

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE	PAGE OF PAGES
				1 of 3
2. AMENDMENT/MODIFICATION NO. 2	3. EFFECTIVE DATE 9-Apr-2004	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY US Army Corps of Engineers, Kansas City District 757 Federal Building, 601 East 12th Street Kansas City, Missouri 64106-2896	CODE	7. ADMINISTERED BY (If other than item 6)	CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)			(x) 9a. AMENDMENT OF SOLICITATION NO. W912DQ-04-B-0006	9b. DATED (SEE ITEM 11) 3/19/2004
			10A. MODIFICATION OF CONTRACT/ORDER NO.	
			10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE	11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS		

The above number solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:  
(a) By completing Items 8 and 15, a 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegraph which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
B. THE ABOVE NUMBER CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF:
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor  is not,  is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Project: Const. Of Woodland Avenue Channel Modifications, Woodland Avenue Reach  
Location: Kansas City, Missouri

The Solicitation is amended in accordance with the attached pages.

Bids will be received until 2:00 pm. 20 April 2004. in Room 757. Federal Building. Kansas City. Mo.. 64106-2896  
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMERICA
15C. DATE SIGNED	16C. DATE SIGNED
(Signature of person authorized to sign)	BY (Signature of Contracting Officer)

1. SOLICITATION NO. W912DQ-04-B-0006 is amended as follows:

a. AMENDMENT 0001: The SUMMARY OF CHANGES is deleted in entirety.

b. SPECIFICATIONS:

(1) ~~Bidding Requirements, Contract Forms and Conditions of the Contract:~~

(a) BIDDING SCHEDULE: ITEM NO 26,,Option No. 5 – Electrical Work: The last sentence of the Bid Item Description is deleted and is replaced by the following: “For Bidding Purposes, and allowance of \$75,000 for the cost of the relocation should be included in this item, however an equitable adjustment will be made to the Contract for the actual cost of the relocation.”

(b) SPECIAL CLAUSES: In Clause 52.236-1 - PERFORMANCE OF WORK BY THE CONTRACTOR, the phrase “work equivalent to at least ~~one hundred~~ 100% percent of the total amount of work” is changed to “work equivalent to at least ~~twenty-five~~ 25% percent of the total amount of work”.

(2) ~~Revised Sections:~~ The following sections are deleted and replaced with revised sections. A copy of each revised section accompanies this amendment.

Section	Title
01100	General
01500	Signs and Inspectors Facilities
02001	Construction, General
02276	Modular Block Wall
02801	Flagstone
02820	Turf Reinforcement Mat

(3) ~~Wage Rates:~~ Modification No. 1, dated 4 April 2004, is added to Department of Labor General Wage Decision Number MO 03 0001. A copy of Modification No. 1 accompanies this amendment.

c. DRAWINGS:

(1) ~~Revised Drawings:~~ The following drawings are deleted and replaced with revised drawings of the same number, dated 4/05/04. A copy of each revised drawing accompanies this amendment.

Drw. No.	Title
C1.3	Project Limits And Boring Location Plan
C1.4	Disposal Area Plan
C3.6	Reach 20 – Right Bank Profile
C3.7	Reach 21 - Plan
C4.5	Cross Sections
C4.6	Cross Sections
C4.7	Cross Sections
C4.11	Pump Well Excavation and Backfill Details
C4.12	6-inch Concrete Paving Details
C7.3	Reach 21 – Storm Sewer Plan
S1.1	General Notes And Details
S2.1	Anchored And Gravity Wall Sections
S3.1	Drop Structure and Details

(cont.)

<u>Drw. No.</u>	<u>Title</u>
M1.1	Mechanical Site Plan
M1.2	Recirculation Piping Details
M1.3	Pump Well Plan
M1.4	Pump Well Sections
M3.1	Recirculation Piping Profile – Right Bank
E3.1	Electrical Road Access Plan
E3.2	Electrical Road Access Plan
E4.1	Electrical Details
E4.2	Electrical Details

2. For convenience, on the revised specification pages, essential changes from the previous issue have been emphasized as follows, however, all portions of the revised specification pages shall apply whether or not changes have been indicated:

Changes within a paragraph are underlined.

New words or sentences, within a paragraph, are underlined.

Paragraphs, containing a word or sentence that was deleted, are underlined.

When an entire paragraph was deleted, the word "Deleted" is underlined and inserted after the paragraph number.

3. Bidders are required to acknowledge receipt of this amendment on the Bid Form, in the space provided, or by separate letter or telegram prior to bid opening. Failure to acknowledge all amendments may cause rejection of the bid.

4. Bids will be received until 2:00 p.m. local time at place of bid opening, 20 April 2004 in Room 757, Federal Building, 601 East 12th Street, Kansas City, Missouri 64106-2896.

2 Encls

1. Spec pages as listed
2. Drawings as listed

General Decision Number: MO030001 04/02/2004 MO1

Superseded General Decision Number: MO020001

State: Missouri

Construction Types: Heavy and Highway

Counties: Missouri Statewide.

HEAVY AND HIGHWAY CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	06/13/2003
1	04/02/2004

CARP0007-008 04/01/2001

CASS (Richards-Gebauer AFB ONLY), CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
Carpenters:		
CARPENTERS & PILEDRIVERS....	\$ 25.50	6.88

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CARP0008-003 05/01/2002

ST. LOUIS COUNTY AND CITY

	Rates	Fringes
Carpenter.....	\$ 28.64	6.83

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\* CARP0011-001 05/01/2002

	Rates	Fringes
Carpenter and Piledriver		
ADAIR, KNOX, PUTNAM,		
SCHUYLER AND SULLIVAN		
COUNTIES.....	\$ 23.63	6.99
ATCHISON, ANDREW,		
BATES, CALDWELL,		
CARROLL, DAVIESS,		
DEKALB, GENTRY,		
GRUNDY, HARRISON,		
HENRY, HOLT,		
LIVINGSTON, MERCER,		
NODAWAY, ST. CLAIR,		
SALINE AND WORTH		
COUNTIES.....	\$ 22.53	6.74
AUDRAIN (East of		
Hwy.19), RALLS, MARION,		
LEWIS, CLARK AND		

