part of the site, take possession of all or part of the Work, and suspend CONTRACTOR's services related thereto, take possession of CONTRACTOR's tools, appliances, construction equipment and machinery at the site and incorporate in the Work all materials and equipment stored at the site or for which OWNER has paid CONTRACTOR but which are stored elsewhere. CONTRACTOR shall allow OWNER, OWNER's representatives, agents and employees, OWNER's other contractors and ENGINEER and ENGINEER's Consultants access to the site to enable OWNER to

exercise the rights and remedies under this paragraph. All claims, costs, losses and damages incurred or sustained by OWNER in exercising such rights and remedies will be charged against CONTRACTOR and a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work; and OWNER shall be entitled to an appropriate decrease in the Contract Price, and, if the parties are unable to agree as to the amount thereof, OWNER may make a claim therefore as provided in Article 11. Such claims, costs, losses and damages will include but not be limited to all costs of repair or replacement of work of others destroyed or damaged by correction, removal or replacement of CONTRACTOR's defective Work. CONTRACTOR shall not be allowed an extension of the Contract Times (or Milestones) because of any delay in the performance of the Work attributable to the exercise by OWNER of OWNER's rights and remedies hereunder.

# ARTICLE 14--PAYMENTS TO CONTRACTOR AND COMPLETION

#### Schedule of Values:

14.1. The schedule of values established as provided in paragraph 2.9 will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to ENGINEER. Progress payments on account of Unit Price Work will be based on the number of units completed.

#### Application for Progress Payment

At least twenty days before the date established for each 14.2. progress payment (but not more often than once a month), CONTRACTOR shall submit to ENGINEER for review an Application for Payment filled out and signed by CONTRACTOR covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice or other documentation warranting that OWNER has received the materials and equipment free and clear of all Liens and evidence that the materials and equipment are covered by appropriate property insurance and other arrangements to protect OWNER's interest therein, all of which will be satisfactory to OWNER. The amount of retainage with respect to progress payments will be as stipulated in the Agreement.

#### CONTRACTOR's Warranty of Title:

14.3. CONTRACTOR warrants and guarantees that title to all Work, materials and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to OWNER no later than the time of payment free and clear of all Liens.

# Review of Applications for Progress Payment:

- 14.5. ENGINEER's recommendation of any payment requested in an Application for Payment will constitute a representation by ENGINEER to OWNER, based on ENGINEER's on-site observations of the executed Work as an experienced and qualified design professional and on ENGINEER's review of the Application for Payment and the accompanying data and schedules, that to the best of ENGINEER's knowledge, information and belief:
  - 14.5.1. the Work has progressed to the point indicated.
  - 14.5.2. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents, to a final determination of quantities and classifications for Unit Price Work under paragraph 9.10, and to any other qualifications stated in the recommendation), and
  - 14.5.3. the conditions precedent to CONTRACTOR's being entitled to such payment appear to have been fulfilled in so far as it is ENGINEER's responsibility to observe the Work.

However, by recommending any such payment ENGINEER will not thereby be deemed to have represented that: (i) exhaustive or continuous on-site inspections have been made to check the quality or the quantity of the Work beyond the responsibilities specifically assigned to ENGINEER in the Contract Documents or (ii) that there may not be other matters or issues between the parties that might entitle CONTRACTOR to be paid additionally by OWNER or entitle OWNER to withhold payment to CONTRACTOR.

- 14.6. ENGINEER's recommendation of any payment, including final payment, shall not mean that ENGINEER is responsible for CONTRACTOR's means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of CONTRACTOR to comply with Laws and Regulations applicable to the furnishing or performance of Work, or for any failure of CONTRACTOR to perform or furnish Work in accordance with the Contract Documents.
- 14.7. ENGINEER may refuse to recommend the whole or any part of any payment if, in ENGINEER's opinion, it would be incorrect to make the representations to OWNER referred to in paragraph 14.5. ENGINEER may also refuse to recommend any such payment, or, because of subsequently discovered evidence or the results of subsequent inspections or tests, nullify any such payment previously recommended, to such extent as may be necessary in ENGINEER's opinion to protect OWNER from loss because:
  - 14.7.1. the Work is *defective*, or completed Work has been damaged requiring correction or replacement,
  - 14.7.2. the Contract Price has been reduced by Written Amendment or Change Order,

- 14.7.3. OWNER has been required to correct *defective* Work or complete Work in accordance with paragraph 13.14, or
- 14.7.4. ENGINEER has actual knowledge of the occurrence of any of the events enumerated in paragraphs 15.2.1 through 15.2.4 inclusive.

OWNER may refuse to make payment of the full amount recommended by ENGINEER because:

- 14.7.5. claims have been made against OWNER on account of CONTRACTOR's performance or furnishing of the Work,
- 14.7.6. Liens have been filed in connection with the Work, except where CONTRACTOR has delivered a specific Bond satisfactory to OWNER to secure the satisfaction and discharge of such Liens.
- 14.7.7. there are other items entitling OWNER to a set-off against the amount recommended, or
- 14.7.8. OWNER has actual knowledge of the occurrence of any of the events enumerated in paragraphs 14.71. through 14.7.3 or paragraphs 15.2.1 through 15.2.4 inclusive;

but OWNER must have CONTRACTOR immediate written notice (with a copy to ENGINEER) stating the reasons for such action and promptly pay CONTRACTOR the amount so withheld, or any adjustment thereto agreed to by OWNER and CONTRACTOR, when CONTRACTOR corrects to OWNER's satisfaction the reasons for such action.

#### Substantial Completion:

14.8. When CONTRACTOR considers the entire Work ready for its intended use CONTRACTOR shall notify OWNER and ENGINEER in writing that the entire Work is substantially complete (except for items specifically listed by CONTRACTOR as incomplete) and request that ENGINEER issue a certificate of Substantial Completion. Within a reasonable time thereafter, OWNER, CONTRACTOR and ENGINEER shall make an inspection of the Work to determine the status of completion. If ENGINEER does not consider the Work substantially complete, ENGINEER will notify CONTRACTOR in writing giving the reasons therefore. If ENGINEER considers the Work substantially complete, ENGINEER will prepare and deliver to OWNER a tentative certificate of Substantial Completion which shall fix the date of Substantial Completion. There shall be attached to the certificate a tentative list of items to be completed or corrected before final payment. OWNER shall have seven days after receipt of the tentative certificate during which to make written objection to ENGINEER as to any provisions of the certificate or attached list. If, after considering such objections, ENGINEER concludes that the Work is not substantially complete, ENGINEER will within fourteen days after submission of the tentative certificate to OWNER notify CONTRACTOR in writing, stating the reasons therefore. If, after consideration of OWNER's objections, ENGINEER considers the Work substantially complete, ENGINEER will within said fourteen days execute and deliver to OWNER and CONTRACTOR a definitive certificate of Substantial Completion (with a revised tentative list of items to be completed or corrected) reflecting such changes from the tentative certificate as ENGINEER believes justified after consideration of any objections from OWNER. At the time of delivery of the tentative certificate of Substantial Completion ENGINEER will deliver to OWNER and CONTRACTOR a written recommendation as to division of responsibilities pending final payment between OWNER

and CONTRACTOR with respect to security, operation, safety, maintenance, heat, utilities, insurance and warranties and guarantees. Unless OWNER and CONTRACTOR agree otherwise in writing and so inform ENGINEER in writing prior to ENGINEER's issuing the definitive certificate of Substantial Completion, ENGINEER's aforesaid recommendation will be binding on OWNER and CONTRACTOR until final payment.

14.9. OWNER shall have the right to exclude CONTRACTOR from the Work after the date of Substantial Completion, but OWNER shall allow CONTRACTOR reasonable access to complete or correct items on the tentative list.

#### Partial Utilization:

- 14.10. Use by OWNER at OWNER's option of any substantially completed part of the Work which: (i) has specifically been identified in the Contract Documents, or (ii) OWNER, ENGINEER and CONTRACTOR agree constitutes a separately functioning and usable part of the Work that can be used by OWNER for its intended purpose without significant interference with CONTRACTOR's performance of the remainder of the Work, may be accomplished prior to Substantial Completion of all the Work subject to the following:
  - 14.10.1. OWNER at any time may request CONTRACTOR in writing to permit OWNER to use any such part of the Work which OWNER believes to be ready for its intended use and substantially complete. If CONTRACTOR agrees that such part of the Work is substantially complete, CONTRACTOR will certify to OWNER and ENGINEER that such part of the Work is substantially complete and request ENGINEER to issue a certificate of Substantial Completion for that part of the Work. CONTRACTOR at any time may notify OWNER and ENGINEER in writing that CONTRACTOR considers any such part of the Work ready for its intended use and substantially complete and request ENGINEER to issue a certificate of Substantial Completion for that part of the Work. Within a reasonable time after either such request, OWNER, CONTRACTOR and ENGINEER shall make an inspection of that part of the Work to determine its status of completion. If ENGINEER does not consider that part of the Work to be substantially complete, ENGINEER will notify OWNER and CONTRACTOR in writing giving the reasons therefore. If ENGINEER considers that part of the Work to be substantially complete, the provisions of paragraphs 14.8 and 14.9 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.
  - 14.10.2. No occupancy or separate operation of part of the Work will be accomplished prior to compliance with the requirements of paragraph 5.15 in respect of property insurance.

# Final Inspection:

14.11. Upon written notice from CONTRACTOR that the entire Work or an agreed portion thereof is complete, ENGINEER will make a final inspection with OWNER and CONTRACTOR and will notify CONTRACTOR in writing of all particulars in which this inspection reveals that the Work is incomplete or *defective*. CONTRACTOR shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

# Final Application for Payment:

14.12. After CONTRACTOR has completed all such corrections to the satisfaction of ENGINEER and delivered in accordance with the Contract Documents all maintenance and operating instructions, schedules, guarantees, Bonds, certificates or other evidence of insurance required by paragraph 5.4, certificates of inspection, markedup record documents (as provided in paragraph 6.19) and other documents, CONTRACTOR may make application for final payment following the procedure for progress payments. The final Application for Payment shall be accompanied (except as previously delivered) by: (i) all documentation called for in the Contract Documents, including but not limited to the evidence of insurance required by subparagraph 5.4.13, (ii) consent of the surety, if any, to final payment, and (iii) complete and legally effective releases or waivers (satisfactory to OWNER) of all Liens arising out of or filed in connection with the Work. In lieu of such releases or waivers of Liens and as approved by OWNER, CONTRACTOR may furnish receipts or releases in full and an affidavit of CONTRACTOR that: (i) the releases and receipts include all labor, services, material and equipment for which a Lien could be filed, and (ii) all payrolls, material and equipment bills and other indebtedness connected with the Work for which OWNER or OWNER's property might in any way be responsible have been paid or otherwise satisfied. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, CONTRACTOR may furnish a Bond or other collateral satisfactory to OWNER to indemnify OWNER against any Lien.

#### Final Payment and Acceptance:

If, on the basis of ENGINEER's observation of the Work during construction and final inspection, and ENGINEER's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, ENGINEER is satisfied that the Work has been completed and CONTRACTOR's other obligations under the Contract Documents have been fulfilled, ENGINEER will, within ten days after receipt of the final Application for Payment, indicate in writing ENGINEER's recommendation of payment and present the Application to OWNER for payment. At the same time ENGINEER will also give written notice to OWNER and CONTRACTOR that the Work is acceptable subject to the provisions Otherwise, ENGINEER will return the of paragraph 14.15. Application to CONTRACTOR, indicating in writing the reasons for refusing to recommend final payment, in which case CONTRACTOR shall make the necessary corrections and resubmit the Application.

14.14. If, through no fault of CONTRACTOR, final completion of the Work is significantly delayed and if ENGINEER so confirms, OWNER shall, upon receipt of CONTRACTOR's final Application for Payment and recommendation of ENGINEER, and without terminating the Agreement, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance to be held by OWNER for Work not fully completed or corrected is less than the retainage stipulated in the Agreement, and if Bonds have been furnished as required in paragraph 5.1, the written consent of the surety to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by CONTRACTOR to ENGINEER with the Application for such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

#### Waiver of Claims:

14.15. The making and acceptance of final payment will constitute:

14.15.1. a waiver of all claims by OWNER against CONTRACTOR, except claims arising from unsettled Liens, from defective Work appearing after final inspection pursuant to

paragraph 14.11, from failure to comply with the Contract Documents or the terms of any special guarantees specified therein, or from CONTRACTOR's continuing obligations under the Contract Documents; and

14.15.2. a waiver of all claims by CONTRACTOR against OWNER other than those previously made in writing and still unsettled.

#### ARTICLE 15--SUSPENSION OF WORK AND TERMINATION

#### OWNER May Suspend Work:

15.1. At any time and without cause, OWNER may suspend the Work, or any portion thereof for a period of not more than ninety days by notice in writing to CONTRACTOR and ENGINEER which will fix the date on which Work will be resumed. CONTRACTOR shall resume the Work on the date so fixed. CONTRACTOR shall be allowed an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension if CONTRACTOR makes an approved claim therefore as provided in Articles 11 and 12.

#### **OWNER May Terminate:**

- 15.2. Upon the occurrence of any one or more of the following events:
  - 15.2.1. if CONTRACTOR persistently fails to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the progress schedule established under paragraph 2.9 as adjusted from time to time pursuant to paragraph 6.6);
  - 15.2.2. if CONTRACTOR disregards Laws or Regulations of any public body having jurisdiction;
  - 15.2.3. if CONTRACTOR disregards the authority of ENGINEER: or
  - 15.2.4. if CONTRACTOR otherwise violates in any substantial way any provisions of the Contract Documents;

OWNER may, after giving CONTRACTOR (and the surety, if any,) seven days' written notice and to the extent permitted by Laws and Regulations, terminate the services of CONTRACTOR, exclude CONTRACTOR from the site and take possession of the Work and of all CONTRACTOR's tools, appliances, construction equipment and machinery at the site and use the same to the full extent they could be used by CONTRACTOR (without liability to CONTRACTOR for trespass or conversion), incorporate in the Work all materials and equipment stored at the site or for which Owner has paid CONTRACTOR but which are stored elsewhere, and finish the Work as OWNER may deem expedient. In such case CONTRACTOR shall not be entitled to receive any further payment until the Work is finished. If the unpaid balance of the Contract Price exceeds all claims, costs, losses and damages sustained by OWNER arising out of or resulting from completing the Work such excess will be paid to CONTRACTOR. If such claims, costs, losses and damages exceed such unpaid balance, CONTRACTOR shall pay the difference to OWNER. Such claims, costs, losses and damages incurred by

OWNER will be reviewed by ENGINEER as to their reasonableness and when so approved by ENGINEER incorporated in a Change Order, provided that when exercising any rights or remedies under this paragraph OWNER shall not be required to obtain the lowest price for the Work performed.

- 15.3. Where CONTRACTOR's services have been so terminated by OWNER, the termination will not affect any rights or remedies of OWNER against CONTRACTOR then existing or which may thereafter accrue. Any retention or payment of monies due CONTRACTOR by OWNER will not release CONTRACTOR from liability.
- 15.4. Upon seven day's written notice to CONTRACTOR and ENGINEER, OWNER may, without cause and without prejudice to any other right or remedy of OWNER, elect to terminate the Agreement. In such case, CONTRACTOR shall be paid (without duplication of any items);
  - 15.4.1. for completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;
  - 15.4.2. for expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses;
  - 15.4.3. for all claims, costs, losses and damages incurred in settlement of terminated contracts with Subcontractors, Suppliers and others; and
  - 15.4.4. for reasonable expenses directly attributable to termination.

CONTRACTOR shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

#### **CONTRACTOR May Stop Work or Terminate:**

15.5. If, through no act or fault of CONTRACTOR, the Work is suspended for a period of more than ninety days by OWNER or under an order of court or other public authority, or ENGINEER fails to act on any Application of Payment within thirty days after it is submitted or OWNER fails for thirty days to pay CONTRACTOR any sum finally determined to be due, then CONTRACTOR may, upon seven days' written notice to OWNER and ENGINEER, and provided OWNER and ENGINEER do not remedy such suspension or failure within that time, terminate the Agreement and recover from OWNER payment on the same terms as provided in paragraph 15.4. In lieu of terminating the Agreement and without prejudice to any other right or remedy, if ENGINEER has failed to act on an Application for Payment within thirty days after it is submitted, or OWNER has failed for thirty days to pay CONTRACTOR any sum finally determined to be due, CONTRACTOR may upon seven day's written notice to OWNER and ENGINEER stop the Work until payment of all such amount due CONTRACTOR, including interest thereon. The provisions of this paragraph 15.5 are not intended to preclude CONTRACTOR from making claim under Articles 11 and 12 for an increase in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to CONTRACTOR's stopping Work as permitted by this paragraph.

#### ARTICLE 16--DISPUTE RESOLUTION

If and to the extent that OWNER and CONTRACTOR have agreed on the method and procedure for resolving disputes between them that may arise under this Agreement, such dispute resolution method and procedure, if any, shall be as set forth in Exhibit GC-A, "Dispute Resolution Agreement," to be attached hereto and made a part hereof. If no such agreement on the method and procedure for resolving such disputes has been reached, and subject to the provisions of paragraphs 9.10, 9.11, and 9.12, OWNER and CONTRACTOR may exercise such rights or remedies as either may otherwise have under the Contract Documents or by Laws or Regulations in respect of any dispute.

#### ARTICLE 17--MISCELLANEOUS

#### Giving Notice:

17.1. Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

#### Computation of Times:

- 17.2.1. When any period of time is referred to in the Contract Documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.
- 17.2.2. A calendar day of twenty-four hours measured from midnight to the next midnight will constitute a day.