SCOTLAND COUNTIES.....\$ 24.03	7.56
AUDRAIN (West of Hwy 19), BOONE, COOPER, HOWARD.....\$ 23.63	6.99
BARRY, BARTON, CAMDEN, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE, HICKORY, JASPER, LACLEDE, LAWRENCE, MCDONALD, NEWTON, OZARK, POLK, STONE, TANEY, VERNON, WEBSTER AND WRIGHT COUNTIES.....\$ 22.18	6.74
BENTON, MORGAN AND PETTIS COUNTIES.....\$ 22.33	6.99
BOLLINGER, BUTLER, CAPE GIRARDEAU, DUNKLIN, MISSISSIPPI, NEW MADRID, PEMISCOT, PERRY, STE. GENEVIEVE, SCOTT, STODDARD AND WAYNE COUNTIES.....\$ 24.56	7.18
BUCHANAN, CLINTON, JOHNSON AND LAFAYETTE COUNTIES.....\$ 23.18	6.74
CALLAWAY, COLE, MILLER, MONITEAU, OSAGE.....\$ 23.63	6.99
CARTER, HOWELL, OREGON AND RIPLEY COUNTIES.....\$ 23.64	7.18
CHARITON, LINN, MACON, MONROE, RANDOLPH AND SHELBY COUNTIES.....\$ 23.63	6.99
CRAWFORD, DENT, GASCONADE, IRON, MADISON, MARIES, MONTGOMERY, PHELPS, PULASKI, REYNOLDS, SHANNON AND TEXAS COUNTIES.....\$ 23.88	7.56
FRANKLIN COUNTY.....\$ 25.93	7.56
JEFFERSON AND ST. CHARLES COUNTIES.....\$ 28.44	7.56
LINCOLN COUNTY.....\$ 25.54	7.56
PIKE, ST. FRANCOIS AND WASHINGTON COUNTIES.....\$ 24.59	7.56
WARREN COUNTY.....\$ 25.93	6.56

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ELEC0001-002 06/01/2002

BOLLINGER, BUTLER, CAPE GIRARDEAU, CARTER, DUNKLIN, FRANKLIN,  
IRON, JEFFERSON, LINCOLN, MADISON, MISSISSIPPI, NEW MADRID,  
PEMISCOT, PERRY, REYNOLDS, RIPLEY, ST. CHARLES, ST. FRANCOIS,  
ST. LOUIS (City and County), STE. GENEVIEVE, SCOTT, STODDARD,  
WARREN, WASHINGTON AND WAYNE COUNTIES

	Rates	Fringes
Electrician.....	\$ 29.20	15.64

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 \* ELEC0002-001 12/01/2002

ADAIR, AUDRAIN, BOONE, CALLAWAY, CAMDEN, CARTER, CHARITON,  
 CLARK, COLE, COOPER, CRAWFORD, DENT, FRANKLIN, GASCONADE,  
 HOWARD, HOWELL, IRON, JEFFERSON, KNOX, LEWIS, LINCON, LINN,  
 MACON, MARIES, MARION, MILLER, MONITEAU, MONROE, MONTGOMERY,  
 MORGAN, OREGON, OSAGE, PERRY, PHELPS, PIKE, PULASKI, PUTNAM,  
 RALLS, RANDOLPH, REYNOLDS, RIPLEY, ST. CHARLES, ST. FRANCOIS,  
 ST. LOUIS (City and County), STE. GENEVIEVE, SCHUYLER,  
 SCOTLAND, SHANNON, SHELBY, SULLIVAN, TEXAS, WARREN AND  
 WASHINGTON COUNTIES

	Rates	Fringes
Line Construction:		
Groundman Equipment		
Operator.....	\$ 25.32	3.25+41.30%
Groundman, Groundman		
Driver.....	\$ 20.04	3.25+41.30%
Groundman-Winch Driver.....	\$ 20.81	3.25+41.30%
Groundmen Equipment		
Operator.....	\$ 25.32	3.25+41.30%
Lineman and Cable		
Splicer.....	\$ 28.28	3.25+41.30%

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 ELEC0053-004 08/27/2000

	Rates	Fringes
Line Construction:		
ANDREW, ATCHINSON,		
BARRY, BARTON,		
BUCHANAN, CALDWELL,		
CEDAR, CHRISTIAN,		
CLINTON, DADE, DALLAS,		
DAVISS, DE KALB,		
DOUGLAS, GENTRY,		
GREENE, GRUNDY,		
HARRISON, HICKORY,		
HOLT, JASPER, LACLEDE,		
LAWRENCE, LIVINGSTON,		
McDONALD, MERCER,		
NEWTON, NODAWAY, OZARK,		
POLK, ST. CLAIR, STONE,		
TANEY, VERNON, WEBSTER,		
WORTH, AND WRIGHT		
COUNTIES.		
Groundman Powderman.....	\$ 18.69	7.37
Groundman.....	\$ 17.30	6.98
Lineman Operator.....	\$ 25.41	9.30
Lineman.....	\$ 26.75	9.69

BATES, BENTON, CARROLL,  
CASS, CLAY, HENRY,  
JACKSON, JOHNSON,  
LAFAYETTE, PETTIS,  
PLATTE, RAY, AND SALINE  
COUNTIES.

Groundman Powderman.....	\$ 19.45	7.59
Groundman.....	\$ 18.49	7.31
Lineman Operator.....	\$ 25.97	9.46
Lineman.....	\$ 27.80	9.99

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ELEC0095-001 06/01/2001

BARRY, BARTON, CEDAR, CRAWFORD, DADE, JASPER, LAWRENCE,  
MCDONALD, NEWTON, ST CLAIR, AND VERNON COUNTIES

	Rates	Fringes
Electricians:		
Cable Splicers.....	\$ 20.86	5.68
Electricians.....	\$ 20.51	5.68

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\* ELEC0124-007 09/29/2003

BATES, BENTON, CARROLL, CASS, CLAY, COOPER, HENRY, JACKSON,  
JOHNSON, LAFAYETTE, MORGAN, PETTIS, PLATTE, RAY AND SALINE  
COUNTIES:

	Rates	Fringes
Electricians:.....	\$ 30.73	13.82

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ELEC0257-003 03/01/2002

AUDRAIN (Except Cuivre Township), BOONE, CALLAWAY, CAMDEN,  
CHARITON, COLE, CRAWFORD, DENT, GASCONADE, HOWARD, MARIES,  
MILLER, MONITEAU, OSAGE, PHELPS AND RANDOLPH COUNTIES

	Rates	Fringes
Electricians:		
Cable Splicers.....	\$ 23.50	11.395
Electricians.....	\$ 22.50	11.395

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\* ELEC0350-002 12/01/2003

ADAIR, AUDRAIN (East of Highway 19), CLARK, KNOX, LEWIS, LINN,  
MACON, MARION, MONROE, MONTGOMERY, PIKE, PUTNAM, RALLS,  
SCHUYLER, SCOTLAND, SHELBY AND SULLIVAN COUNTIES