#### Notice of Claim:

17.3. Should OWNER or CONTRACTOR suffer injury or damage to person or property because of any error, omission or act of the other party or of any of the other party's employees or agents or others for whose acts the other party is legally liable, claim will be made in writing to the other party within a reasonable time of the first observance of such injury or damage. The provisions of this paragraph 17.3 shall not be construed as a substitute for or a waiver of the provisions of any applicable statute of limitations or repose.

#### Cumulative Remedies:

The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto, and, in particular but without limitation, the warranties, guarantees and obligations imposed upon CONTRACTOR by paragraphs 6.12, 6.16, 6.30, 6.31, 6.32, 13.1, 13.12, 13.14, 14.3 and 15.2 and all of the rights and remedies available to OWNER and ENGINEER thereunder, are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee or by other provisions of the Contract Documents, and the provisions of this paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right and remedy to which they apply.

# Professional Fees and Court Costs Included:

Whenever reference is made to "claims, costs, losses and damages," it shall include in each case, but not be limited to, all fees and charges of engineers, architects, attorneys and other professionals and all court or arbitration or other dispute resolution costs.

[The remainder of this page was left blank intentionally.]

# INDEX TO SUPPLEMENTAL GENERAL CONDITIONS

1.	ENUMERATION OF PLANS, SPECIFICATIONS AND ADDENDA	38
2.	STATED ALLOWANCES	38
3.	PAYMENTS TO CONTRACTOR	39
4.	FEDERAL LABOR STANDARDS PROVISIONS	42
5.	SPECIAL HAZARDS	53
6.	CONTRACTOR'S LIABILITY AND SUBCONTRACTORS LIABILITY	53
7.	PHOTOGRAPHS OF PROJECT	53
8.	SCHEDULE OF OCCUPATIONAL CLASSIFICATIONS AND MINIMUM WAGE RATES	53
9.	BUILDER'S RISK INSURANCE	54
10.	SPECIAL EQUAL OPPORTUNITY PROVISIONS	54
11.	CERTIFICATION OF COMPLIANCE WITH AIR AND WATER ACTS	66
12.	SPECIAL CONDITIONS PERTAINING TO HAZARDS, SAFETY AND ACCIDENT PREVENTION	67
13.	FLOOD DISASTER PROTECTION	68
14.	ACCESS TO RECORDS/MAINTENANCE OF RECORDS	68
15.	CONFLICTS OF INTEREST	68
16.	DRUG-FREE WORKPLACE	69
17.	PROJECT SIGN	69

# 1. ENUMERATION OF PLANS, SPECIFICATIONS AND ADDENDA

Following are the Plans, Specifications and Addenda which form a part of this contract, as set forth in Paragraph 1 of the General Conditions, "Contract and Contract Documents":

<b>DRAWING</b> General C	GS Construction:			N	los				
Heating and Ventilating:				"					
Plumbing:	·				"				
Electrical:					"				
					"				
				_	"				
				_					
SPECIFIC General C	CATIONS: Construction			P	age	115	to	<u>177</u> ,	incl.
Contoral C	orioti dotiori				•		to	<del></del>	incl.
Heating a	nd Ventilating	• •			•				incl.
Plumbing:				F	Page		to	,	incl.
Electrical:				Р	age		to	,	incl.
					_		to	,	incl.
				_ F	Page		to	,	incl.
ADDENDA No. No.	<b>A</b> :	Date Date					_	Date	
	ALLOWANCE								
	to Article 11.8 cash allowanc			ditions, the	e Con	tractor s	hall in	clude the	
(a)	For			(Page _		of	Spec	ifications)	\$
(b)	For			(Page _		of	Spec	ifications)	\$
(c)	For			(Page _		of	Spec	ifications)	\$
(d)	For			(Page _		of	Spec	ifications)	\$
(e)	For			(Page _		of	Spec	ifications)	\$
(f)	For		(Pag	je	_ of	Specifica	ations	s) \$ <u></u>	

2.

Revised (11/29/2022)

# 3. A. Payments to Contractor

- 1. To insure the proper performance of this contract, the Owner shall retain five percent (5%) of the amount of each estimate until final completion and acceptance of all work covered by this contract: <a href="Provided">Provided</a> that the Contractor shall submit his estimate not later than the first day of the month: <a href="Provided further">Provided further</a> that on completion and acceptance of each separate building, public work, or other division of the contract, on which the price is stated separately in the contract, payment may be made in full, including retained percentages thereon, less authorized deductions.
- 2. In preparing estimates the material delivered on the site and preparatory work done may be taken into consideration.
- 3. All material and work covered by partial payments made shall thereupon become the sole property of the Owner, but this provision shall not be construed as relieving the Contractor from the sole responsibility for the care and protection of materials and work upon which payments have been made or the restoration of any damaged work, or as a waiver of the right of the Owner to require the fulfillment of all of the terms of the contract.
- 4. Owner's Right to Withhold Certain Amounts and Make Application Thereof: The Contractor agrees that he will indemnify and save the Owner harmless from all claims growing out of the lawful demands of subcontractors, laborers, workers, mechanics, materialmen, and furnishers of machinery and parts thereof, equipment, power tools, and all supplies, including commissary, incurred in the furtherance of the performance of this contract. The Contractor shall, at the Owner's request, furnish satisfactory evidence that all obligations of the nature hereinabove designated have been paid, discharged, or waived. If the Contractor fails so to do, then the Owner may, after having served written notice on the said Contractor, either pay unpaid bills, of which the Owner has written notice, direct, or withhold from the Contractor's unpaid compensation a sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged whereupon payment to the Contractor shall be resumed, in accordance with the terms of this contract, but in no event shall the provisions of this sentence be construed to impose any obligations upon the Owner to either the Contractor or his Surety. In paying any unpaid bills of the Contractor, the Owner shall be deemed the agent of the Contractor, and any payment so made by the Owner shall be considered as a payment made under the contract by the Owner to the Contractor and the Owner shall not be liable to the Contractor for any such payments made in good faith.

# B. Payments by Contractor

The Contractor shall pay (a) for all transportation and utility services not later than the 20th day of the calendar month following that in which services are rendered, (b) for all materials, tools, and other expendable equipment to the extent of ninety percent (90%) of the cost thereof, not later than the 20th day of the calendar month following that in which such materials, tools, and equipment are delivered at the site of the project, and the balance of the cost thereof, not later than the 30th day following the completion of that part of the work in or on which such materials, tools, and equipment are incorporated or used, and (c) to each of his subcontractors, not later than the 5th day following each payment to the Contractor, the respective amounts allowed the Contractor on account of the work performed by his subcontractors to the extent of each subcontractor's interest therein.

# C. Time for Completion and Liquidated Damages

It is hereby understood and mutually agreed, by and between the Contractor and the Owner, that the date of beginning and the time for completion as specified in the contract of the work to be done hereunder are ESSENTIAL CONDITIONS of this contract; and it is further mutually understood and agreed that the work embraced in this contract shall be commenced on a date to be specified in the "Notice to Proceed".

The Contractor agrees that said work shall be prosecuted regularly, diligently, and uninterruptedly at such rate of progress as will insure full completion thereof within the time specified. It is expressly understood and agreed, by and between the Contractor and the Owner, that the time for the completion of the work described herein is a reasonable time for the completion of the same, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.

If the said Contractor shall neglect, fail or refuse to complete the work within the time herein specified, or any proper extension thereof granted by the Owner, then the Contractor does hereby agree, as a part consideration for the awarding of this contract, to pay to the Owner the amount specified in the contract, not as a penalty but as liquidated damages for such breach of contract as hereinafter set forth, for each and every calendar day that the Contractor shall be in default after the time stipulated in the contract for completing the work.

The said amount is fixed and agreed upon by and between the Contractor and the Owner because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages the Owner would in such event sustain, and said amount is agreed to be the amount of damages which the Owner would sustain and said amount shall be retained from time to time by the Owner from current periodical estimates.

It is further agreed that time is of the essence of each and every portion of this contract and of the specifications wherein a definite and certain length of time is fixed for the performance of any act whatsoever; and where under the contract an additional time is allowed for the completion of any work, the new time limit fixed by such extension shall be of the essence of this contract. <a href="Provided">Provided</a> that the Contractor shall not be charged with liquidated damages or any excess cost when the Owner determines that the Contractor is without fault and the Contractor's reasons for the time extension are acceptable to the Owner; <a href="Provided further">Provided further</a> that the Contractor shall not to be charged with liquidated damages or any excess cost when the delay in completion of the work is due:

- (a) To any preference, priority or allocation order duly issued by the Government.
- (b) To unforeseeable cause beyond the control and without the fault or negligence of the Contractor, including, but not restricted to, acts of God, or of the public enemy, acts of the Owner, acts of another Contractor in the performance of a contract with the Owner, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and severe weather; and
- (c) To any delays of Subcontractors or suppliers occasioned by any of the causes specified in subsections (a) and (b) of this article:

<u>Provided further</u> that the Contractor shall, within ten (10) days from the beginning of such delay, unless the Owner shall grant a further period of time prior to the date of final settlement of the contract, notify the Owner, in writing, of the delay and notify the Contractor within a reasonable time of its decision in the matter.

#### D. Protection of Lives and Health

"The Contractor shall exercise proper precaution at all times for the protection of persons and property and shall be responsible for all damages to persons or property, either on or off the site, which occur as a result of his prosecution of the work. The safety provisions of applicable laws and building and construction codes, in addition to specific safety and health regulations described by Chapter XIII, Bureau of Labor Standards, Department of Labor, Part 1518, Safety and Health Regulations for Construction, as outlined in the Federal Register, Volume 36, No. 75, Saturday, April 17, 1971. Title 29 - LABOR, shall be observed and the Contractor shall take or cause to be taken, such additional safety and health measures as the Contracting Authority may determine to be reasonably necessary."

# E. Subcontracts

The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5 (a)(1) through (10) and such other clauses as the (Department of Housing and Urban Development) may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

# F. Interest of Member of or Delegate to Congress

No member of or Delegate to Congress, or Resident Commissioner, shall be admitted to any share or part of this contract or to any benefit that may arise there from, but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

## G. Other Prohibited Interests

No official of the Owner who is authorized in such capacity and on behalf of the Owner to negotiate, make, accept or approve, or to take part in negotiating, making, accepting, or approving any architectural, engineering, inspection, construction or material supply contract or any subcontract in connection with the construction of the project, shall become directly or indirectly interested personally in this contract or in any part hereof. No officer, employee, architect, attorney, engineer or inspector of or for the Owner who is authorized in such capacity and on behalf of the Owner to exercise any legislative, executive, supervisory or other similar functions in connection with the construction of the project, shall become directly or indirectly interested personally in this contract or in any part thereof, any material supply contract, subcontract, insurance contract, or any other contract pertaining to the project.

# H. Use and Occupancy Prior to Acceptance by Owner

The Contractor agrees to the use and occupancy of a portion or unit of the project before formal acceptance by the Owner, provided the Owner:

- (a) Secures written consent of the Contractor except in the event, in the opinion of the Architect/Engineer, the Contractor is chargeable with unwarranted delay in final clean-up of punch list items or other contract requirements.
- (b) Secures endorsement from the insurance carrier and consent of the surety permitting occupancy of the building or use of the project during the remaining period of construction, or,
- (c) When the project consists of more than one building, and one of the buildings is occupied, secures permanent fire and extended coverage insurance, including a permit to complete construction. Consent of the surety must also be obtained.

# I. Photographs of the Project

If required by the Owner, the Contractor shall furnish photographs of the project, in the quantities and as described in the Supplemental General Conditions.

# J. Suspension of Work

Should the Owner be prevented or enjoined from proceeding with work either before or after the start of construction by reason of any litigation or other reason beyond the control of the Owner, the Contractor shall not be entitled to make or assert claim for damage by reason of said delay; but time for completion of the work will be extended to such reasonable time as the Owner may determine will compensate for time lost by such delay with such determination to be set forth in writing.

#### 4. FEDERAL LABOR STANDARDS PROVISIONS

# Applicability

The Project or Program to which the construction work covered by this contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the provisions applicable to such Federal assistance.

# A. 1. (i) Minimum Wages

All laborers and mechanics employed or working upon the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary 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. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)(iv); also, regular contributions made or costs incurred for more than a weekly period (but not less than often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period.

Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR Part 5.5(a)(iv). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 FR Part 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

(ii)(a) Any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- (b) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and HUD or its designee agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by HUD or its designee to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)
- (c) In the event the contractor, the laborers or mechanics to be employed in the classification or their representative, and HUD or its designee do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), HUD or its designee shall refer the questions, including the views of all interested parties and the recommendation of HUD or its designee, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)
- (d) The wage rate (including the fringe benefits where appropriate) determined pursuant to subparagraphs (1)(b) or (c) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- (iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third persons, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided, that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)

# 2. Withholding

HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices and trainees, employed by the contractor or any subcontractor the full amount of wages required by the contract.

In the event of failure to pay any laborer or mechanic, including any apprentice or trainee, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the contract, HUD or its designee 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. HUD or its designee may, after written notice to the contractor, disburse such amounts withheld for and on account of the contractor or subcontractor to the respective employees to whom they are due. The Comptroller General shall make sure disbursements in the case of direct Davis-Bacon Act contracts.

3. (i) Payrolls and basic records.

Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937, or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in Section 1(b)(2)(B) 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 under 29 CFR 5.5 (a)(1)(iv) 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. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs. (Approved by the Office of Management and Budget under OMB Control Numbers 1215-0140 and 1215-0017.)

- The contractor shall submit weekly for each week in which any (ii)(a) contract work is performed a copy of all payrolls to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to HUD or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR Part 5.5(a)(3)(i). This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal Stock Number 029-005-00014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. (Approved by the Office of Management and Budget under OMB Control Number 1215-0149).
  - (b) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
    - (1) That the payroll for the payroll period contains the information required to be maintained under 29 CFR Part 5.5(a)(3)(i) and that such information is correct and complete;

- (2) That each laborer or mechanic (including each apprentice and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3;
- (3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (c) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph A.3.(ii)(b) of this section.
- (d) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.
- (iii) The contractor or subcontractor shall make the records required under paragraph A.3.(i) of this section available for inspection, copying, or transcription by authorized representative of HUD or its designee or the Department of Labor, and shall permit such representative to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee 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. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR Part 5.12.
- 4. (i) Apprentices.

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the reaistered

program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe

benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

# (ii) Trainees.

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

# (iii) Equal employment opportunity.

The utilization of apprentices, trainees and journeyman under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

# 5. Compliance with Copeland Act requirements.

The contractor shall comply with the requirements of 29 CFR Part 3 which are incorporated by reference in this contract.

#### 6. Subcontracts.

The contractor or subcontractor will insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as HUD or its designee may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR Part 5.5

# 7. Contract termination; debarment.

A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act Requirements.

All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards.

Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and HUD or its designee, the U.S. Department of Labor, or the employees or their representatives.

# 10. Certification of Eligibility.

- (i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.
- (ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.
- (iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001. Additionally, U.S. Criminal Code, Section 1010, Title 18, U.S.C., "Federal Housing Administration transactions", provides in part "Whoever, for the purpose of ...influencing in any way the action of such Administration ...makes, utters or publishes any statement, knowing the same to be false ...shall be fined not more than \$5,000 or imprisoned not more than two years, or both."
- 11. Complaints, Proceedings, or Testimony by Employees.

No laborer or mechanic to whom the wage, salary, or other labor standards provisions of this Contract are applicable shall be discharged or in any other manner discriminated against by the Contractor or any subcontractor because such employee has filed any complaint or instituted or caused to be instituted any proceeding or has testified or is about to testify in any proceeding under or relating to the labor standards applicable under this Contract to his employer.

B. Contract Work Hours and Safety Standards Act

As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.

1. 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 permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work 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 the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages, liquidated damages.

In the event of any violation of the clause set forth in subparagraph (1) of this paragraph, the contractor and any subcontractor responsible therefore shall be liable for the 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 to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subparagraph (1) of this paragraph, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in subparagraph (1) of this paragraph.

# 3. Withholding for unpaid wages and liquidated damages.

HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contract, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor such sums as may 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 subparagraph (2) of this paragraph.

# 4. Subcontracts.

The contractor or subcontractor shall insert in any subcontracts the clauses set forth in subparagraph (1) through (4) of this paragraph and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (1) through (4) of this paragraph.

# C. Health and Safety

- No laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his health and safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation.
- 2. The contractor shall comply with all regulations issued by the Secretary of Labor pursuant to Title 29 Part 1926 (formerly part 1518) and failure to comply may result in imposition of sanctions pursuant to the Contract Work Hours and Safety Standards Act (Public Law 91-54, 83 Stat. 96).
- 3. The Contractor shall include the provisions of this Article in every subcontract so that such provisions will be binding on each subcontractor. The Contractor shall take such action with respect to any subcontract as the Secretary of Housing and Urban Development or the Secretary of Labor shall direct as a means of enforcing such provisions.

#### 5. SPECIAL HAZARDS

The Contractor's and his Subcontractor's Public Liability and Property Damage Insurance shall provide adequate protection against the following special hazards:

# 6. CONTRACTOR'S AND SUBCONTRACTOR'S PUBLIC LIABILITY, VEHICLE LIABILITY, AND PROPERTY DAMAGE INSURANCE

As required under Article 5 of the General Conditions, the Contractor's Public Liability Insurance and Vehicle Liability Insurance shall be in an amount not less than \$\,\\_1,000,000\] for injuries, including accidental death, to any one person, and subject to the same limit for each person, in an amount not less than \$\,\\_2,000,000\] on account of one accident, and Contractor's Property Damage Insurance in an amount not less than \$\,\\_1,000,000\].