	Rates	Fringes
Electrician.....	\$ 25.05	10.715

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ELEC0453-001 09/01/2001

	Rates	Fringes
Electricians:		
CHRISTIAN, DALLAS, DOUGLAS, GREENE, HICKORY, HOWELL, LACLEDE, OREGON, OZARK, POLK, SHANNON, WEBSTER AND WRIGHT COUNTIES.....	\$ 20.85	5.37+10%
PULASKI AND TEXAS COUNTIES.....	\$ 25.50	5.37+10%
STONE AND TANEY COUNTIES....	\$ 14.45	4.97+10%

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ELEC0545-003 06/01/2002

ANDREW, BUCHANAN, CLINTON, DEKALB, ATCHISON, HOLT, MERCER,  
GENTRY, HARRISON, DAVIESS, GRUNDY, WORTH, LIVINGSTON, NODAWAY,  
AND CALDWELL COUNTIES

	Rates	Fringes
Electricians:.....	\$ 26.35	9.54

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ELEC0702-004 01/01/2002

BOLLINGER, BUTLER, CAPE GIRARDEAU, DUNKLIN, MADISON,  
MISSISSIPPI, NEW MADRID, PEMISCOT, SCOTT, STODDARD AND WAYNE  
COUNTIES

	Rates	Fringes
Line Construction:		
Groundman - Class A.....	\$ 17.07	2.45+25.5%
Groundman Equipment Operator (all crawler type equipment D-4 and larger).....	\$ 24.48	2.45+25.5%
Lineman.....	\$ 28.68	2.45+25.5%

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\* ENGI0101-001 05/01/2003

ANDREW, ATCHISON, BATES, BENTON, BUCHANAN, CALDWELL, CARROLL,  
CHARITON, CLINTON, COOPER, DAVIESS, DEKALB, GENTRY, GRUNDY,  
HARRISON, HENRY, HOLT, HOWARD, JOHNSON, LAFAYETTE, LINN,  
LIVINGSTON, MERCER, NODAWAY, PETTIS, SALINE, SULLIVAN AND WORTH  
COUNITIES

	Rates	Fringes
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Power equipment operators:

GROUP 1.....	\$ 23.15	9.30
GROUP 2.....	\$ 22.75	9.30
GROUP 3.....	\$ 20.75	9.30

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Asphalt roller operator, finish; asphalt paver and spreader; asphalt plant operator; auto grader or trimmer or sub-grader; backhoe; blade operator (all types); boilers - 2; booster pump on dredge; bulldozer operator; boring machine (truck or crane mounted); clamshell operator; concrete mixer paver; concrete plant operator; concrete pump operator; crane operator; derrick or derrick trucks; ditching machine; dragline operator; dredge engineman; dredge operator; drill cat with compressor mounted (self-contained) or similar type self-propelled rotary drill (not air tract); drilling or boring machine (rotary-self-propelled); finishing machine operator; greaser; high loader-fork lift-skid loader (all types); hoisting engineer (2 active drums); locomotive operator (standard guage); mechanics and welders (field and plants); mucking machine operator; pile drive operator; pitman crane or boom truck (all types); push cat; quad track; scraper operators (all types); shovel operator; sideboom cats; side discharge spreader; skimmer scoop operators; slip form paver operator (CMI, Rex, Gomeco or equal); la tourneau rooter (all tiller types); tow boat operator; truck crane; wood and log chippers (all types).

GROUP 2: A-frame truck operator; articulated dump truck; back filler operator; boilers (1); chip spreader; churn drill operator; compressor; concrete mixer operator, skip loader; concrete saws (self-propelled); conveyor operator; crusher operator; distributor operator; elevating grader operator; farm tractor (all attachments); fireman rig; float operator; form grade operator; hoisting engine (one drum); maintenance operator; multiple compactor; pavement breaker, self-propelled hydra-hammer (or similar type); paymill operator; power shield; pumps; roller operator (with or without blades); screening and washing plant; self-propelled street broom or sweeper; siphons and jets; straw blower; stump cutting machine; siphons and jets; tank car heater operator (combination boiler and booster); welding machine; vibrating machine operator (not hand held); welding machine.

GROUP 3: Oiler; oiler driver; mechanic.

HOURLY PREMIUMS:

THE FOLLOWING CLASSIFICATIONS SHALL RECEIVE (\$ .25) ABOVE GROUP 1 RATE: Dragline operator - 3 yds. & over; shovel 3 yds. & over; clamshell 3 yds. & over; Crane, rigs or piledrivers, 100' of boom or over (incl. jib.), hoist - each additional active drum over 2 drums

THE FOLLOWING CLASSIFICATIONS SHALL RECEIVE (\$ .50) ABOVE GROUP 1 RATE: Tandem scoop operator; crane, rigs or piledrivers 150' to 200' of boom (incl. jib.)

THE FOLLOWING CLASSIFICATIONS SHALL RECEIVE (\$ .75) ABOVE  
GROUP 1 RATE: Crane rigs, or piledrivers 200 ft. of boom or  
over (including jib.)

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\* ENGI0101-005 03/01/2004

CASS, CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 25.59	10.17
GROUP 2.....	\$ 24.55	10.17
GROUP 3.....	\$ 20.08	10.17
GROUP 4.....	\$ 23.43	10.17

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Asphalt roller operator, finish; asphalt paver and spreader; asphalt plant operator; auto grader or trimmer or sub-grader; backhoe; blade operator (all types); boilers-2; booster pump on dredge; boring machine (truck or crane mounted); bulldozer operator; clamshell operator; concrete cleaning decontamination machine operator; concrete mixer paver; concrete plant operator; concrete pump operator; crane operator; derrick or derrick trucks; ditching machine; dragline operator; dredge engineman; dredge operator; drillcat with compressor mounted (self-contained) or similar type self propelled rotary drill (not air tract); drilling or boring machine (rotary - self-propelled); finishing machine operator; greaser; heavy equipment robotics operator/mechanic; horizontal directional drill operator; horizontal directional drill locator; loader-forklift - skid loader (all types); hoisting engineer (2 active drums); locomotive operator (standard guage); master environmental maintenance mechanic; mechanics and welders (field and plants); mucking machine operator; piledrive operator; pitman crane or boom truck (all types); push cat; quad-track; scraper operators (all types); shovel operator; side discharge spreader; sideboom cats; skimmer scoop operator; slip-form paver (CMI, REX, Gomaco or equal); la tourneau rooter (all tiller types); tow boat operator; truck crane; ultra high perssure waterjet cutting tool system operator/mechanic; vacuum blasting machine operator/mechanic; wood and log chippers (all types)