The Contractor shall either (1) require each of his subcontractors to procure and to maintain during the life of his subcontract, Subcontractor's Public Liability and Property Damage Insurance of this type and in the same amounts as specified in the preceding paragraph, or (2) insure the activities of his subcontractors in his own policy.

## 7. PHOTOGRAPHS OF PROJECT

As provided in Paragraph 3.I of the Supplemental General Conditions, the Contractor will furnish photographs in the number, type, and stage as enumerated below:

# 8. SCHEDULE OF OCCUPATIONAL CLASSIFICATIONS AND MINIMUM HOURLY WAGE RATES AS REQUIRED UNDER PARAGRAPH 4.B OF THE SUPPLEMENTAL GENERAL CONDITIONS

Given on Pages (See Davis Bacon Wage Rates on pgs 28-39)

## 9. BUILDER'S RISK INSURANCE

As provided in the General Conditions, Article 5.6, the Contractor will/will not\*\* maintain Builder's Risk Insurance (fire and extended coverage) on a 100 percent completed value basis on the insurable portions of the project for the benefit of the Owner, the Contractor, and all Subcontractors, as their interests may appear.

\*\* Strike out one.

# 10. SPECIAL EQUAL OPPORTUNITY PROVISIONS

A. Activities and Contracts Not Subject to Executive Order 11246, as Amended

(Applicable to Federally assisted construction contracts and related subcontracts \$10,000 and under.)

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

- 1. The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor shall take affirmative action to ensure that applicants for employment 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.
- 2. The Contractor shall post in conspicuous places, available to employees and applicants for employment, notices to be provided by Contracting Officer setting forth the provisions of this nondiscrimination clause. The Contractor shall state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
- 3. Contractors shall incorporate foregoing requirements in all subcontracts.
- B. Executive Order 11246 (contracts/subcontracts above \$10,000)
  - 1. Section 202 Equal Opportunity Clause

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

- a. 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, notices to be provided setting forth the provisions of this nondiscrimination clause.
- b. 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 without regard to race, color, religion, sex, or national origin.
- C. 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 by the Contract Compliance Officer advising the said labor union or workers' representatives of the Contractor's commitment under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- d. 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.
- e. 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 Department of the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and others.
- f. 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 cancelled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts in accordance with procedures authorized 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.

- g. The Contractor will include the provisions of the sentence immediately preceding paragraph a. and the provisions of paragraphs a. through g. in every subcontract or purchase order unless exempted by rules, regulations, 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 Department may direct as a means of enforcing such provisions, including sanctions for non-compliance. 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 Department, the Contractor may request the United States to enter into such litigation to protect the interest of the United States.
- 2. Notice of Requirement for Affirmative Action to ensure Equal Employment Opportunity (Executive Order 11246). (Applicable to contracts/subcontracts exceeding \$10,000.)
  - a. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
  - b. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Goals for minority participation	Goals for female participation
Insert Goals Morristown (Hamblen) = 4.5	Insert Goals
Athens (McMinn) = 8.6 Greeneville (Greene) = 3.2	6.9%

NOTE: <u>THESE GOALS MUST BE PROVIDED.</u> Also, list <u>State</u> <u>Geographic Area to be covered on following page</u>.

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or Federally assisted) performed in the covered area. If the Contractor performs construction work in a geographic area located outside of the covered area, it shall apply the goals established for such geographic area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its Federally involved and non-Federally involved construction.

CDBG Manual Chapter F: Plans and Specifications The contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order, and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

- c. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the subcontractor; employer identification number; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.
- d. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is  $\frac{Athens,\,TN;\,Greeneville,\,TN;}{Morristown,\,TN}$
- 3. Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246)
  - a. As used in these specifications:
    - (1) "Covered area" means the geographical area described in the solicitation from which this contract resulted:
    - (2) "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
    - (3) "Employer identification number" means the federal social security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941;
    - (4) "Minority" includes:
      - (a) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);

Revised (11/29/2022)

Revised (11/29/2022)

- (b) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South America or other Spanish Culture or origin, regardless of race);
- (c) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands);
- (d) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
- b. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
- If the Contractor is participating (pursuant to 41 CFR 60-C. 4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

- d. The Contractor shall implement the specific affirmative action standards provided in paragraphs g.(1) through (16) of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing contracts in geographical areas where they do not have a Federal or Federally-assisted construction contract shall apply the minority and female goals established for the geographic area where the contract is being performed. Goals are published periodically in the Federal Register in notice form and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.
- e. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
- f. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
- g. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

- (1) Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
- (2) Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its union have employment opportunities available, and maintain a record of the organization's responses.
- (3) Maintain a current file of the names, addresses, and telephone numbers of each minority and female offthe-street applicant and minority or female referral from a union, a recruitment source, or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.
- (4) Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- (5) Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under g.(2) above.

- (6) Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company's EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- (7) Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination, or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- (8) Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- (9) Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date of the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- (10) Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer, and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.

- (11) Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR part 60-3.
- (12) Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- (13) Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- (14) Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- (15) Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
- (16) Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
- h. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations g.(1) through (16). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under g.(1) through (16) of these Specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry. ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation shall not be a defense for the Contractor's non-compliance.

- i. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and nonminority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
- j. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
- k. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
- I. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
- m. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph g. of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

- The Contractor shall designate a responsible official to n. monitor all employment related activity to ensure that the company's EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee, the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number where assigned, social security number, race, sex, status (e.g., mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and location at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractor shall not be required to maintain separate records.
- o. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

### C. <u>Certification of Nonsegregated Facilities (Over \$10,000)</u>

By the submission of this bid, the bidder, offeror, applicant or subcontractor certifies that he/she does not maintain or provide for his/her employees any segregated facility at any of his/her establishments, and that he/she does not permit employees to perform their services at any location, under his/her control, where segregated facilities are maintained. He/She certifies further that he/she will not maintain or provide for employees any segregated facilities at any of his/her establishments, and he/she will not permit employees to perform their services at any location under his/her control where segregated facilities are maintained. The bidder, offeror, applicant or subcontractor agrees that a breach of this certification is a violation of the Equal Opportunity Clause of this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms, and other storage or dressing areas, \*\*\*transportation and housing facilities provided for employees which are segregated on the basis of race, color, religion, or are in fact segregated on the basis of race, color, religion, or otherwise. He/She further agrees that (except where he/she has obtained identical certifications from proposed subcontractors for specific time periods) he/she will obtain identical certification from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause; that he/she will retain such certifications in his/her files; and that he/she will forward the following notice to such proposed subcontractors (except where proposed subcontractors have submitted identical certifications for specific time periods).

### D. Civil Rights Act of 1964

Under Title VI of the Civil Rights Act of 1964, no person shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance.

### E. Section 109 of the Housing and Community Development Act of 1974

No person in the United States shall on the grounds of race, color, national origin, or sex be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity funded in whole or in part with funds made available under this title.

### F. "The Section 3 Clause"

- 1. The work to be performed under this contract is on a project assisted under a program providing direct Federal financial assistance from the Department of Housing and Urban Development and is subject to the requirements of section 3 of the Housing Urban Development Act of 1968, as amended, 12 U.S.C. 1701u. Section 3 requires that to the greatest extent feasible, opportunities for training and employment be given to lower income residents of the area of the Section 3 covered project, and contracts for work in connection with the project be awarded to business concerns which are located in, or owned in substantial part by persons residing in the area of the Section 3 covered project.
- 2. The parties to this contract will comply with the provisions of said Section 3 and the regulations issued pursuant thereto by the Secretary of Housing and Urban Development set forth in 24 Part CFR 135, and all applicable rules and orders of the Department issued thereunder prior to the execution of this contract. The parties to this contract certify and agree that they are under no contractual or other disability which would prevent them from complying with these requirements.
- 3. The contractor will send to each labor organization or representative of workers with which he has a collective bargaining agreement or other contract or understanding, if any, a notice advising the said labor organization or workers' representative of his commitments under this Section 3 clause and shall post copies of the notice in conspicuous places available to employees and applicants for employment or training.
- 4. The contractor will include this Section 3 clause in every subcontract for work in connection with the project and will, at the direction of the applicant for or recipient of Federal Financial assistance, take appropriate action pursuant to the subcontract upon a finding that the subcontractor is in violation of regulations issued by the Secretary of Housing and Urban Development, 24 CFR Part 135. The contractor will not subcontract with any subcontractor where it has notice or knowledge that the latter has been found in violation of regulations under 24 CFR part 135 and will not let any subcontract unless the subcontractor has first provided it with a preliminary statement of ability to comply with the requirements of these regulations.

5. Compliance with the provisions of Section 3, the regulations set forth in 24 CFR Part 135, and all applicable rules and orders of the Department issued thereunder prior to the execution of the contract, shall be a condition of the Federal financial assistance provided to the project, binding upon the applicant or recipient, its contractors and subcontractors, its successors, and assigns to those sanctions specified by the grant or loan agreement or contract through which Federal assistance is provided, and to such sanctions as are specified by 24 CFR Part 135.

#### G. Age Discrimination Act of 1975

No person in the United States shall, on the basis of age, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under, any program or activity receiving Federal financial assistance.

### H. Section 504 Handicapped

Non-Discrimination for Handicapped Workers

No otherwise qualified handicapped individual in the U.S., as defined in Section 7, Paragraph 6 of the Rehabilitation Act of 1973 shall, solely by reason of this handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance.

#### 11. CERTIFICATION OF COMPLIANCE WITH AIR AND WATER ACTS

(Applicable to Federally assisted construction contracts and related subcontracts exceeding \$100,000)

#### Compliance with Air and Water Acts

During the performance of this contract the contractor and all subcontractors shall comply with the requirements of the Clean Air Act, as amended, 42 USC 1857 <u>et seq.</u>, the Federal Water Pollution Control Act, as amended, 33 USC 1251 <u>et seq.</u>, and the regulations of the Environmental Protection Agency with respect thereto, at 40 CFR Part 15, as amended.

In addition to the foregoing requirements, all nonexempt contractors and subcontractors shall furnish to the Owner, the following:

 A stipulation by the Contractor or subcontractors, that any facility to be utilized in the performance of any nonexempt contract or subcontract, is not listed on the List of Violating Facilities issued by the Environmental Protection Agency (EPA) pursuant to 40 CFR 15.20.

CDBG Manual Revised (11/29/2022)

- Agreement by the Contractor to comply with all the requirements of Section 114 of the Clean Air Act, as amended, (42 USC 1857c-8) and Section 308 of the Federal Water Pollution Control Act, as amended, (33 USC 1318) relating to inspection, monitoring, entry, reports and information, as well as all other requirements specified in said Section 114 and Section 308, and all regulations and guidelines issued thereunder.
- A stipulation that as a condition for the award of the contract, prompt notice will be given of any notification received from the Director, Office of Federal Activities, EPA, indicating that a facility utilized, or to be utilized for the contract, is under consideration to be listed on the EPA List of Violating Facilities.
- 4. Agreement by the Contractor that he will include, or cause to be included, the criteria and requirements in paragraph (1) through (4) of this section in every nonexempt subcontract and requiring that the Contractor will take such action as the Government may direct as a means of enforcing such provisions.

# 12. SPECIAL CONDITIONS PERTAINING TO HAZARDS, SAFETY STANDARDS AND ACCIDENT PREVENTION

#### A. Lead-Based Paint Hazards

(Applicable to contracts for construction or rehabilitation of residential structures.) The construction or rehabilitation of residential structures is subject to the HUD Lead-Based Paint regulations, 24 CFR Part 35. The Contractor and Subcontractors shall comply with the provisions for the elimination of lead-base paint hazards under sub-part B of said regulations. The Owner will be responsible for the inspections and certifications required under Section 35.14(f) thereof.

#### B. Use of Explosives (Modify as Required)

When the use of explosives is necessary for the prosecution of the work, the Contractor shall observe all local, state and Federal laws in purchasing and handling explosives. The Contractor shall take all necessary precaution to protect completed work, neighboring property, water lines, or other underground structures. Where there is danger to structures or property from blasting, the charges shall be reduced and the material shall be covered with suitable timber, steel or rope mats.

The Contractor shall notify all owners of public utility property of intention to use explosives at least eight hours before blasting is done, close to such property. Any supervision or direction of use of explosives by the engineer, does not in any way reduce the responsibility of the Contractor or his Surety for damages that may be caused by such use.

C. Danger Signals and Safety Devices (Modify as Required)

The Contractor shall make all necessary precautions to guard against damages to property and injury to persons. He shall put up and maintain in good condition, sufficient red or warning lights at night, suitable barricades and other devices necessary to protect the public. In case the Contractor fails or neglects to take such precautions, the Owner may have such lights and barricades installed and charge the cost of this work to the Contractor. Such action by the Owner does not relieve the Contractor of any liability incurred under these specifications or contract.

### 13. FLOOD DISASTER PROTECTION

This Contract is subject to the requirements of the Flood Disaster Protection Act of 1973 (P.L. 93-234). Nothing included as a part of this Contract is approved for acquisition or construction purposes as defined under Section 3(a) of said Act, for use in an area identified by the Secretary of HUD as having special flood hazards which is located in a community not then in compliance with the requirements for participation in the national flood insurance program pursuant to Section 201(d) of said Act; and the use of any assistance provided under this Contract for such acquisition or construction in such identified areas in communities then participating in the national flood insurance program shall be subject to the mandatory purchase of flood insurance requirements of Section 102(a) of said Act.

Any contract or agreement for the sale, lease, or other transfer of land acquired, cleared or improved with assistance provided under the Contract shall contain, if such land is located in an area identified by the Secretary as having special flood hazards and in which the sale of flood insurance has been made available under the National Flood Insurance Act of 1968, as amended, 42 U.S.C. 4001 et seq., provisions obligating the transferee and its successors or assigns to obtain and maintain, during the ownership of such land, such flood insurance as required with respect to financial assistance for acquisition or construction purposes under Section 102(a) of the Flood Disaster Protection Act of 1973.

#### 14. ACCESS TO RECORDS/MAINTENANCE OF RECORDS

The Contractor shall maintain accounts and records, including personnel, property, and financial records, adequate to identify and account for all costs pertaining to the contract and such other records as may be deemed necessary by the locality to assure proper accounting for all funds. These records will be available for audit purposes to the locality or the State or any other authorized representative, and will be retained for three years after contract completion unless permission to destroy them is granted by the locality. Moreover, the locality, State, or any authorized representative shall have access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purpose of making audit, examination, excerpts, and transcriptions.

# 15. CONFLICT OF INTEREST OF OFFICERS OR EMPLOYEES OF THE LOCAL JURISDICTION, MEMBERS OF THE LOCAL GOVERNING BODY, OR OTHER PUBLIC OFFICIALS

No officer or employee of the local jurisdiction or its designees or agents, no member of the governing body, and no other public official of the locality who exercises any function or responsibility with respect to this contract, during his/her tenure or for one year thereafter, shall have any interest, direct or indirect, in any contract or subcontract, or the proceeds thereof, for work to be performed. Further, the contractor shall cause to be incorporated in all subcontracts the language set forth in this paragraph prohibiting conflict of interest.

#### 16. DRUG-FREE WORKPLACE

Under the provisions of Tennessee Code Annotate § 50-9-113 enacted by the General Assembly effective 2001, a) employers with five (5) or more employees who contract with either the state or a local government to provide construction services are required to submit an affidavit stating that they have a drug free workplace program that complies with Title 50, Chapter 9, in effect at the time of submission of a bid at least to the extent required of governmental entities. The statute, imposes other requirements on the contractor, but the grantee's responsibility is specifically limited in section (b) of the state as follows:

(b) A written affidavit by the principal officer of a covered employer provided to a local government at the time such bid or contract is submitted stating that the employer is in compliance with this section shall absolve the local government of all further responsibility under this section and any liability arising from the employer's compliance or failure of compliance with the provisions of this section.

#### 17. PROJECT SIGN

If a project sign is erected, it must include the following:

Governor (Name)
Department of Economic and Community Development
Commissioner (Name)
CDBG Grant (Amount)

CDBG Manual Revised (11/29/2022)

### **SPECIFICATIONS**

Description of Project

Location (Recipient)

List of Contracts

Contract No.

Name and Address of Consultant or, if Prepared by Recipient Staff, the Name of the Office to be Contacted for Information Pertaining to Project



# ChargePoint® Express Plus

All equipment/material items will be 'or owner approved equivalent'.



A flexible DC Fast Charging platform that grows with you.



### **Express Plus Specifications**

### **Express Plus Power Module**

All equipment/material items will be 'or owner approved equivalent'.

### **Express Plus Power Module Output**

Max Output Power	40 kW
Max Output Current	100 A
Power Conversion Efficiency	Up to 96%
Power Factor	0.99 at full load

### **Express Plus Power Module Specifications**

Power Module Dimensions	430 mm (H) x 130 mm (W) x 760 mm (L) (1'5" x 5" x 2'6")
Power Module Weight	45 kg (98.5 lb.)
Power Module Cooling	Liquid Cooled Technology
Harmonics	iTHD < 5% (Complies with IEEE 519)

### **Express Plus Power Block**

#### **Express Plus Power Block Input**

Input Rating	3-phase, 400-480Y VAC, 310-260 A 50/60 Hz
Wiring	L1, L2, L3, Earth
Short Circuit Current Rating	65 kA

### **Express Plus Power Block Output**

Max Output Power	200 kW
Output Voltage, Charging	200 V – 1000 V
Max Current per Output	200 A, 250 A, 300 A, 350 A, 500 A*
Number of Stations Served	One Power Block can serve up to 2 Power Link stations. Additional Power Blocks can be added to serve more stations or increase power output.
Max Power Modules per Power Block	5

<sup>\*</sup> Subject to site configuration and installed stations

# All equipment/material items will be 'or owner approved equivalent'.



### **Express Plus Power Block Specifications**

Power Block Dimensions	2191 mm (H) x 988 mm (W) x 1039 mm (L) (7'3" x 3'3" x 3'5")
Power Block Weight	455 kg (1000 lbs.) without Power Modules
Power Block Enclosure Rating	Type 3R, IP56

### **Express Plus Power Link**

### Express Plus Power Link Output

Max Output Power	200 kW, 250 kW, 300 kW, 350 kW with Power Blocks
Output Voltage, Charging	200 V – 1000 V
CCS1 Max Output Current**	Option 1: 200 A continuous with Power Blocks
	Option 2: 375 A peak, 350 A continuous with Power Blocks  Option 1: 250 A continuous with Power Blocks
CCS2 Max Output Current**	Option 2: 375 A peak, 300 A continuous with Power Blocks
CHAdeMO Max Output Current**	Option 1: NA & EU: 200 A continuous with Power Blocks Option 2: NA: 140 A, EU: 125 A continuous with Power Blocks

<sup>\*\*</sup>Availability may vary

### **Express Plus Power Link Specifications**

·	
Station Dimensions	2400mm (H) x 720mm (W) x 280mm (D) (7'11" x 2'5" x 11")
Station Footprint	965mm (W) x 635mm (D) (3'2" x 2'1") with Cable Management Kit
Station Weight	250 kg (550 lbs)
Number of Connectors	Up to 2 connectors per station
Supported Connector Types	CHAdeMO, CCS1 (SAE J1772™ Combo), CCS2 (IEC 61851-23)
Cable Length	Standard 4.5 m (15') with Cable Management Kit (CMK).* Optional lengths of 7.6 m (25') and 10 m (33') also available.
Station Enclosure Rating	Type 3R, IP56
Locking Holster	Yes
Mounting Type	Ground, Wall, Overhead

<sup>\*</sup>Horizontal reach to typical vehicle charging port is 3.6 m (12 ft)

# All equipment/material items will be 'or owner approved equivalent'. —chargepoint.



### **Functional Interfaces**

LCD Display	Full-color 200 mm (8") LCD display (optional)
	RFID: ISO 15693, ISO 14443, NEMA EVSE 1.2-2015 (UR)
A. C. a. C. a. C. a.	Tap to Charge (NFC on Apple & Android)
Authentication	15118-2 (EIM)
	Remote: Mobile and in vehicle (if supported by vehicle)

### **Connectivity Features**

Local Area Network	2.4 GHz and 5 GHz WiFi (802.11 b/g/n)
Wide Area Network	4G LTE
Supported Communication Protocols	OCPP 2.0
Service and Maintenance	Remote system monitoring, diagnostic, and proactive maintenance

### Safety and Operational Ratings

Vehicle Safety Communication	CHAdeMO – JEVS G104 over CAN, CCS1 – SAE J1772 over PLC and CCS2 — IEC 61851-23
Plug-In Detection	Power terminated per JEVS G104 (CHAdeMO), SAE J2931 (CCS1) and IEC 61851-23 (CCS2)
Safety Compliance	Complies with UL 2202, UL 2231-1, UL 2231-2, CSA 107.1 Shipped product will be UL and cUL listed.
	Complies with IEC 61851-1 and IEC 61851-23. Shipped product will be CE marked.
Surge Protection	Tested to IEC 61000-4-5, Level 5 (6 kV @ 3,000A). In geographic areas subject to frequent thunderstorms, supplemental surge protection at the service panel is recommended.
EMC Compliance	U.S and Canada: FCC 15 subpart A Class A; EU: EN55011, EN55022 and IEC61000-6-3 Class B

### **Generic Specifications**

Operational Altitude	<3,000 m (<9,800 ft)
Operating Temperature	-40°C to 50°C (-40°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)

### All equipment/material items will be **-chargepoint** 'or owner approved equivalent'.



Operating Humidity Up to 95% @ 50°C (122°F) non-condensing	Operating Humidity	Up to 95% @ 50°C (122°F) non-condensing
--	--------------------	---

### **Energy Management Features**

Dynamic Power Management	Allows a fixed maximum power output per station or lets the system dynamically manage the power distribution per station.
Remote Energy Management	Manage output power via the ChargePoint Admin Portal, API, and Open ADR 2.0b VEN.

### **Hardware Ordering Information**

The order codes below represent common product configurations. Other product options are available upon request. Please contact ChargePoint Sales for information and order codes. All SKU's displayed include standard cable management and mounting kit. Note, Power Link and Power Block current ratings must match. Eg. 250 A with 250A, 200 A with 200 A.

Description		Order Code
Commercial Models	Express Plus Power Block, 350 A or 300 A rated output	EXPP-PB1000-350A-PD or EXPP-PB1000-300A-PD
	Express Plus Power Link, North America version, 1x CCS1 350 A cable, 1x CHAdeMO 200 A cable, Pedestal, with display	EXPP-PL1021A-5A1S1- 2A3S1
	Express Plus Power Link, Europe/UK version, 1x CCS2 300 A cable, 1x CHAdeMO 200 A cable, Pedestal, with display	EXPP-PL1121B-4A2S1- 2A3S1
Fleet Models	Express Plus Power Block, 250 A or 200 A rated output	EXPP-PB1000-250A-PD or EXPP-PB1000-200A-PD
	Express Plus Power Link NA Version. 1x CCS1 200A 4.5m cable, Pedestal, No display.	EXPP-PL1011X-2A1S1
	Express Plus Power Link NA Version. Same as above but with 2x CCS1 Connectors	EXPP-PL1021X-2A1S1- 2A1S1
	Express Plus Power Link Europe/UK Version. 1x CCS2 250A 4.5m cable, Pedestal, No display.	EXPP-PL1111X-3A2S1

# All equipment/material items will be 'or owner approved equivalent'.



Express Plus Power Link Europe/UK	EXPP-PL1121X-3A2S1-
Version. Same as above but with 2x CCS2	3A2S1

### Hardware Ordering Information, Cont.

Description		Order Code
Other Connector Options	Cable connectors available include CCS1, CCS2, and/or CHAdeMO. Cables can be ordered with a single or a combination, as well as lengths and amperage depending on application.	Please contact ChargePoint Sales for assistance in ordering
Power Module	EXPP Power Module	EXPP-PM-40kW
Mounting & Template Options	Mounting kits and templates for various mounting are available	Please contact ChargePoint Sales for assistance in ordering
Buy America	Buy America (FTA & FHWA) options available upon request	Add -FTA or -FHWA to part numbers above

### Software & Services Ordering Information

Description	Order Code
ChargePoint Enterprise Cloud Plan (Commercial) Note: One token per vehicle. Station activation is included in this plan.	CPCLD- ENTERPRISE- EXPP-n*
ChargePoint Enterprise Cloud Plan (Fleet) Note: One token per vehicle. Station activation is included in this plan.	CPCLD-FLEETENT- EXPP-n*
ChargePoint Assure® — Prepaid Assure Plan for an Express Plus Single Cable station.	EXPP-PL1000-SC- ASSURE-n*
ChargePoint Assure® — Prepaid Assure Plan for an Express Plus Dual Cable station.	EXPP-PL1000-DC- ASSURE-n*
ChargePoint Assure® — Prepaid Assure Plan for Express Plus Power Block.	EXPP-BLOCK- ASSURE-n*
Commissioning Service (Required per Power Block): includes on- site validation and inspection of electrical, mechanical, installation, wiring and civil parameters for the Express Plus Power Block.	EXPP-BLOCK- COMMISSIONING

# All equipment/material items will be 'or owner approved equivalent'.



Commissioning Service (Required per Power Link): includes onsite validation and inspection of electrical, mechanical, installation, wiring and civil parameters for the Express Plus Power Link. EXPP-PL1000-COMMISSIONING

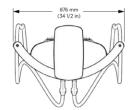
Note: All Express Plus Power Link stations require a cloud plan.

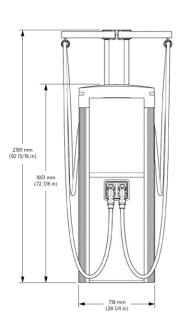
<sup>\*</sup>Substitute *n* for desired years of service (1, 2, 3, 4 or 5 years). Includes parts and labor warranty, remote technical support, on-site repairs when needed, unlimited configuration changes, and reporting.

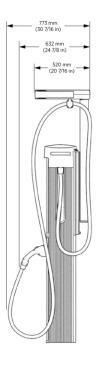


### **Architectural Drawings**

Express Plus Power Link, No Display (Fleet Option Only)



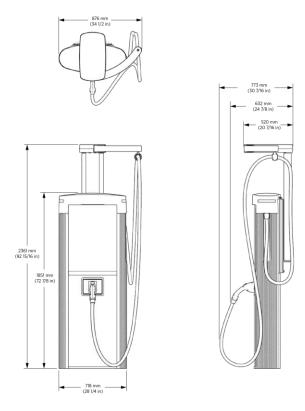




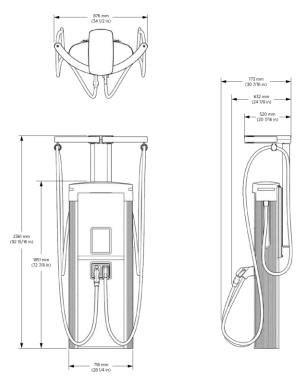
All equipment/material items will be 'or owner approved equivalent'.



### Express Plus Power Link, No Display, Single Connector (Fleet Option Only)

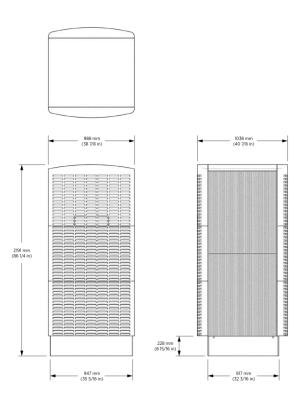


Express Plus Power Link, Commercial & Fleet Option with Screen

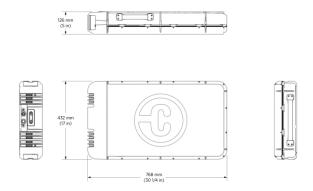




### **Express Plus Power Block**



### **Express Plus Power Module**



All equipment/material items will be 'or owner approved equivalent'.



## -chargepoin+

ChargePoint, Inc. 240 East Hacienda Avenue Campbell, CA 95008-6617 USA

+1.408.841.4500 or

+1.877.370.3802 US and Canada toll-free

chargepoint.com

Contact Us

Visit chargepoint.com

Call +1.408.705.1992

Email sales@chargepoint.com

Copyright © 2021 ChargePoint, Inc. All rights reserved. CHARGEPOINT is a U.S. registered trademark/service mark, and an EU registered logo mark of ChargePoint, Inc. All other products or services mentioned are the trademarks, service marks, registered trademarks or registered service marks of their respective owners. February 2021. V.2021.04.001

# -chargepoin+

# **Express Plus**

DC Fast Charging Station

# Site Design Guide

All equipment/material items will be 'or owner approved equivalent'.





# **Important Safety Instructions**

### **Save These Instructions**



#### **WARNING:**

- Read and follow all warnings and instructions before installing and operating the ChargePoint® charging station. Install and operate only as instructed. Failure to do so may lead to death, injury, or property damage, and will void the Limited Warranty.
- 2. Only use licensed professionals to install your ChargePoint charging station and adhere to all national and local building codes and standards. Before installing the ChargePoint charging station, consult with a licensed contractor, such as a licensed electrician, and use a trained installation expert to ensure compliance with local building and electrical codes and standards, climate conditions, safety standards, and all applicable codes and ordinances. Inspect the charging station for proper installation before use.
- 3. Always ground the ChargePoint charging station. Failure to ground the charging station can lead to risk of electrocution or fire. The charging station must be connected to a grounded, metal, permanent wiring system, or an equipment grounding conductor shall be run with circuit conductors and connected to the equipment grounding terminal or lead on the Electric Vehicle Supply Equipment (EVSE). Connections to the EVSE shall comply with all applicable codes and ordinances.
- 4. Install the ChargePoint charging station on a concrete pad using a ChargePoint approved method. Failure to install on a surface that can support the full weight of the charging station can result in death, personal injury, or property damage. Inspect the charging station for proper installation before use.
- 5. This charging station is not suitable for use in Class 1 hazardous locations, such as near flammable, explosive, or combustible vapors or gases.
- 6. This device should be supervised when used around children.
- 7. Do not put fingers into the electric vehicle connector.
- 8. Do not use this product if any cable is frayed, has broken insulation, or shows any other signs of damage.
- Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other signs of damage.
- 10. Use 90°C wire copper or aluminum conductors only.



Important: Under no circumstances will compliance with the information in this manual relieve the user of the responsibility to comply with all applicable codes or safety standards. This document describes the approved installation and mounting scenarios. If it is not possible to perform an installation following the procedures in this document, contact ChargePoint. ChargePoint is not responsible for any damages that may result from custom installations that are not described in this document or fail to adhere to installation recommendations.

### **Product Disposal**

To comply with Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE), devices marked with this symbol may not be disposed of as part of unsorted domestic waste inside the European Union. Enquire with local authorities regarding proper disposal. Product materials are recyclable as marked.



### **Document Accuracy**

The specifications and other information in this document were verified to be accurate and complete at the time of its publication. However, due to ongoing product improvement, this information is subject to change at any time without prior notice. For the latest information, see our documentation online at: chargepoint.com/guides or chargepoint.com/eu/guides.

### **Copyright and TradeMarks**

©2013-2021 ChargePoint, Inc. All rights reserved. This material is protected by the copyright laws of the United States and other countries. It may not be modified, reproduced or distributed without the prior, express written consent of ChargePoint, Inc. CHARGEPOINT is a U.S. and European Union registered trademark and service mark of ChargePoint, Inc. and cannot be used without the prior written consent of ChargePoint.

### Symbols Used in This Document

This guide and product use the following symbols:



**DANGER:** Risk of electric shock.



**WARNING:** Risk of personal harm or death.



**CAUTION:** Risk of equipment or property damage.



**Important:** Crucial step for installation success.



Read the manual for instructions.



Ground/protective earth.

# -chargepoin+

# **Contents**

Important Safety Instructions	Ш
1 Site Design Guidelines	1
Product Components	2
Initial Site Guidelines	2
Plan for Future Charging Capacity	2
Charging Station Placement	3
2 Civil and Mechanical Design	5
Component Dimensions	
Power Block	
Power Link	
Mounting Specifications for Pads	
Power Block	
Power Link	
Mounting Specifications for Surface Mount  Power Block	
Power Link	12
Installing Express 250 Stations for Later Power Link Replacement	12
Drainage	13
Clearances	14
Power Block	14
Power Link	15
Bollards and Wheel Stops	16
Ventilation	16
Signage	17
3 Electrical Design	19
Upstream Components	
AC Disconnect Switch	20
Transformer Configuration	20
Grounding/Earthing Requirements	20
Shunt Trip Wiring	21

Maintenance Switch	22
Conduit and Wiring Requirements	22
Maximum Wiring Sizes 48 VDC Power	23 23
AC Input, Copper	23
DC Output, Copper	24
DC Output, Aluminum	25
North American Requirements	26
UK and European Requirements	26
Cellular Connectivity	26
Signal Strength and Quality	27
Repeaters	29

# -chargepoin+

# Site Design Guidelines

All equipment/material items will be 'or owner approved equivalent'.

This document describes how to design a project site for the ChargePoint® Express Plus DC fast charging solution.

The Express Plus product family is a modular solution for scalable fast charging of electric vehicles. Power Link charging stations are powered by Power Block AC/DC converters, and the entire system communicates with ChargePoint using the cellular network. This connectivity is required for diagnostics and reporting, as well as communication with the online dashboard that allows the station owner to control its settings and commands. See the section <u>Cellular Connectivity (page 27)</u> for detailed information.

Full specifications and system certifications for Express Plus can be found in the datasheet. Contact your ChargePoint representative for a copy.

Access ChargePoint documents online at <u>chargepoint.com/guides</u> and <u>chargepoint.com/eu/guides</u> for each phase of the project.

Document	Content	Audiences
Datasheet	Full station specifications	Site designer, installer, and station owner
Site Design Guide	Civil, mechanical, and electrical guidelines to scope and construct the site	Site designer or engineer of record
Concrete Mounting Template Guide	Instructions to embed the charging station template in a concrete pad with anchor bolts and conduit placement	Site construction contractor
Installation Guide	Anchoring, wiring, and powering on	Installer
Operation and Maintenance Guide	ntenance	
Service Guides	rvice Guides Component replacement procedures	



**Important:** ChargePoint recommends consulting with an engineer to create site specific drawings. Ensure the installation complies with all applicable codes and ordinances.

### **Product Components**

Several components comprise a full Express Plus installation:

- Power Module: A scalable module that contains power conversion electronics.
- Power Block: Enclosure that holds up to 5 Power Modules and provides them with a liquid cooling system. The Power Block centralizes power conversion that supplies rectified DC power to Power Links.
- Power Link: Charging station designed for industrial environments that can be mounted on a pedestal, on a wall, or overhead. It can be configured with a charging cable management kit (CMK) attached to the station, or an optional overhead cable reel. Each Power Link is equipped with an isolation monitor and short circuit protection to ensure safe operation.