GROUP 2: "A" Frame truck operator; articulated dump truck; back filler operator; boilers (1); chip spreader; churn drill operator; concrete mixer operator, skip loader; concrete saws (self-propelled); conveyor operator; crusher operator; distributor operator; elevating grader operator; farm tractor (all attachments); fireman rig; float operator; form grader operator; hoisting engine (1 drum); maintenance operator; multiple compactor; pavement breaker, self-propelled hydra-hammer (or similar type); power shield; paymill operator; pumps; siphons and jets; stump cutting machine; tank car heater operator (combination boiler and booster); compressor;

roller operator (with or without blades); screening and washing plant; self-propelled street broom or sweeper; straw blower; tank car heater operator (combination boiler and booster); vibrating machine operator (not hand held)

GROUP 3: Oilers

GROUP 4: Oiler Driver (All Types)

FOOTNOTE:

HOURLY PREMIUMS FOLLOWING CLASSIFICATIONS SHALL RECEIVE (\$.25) ABOVE GROUP 1 RATE:

Clamshells - 3 yd. capacity or over; Cranes or rigs, 80 ft. of boom or over (including jib); Draglines, 3 yd. capacity or over;

Piledrivers 80 ft. of boom or over (including jib);

Shovels & backhoes, 3 yd. capacity or over.

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ENGI0101-022 05/01/2003

BARRY, BARTON, CAMDEN, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE, JASPER, LAWRENCE, HICKORY, LACLEDE, MCDONALD, NEWTON, OZARK, POLK, ST. CLAIR, STONE, TANEY, VERNON, WEBSTER AND WRIGHT COUNTIES and CITY OF SPRINGFIELD

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 20.92	7.45
GROUP 2.....	\$ 20.57	7.45
GROUP 3.....	\$ 20.37	7.45
GROUP 4.....	\$ 18.32	7.45

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Asphalt finishing machine & trench widening spreader; asphalt plant console operator; autograder; automatic slipform paver; backhoe; blade operator - all types; boat operator - tow; boilers-2; central mix concrete plant operator; clamshell operator; concrete mixer paver; crane operator; derrick or derrick trucks; ditching machine; dozer operator; dragline operator; dredge booster pump; dredge engineman; dredge operator; drill cat with compressor mounted on cat; drilling or boring machine rotary self-propelled; highloader; hoisting engine - 2 active drums; launch hammer wheel; locomotive operator; - standard guage; mechanic and welders; mucking machine; off-road trucks; piledriver operator; pitman crane operator; push cat operator; quad trac; scoop operator - all types; shovel operator; sideboom cats; skimmer scoop operators; trenching machine operator; truck crane.

GROUP 2: A-frame; asphalt hot-mix silo; asphalt plant fireman (drum or boiler); asphalt plant man; asphalt plant man; asphalt plant mixer operator; asphalt roller operator; backfiller operator; barber-greene loader; boat operator (bridges and dams); chip spreader; concrete mixer operator -

skip loader; concrete plant operator; concrete pump operator; crusher operator; dredge oiler; elevating grader operator; fork lift; greaser-fleet; hoisting engine - 1; locomotive operator - narrow gauge; multiple compactor; pavement breaker; powerbroom - self-propelled; power shield; rooter; side discharge concrete spreader; slip form finishing machine; stumpcutter machine; throttle man; tractor operator (over 50 h.p.); winch truck.

GROUP 3: Boilers - 1; chip spreader (front man); churn drill operator; clef plane operator; concrete saw operator (self-propelled); curb finishing machine; distributor operator; finishing machine operator; flex plane operator; float operator; form grader operator; pugmill operator; roller operator, other than high type asphalt; screening & washing plant operator; siphons & jets; sub-grading machine operator; spreader box operator, self-propelled (not asphalt); tank car heater operator (combination boiler & booster); tractor operator (50 h.p. or less); Umac, Ulric or similar spreader; vibrating machine operator, not hand;

GROUP 4: Grade checker; Oiler; Oiler-Driver

HOURLY PREMIUMS:

The following classifications shall receive \$ .25 above GROUP 1 rate:

Clamshells - 3 yds. or over; Cranes - Rigs or Piledrivers, 100 ft. of boom or over (including jib); Draglines - 3 yds. or over; Hoists - each additional active drum over 2 drums; Shovels - 3 yds. or over;

The following classifications shall receive \$ .50 above GROUP 1 rate:

Tandem scoop operator; Cranes - Rigs or Piledrivers, 150 ft. to 200 ft. of boom (including jib); Tandem scoop.

The following classifications shall receive \$ .75 above GROUP 1 rate:

Cranes - Rigs or Piledrivers, 200 ft. of boom or over (including jib.).

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ENGI0513-004 05/07/2003

FRANKLIN, JEFFERSON, LINCOLN, ST CHARLES, AND WARREN COUNTIES

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 25.27	13.00
GROUP 2.....	\$ 23.97	13.00
GROUP 3.....	\$ 20.97	13.00
GROUP 4.....	\$ 23.52	13.00

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Backhoe, Cable; Backhoe, Hydraulic (2 cu yds bucket

and under regardless of attachment, one oiler for 2 or 3, two oilers for 4 through 6); Backhoe, Hydraulic over 2 cu yds; Cableway; Crane, Crawler or Truck; Crane, Hydraulic - Truck or Cruiser mounted, 16 tons and over; Crane, Locomotive; crane with boom including jib over 100 ft from pin to pin; Crane using rock socket tool; Derrick, Steam; Derrick Car and Derrick Boat; Dragline, 7 cu yds and over; Dredge; Gradall, Crawler or tire mounted; Locomotive, Gas, Steam & other powers; Pile Driver, Land or Floating; Scoop, Skimmer; Shovel, Power (Electric, Gas, Steam or other powers); Shovel, Power (7 cu yds and over); Switch Boat; Whirley; Air Tugger with air compressor; Anchor Placing Barge; Asphalt Spreader; Athey Force Feeder Loader, self-propelled; Backfilling Machine; Boat Operator - Push Boat or Tow Boat (job site); Boiler, High Pressure Breaking in Period; Boom Truck, Placing or Erecting; Boring Machine, Footing Foundation; Bullfloat; Cherry Picker; Combination Concrete Hoist and Mixer (such as Mixermobile); Compressor, Two 125 CFM and under; Compressor, Two through Four over 125 CFM; Compressor when operator runs throttle; Concrete Breaker (Truck or Tractor mounted); Concrete Pump (such as Pumpcrete machine); Concrete Saw (self-propelled); Concrete Spreader; Conveyor, Large (not selfpropelled) hoisting or moving brick and concrete into, or into and on floor level, one or both; Crane, Cimbing (such as Linden); Crane, Hydraulic - Rough Terrain, self-propelled; Crane, Hydraulic - Truck or Cruiser mounted - under 16 tons; Drilling machine - Self-powered, used for earth or rock drilling or boring (wagon drills and any hand drills obtaining power from other souces including concrete breakers, jackhammers and Barco equipmnet no engineer required); Elevating Grader; Engine Man, Dredge; Excavator or Powerbelt Machine; Finishing Machine, self- propelled oscillating screed; Forklift; Generators, Two through Six 30 KW or over; Grader, Road with power blade; Greaser; Highlift; Hoist, Concrete and Brick (Brick cages or concrete skips operating or on tower, Towermobile, or similar equipment); Hoist, Three or more drums in use; Hoist, Stack; Hydro-Hammer; Lad-A-Vator, hoisting brick or concrete; Loading Machine such as Barber-Greene; Mechanic on job site