The Express Plus solution is highly modular. Each Power Block has two DC outputs. That power can be fed to a single station, or to two different stations, depending on configuration. Low voltage and Ethernet connectivity are also fed to either one or two stations. If a distribution cabinet is used, the number of connected stations can be increased to eight (two of which can actively charge at a time).

### **Initial Site Guidelines**

Designing electrical infrastructure to support current and future EV charging demand can help avoid costly upgrades later as EV adoption grows.

An onsite evaluation is needed to determine conduit and wiring requirements from the panel to the proposed parking spaces, as well as to measure cellular signal levels and identify suitable locations for any necessary cellular signal booster equipment.

If you have pre-existing infrastructure or are using your own preferred electrical contractor to prepare your site, a Construction Signoff Form by a ChargePoint Operations and Maintenance (O&M) partner is required to certify compliance with electrical code, and to ensure everything was prepared to ChargePoint specifications.



**Important:** You must be a licensed electrician and complete online training to become a ChargePoint certified installer. If you do not complete training, you cannot access the ChargePoint network to complete installation.

Find online training at: chargepoint.com/installers or chargepoint.com/eu/installers

If the charging station is not installed by a ChargePoint certified installer, using a ChargePoint approved method, it is not covered under warranty and ChargePoint is not responsible for any malfunctions.

### **Plan for Future Charging Capacity**

Designing electrical infrastructure to support current and future needs for EV charging helps avoid costly upgrades later as demand for EV charging grows.

Consider these methods to prepare a site for future charging stations in a later phase of work:

- Add extra capacity if electrical panels are being upgraded now.
- Use sub-panels as a way to shorten electrical paths.
- Maximize the conduit and conductor sizes (to product specifications) between the main electrical panel and future stations, to prevent needing to re-pull wire later.
- Below-ground wiring can be pre-staged if the correct site construction is performed in advance.
   Allowed terminations include a distribution unit, junction box, or plugged conduit. This eases cable pulls for future stations.

### **Charging Station Placement**

To minimize costs, choose station locations that are as close as possible to the available electrical infrastructure. Selecting nearby locations helps minimize long wire runs, as well as any conduit or trenching work if the site uses underground service wiring.



**WARNING:** The Power Block and Power Link must be installed on a surface rated for the weight of the enclosure (a level concrete base for either Power Block or Power Link, or a flat wall or gantry for Power Link). Asphalt cannot support the full weight of the station. Failure to install the enclosure on a suitable surface may cause it to tip over, resulting in death, personal injury, or property damage.

### Layout considerations:

- Determine appropriate ground anchoring locations where concrete exists or can be installed (no asphalt surfaces).
- Consider locations where it will be easy to add future stations.
- Determine the best conduit layout to minimize linear conduit costs to multiple parking spaces. If
  possible, avoid or minimize trenching requirements, especially more costly trenching to run conduit
  under asphalt surfaces.
- Determine if the existing utility service and electrical panel capacity is sufficient. Identify costs for any necessary upgrades and/or a new dedicated electrical panel. ChargePoint recommends using a certified electrician to evaluate available capacity and identify any upgrades that may be required.
- If a dedicated EV electrical panel is required, choose a panel located close to the existing electrical supply.
- Measure cellular signal levels to ensure adequate cellular coverage at the station locations. To ensure
  adequate signal strength in underground or enclosed parking structures, cellular repeaters may be
  required. For more information, see <u>Cellular Connectivity (page 27)</u>.
- ChargePoint recommends avoiding locations under trees where sap, pollen, or leaves would fall on the charging station and increase the station owner's site maintenance workload.

 For stall parking, ChargePoint recommends using perpendicular parking stalls that allow a vehicle to enter either front-first or rear-first, to better accommodate the varied locations of EV charge ports.
 Diagonal stall parking is not advised.



**Note:** While ChargePoint tests charging stations with a majority of upcoming vehicles, ChargePoint cannot guarantee the port locations of future vehicles and cannot warrant the configurations proposed will work for all vehicles.

- Choose adjacent parking spaces in an area with adequate lighting.
- Consider how easily drivers can find the stations they need to access.
- Check local requirements for accessibility and pathway width, sometimes called "path of travel", to ensure that station placement does not restrict sidewalk use.
- Building a pad into the head of a parking space (instead of on the sidewalk) is allowed if local code
  allows it compared to the minimum parking space length, and the pad meets all pad requirements
  listed in this document.



**Important:** Place each charging station to maximize cable reach for the varied charge port locations on different EVs.

- If a pull-through parking (gas station model) is used, ChargePoint recommends placing at least one charging station on each side of the island. This avoids situations where the charging station is on the opposite side of the vehicle from the charge port.
- The Power Link can have different charging cable types (such as one CCS and one CHAdeMO) to
  offer flexibility, or it can have two of the same cable type (in cases such as commercial fleets). The
  cables cannot both charge at the same time.
  - If the Power Link will have different cable types, center the station on one parking space to maximize cable reach.
  - If the Power Link will have the same cable type, center the station between parking spots to allow each cable to be plugged in whenever it is available.

# -chargepoin+

# Civil and Mechanical Design 2

### **Component Dimensions**

**Power Block** 

All equipment/material items will be 'or owner approved equivalent'.

Each Power Block is made up of these components:



- a. Pedestal: secures the Power Block and provides access for either stub-up or surface mount installations
- b. Center enclosure (dry box): a bay for up to five Power Modules, and bus bars to land all input and output cables
- c. Top enclosure (wet box): auxiliary power supply and temperature management components
- d. Width: 988 mm (38.9 in)
- e. Height: 2191 mm (86.3 in)
- f. Depth: 1039 mm (40.9 in)

A fully loaded Power Block weighs approximately 680 kg (1500 lbs). Each Power Module weighs approximately 45 kg (98.5 lbs).

### **Power Link**

The Power Link is a vertical enclosure that can be mounted on a pedestal, wall, or overhead. Stations can be configured with one or two charge cables, available in multiple lengths. The Power Link can have different charging cable types (such as one CCS and one CHAdeMO) to offer flexibility, or it can have the same cable type (in cases such as commercial fleets). The cables cannot both charge at the same time.

The Power Link can be configured with a Cable Management Kit (CMK), a rear mast with arms that swing forward to extend cable reach.



- a. Height of pedestal mount station with CMK: 2400 mm (94.5 in) at full height, or 2197 mm (86.5 in) for low clearance
- b. Height of wall or overhead station only: 940 mm (37 in)
- c. Height of pedestal mount station: 1851 mm (72.9 in)
- d. Depth: 350 mm (13.8 in) (depth with CMK 520 mm (20.5 in))
- e. Width: 720 mm (28.3 in) (width with CMK 876 mm (34.5 in))

**Note:** The Power Link depth dimension is for the station and pedestal depth only. For service door swing and charge cable protrusion, see Clearances (page 14).

The maximum Power Link cable reach from the front of the station to the vehicle charge port is approximately 3.6 m (12 ft) at a height of 0.6 m (2 ft) above the ground.

A Power Link weighs approximately 250 kg (550 lbs).

### **Mounting Specifications for Pads**

The Power Block and Power Link (in pedestal configuration) can each be installed on either a newly poured pad or an existing concrete surface. The mounting surface must be smooth and cannot exceed a slope of 6.35 mm per 304.8 mm (0.25 inches per foot).



WARNING: If not installed correctly, the ChargePoint® charging components may pose a fall hazard, leading to death, personal injury, or property damage. Always use the provided Concrete Mounting Template or a ChargePoint-approved surface mounting solution to install ChargePoint charging components and install in accordance with applicable codes and standards using licensed professionals. Non-approved installation methods are performed at the risk of the contractor and void the Limited One-Year Parts Exchange Warranty.

**Note:** Although new pad installation is the most common mounting method, Surface Conduit Entry (SCE) is also allowed and described later in this chapter. Contact ChargePointfor the approved mounting hardware if a site requires an SCE installation, a surface mount template for drilled and epoxied anchor bolts, or low clearance accommodation (such as a low ceiling parking garage).

### **Power Block**

Conservative stability specifications for the Power Block are listed below for the following design scenarios:

- 1. 170mph wind, high seismic, Class 3 Soil
- 2. 170mph wind, high seismic, Class 4 Soil
- 3. 170mph wind, high seismic, Class 5 Soil
- 4. 140mph wind, lower seismic, Class 3 Soil
- 5. 140mph wind, lower seismic, Class 4 Soil
- 6. 140mph wind, lower seismic, Class 5 Soil

### All scenarios assume:

- Minimum concrete rating of 2500 PSI
- An A1 anchor bolt embedment of 9 inches using M16 (5/8 in) HAS-V-36 all-threaded rod (ASTM F1554 Gr. 36) anchor rod with HIT-HY 200 adhesive

Design	B1, Width	B2, Width	T, Thickness	#N1 @ S1" O.C. Top Rebar	#N2 @ S2" O.C. Bottom Rebar
1	1753 mm (69 in)	1753 mm (69 in)	457 mm (18 in)	#4 @ 305 mm (12 in) O.C.	#4 @ 305 mm (12 in) O.C.
2	1753 mm (69 in)	1753 mm (69 in)	686 mm (27 in)	#4 @ 152 mm (6 in) O.C.	#4 @ 152 mm (6 in) O.C.
3	1524 mm (60 in)	1524 mm (60 in)	457 mm (18 in)	#4 @ 305 mm (12 in) O.C.	#4 @ 305 mm (12 in) O.C

Design	B1, Width	B2, Width	T, Thickness	#N1 @ S1" O.C. Top Rebar	#N2 @ S2" O.C. Bottom Rebar
4	1524 mm (60 in)	1524 mm (60 in)	457 mm (18 in)	#4 @ 305 mm (12 in) O.C.	#4 @ 305 mm (12 in) O.C.
5	1524 mm (60 in)	1524 mm (60 in)	457 mm (18 in)	#4 @ 305 mm (12 in) O.C	#4 @ 305 mm (12 in) O.C
6	1524 mm (60 in)	1524 mm (60 in)	457 mm (18 in)	#4 @ 305 mm (12 in) O.C	#4 @ 305 mm (12 in) O.C

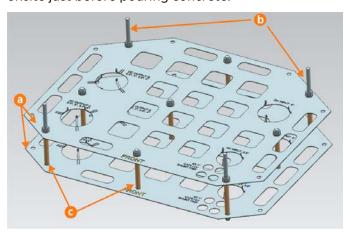
The concrete pad for the Power Block must either be designed to be site-specific, or must meet the specifications above. In some extreme conditions, a larger pad would be required. For sites with less stringent seismic, soil, or wind conditions, a smaller pad might be possible.

If the existing pad does not meet the specifications above, it must be inspected and approved by a structural engineer for each component's dimensions and weight. If needed, give these structural design specifications to the structural engineer for verification:

Product Weight	680 kg (1500 lbs)
Product Height from Ground	2160 mm (85 in)
Product Width	1000 mm (40 in)
Product Frontal Area	Height * Width
CG Height	- 1000 mm (40 in)
Number of Anchor Bolts	4
Bolt Pattern	See images in this section
Anchor Bolt Size	M16 (5/8 in)
Anchor Bolt Embedment	229 mm (9 in)

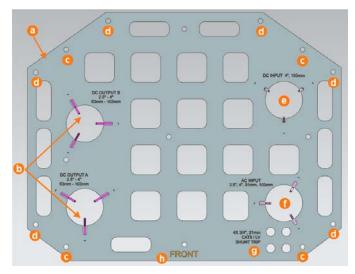
Power Block input and output cables can either be run under the grade surface in trenches, or they can be run along the grade surface and protected by wireways, as described in this section and <u>Mounting</u> Specifications for Surface Mount (page 11).

The Power Block has its own Concrete Mounting Template (CMT), which ships separately. It is assembled onsite just before pouring concrete.



- a. Plates (x2)
- b. Anchor bolts (x4) with fasteners (x8)
- c. Rigid spacers (x9)

An overview of Power Block conduit and cable entry locations is shown below.



- a. Power Block Concrete Mounting Template (CMT)
- b. DC output options: 200, 250, 350, or 500 A; up to 103 mm (4 inch trade size) conduit each
- c. M16 (5/8 in) anchor bolts (x4) with 76 mm (3 in) above concrete
- d. Surface Conduit Entry anchor positions (optional: x2 left, x2 rear, or x2 right)
- e. DC auxiliary input (requires optional package): 103 mm (4 inch trade size) conduit
- f. AC input: up to 103 mm (4 inch trade size) conduit
- g. Low voltage DC and Cat6 Shielded Twisted Pair (STP) Ethernet options, 21 mm (3/4 inch trade size) conduit (x4):
  - Shunt trip, if present (x1)
  - 1 Ethernet, 1 LV out: (x1)
  - 2 Ethernet, 1 or 2 LV out: (x2)
  - 3 Ethernet, 1 or 2 LV out: (x3)
- h. Front of enclosure (top view)

**Note:** For maximum wire and ground sizes and their minimum conduit sizes, see <u>Conduit and Wiring</u> Requirements (page 21).

**Note:** If two pairs of conductors are running to the same Power Link from a Power Block, conductors must be routed with bus A + and - in one conduit, and Bus B + and - in the other.

### **Power Link**

Conservative stability specifications for the station are listed below for the following design scenarios:

- 1. 170mph wind, high seismic, Class 3 Soil
- 2. 170mph wind, high seismic, Class 4 Soil
- 3. 170mph wind, high seismic, Class 5 Soil
- 4. 140mph wind, lower seismic, Class 3 Soil
- 5. 140mph wind, lower seismic, Class 4 Soil
- 6. 140mph wind, lower seismic, Class 5 Soil

#### All scenarios assume:

- Minimum concrete rating of 2500 PSI
- An A1 anchor bolt embedment of 9 inches using 5/8 inch all-threaded rod (ASTM F1554 Gr. 55) anchor rod with HIT-HY 200 adhesive

Design	B1, Width	B2, Width	T, Thickness	#N1 @ S1" O.C. Top Rebar	#N2 @ S2" O.C. Bottom Rebar
1	1499 mm (59 in)	1499 mm (59 in)	432 mm (17 in)	#4 @ 305 mm (12 in) O.C.	#4 @ 305 mm (12 in) O.C.
2	1499 mm (59 in)	1499 mm (59 in)	610 mm (24 in)	#5 @ 305 mm (12 in) O.C.	#5 @305 mm (12 in) O.C.
3	1499 mm (59 in)	1499 mm (59 in)	610 mm (24 in)	#5 @ 305 mm (12 in) O.C.	#5 @ 305 mm (12 in) O.C.
4	1219 mm (48 in)	1219 mm (48 in)	330 mm (13 in)	#4 @ 305 mm (12 in) O.C.	#4 @ 305 mm (12 in) O.C.
5	1219 mm (48 in)	1219 mm (48 in)	483 mm (19 in)	#5 @ 305 mm (12 in) O.C.	#5 @ 305 mm (12 in) O.C.
6	1219 mm (48 in)	1219 mm (48 in)	483 mm (19 in)	#5 @ 305 mm (12 in) O.C.	#5 @ 305 mm (12 in) O.C.

The concrete pad for the station must either be designed to be site-specific, or must meet the specifications above. In some extreme conditions, a larger pad would be required. For sites with less stringent seismic, soil, or wind conditions, a smaller pad might be possible.

If the existing pad does not meet the specifications above, it must be inspected and approved by a structural engineer for each component's dimensions and weight.

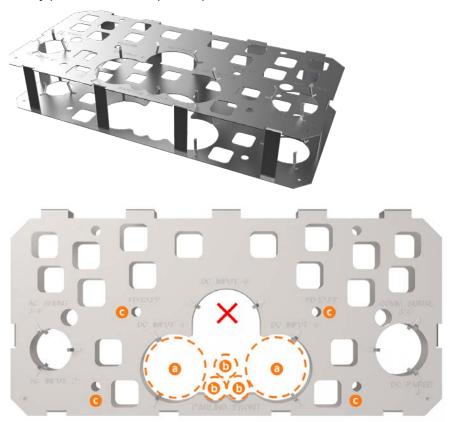
The station mounting points depend on the method of installation:

- Wall or other vertical mount
- Pedestal mount, with underground anchors and conduit
- Pedestal mount, with surface conduit entry and surface-drilled anchor bolts

Power Link service wiring enters from the bottom of the enclosure or from the back. In all cases, the maximum required wiring and conduit entries use the maximum conduit sizes listed above.

**Note:** This conduit layout reflects the largest conduit options. See the Power Block section with wiring size options for more information.

For pedestal mounting, Power Link stations use the DC Universal CMT, which also fits other DC fast charging stations such as the Express 250 and can be used as an upgrade path. This CMT is embedded in a newly poured concrete pad to position both the anchor bolts and the conduit stub- ups detailed above.



- a. DC conductors: up to 103 mm (4 inch trade size) conduit each
- b. 48 VDC and Cat6 Shielded Twisted Pair (STP) Ethernet: 21 mm (3/4 inch trade size) conduit
- c. Power Link anchor bolts (x4) with 76 mm (3 in) above concrete

**Note:** Low voltage lines can be routed in the same conduit as Ethernet, if the wires are routed to the same location.

Note: Only round openings in the CMT are functional. Square CMT openings allow concrete flow.

# **Mounting Specifications for Surface Mount**

Power Blocks and Power Links support wiring that is run above ground in protected wireways, for locations where no underground wiring access exists (parking garages, etc.) or where underground junction boxes are not permitted.