GROUP 2: Air Tugger with plant air; Boiler (for power or heating shell of building or temporary enclosures in connection with construction work); Boiler, Temporary; Compressor, One over 125 CFM; Compressor, truck mounted; Conveyor, Large (not self- propelled); Conveyor, Large (not self- propelled) moving brick and concrete (distributing) on floor level; Curb Finishing Machine; Ditch Paving Machine; Elevator (outside); Endless Chain Hoist; Fireman (as required); Form Grader; Hoist, One Drum regardless of size (except brick or concrete); Lad-A-Vator, other hoisting; Manlift; Mixer, Asphalt, over 8 cu ft capacity; Mixer, one bag capacity or less; Mixer, without side loader, two bag capacity or more; Mixer, with side loader, regardless of size, not Paver; Mud Jack (where mud jack is used in conjenction with an air compressor, operator shall be paid \$ .55 per hour in addition to his basic hourly rate for covering both operations); Pug Mill operator; Pump, Sump -

self powered, automatic controlled over 2"; Scissor Lift (used for hoisting); Skid Steer Loader; Sweeper, Street; Tractor, small wheel type 50 HP and under with grader blade and similar equipment; Welding Machine, One over 400 amp; Winch, operating from truck

GROUP 3: Boat operator - outboard motor, job site; Conveyors (such as Con-Vay-It) regardless of how used; Elevator (inside); Heater operator, 2 through 6; Sweeper, Floor

GROUP 4: Crane type

HOURLY PREMIUMS:

Backhoe, Hydraulic 2 cu yds or less without oiler - \$2.00; Certified Crane Operator - \$1.50; Certified Hazardous Material Operator \$1.50; Crane, climbing (such as Linden) - \$.50; Crane, Pile Driving and Extracting - \$ .50; Crane with boom (including job) over 100 ft from pin to pin - add \$.01 per foot to maximum of \$4.00); Crane, using rock socket tool - \$ .50; Derrick, diesel, gas or electric hoisting material and erecting steel (150 ft or more above ground) - \$ .50; Dragline, 7 cu yds and over - \$ .50; Hoist, Three or more drums in use - \$ .50; Scoop, Tandem - \$.50; Shovel, Power - 7 cu yds and over - \$ .50; Tractor, Tandem Crawler - \$ .50; Tunnel, man assigned to work in tunnel or tunnel shaft - \$ .50; Wrecking, when machines are working on second floor or higher - \$ .50

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ENGI0513-006 05/01/2003

ADAIR, AUDRAIN, BOLLINGER, BOONE, BUTLER, CALLAWAY, CAPE GIRARDEAU, CARTER, CLARK, COLE, CRAWFORD, DENT, DUNKLIN, GASCONADE, HOWELL, IRON, KNOX, LEWIS, MACON, MADISON, MARIES, MARION, MILLER, MISSISSIPPI, MONITEAU, MONROE, MONTGOMERY, MORGAN, NEW MADRID, OREGON, OSAGE, PEMISCOT, PERRY, PHELPS, PIKE, PULASKI, PUTNAM, RALLS, RANDOLPH, REYNOLDS, RIPLEY, ST. FRANCOIS, STE. GENEVIEVE, SCHUYLER, SCOTLAND, SCOTT, SHANNON, SHELBY, STODDARD, TEXAS, WASHINGTON, AND WAYNE COUNTIES

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 21.70	13.00
GROUP 2.....	\$ 21.35	13.00
GROUP 3.....	\$ 21.15	13.00
GROUP 4.....	\$ 17.50	13.00

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Asphalt finishing machine & trench widening

spreader, asphalt plant console operator; autograder; automatic slipform paver; back hoe; blade operator - all types; boat operator tow; boiler two; central mix concrete plant operator; clam shell operator; concrete mixer paver; crane operator; derrick or derrick trucks; ditching machine; dozer operator; dragline operator; dredge booster pump; dredge engineman; dredge operator; drill cat with compressor mounted on cat; drilling or boring machine rotary self-propelled; highloader; hoisting engine 2 active drums; launchhammer wheel; locomotive operator standrad guage; mechanics and welders; mucking machine; piledriver operator; pitman crane operator; push cat operator; quad-trac; scoop operator; sideboom cats; skimmer scoop operator; trenching machine operator; truck crane, shovel operator.

GROUP 2: A-Frame; asphalt hot-mix silo; asphalt roller operator asphalt plant fireman (drum or boiler); asphalt plant man; asphalt plant mixer operator; backfiller operator; barber-greene loader; boat operator (bridge & dams); chip spreader; concrete mixer operator skip loader; concrete plant operator; concrete pump operator; dredge oiler; elevating graded operator; fork lift; grease fleet; hoisting engine one; locomotive operator narrow guage; multiple compactor; pavement breaker; powerbroom self-propelled; power shield; rooter; slip-form finishing machine; stumpcutter machine; side discharge concrete spreader; throttleman; tractor operator (over 50 hp); winch truck; asphalt roller operator; crusher operator.

GROUP 3: Spreader box operator, self-propelled not asphalt; tractor operator (50 h.p. or less); boilers one; chip spreader (front man); churn drill operator; compressor over 105 CFM 2-3 pumps 4" & over; 2-3 light plant 7.5 KWA or any combination thereof; clef plane operator; compressor maintenance operator 2 or 3; concrete saw operator (self-propelled); curb finishing mancine; distributor operator; finishing machine operator; flex plane operator; float operator; form grader operator; pugmill operator; riller operator other than high type asphalt; screening & washing plant operator; siphons & jets; subgrading machine operator; tank car heater (combination boiler & booster); ulmac, ulric or similar spreader; vibrating machine operator; hydrobroom.