If cables are run above grade, they must be housed in wireways that conform to local code. Use a ChargePoint approved surface mount solution for the following benefits:

- Support of the weight of conduits and components without compromising cover panel integrity
- Ensure all terminations meet ingress requirements where they meet the component
- No obstructions to ventilation, which is required during operation

To prepare the site for above grade wiring:

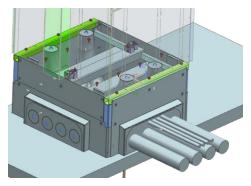
- Ensure the plans for the concrete pad and access area allow full service access to all components.
   Surface conduit entry might require larger clearance areas than embedded installations, as described in later sections.
- Prepare the concrete surface where the components will be anchored so that the concrete is solid
  and smooth, with no old hardware or stub-ups extending above grade. The Power Block and Power
  Links anchor to the concrete using epoxied bolts and require a level mounting surface.
- Highly flexible wire is recommended, to minimize bend radius.

### **Power Block**

Use the Power Block dimensions listed above to allow space and to calculate the locations of anchor bolts to be drilled and epoxied before installation. Include the two anchor bolts for whichever side will house the surface conduits.

The Power Block can be installed with a pedestal cover panel (only one: left side, rear, or right side) that is sturdy enough to fasten to surface conduit. A surface mount cover panel has guide holes to drill out the correct size openings for that site's conduits per the site drawings.

**Note:** The image shows examples of positioning only. All conduit for a Power Block must enter through a single face. Arranging input and output on opposite sides for rows of Power Blocks is not supported.



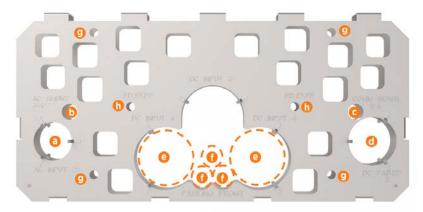
### **Power Link**

A pedestal-mount Power Link also accepts Surface Conduit Entry. The surface conduit can enter from the pedestal back, or approach from one side and use a 90 degree elbow to join the pedestal back. Use a ChargePoint approved surface mount template to correctly align anchor bolt locations for drilling and epoxy. The maximum conduit sizing must still align with the values described in <a href="Mounting Specifications for Pads">Mounting Specifications for Pads (page 7)</a>.

# Installing Express 250 Stations for Later Power Link Replacement

The DC Universal CMT allows a site to install Express 250 stations now, for later upgrade to Power Links. To use this upgrade path:

1. Install ALL conduits for both current AND future stations in the concrete now, per site drawings. Future conduit stub-ups must protrude 25 mm (1 in) above grade, but not higher than 33 mm (1.3 in), to prevent interference with the current station. Cap all future conduit. Conduits include:



- a. Express 250 AC input
- b. Express 250 shunt trip (optional)
- c. Express 250 Ethernet (Paired installations only)
- d. Express 250 DC (Paired installations only)
- e. Power Link DC input
- f. Power Link 48 V/ Ethernet Cat6 STP connections (varies by site)
- 2. Install anchor bolts in the CMT in the correct position for the Express 250 station only (callout g).
- 3. Do not pull future wires until the stations are being exchanged.

In the future, when the station is exchanged:

- 1. Cut the old rear anchor bolts (g) to grade level.
- 2. Remove the old wiring.
- 3. Cut the old stub-ups (a-d) to grade level and seal them to prevent pest ingress.
- 4. Use a ChargePoint-provided surface mount template to drill and epoxy new rear anchor bolts in place (h). Refer to the Express Plus Installation Guide for the complete procedure.

# **Drainage**

Ensure any site slopes, walls, or fencing do not trap water around the installation site. The system is only built to withstand 457 mm (18 in) of standing water.

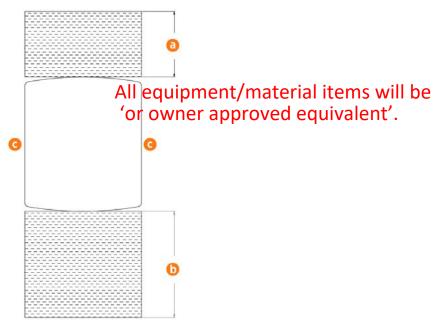


WARNING: Exposing the ChargePoint® charging components to over 457 mm (18 in) of standing water could create an electrocution, shock, or fire hazard. Cut power to the component if it has been exposed to standing water and contact ChargePointbefore the component is powered on.

# **Clearances**

### **Power Block**

The Power Block requires minimum site and service clearances as listed below.



- a. Rear: 457 mm (18 in) required, 610 mm (24 in) recommended
- b. Front: 1000 mm (39.3 in)
- c. Sides: 51 mm (2 in) (measured from the exterior of each side cover panel)

Front and rear clearances must be at grade level +/- 13 mm (0.5 in).

The interior of the Power Block is accessed from both the front and rear cover panels, which lift off. No separate door swing clearance is required.

Fencing, bollards, or wheel stops must not encroach upon the clearances listed above, if present. These barriers are not explicitly required by ChargePoint.

Power Blocks can be laid out side by side, or back to back with minimal spacing for service and ventilation.

If Power Blocks are laid out side by side, wiring can enter from the rear or outside face, using either surface entry or (recommended) bottom entry. However, when units are side by side, wiring for the row cannot pass through one unit into another.

**Note:** A Power Block cannot be positioned more than 100 m (328 ft) from any of its associated stations because of Ethernet communication restrictions.

Side clearances can be shared between Power Blocks as long as:

- Front and rear clearances are maintained
- At least 457 mm (18 in) of clearance exists at each end of a row of Power Blocks

· Access to the back of each Power Block exists for maintenance



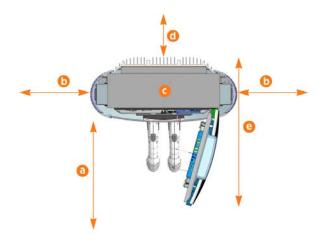
For any questions about allowable layouts, contact ChargePoint.

Check local and regional code for any additional clearance requirements regarding safety, high voltage equipment, disability requirements, etc.

**Note:** Each Power Module weighs 45 kg (98.5 lbs). Service for each Power Block requires either two technicians, or a level, rollable surface for service carts to remove and replace Power Modules.

### **Power Link**

The Power Link requires minimum site and service clearances as listed below.



a. Front clearance: 610 mm (24 in) minimum open space

b. Side clearance: 305 mm (12 in)\*

c. Top clearance: 305 mm (12 in)

d. Rear clearance: 203 mm (8 in) only required for CMK installation and servicing\*\*

e. Door swing plus station width: 730 mm (28.7 in)

- \* Side clearance is measured from top corner to top corner. Side clearance can be shared between two Power Links.
- \*\*All operation and service for the Power Link is performed from the front. No rear clearance is required unless a CMK is installed.

# **Bollards and Wheel Stops**

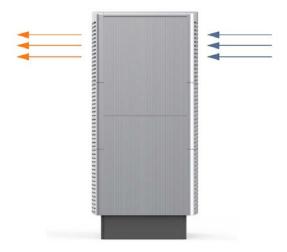
Bollards and wheel stops are not explicitly required by ChargePoint. However, ChargePoint recommends these best practices and considerations when designing the site:

- Permanent bollards or wheel stops must not encroach upon the clearances listed in the clearance diagrams in this section. Removable bollards are allowed if service personnel have the ability to move them as needed.
- Where permitted by code, wheel stops are preferred over bollards for head-in or back-in spaces.
- When using wheel stops, consider the average vehicle overhang distance for the largest type of vehicle (passenger, bus, etc.), as well as leaving space for the driver to walk up and access the station.
- When bollards are required by code, needed for snowy areas, or needed for curbside spaces, ensure bollard placement does not interfere with removing and replacing charge cables in the station's holsters.
- Try to minimize bollard interference with the movement of charge cables between the station and the vehicle. Bollard height is recommended to be no higher than 914 mm (36 in) where needed.

### **Ventilation**

Ensure that any installation, especially an indoor installation, has adequate airflow to dissipate heat at maximum operation. The charging location must allow fresh ambient airflow. Do not install a charging component where it is exposed to air that is heated above ambient temperatures. Restriction of airflow, or temperatures outside the operating range, might result in reduced maximum performance.

Intake vents are positioned at the front of the Power Block (blue arrows), and exhaust vents are at the rear (orange arrows). When positioning multiple Power Blocks, orient intake and exhaust to avoid recirculation.



# **Signage**

Refer to local and regional code to design the following elements for the site:

- Any required re-striping of parking spaces
- EV or Accessible EV signs
- EV or Accessible EV paint markings on and around the parking spaces

# -chargepoin+

# **Electrical Design** 3

The default Express Plus installation requires service wiring installed underground. (If a site requires surface mounting, contact ChargePoint before beginning work, to obtain an approved installation method.) Conduit and wire size are determined based on the length of runs from the electrical panel to the station location. Service wiring in conduit, or armored cable, must be run as required to comply with local electrical codes. Consult national and local codes or a project engineer to determine the grade, quality, and size of the conduit or cable.

The Power Block is available in 200, 250, 350, and 500 A versions, each with its own fuses and rating labels.

Note: All wiring and conduit is supplied by the contractor unless otherwise indicated.

# **Upstream Components**

Charging stations are considered continuous load devices (EVs draw maximum load for long durations). Therefore, electrical branch circuits to EV chargers must be sized at 125% of the load on each leg of a 3-phase panel for North American installations, in accordance with National Electric Code requirements. For other regions, refer to local code.

When planning multiple EV charging stations, it is best practice to segment non-continuous and continuous loads, with all branch circuits for EV charging on a dedicated electrical panel assembly with adequate circuit breakers. When sizing new electrical panels dedicated for EV charging, all branch circuits must support continuous load.

Each Power Block requires its own service panel breaker as follows:

	Input Current Rating	Recommended Overload Protection	Minimum Circuit Breaker Size
400 V (EU)	315 A	370 A*	400 A
480 V (N. America)	260 A	325 A**	350 A

<sup>\*</sup>Adds 5% to current at low line conditions

<sup>\*\*</sup>The overload setting for North America is fixed at 125% of continuous rated current



**WARNING:** In areas with frequent thunderstorms, add surge protection at the service panel for all circuits. Use new circuit breakers only.

Used breakers can damage equipment and introduce the potential for an electrical fire.

Ensure all power and ground connections, especially those at the breaker and bus bar, are clean and tight. Remove all oxide from all conductors and terminals before connecting wiring.

The Power Link charging station is tested to IEC 61000-4-5, Level 5 (6 kV @ 3000 A) standards.

### **AC Disconnect Switch**

A local AC disconnect switch, separate from the shunt trip wiring, is recommended to be installed between each Power Block and the electrical panel. This is especially important if the main electrical panel or utility room is distant, out of line of sight, or has restricted access. For North America installations, refer to disconnect switch requirements per NEC Article 625, "Electric Vehicle Charging and Supply Equipment Systems".

# **Transformer Configuration**

Refer to the following tables to configure electrical service.

	North America	Europe
Input Rating	480 VAC, 3-phase, 260 A, 60 Hz	400 VAC, 3-phase, 310 A, 50 Hz
Electrical Service Configuration	277/480 3-phase plus ground, grounded WYE (Y) configuration*	230/400, 3-phase plus ground, grounded WYE (Y) configuration*
Product Connection	3-phase 480 plus ground (neutral not used)	3-phase 400 plus protective earth (neutral not used)
Harmonic Current Rating	K factor 4	K factor 4

<sup>\*</sup>Delta (floating or grounded) is not supported

# **Grounding/Earthing Requirements**

- The Power Block must be connected to a grounded, metal, permanent wiring system.
  - North America: A service ground conductor must be run with circuit conductors and connected to an equipment-grounding terminal on the Power Block.
  - Europe: Use TN-S or TN-C-S configurations. (TT is not recommended because it requires RCDs.)
- Ensure a grounding conductor that complies with local codes is properly grounded to earth at the service equipment or, when supplied by a separate system, at the supply transformer.

- The Power Block must be connected to a grounded, metal, permanent wiring system. An equipmentgrounding conductor must be run with circuit conductors and connected to an equipmentgrounding terminal or lead on the Power Link.
- All charging components must be bonded to one another in sequence: either Power Block to Power Link, or Power Block to distribution cabinet (if used) to Power Link.
- Some regions also require a grounding rod to be installed adjacent to each component. Check local code to ensure compliance.

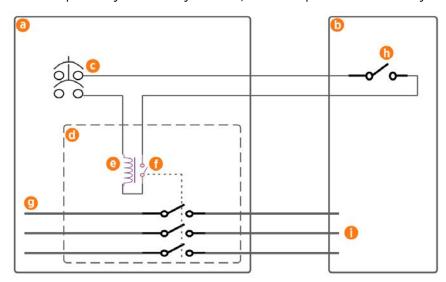
# **Shunt Trip Wiring**

The Power Block provides a set of unpowered (dry) contacts to connect to an optional shunt trip device. These contacts are rated to 240 VAC and 6 amps.

Wiring sections to and from the Power Block are deactivated when unsafe conditions are detected, such as unintended cover panel removal. A breaker reset is required any time the shunt trip is activated.

If installed, each Power Block must be wired to the shunt trip unit of its own upstream circuit breaker. Upstream AC power must be shut off at the panel to remove shock risk inside the Power Block. All shunt trip behavior is already hard-coded into the charging station and has no programmable variables.

Emergency stop devices are governed by local and regional codes and may be required in some sites. If one is required by code or by the site, confirm specifications with your ChargePoint representative.



- a. Electrical panel
- b. Power Block
- c. Control voltage supply, maximum 240 VAC
- d. Shunt trip circuit breaker
- e. Shunt trip coil
- f. Auxiliary contacts (closed when main contacts are closed)
- g. Three-phase AC main

- h. Power Block shunt trip contacts, Normally Open (inside the auxiliary power supply, accessible on field wiring terminal block)
- i. Three-phase Power Block AC input

Use a shunt trip breaker that has a set of auxiliary contacts wired in series with the shunt trip coil. The auxiliary contacts are closed when the breaker is closed. Once the breaker is tripped, the contacts open and stops current flow in the shunt coil. The shunt coil is not meant for to be activated for extended periods.

### **Maintenance Switch**

ChargePoint strongly recommends selecting the maintenance switch option on each Power Link for fleet implementations, to improve system uptime during maintenance. For Power Links that do not have an internal or external DC disconnect switch, servicing the station requires the Power Block upstream to be powered off. This can affect system uptime and fleet scheduling.

Power Links have two options for disconnecting DC power. The station can be purchased with an optional maintenance switch already installed in the station body, or an external switch can be added between each Power Link and its Power Block if preferred. External DC disconnect switches are required to have Normally Closed (NC) contact feedback wired into the Power Link.

For stations with the internal maintenance switch, the disconnect feedback positively conveys to the Power Link that the DC connection is open upstream, and the unit can be serviced safely.

If the Power Link detects its door is opening but the disconnect status is absent, or the disconnect is closed, the station signals the upstream Power Block to disable its output to prevent a shock hazard. The system software keeps the Power Block outputs disabled until the site owner clears all needed safety checks.

# **Conduit and Wiring Requirements**

For full product specifications, refer to the Express Plus Datasheet. Using that data, ensure the installation location is equipped with service wiring that supports the Express Plus site's power requirements:



**Important:** All AC and DC conductors landing on ChargePoint equipment shall be copper or aluminum, and rated to 90°C (194°F) minimum. All 48 VDC conductors must be rated to 75°C (167°F) minimum and 90°C (194°F) is recommended.

In regions that use conduit, the outer diameter of conduit must not exceed the sizes called out in the conduit layout drawing below.

In regions that do not use conduit, armored cable may be laid in the same configuration to conform to the wire placement on mounting templates.

**Note:** For North American installations, per UL 2202, overhead configurations must use no more than 3 conductors per pole, and those three conductors cannot be larger than 85 mm2 (3/0 AWG). Reference UL code for wire bend limitations for 203 mm (8 in) of available space.

Notes for all wiring regions:

- Use one input feed per Power Block.
- The maximum wiring run length is 100 m (328 ft) between aPower Block and each of its Power Links for DC conductors, 48 V wiring, and Ethernet.
- 48 VDC wiring must be rated for 600 V.
- Power Link conduit must be sealed to the station gland plate to maintain a Pollution Degree 2 environment.
- Ethernet communication between Power Blocks and Power Links must be Cat6 Shielded Twisted Pair (STP) cable, with the shield wire terminated at both ends. Lesser grades of cable do not have the required noise immunity.
- All sizes are generic and provided for reference only. The installation contractor must perform sitespecific wire sizing, taking into account run length, site conditions, and applicable codes.

# **Maximum Wiring Sizes**

**Note:** This table reflects the largest possible wire sizes in each case. All sizing assumes a maximum ambient temperature of 50°C (122°F). Actual wire sizing and types should be designed to be site-specific.

### **48 VDC Power**

Туре	Input Current Rating	Input Voltage Rating	Size	Minimum Conduit Size
48 VDC	10 A	600 VDC	16 mm2 (6 AWG)	21 mm (3/4 inch trade size)

# **AC Input, Copper**

Note: Aluminum AC input sizing does not meet minimum bend radius restrictions.