GROUP 4: Oiler; grout machine; oiler driver; compressor over 105 CFM one; conveyor operator one; maintenance operator; pump 4" & over one.

FOOTNOTE: HOURLY PREMIUMS

Backhoe hydraulic, 2 cu. yds. or under Without oiler - \$2.00  
Certified Crane Operator - \$1.50;  
Certified Hazardous Material Operator \$1.50;  
Crane, climbing (such as Linden) - \$0.50;  
Crane, pile driving and extracting - \$0.50;  
Crane, with boom (including jib) over 100' from pin to pin  
add \$0.01 per foot to maximum of \$4.00;

Crane, using rock socket tool - \$0.50;
Derrick, diesel, gas or electric, hoisting material and erecting steel (150' or more above the ground) - \$0.50;
Dragline, 7 cu. yds, and over - \$0.50;
Hoist, three or more drums in use - \$0.50; Scoop, Tandem - \$0.50;
Shovel, power - 7 cu. yds. or more - \$0.50;
Tractor, tandem crawler - \$0.50;
Tunnel, man assigned to work in tunnel or tunnel shaft - \$0.50;
Wrecking, when machine is working on second floor or higher - \$0.50;

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ENGI0513-007 05/07/2003

ST. LOUIS CITY AND COUNTY

Table with 3 columns: Rates, Fringes, and Power equipment operators. Rows include GROUP 1 through GROUP 5 with corresponding rates and fringe percentages.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Backhoe, cable or hydraulic; cableway; crane crawler or truck; crane, hydraulic-truck or cruiser mounted 16 tons & over; crane locomotive; derrick, steam; derrick car & derrick boat; dragline; dredge; gradall, crawler or tire mounted; locomotive, gas, steam & other powers; pile driver, land or floating; scoop, skimmer; shovel, power (steam, gas, electric or other powers); switch boat; whirley.

GROUP 2: Air tugger w/air compressor; anchor-placing barge; asphalt spreader; athey force feeder loader (self-propelled); backfilling machine; backhoe-loader; boat operator-push boat or tow boat (job site); boiler, high pressure breaking in period; boom truck, placing or erecting; boring machine, footing foundation; bull- float; cherry picker; combination concrete hoist & mixer (such as mixer mobile); compressor (when operator runs throttle); concrete breaker (truck or tractor mounted); concrete pump, such as pump-crete machine; concrete saw (self-propelled), concrete spreader; conveyor, large (not self-propelled), hoisting or moving brick and concrete into, or into and on floor level, one or both; crane, hydraulic-rough terrain, self-propelled; crane hydraulic-truck or cruiser mounted-under 16 tons; drilling machines, self-powered use for earth or rock drilling or boring (wagon drills nd any hand drills obtaining power from other sources including concrete breakers, jackhammers and barco equipment-no engineer required); elevating grader; engineman, dredge; excavator or powerbelt machine; finishing machine, self-propelled oscillating screed; forklift; grader, road with power blade; highlift.

greaser; hoist, stack, hydro-hammer; loading machine (such as barber-greene); machanic, on job site; mixer, pipe wrapping machines; plant asphalt; plant, concrete producing or ready-mix job site; plant heating-job site; plant mixing-job site; plant power, generating-job site; pumps, two through six self-powered over 2"; pumps, electric submersible, two through six, over 4"; quad-track; roller, asphalt, top or sub-grade; scoop, tractor drawn; spreader box; sub-grader; tie tamper; tractor-crawler, or wheel type with or without power unit, power take-offs and attachments regardless of size; trenching machine; tunnel boring machine; vibrating machine automatic, automatic propelled; welding machines (gasoline or diesel) two through six; well drilling machine

GROUP 3: Conveyor, large (not self-propelled); conveyor, large (not self-propelled) moving brick and concrete distributing) on floor level; mixer two or more mixers of one bag capacity or less; air tugger w/plant air; boiler, for power or heating on construction projects; boiler, temporary; compressor (mounted on truck; curb finishing machine; ditch paving machine; elevator; endless chain hoist; form grader; hoist, one drum regardless of size; lad-a-vator; manlift; mixer, asphalt, over 8 cu. ft. capacity, without side loader, 2 bag capacity or more; mixer, with side loader, regardless of size; pug mill operator; pump, sump-self-powered, automatic controlled over 2" during use in connection with construction work; sweeper, street; welding machine, one over 400 amp.; winch operating from truck; scissor lift (used for hoisting); tractor, small wheel type 50 h.p. & under with grader blade & similar equipment

GROUP 4: Boat operator-outboard motor (job site); conveyor (such as con-vay-it) regardless of how used; sweeper, floor

GROUP 5: Oiler on dredge and on truck crane.

HOURLY PREMIUMS:

Backhoe, hydraulic	
2 cu. yds. or under without oiler	\$2.00
Certified Crane Operator	1.50
Certified Hazardous Material Operator	1.50
Crane, climbing (such as Linden)	.50
Crane, pile driving and extracting	.50
Crane, with boom (including jib) over 100' (from pin to pin) add \$.01 per foot to maximum of	4.00
Crane, using rock socket tool	.50
Derrick, diesel, gas or electric, hoisting material and erecting steel (150' or more above ground)	.50
Dragline, 7 cu. yds. and over	.50
Hoist, three (3) or more drums in use	.50
Scoop, Tandem	.50
Shovel, power - 7 cu. yds. or more	.50
Tractor, tandem crawler	.50
Tunnel, man assigned to work in tunnel or tunnel shaft	.50

Wrecking, when machine is working on  
second floor or higher .50

IRON0010-012 04/01/2003

	Rates	Fringes
Ironworkers:		
ANDREW, ATCHISON, BARTON, BATES, BENTON, CALDWELL, CAMDEN, CARROLL, CEDER CHARITON, CHRISTIAN, CLINTON, COOPER, DADE, DALLAS, DAVIESS, DE KALB, GENTRY, GREENE, GRUNDY, HARRISON, HENRY, HICKORY, HOLT, HOWARD, LACLEDE, LINN, LIVINGSTON, MERCER, MONITEAU, MORGAN, NODAWAY, PETTIS, POLK, PUTNAM, RANDOLPH, ST. CLAIR, SALINE, SULLIVAN, TANEY, VERNON, WEBSTER, WRIGHT and WORTH Counties; and portions of ADAIR, BOONE, MACON, MILLER, and RANDOLPH Counties.....	\$ 21.10	13.73
BUCHANAN, CASS, CLAY, JACKSON, JOHNSON, LAFAYETTE, PLATTE AND RAY Counties.....	\$ 24.10	13.73

IRON0321-002 12/31/2002

DOUGLAS, HOWELL and OZARK COUNTIES

	Rates	Fringes
Ironworker.....	\$ 18.00	8.06

IRON0396-004 07/31/2002

ST. LOUIS (City and County), ST. CHARLES, JEFFERSON, IRON,  
FRANKLIN, LINCOLN, WARREN, WASHINGTON, ST. FRANCOIS, STE.  
GENEVIEVE, and REYNOLDS Counties; and portions of MADISON,  
PERRY, BOLLINGER, WAYNE, and CARTER Counties

	Rates	Fringes
Ironworker.....	\$ 26.54	11.73

\* IRON0396-009 08/01/2003

AUDRAIN, CALLAWAY, COLE, CRAWFORD, DENT, GASCONADE, MARIES, MONTGOMERY, OSAGE, PHELPS, PIKE, PULASKI, TEXAS, and WRIGHT Counties; and portions of CAMDEN, DOUGLAS, HOWELL, MILLER, OREGON, BOONE, SHANNON, LACLEDE, MONROE, and RALLS Counties

	Rates	Fringes
Ironworker.....	\$ 21.87	13.00

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IRON0577-005 06/01/2002

ADAIR, CLARK, KNOX, LEWIS, MACON, MARION, MONROE, RALLS, SCHUYLER, SCOTLAND, AND SHELBY COUNTIES

	Rates	Fringes
Ironworker.....	\$ 20.85	9.16

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\* IRON0584-004 06/01/2003

BARRY, JASPER, LAWRENCE, MCDONALD, NEWTON AND STONE Counties

	Rates	Fringes
Ironworkers:.....	\$ 18.90	8.47

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\* IRON0782-003 09/01/2003

CAPE GIRARDEAU, MISSISSIPPI, NEW MADRID, SCOTT, & STODDARD Counties; and portions of BOLLINGER, BUTLER, CARTER, DUNKLIN, MADISON, PEMISCOT, PERRY, RIPLEY, and WAYNE Counties

	Rates	Fringes
Ironworkers:		
All Other Work.....	\$ 21.95	9.73

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LABO0042-003 03/03/2003

ST. LOUIS (City and County)

	Rates	Fringes
Laborers:		
Plumber Laborers.....	\$ 23.97	7.43

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LABO0042-005 03/03/2003

ST. LOUIS (City and County)

	Rates	Fringes
Laborers:		
Dynamiter, Powderman.....	\$ 24.28	7.43
Laborers, Flagperson.....	\$ 23.78	7.43
Wrecking.....	\$ 23.66	7.43

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 \* LABO0424-002 05/01/2003

	Rates	Fringes
Laborers:		
ADAIR, AUDRAIN, BOLLINGER, BOONE, BUTLER, CALLAWAY, CAPE GIRARDEAU, CARTER, CHARITON, CLARK, COLE, COOPER, CRAWFORD, DENT, DUNKLIN, GASCONADE, HOWARD, HOWELL, IRON, KNOX, LEWIS, LINN, MACON, MADISON, MARIES, MARION, MILLER, MISSISSIPPI, MONITEAU, MONROE, NEW MADRID, OREGON, OSAGE, PEMISCOT, PERRY, PHELPS, PIKE, PULASKI, PUTNAM, RALLS, RANDOLPH, REYNOLDS, RIPLEY, ST. FRANCOIS, STE. GENEVIEVE, SCHUYLER, SCOTLAND, SCOTT, SHANNON, SHELBY, STODDARD, SULLIVAN, TEXAS, WASHINGTON, AND WAYNE COUNTIES		
GROUP 1.....	\$ 20.32	7.03
GROUP 2.....	\$ 20.92	7.03
FRANKLIN COUNTY		
GROUP 1.....	\$ 21.77	7.03
GROUP 2.....	\$ 22.37	7.03
JEFFERSON COUNTY		
GROUP 1.....	\$ 21.82	7.03
GROUP 2.....	\$ 22.42	7.03
LINCOLN, MONTGOMERY AND WARREN COUNTIES		
GROUP 1.....	\$ 20.57	7.03
GROUP 2.....	\$ 21.17	7.03

LABORERS CLASSIFICATIONS

GROUP 1 - General laborer-flagman, carpenter tenders;  
 salamander Tenders; Dump Man; Ticket Takers; loading trucks  
 under bins, hoppers, and conveyors; track man; cement  
 handler; dump man on earth fill; georgie buggy man; material

batch hopper man; spreader on asphalt machine; material mixer man (except on manholes); coffer dams; riprap pavers rock, block or brick; scaffolds over ten feet not self-supported from ground up; skip man on concrete paving; wire mesh setters on concrete paving; all work in connection with sewer, water, gas, gasoling, oil, drainage pipe, conduit pipe, tile and duct lines and all other pipe lines; power tool operator; all work in connection with hydraulic or general dredging operations; form setters, puddlers (paving only); straw blower nozzle man; asphalt plant platform man; chuck tender; crusher feeder; men handling creosote ties or creosote materials; men working with and handling epoxy material; topper of standing trees; feeder man on wood pulverizers, board and willow mat weavers and cabelee tiers on river work; deck hands; pile dike and revetment work; all laborers working on underground tunnels less than 25 ft. where compressed air is not used; abutement and pier hole men working six (6) ft. or more below ground; men working in coffer dams for bridge piers and footing in the river; barco tamper; jackson or any other similar tamp; cutting torch man; liners, curb, gutters, ditch lines; hot mastic kettlemen; hot tar applicator; hand blade operator; mortar men or brick or block manholes; rubbing concrete, air tool operator under 65 lbs.; caulker and lead man; chain or concrete saw under 15 h.p.; signal Gan; Guard rail and sign erectors.