Туре	Input Current Rating	Conductors Per Pole	Size	Ground	Minimum Conduit Size
AC input (THHN)	260 A 480 VAC	1	400 mm2 (750 kcmil)	27 mm2 (3 AWG)	89 mm (3.5 in trade)
		2	185 mm2 (350 kcmil)	27 mm2 (3 AWG)	89 mm (3.5 in trade)
		3	120 mm2 (4/0 AWG)	27 mm2 (3 AWG)	76 mm (3 in trade)
		4	120 mm2 (4/0 AWG)	27 mm2 (3 AWG)	89 mm (3.5 in trade)

# **DC Output, Copper**

Туре	Input Current Rating	Conductors Per Pole	Size	Ground	Minimum Conduit Size
DC output	500 A	1			
(XHHW)		2			
		3	240 mm2 (500 kcmil)	55 mm2 (1/0 AWG)	102 mm (4 in trade)
		4	185 mm2 (350 kcmil)	55 mm2 (1/0 AWG)	102 mm (4 in trade)
	350 A	1			
		2	240 mm2 (500 kcmil)	35 mm2 (2 AWG)	76 mm (3 in trade)
		3	185 mm2 (350 kcmil)	35 mm2 (2 AWG)	76 mm (3 in trade)
		4	120 mm2 (4/0 AWG)	35 mm2 (2 AWG)	76 mm (3 in trade)
	300 A	1			
		2	240 mm2 (500 kcmil)	27 mm2 (3 AWG)	89 mm (3.5 in trade)
		3	120 mm2 (4/0 AWG)	27 mm2 (3 AWG)	76 mm (3 in trade)
		4	95 mm2 (3/0 AWG)	27 mm2 (3 AWG)	76 mm (3 in trade)
	250 A	1	400 mm2 (750 kcmil)	27 mm2 (3 AWG)	76 mm (3 in trade)
		2	185 mm2 (350 kcmil)	27 mm2 (3 AWG)	76 mm (3 in trade)
		3	95 mm2 (3/0 AWG)	27 mm2 (3 AWG)	64 mm (2.5 in trade)
		4	70 mm2 (2/0 AWG)	27 mm2 (3 AWG)	64 mm (2.5 in trade)
	200 A	1	240 mm2 (500 kcmil)	25 mm2 (4 AWG)	64 mm (2.5 in trade)
		2	120 mm2 (4/0 AWG)	25 mm2 (4 AWG)	64 mm (2.5 in trade)
		3	55 mm2 (1/0 AWG)	25 mm2 (4 AWG)	64 mm (2.5 in trade)
		4	50 mm2 (1 AWG)	25 mm2 (4 AWG)	64 mm (2.5 in trade)

# **DC Output, Aluminum**

Туре	Input Current Rating	Conductors Per Pole	Size	Ground	Minimum Conduit Size
DC output	500 A	1			
(XHHW)		2			
		3			
		4			
	350 A	1			
		2	400 mm2 (750 kcmil)	55 mm2 (1/0 AWG)	102 mm (4 in trade)
		3	185 mm2 (350 kcmil)	55 mm2 (1/0 AWG)	89 mm (3.5 in trade)
	300 A 1 2	4	185 mm2 (350 kcmil)	55 mm2 (1/0 AWG)	102 mm (4 in trade)
	300 A	1			
		2	400 mm2 (750 kcmil)	50 mm2 (1 AWG)	102 mm (4 in trade)
		3	185 mm2 (350 kcmil)	50 mm2 (1 AWG)	89 mm (3.5 in trade)
		4	120 mm2 (4/0 AWG)	50 mm2 (1 AWG)	76 mm (3 in trade)
	250 A	1	500 mm2 (1000 kcmil)	50 mm2 (1 AWG)	76 mm (3 in trade)
		2	240 mm2 (500 kcmil)	50 mm2 (1 AWG)	76 mm (3 in trade)
		3	120 mm2 (4/0 AWG)	50 mm2 (1 AWG)	76 mm (3 in trade)
		4	95 mm2 (3/0 AWG)	50 mm2 (1 AWG)	76 mm (3 in trade)
	200 A	1	400 mm2 (750 kcmil)	35 mm2 (2 AWG)	76 mm (3 in trade)
		2	185 mm2 (350 kcmil)	35 mm2 (2 AWG)	76 mm (3 in trade)
		3	95 mm2 (3/0 AWG)	35 mm2 (2 AWG)	64 mm (2.5 in trade)
		4	55 mm2 (1/0 AWG)	35 mm2 (2 AWG)	64 mm (2.5 in trade)

# **North American Requirements**

	Inputs to Power Block			Power Blo	ock to Distr	ibution Box	Distribution Box to Each Power Link		
	AC and Gnd	DC	Shunt Trip / EPO	HVDC Output	48 VDC Output	Ethernet	HVDC Output	48 VDC Output	Ethernet
Circuit Voltage	480 VAC	500~ 750 VDC	< 240 V	200- 1000 V	48 V		200 - 1000 V	48 V	
Max Current	260 A	400 A	6 A	200, 250, 350, or 500 A	10 A		200, 250, 350, or 500 A	10 A	
Notes	L1, L2, L3, Gnd	Option		2 outputs	Rated for 600 V	Cat6 STP		Rated for 600 V	Cat6 STP

# **UK and European Requirements**

	Inputs to Power Block			Power Blo Box	ock to Distr	ibution	Distribution Box to Each Pow Link		
	AC and Gnd	DC	Shunt Trip / EPO	HVDC Output	48 VDC Output	Ethernet	HVDC Output	48 VDC Output	Ethernet
Circuit Voltage	400 VAC	500~ 750 VDC	< 240 V	200- 1000 V	48 V		200- 1000 V	48 V	
Max Current	315 A	400 A	6 A	200, 250, 350, or 500 A	10 A		200, 250, 350, or 500 A	10 A	
Notes	3р+Е	Option		2 outputs	Rated for 600 V	Cat6 STP		Rated for 600 V	Cat6 STP

# **Cellular Connectivity**

A consistently strong cellular signal is needed before installers can activate the station. Weak or sporadic signal can affect crucial aspects of the charging station, including:

- · Accuracy in reporting
- Ability for drivers to use their mobile app

- Ability for customer support to troubleshoot problems
- Support for advanced features such as Power Management or Waitlist

Strong signal is also required for the ChargePoint Assure maintenance and management programs.

ChargePoint stations use cellular data connections to reach ChargePoint Cloud Services. This allows secure, PCI-compliant data connections without requiring any other form of internet connectivity at an install site or imposing additional network management responsibilities on a site host.

Each station has its own cellular connection.

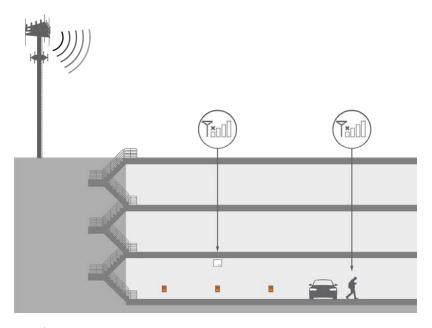
# **Signal Strength and Quality**

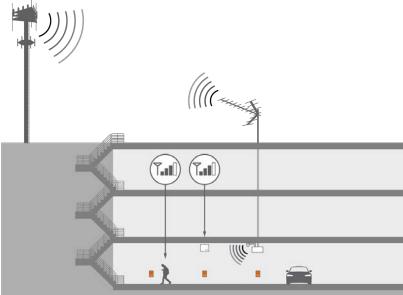
Use a cellular signal detection device (such as a Siretta Snyper LTE or equivalent) to take signal strength readings at the exact proposed charging station or gateway locations.

For stations using LTE, test the location of every station and ensure it meets minimum RSRQ at -12.5 dB or better, for RSRP measured at -90 dBm or better. Refer to the graph for acceptable combinations. Note that these numbers are all negative, so -70 dBm is stronger than -85 dBm, and -90 dBm is weaker.



If the signal strength is weaker than this, take cellular readings at the location where any cellular signal booster antennas will be installed. Ensure enough signal exists for that repeater model. Install repeaters to boost the strength of the cellular signals. Repeaters are often required when installing charging stations in an underground garage or enclosed parking structure.





In North American regions, ChargePoint products all support LTE bands 2, 4, and 5. The most commonly supported carriers to check during site evaluation are:

- US: AT&T, T-Mobile, Verizon
- Canada: Rogers, Telus, and Bell

In European regions, ChargePoint products all support LTE bands 1, 3, 7, 8, and 20. 900 and 1800 MHz are also supported for 2G fallback. Partners vary by country.

For other regions, or if the site does not have strong signal on these bands, contact your ChargePoint representative for additional solutions.

ChargePoint strongly recommends a consultation with a cellular connectivity specialist before all installations. A consultation can verify:

- Service with a supported carrier on a supported LTE band
- Available signal and local noise levels on applicable bands
- Site changes to correctly meet your needs-- both for station bandwidth needs and other phone coverage for customer or tenant satisfaction

### Repeaters

Some sites require repeaters to ensure strong signal to all stations. If a repeater is required, look for a model with these features:

- Specifically LTE compatible on the listed bands
- Multi-carrier
- Multi-band
- Not already dedicated to FirstNet or other first responder-specific networks
- Auto-gain recommended

**Note:** Do not rely on readings taken with a cell phone when conducting site surveys. Many signal boosters and network extenders may not be compatible with ChargePoint hardware, including certain types of Distributed Antenna Systems (DAS), micro/nano/pico/femto-cells, and carrier- or band-specific signal boosters.

### **Limited Warranty Information and Disclaimer**

The Limited Warranty you received with your charging station is subject to certain exceptions and exclusions. For example, your use of, installation of, or modification to, the ChargePoint® charging station in a manner in which the ChargePoint® charging station is not intended to be used or modified will void the limited warranty. You should review your limited warranty and become familiar with the terms thereof. Other than any such limited warranty, the ChargePoint products are provided "AS IS," and ChargePoint, Inc. and its distributors expressly disclaim all implied warranties, including any warranty of design, merchantability, fitness for a particular purposes and non-infringement, to the maximum extent permitted by law.

### **Limitation of Liability**

CHARGEPOINT IS NOT LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION LOST PROFITS, LOST BUSINESS, LOST DATA, LOSS OF USE, OR COST OF COVER INCURRED BY YOU ARISING OUT OF OR RELATED TO YOUR PURCHASE OR USE OF, OR INABILITY TO USE, THE CHARGING STATION, UNDER ANY THEORY OF LIABILITY, WHETHER IN AN ACTION IN CONTRACT, STRICT LIABILITY, TORT (INCLUDING NEGLIGENCE) OR OTHER LEGAL OR EQUITABLE THEORY, EVEN IF CHARGEPOINT KNEW OR SHOULD HAVE KNOWN OF THE POSSIBILITY OF SUCH DAMAGES. IN ANY EVENT, THE CUMULATIVE LIABILITY OF CHARGEPOINT FOR ALL CLAIMS WHATSOEVER RELATED TO THE CHARGING STATION WILL NOT EXCEED THE PRICE YOU PAID FOR THE CHARGING STATION. THE LIMITATIONS SET FORTH HEREIN ARE INTENDED TO LIMIT THE LIABILITY OF CHARGEPOINT AND SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.

#### **FCC Compliance Statement**

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case, you will be required to correct the interference at your own expense.

Important: Changes or modifications to this product not authorized by ChargePoint, Inc., could affect the EMC compliance and revoke your authority to operate this product.

Exposure to Radio Frequency Energy: The radiated power output of the 802.11 b/g/n radio and cellular modem (optional) in this device is below the FCC radio frequency exposure limits for uncontrolled equipment. The antenna of this product, used under normal conditions, is at least 20 cm away from the body of the user. This device must not be co-located or operated with any other antenna or transmitter by the manufacturer, subject to the conditions of the FCC Grant.

#### **Industry Canada**

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter

### FCC/IC Compliance Labels

Visit chargepoint.com/labels



chargepoint.com/support 75-001359-01r3



# **Express Plus Construction Signoff Form**

This form ensures the site for your ChargePoint EV charging stations has been prepared as specified, by you or by your chosen contractor, before installing your charging stations. Submit this completed form and the required photos to <a href="mailto:installdispatch@chargepoint.com">installdispatch@chargepoint.com</a>. Detailed datasheets, site design guides, and installation guides defining ChargePoint specifications are online at: <a href="mailto:chargepoint.com/guides">chargepoint.com/guides</a>.

**IMPORTANT:** All installations must comply with local and regional code. ChargePoint provides concrete pad guidance applicable for most sites in the <u>Express Plus Site Design Guide</u>; however, pad sizes for a given site might be smaller or larger due to site conditions. Ensure site drawings have been completed and approved by a structural engineer for this site.

**Note:** If the station installer arrives to install the charging station and finds these items incomplete, you will incur a separate re-dispatch fee.

Site Information	Contractor Information
Site address:	Company name:
	Site lead name:
Number of stations to be installed:	Site lead job title:
Contact name:	Site lead email:
Contact phone:	Site lead phone:
Contact email:	Date work began:

Take the following photos for each location throughout the site construction process.

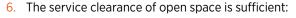
Required	Pictures
1	All trenching has been completed and conduit/ducting laid in place.
2	The Power Block Concrete Mounting Template (CMT) is in place and anchor bolts and conduit stub-ups have been inserted correctly. The CMT is being held at the proper height to prevent movement during the concrete pour.
3	inserted correctly. The CMT is being held at the proper height to prevent movement during the concrete pour.
W	all or overhead location secure with flex conduit and wire correctly installed.
4	Completed concrete pad (if applicable), showing anchor bolts and conduit stub-ups in place.
5	Overall space around each mounting location, showing all service clearances are available.
6	The electrical panel's specification label, showing total panel capacity.
7	The open electrical panel with the dead front panel removed, showing terminations.

Requi	Required Pictures					
	8.	The open electrical panel with the dead front panel on, showing breaker amperage ratings and labels for Express Plus connections				
	9.	The front of each AC disconnect (if applicable by region)				
	10.	Power Link sites are positioned so that each station front is facing the vehicle				

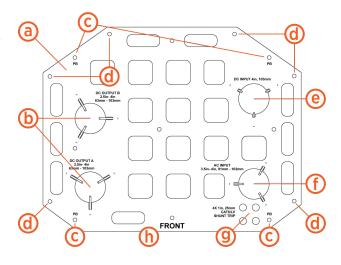
Civil \	Vork, Power Block
	1. The concrete pad was either designed and approved by a structural engineer for this specific site, OR supports these specifications:
	Product weight: 680 kg (1500 lb)
	Product height (from ground): 2160 mm (85 in)
	Product width: 1000 mm (40 in)
	Center of gravity height: approximately 1000 mm (40 in)
	• Anchor bolts: x 4 M16 (5/8 in)
	Anchor bolt embedment: 229 mm (9 in)
	2. Walls, fences, or slopes do not prevent water from draining from the pad.
	3. The Concrete Mounting Template (CMT) is installed in the pad, 50.8 mm (2 in) below the concrete surface, with anchor bolts in place in the CMT, OR Surface Conduit Entry (SCE) is ready for installation.
	4. Conduit stub-ups are cut to at least 559 mm (22 in) and 914 mm (24 in) above top of concrete. This allows them to reach the gland plate.

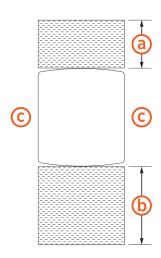
### Civil Work, Power Block

- 5. All conduits and anchor bolts are positioned correctly in the CMT:
  - a. Concrete Mounting Template
  - b. DC output options: 200, 250, 350, or 500 A; up to 103 mm (4 inch trade size) conduit each
  - c. M16 (5/8 in) anchor bolts (x4) with 76 mm (3 in) above concrete
  - d. Surface Conduit Entry anchor positions (optional: x2 left, x2 rear, or x2 right)
  - e. DC auxiliary input (requires optional package): 103 mm (4 in trade size) conduit
  - f. AC input: 103 mm (4 inch trade size) conduit
  - g. Low voltage DC and Cat6 Shielded Twisted Pair (STP) Ethernet options, 21 mm (3/4 inch trade size) conduit (x4):
    - Shunt trip: if used (x1)
    - 1 Ethernet, 1 LV out: (x1)
    - 2 Ethernet, 1 or 2 LV out: (x2)
    - 3 Ethernet, 1 or 2 LV out: (x3)
  - h. Front of enclosure (top view)



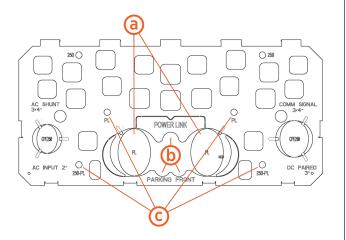
- a. Rear: 457 mm (18 in) required, 610 mm (24 in) recommended
   Note: Power Blocks can be positioned back-to-back with a total of 457 mm (18 in) of clearance between the two Power Blocks.
- b. Front: 1000 mm (39.3 in), at grade +/- 13 mm (0.5 in), flat and able to roll a service cart
- c. Sides: 51 mm (2 in), measured from the exterior of each side cover panel, OR side clearances can be shared between Power Blocks as long as front and rear clearances are maintained with access to the back of each and at least 457 mm (18 in) clearance at each end of a row





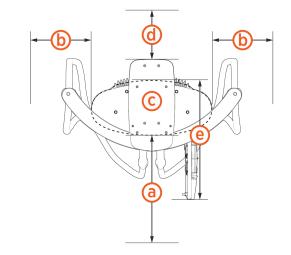
### Civil Work, Power Link

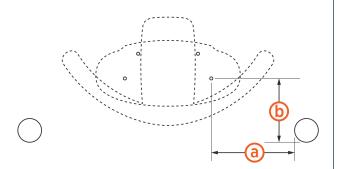
- 1. The concrete pad was either designed and approved by a structural engineer for this specific site, OR conforms to these specifications:
  - At least 305 mm (12 in) deep (or deep enough to be 305 mm (12 in) below the frost line)
  - At least 1296 mm (51 in) on each side
  - Contains #4 rebar or larger, top and bottom, 305 mm (12 in) on center
  - Concrete 2500 PSI minimum
- 2. Walls, fences, or slopes do not prevent water from draining from the pad.
- 3. The Concrete Mounting Template (CMT) is installed in the pad, 51 mm (2 in) below the concrete surface, with anchor bolts in place in the CMT, OR Surface Conduit Entry (SCE) is ready for installation.
- 4. Conduit stub-ups are cut to 102 mm (4 in) above top of concrete.
- 5. All Power Links are within 100 m (328 ft) of the associated Power Block.
- 6. All conduits and anchor bolts are positioned correctly in the CMT:
  - a. DC conductors: up to 103 mm (4 in trade size) conduit each
  - b. 48 VDC and Cat6 Shielded Twisted Pair (STP) Ethernet: 21 mm (3/4 in trade size) conduit
  - c. Power Link anchor bolts (x4) with 76 mm (3 in) above concrete



### Civil Work, Power Link

- 7. The service clearance of open space is sufficient:
  - a. Front: 610 mm (24 in) minimum open space
  - b. Side: 305 mm (12 in)\*
  - c. Top: 305 mm (12 in)
  - d. Rear: 203 mm (8 in) only required for CMK installation and servicing\*\*
  - e. Door swing plus station width: 730 mm (28 3/4 in)
  - \* Side clearance is measured from top corner to top corner. Side clearance can be shared between two Power Links.
  - \*\* All operation and service is performed from the front. No rear clearance is required unless a CMK is installed.





- 8. Charging station sites are positioned so that the front of each station is facing the vehicle.
- 9. The charging station is at least 203 mm (8 in) from any wall as its rear clearance. Stations positioned back to back are no closer than 610 mm (24 in) shared clearance.
- 10. All signage, parking spot striping, and "EV" markings are completed per site drawings and local code.

### **Electrical Work**

1. A correctly rated, dedicated breaker is installed for each Power Block, per this table:

Nominal Voltage	Input Current Rating	Branch Circuit Capacity and Breaker	Breaker Size
Europe: 400 V	315 A	350 A or 400 A	400 A
North America: 480 V	260 A		400 A

2. The transformer nameplate shows that wiring is Wye (Y) connected, 3-phase with bonded neutral plus Ground, minimum K factor 4.

Note: Delta (floating or grounded) configuration is not supported.

Electrical Work								
	3. Breakers have shunt trip capability to each Power Block if the site drawing calls for shunt trip wiring.							
	4. All electrical infrastructure has been completed per local codes and ChargePoint specifications for 3-phase power plus ground, with properly sized copper as defined in the <a href="Site Design Guide">Site Design Guide</a> . (Do not install Neutral.)							
		Conductor	Conductor Rating	# of Poles	Insulation Type	Temp Rating		
		AC input	Europe: 315 A, 400 VAC North America: 260 A, 480 VAC	3 + PE	THHN/THWN	90°C		
		HVDC output	200-500 A, 1000 VDC	2 + PE	XHHW-2	90°C		
		48 VDC	10 A, 600 V	2	THHN/THWN	90°C		
	<ul> <li>5. Outdoor rated Ethernet Cat6 STP cable, without terminations, is pulled between the two stations with 2 m (6 ft) of service loop at each end.</li> <li>6. Wi-Fi and cellular signal strength meet requirements per the station's <u>Site Design Guide</u>.</li> </ul>							
Site Co	mm	ents						
nas bee	n co	rrectly complete	ed.	hereby certify	that the scope of	work in this form		
Signature				Date				



chargepoint.com/support 75-001506-01r2

ALL EQUIPMENT SHALL BE INSTALLED AND LABELED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AND ALL APPLICABLE REQUIREMENTS OF THE SERVING ELECTRIC UTILITY COMPANY AND THE AUTHORITY HAVING JURISDICTION.

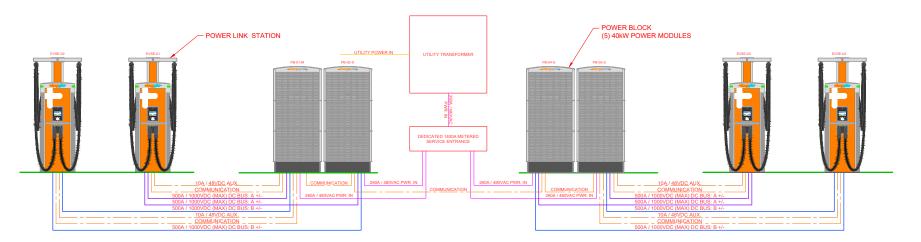
UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC. EXPOSED CONDUIT SHALL BE EMT, ENT, RMC, OR AS REQUIRED FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.

ALL CURRENT CARRYING CONDUCTORS SHALL BE COPPER.

SEE SPEC SHEET FOR POWER MANAGEMENT OPTIONS.

DOCUMENT FOR DESIGN GUIDE ONLY, NOT FOR CONSTRUCTION.

All equipment/material items will be 'or owner approved equivalent'.



**DUAL 2:2 POWER LINK PAIRING DETAIL** 

SCALE: NTS

	CAMPBELL, CA 95008			2.9 DOWER LINK PAIRED DETAILS	ווין אוויבט טבואונט	DIVIDI NIK 22 E GOOA A	DWG#
PROJECT: CHARGEPOINT CPE250	240 E. HACIENDA AVENUE, CAMPBELL, CA 95008		DWG TITLE:	0.0 DOWER I IN	2.2 I OVEIVEIV	SCALE: NTS	DATE: 7/5/2022
CHARGEPOINT, INC.	240 E. HACIENDA AVENUE, CAMPBELL, CA 95008						SCALE PRINT AT 8.5"x11"
	BY DATE	PS 07/05/22					
REVISIONS	CRIPTION	EXPRESS PLUS POWER LINK					

### **GENERAL NOTES**

ALL EQUIPMENT SHALL BE INSTALLED AND LABELED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AND ALL APPLICABLE REQUIREMENTS OF THE SERVING ELECTRIC UTILITY COMPANY AND THE AUTHORITY HAVING JURISDICTION. ALL LABELS SHALL BE APPLIED SECURELY WITH RIVETS.

UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, EXCEPT AS NOTED OTHERWISE ON THE DRAWING. EXPOSED CONDUIT SHALL BE EMT, ENT OR RMC AS REQUIRED FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.

ALL OCPDS, CONDUCTORS AND CONDUIT SIZES STATED HERE ARE PROVIDED BY CHARGEPOINT FOR REFERENCE ONLY. SITE SPECIFIC WIRE SIZING SHALL BE PERFORMED BY THE INSTALLATION CONTRACTOR TAKING INTO ACCOUNT LOCAL CONDITIONS AND CODES/ STANDARDS. ALL CONDUCTORS SHALL BE COPPER

ALL LOCATIONS SHOWN ARE APPROXIMATE AND EXACT LOCATIONS DETERMINED AT TIME OF CONTRACTOR CONSTRUCTION SUBMITTAL DOCUMENTS

CONTRACTOR SHALL PERFORM GPR AND TAKE ALL NECESSARY PRE-CAUTIONS TO WORK AROUND EXISTING UTILITIES. ALL PPE SHALL BE WORN AT ALL TIMES WHILE WORKING AROUND ENERGIZED EQUIPMENT. CONTRACTOR SHALL HAVE APPROPRIATE LICENSE WITH STATE.

TYPICAL SINGLE LINE SHOWN. SINGLE LINE MAY VARY DEPENDING ON PROJECT REQUIREMENTS AND/OR RESTRICTIONS.

MAX CONDUIT AND CONDUCTOR SIZES CALLED OUT IN DESIGN.
SEE DESIGN GUIDE FOR MORE CONDUCTOR SIZES AND CONFIGURATIONS.

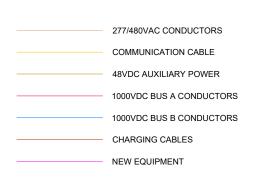
\* 400A BREAKER ACCEPTABLE IF 350A BREAKER NOT READILY AVAILABLE.

### **NEW WORK KEYNOTES**

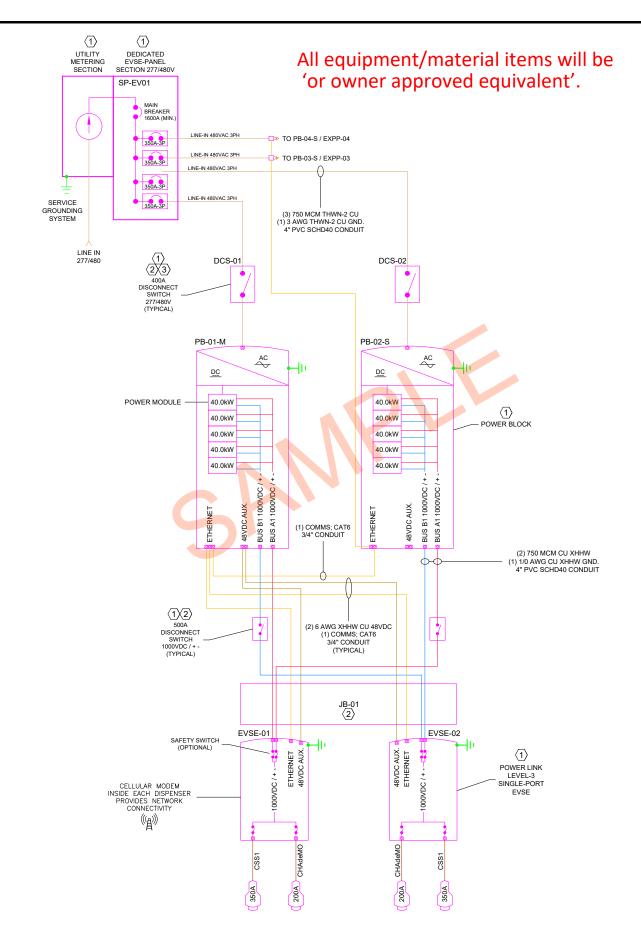
- (1) LISTING AGENCY NAMES AND NUMBERS TO BE INDICATED ON ALL FLECTRICAL FOLIPMENT PER NEC 110.3(B)
- (2) EQUIPMENT MAY OR MAY NOT BE PRESENT IN FINAL DESIGN.
- NEC 625.43 DISCONNECTING MEANS. FOR EQUIPMENT RATED 60A OR MORE THAN 150V TO GROUND, DISCONNECTING MEANS SHALL BE PROVIDED IN ACCORDANCE TO NEC 110.22, 110.25, AND 110.58.

### **LEGEND**

- DCS-##: DISCONNECT SWITCH
- EVSE-##: ELECTRIC VEHICLE SERVICE EQUIPMENT
- JB- ## : JUNCTION BOX / PULL BOX
- PB- ## : POWER BLOCK (M = MASTER / S = SLAVE)
- SPEV- ## : EVSE DEDICATED SUB-PANEL



THIS PUBLICATION CONTAINS VALUABLE PROPRIETARY AND CONFIDENTIAL INFORMATION OF CHARGEPOINT, INC. ("CHARGEPOINT") WHO RETAINS ALL COPYRIGHT RIGHTS TO IT UNDER 17 U.S.C. SECTION 106 AND IS PROTECTED BY U.S. AND INTERNATIONAL LAW. ANY REPRODUCTION, PREPARATION OF DERIVATIVE WORKS, DISTRIBUTION, PUBLIC PERFORMANCE OR DISPLAY, DISCLOSURE, AND/OR USE OF ALL, OR ANY PORTION, OF THIS PUBLICATION IN ANY FORM OR MEDIUM WITHOILT SPECIFIC WRITTEN ALITHORIZATION FROM CHARGEPOINT IS STRICTLY PROHIBITED.



# POWER BLOCK BREAKER SELECTION

NOMINAL VOLTAGE	MAX AC CURRENT	CONTINUOUS LOAD	BREAKER SIZE	
400 V (EU/UK)	307A	5% 384A	400A	
480 V (NA)	260A	125% 325A	350A*	

CHPT-E-600#

LINE DIAGRAM

Ш

SINGL

 $^{\circ}$ 

 $\ddot{\circ}$ 

РР

NOTE: SEE SPEC SHEETS FOR POWER MANAGEMENT OPTIONS

THIS SINGLE-LINE DIAGRAM IS PRELIMINARY AND SUBJECT TO CHANGE BASED ON, AMONG OTHER THINGS, CHANGES IN PROJECT DESIGN, SCHEDULE, TECHNOLOGY, AND/OR SITE SPECIFIC UNKNOWN CONSTRAINTS.

THIS PRINT IS NOT TO BE USED FOR CONSTRUCTION JNLESS NOTED AND SIGNED OKAY FOR CONSTRUCTION ABOVE THE LAST REVISION.

### **Scope of Work**

**Project Title** - Electrical Vehicle Charging Station Make-Ready

**Project Location** – Three locations along the Interstate 75/81 Corridor in eastern Tennessee.

- 1. 2805 Decatur Pike, Athens, Tennessee 37303
- 2. 195 Van Hill Road, Greeneville, Tennessee 37745
- 3. 5290 S Davy Crockett Parkway, Morristown, Tennessee 37813

**Project Scope** - Project consists of the site work and electrical activities to facilitate the installation of ChargePoint Express Plus electric vehicle charging equipment (OR OWNER APPROVED EQUIVALENT) to provide up to 350kW of rapid electric vehicle charging capability. The installation and activation of the EV charging equipment is not included in this scope of work; however, the EV charging equipment footprint templates will be provided by Seven States for anchor bolt and electrical conduit installation to be completed by the awarded bidder. This project will provide the necessary provisions for the installation of four ChargePoint Express Plus Power Link 1000 dispensers and four ChargePoint Express Plus Power Block 200kW rectifying cabinet at each site. Coordination will be required with the ChargePoint equipment installer to complete the necessary wiring, installation, and commissioning.

A project schedule shall be submitted as part of the offer in conjunction with the provided bid form. Please include a proposed start and completion date, showing any critical path items including equipment lead times and contingency plans.

The awarded bidder shall provide the following services.

Note: The following items should not be considered an all-inclusive list. All work shall be performed in accordance with the included concept drawings, *ChargePoint Express Plus Site Design Guide* and *Technical Specifications*. Bidder shall assume full responsibility for complying with all federal, state, and local codes and requirements needed to provide project completion in accordance with the Authority Having Jurisdiction (AHJ), as applicable. Bidder is responsible for obtaining all required permits to facilitate project completion.

#### **SITE PREPARATION**

- Provide a site plan showing the location of parking areas, striping plan, concrete foundations, signage, equipment locations, etc. for approval by the Local Power Company (LPC) and the site-host partner.
- Prior to beginning work, a pre-construction meeting is to be held on site including a
  representative from the awarded bidder, a LPC representative, and a representative of
  the site-host partner to discuss the project's proposed logistics, project layout, and
  schedule.
- Provide adequate traffic cones, barricades, and/or fencing to maintain a safe work environment and provide public hazard protection for the duration of the project.
- Coordinate with the LPC to confirm location, size, and dimensions of the new service transformer pad, electrical risers, and location of the meter interconnect point.

- Perform demolition of the existing curbing, concrete or asphalt pavement, and/or shrubbery to prepare for all necessary site work per the project concept drawings. No trees larger than 3-inches in diameter shall be removed without prior approval from a LPC's representative. Demoed material shall be removed from the site and disposed of at the awarded bidder's expense.
- Project site shall remain in an orderly state and all waste shall be removed daily.

#### **ELECTRICAL INSTALLATION**

- Coordinate with the LPC for the new service requirements for the conduit and wiring to facilitate the installation of electric utility service equipment.
- Provide all trenching/boring and backfill required for the installation of necessary
  underground electrical conduit per the ChargePoint Express Plus Site Design Guide and
  Technical Specifications. Please provide rock removal cost per hour if rock is
  encountered during site excavation activities. Rock removal consists of bedrock
  encountered at continuous depth, and does not include isolated boulder removal. Rock
  removal must be approved and documented in order to receive reimbursement.
- Install all necessary electrical conduit, fittings, supports, enclosures, panelboards, distribution devices, and wiring to provide electrical service from the utility interconnect to the new Electric Vehicle DC Fast Charge Equipment and lighting structures (if required) per the project concept drawings, ChargePoint Express Plus Site Design Guide, and Technical Specifications.
- Provide adequate protection to close off and keep free of debris and/or water all installed conduit prior to the installation of final wiring.
- Provide adequate protection to close off and keep free of debris and/or water all installed spare/future conduits (if required).

#### SITE WORK

- Prepare subbase with compacted stone (or other approved fill) to prevent settling and minimize surface cracking.
- Install all necessary formwork, rebar, anchor bolts, concrete foundations and curbing, concrete or asphalt pavement, railings, signage post, wheel stops and/or bollard protection per the project concept drawings, ChargePoint Express Plus Site Design Guide, and Technical Specifications.
- Install all necessary signage, painting, and parking lot striping per the project concept drawings. All signage and paint colors to be confirmed with the LPC and site-host partners prior to completion.

#### PROJECT CLOSEOUT

• Provide damage and/or theft protection to exposed conduit and wiring until the installation of EV charging equipment. Coordination may be required with ChargePoint equipment installer to complete electrical installation.

- Provide lock out/tag out devices on all energized distribution devices prior to the installation of EV charging equipment.
- Complete site remediation to facilitate the installation of the EV charging equipment.
   This includes, but not limited to, removing temporary protective devices, topsoil grading, establishing vegetative ground cover, sweeping parking lot, and the removal of all construction debris from the site. The site should be restored to a like condition from prior to beginning construction.
- Complete and submit the *ChargePoint Construction Signoff Form* for make-ready completion and verification prior to the ChargePoint equipment installation.