GROUP 2 - Skilled laborers - Vibrator man; asphalt raker; head pipe layer on sewer work; batterboard man on pipe and ditch work; cliff scalers working from bosun's chairs; scaffolds or platforms on dams or power plants over 10 ft. high; air tool operator over 65 lbs.; stringline man on concrete paving; sandblast man; laser beam man; wagon drill; churn drill; air track drill and all other similar type drills, gunite nozzle man; pressure grout man; screed man on asphalt; concrete saw 15 h.p. and over; grade checker; strigline man on electronic grade control; manhole builder; dynamite man; powder man; welder; tunnel man; waterblaster - 1000 psi or over; asbestos and/or hazardous waste removal and/or disposal

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LABO0579-005 05/01/2003

Rates                      Fringes

Laborers: (ANDREW,  
ATCHISON, BARRY, BARTON,  
BATES, BENTON, CALDWELL,  
CAMDEN, CARROLL, CEDAR,  
CHRISTIAN, CLINTON, DADE,  
DALLAS, DAVIESS, DEKALB,  
DOUGLAS, GREENE, GENTRY,  
GRUNDY, HARRISON, HENRY,  
HICKORY, HOLT, JASPER,  
JOHNSON, LACLEDE, LAWRENCE,  
LIVINGSTON, MCDONALD,  
MERCER, MORGAN, NEWTON,  
NODAWAY, OZARK, PETTIS,

POLK, ST. CLAIR, SALINE,  
 STONE, TANEY, VERNON,  
 WEBSTER, WORTH AND WRIGHT  
 COUNTIES.)

GROUP 1.....	\$ 17.29	7.24
GROUP 2.....	\$ 17.84	7.24

Laborers: (BUCHANAN AND  
 LAFAYETTE COUNTIES)

GROUP 1.....	\$ 18.74	7.49
GROUP 2.....	\$ 19.09	7.49

LABORERS CLASSIFICATIONS

GROUP 1: General Laborers - Carpenter tenders; salamander tenders; loading trucks under bins; hoppers & conveyors; track men & all other general laborers; air tool operator; cement handler-bulk or sack; dump man on earth fill; georgie buggy man; material batch hopper man; material mixer man (except on manholes); coffer dams; riprap pavers - rock, block or brick; signal man; scaffolds over ten feet not self-supported from ground up; skipman on concrete paving; wire mesh setters on concrete paving; all work in connection with sewer, water, gas, gasoline, oil drainage pipe, conduit pipe, tile and duct lines and all other pipe lines; power tool operator, all work in connection with hydraulic or general dredging operations; puddlers (paving only); straw blower nozzle man; asphalt plant platform man; chuck tender; crusher feeder; men handling creosote ties or creosote materials; men working with and handling epoxy material or materials (where special protection is required); rubbing concrete; topper of standing trees; batter board man on pipe and ditch work; feeder man on wood pulverizers; board and willow mat weavers and cable tiers on river work; deck hands; pile dike and revetment work; all laborers working on underground tunnels less than 25 feet where compressed air is not used; abutment and pier hole men working six (6) feet or more below ground; men working in coffer dams for bridge piers and footings in the river; ditchliners; pressure groutmen; caulker; chain or concrete saw; cliffscalers working from scaffolds, bosuns' chairs or platforms on dams or power plants over (10) feet above ground; mortarmen on brick or block manholes; toxic and hazardous waste work.

GROUP 2: Skilled Laborers - Head pipe layer on sewer work; laser beam man; Jackson or any other similar tamp; cutting torch man; form setters; liners and stringline men on concrete paving, curb, gutters; hot mastic kettleman; hot tar applicator; sandblasting and gunite nozzle men; air tool operator in tunnels; screed man on asphalt machine; asphalt raker; barco tamper; churn drills; air track drills and all similar drills; vibrator man; stringline man for electronic grade control; manhole builders-brick or block; dynamite and powder men; grade checker.

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 LABO0660-006 03/05/2003

ST. CHARLES COUNTY

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 22.69	7.10
GROUP 2.....	\$ 23.19	7.10

LABORERS CLASSIFICATIONS

GROUP 1: General laborer; carpenter tender; salamander tender; dump man; ticket takers; flagman; loading trucks under bins, hoppers, and conveyors; track men; cement handler; dump man on earth fill; Georgie buggie man; material batch hopper man; spreader on asphalt machine; material mixer man (except on manholes); coffer dams; riprap paver - rock, block, or brick; signal man; scaffolds over 10 ft not self-supported from ground up; skipman on concrete paving; wire mech setters on concrete paving; all work in connection with sewer, water, gas, gasoline, oil, drainage pipe, conduit pipe, tile and duct lines and all other pipe lines; power tool operator; all work in connection with hydraulic or general dredging operations; form setters; puddlers (paving only); straw blower nozzle man; asphalt plant platform man; chuck tender; crusher feeder; men handling creosote ties or creosote materials; men working with and handling epoxy material; topper of standing trees; feeder man on wood pulverizer; board and willow mat weavers and cable tiers on river work; deck hands; pile dike and revetment work; all laborers working on underground tunnels less than 25 ft where compressed air is not used; abutment and pier hole men working 6 ft or more below ground; men working in coffer dams for bridge piers and footings in the river; Barco tamper, Jackson or any other similar tamp; cutting torch man; liners, curb, gutters, ditchliners; hot mastic kettleman; hot tar applicator; hand blade operators; mortar men on brick or block manholes; rubbing concrete; air tool operator under 65 pounds; caulker and lead man; chain saw under 15 hp; guard rail and sign erectors

GROUP 2: Vibrator man; asphalt raker; hand pipe layer on sewer work; batterboard man on pipe and ditch work; cliff scalers working from Bosun's chairs, scaffolds or platforms on dams or power plants over 10 ft high; air tool operator over 65 pounds; stringline man on concrete paving etc.; sand blast man; laser beam man; wagon drill; churn drill; air track drill and all other similar type drills; gunnite nozzle man; pressure grout man; screed man on asphalt; concrete saw 15 hp and over; grade checker; stringline man on electronic grade control; manhole builder; dynamite man; powder man; welder; tunnel man; waterblaster - 1000 psi and over; asbestos and/or hazardous waste removal and or disposal;

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\* LABO0663-002 03/22/2004

CASS, CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 22.12	8.09
GROUP 2.....	\$ 23.29	8.09

LABORERS CLASSIFICATIONS

GROUP 1: General laborers, Carpenter tenders, salamander tenders, loading trucks under bins, hoppers and conveyors, track men and all other general laborers, air tool operator, cement handler (bulk or sack), chain or concrete saw, deck hands, dump man on earth fill, Georgie Buggies man, material batch hopper man, scale man, material mixer man (except on manholes), coffer dams, abutments and pier hole men working below ground, riprap pavers rock, black or brick, signal man, scaffolds over ten feet not self-supported from ground up, skipman on concrete paving, wire mesh setters on concrete paving, all work in connection with sewer, water, gas, gasoling, oil, drainage pipe, conduit pipe, tile and duct lines and all other pipelines, power tool operator, all work in connection with hydraulic or general dredging operations, straw blower nozzleman, asphalt plant platform man, chuck tender, crusher feeder, men handling creosote ties on creosote materials, men working with and handling epoxy material or materials (where special protection is required), topper of standing trees, batter board man on pipe and ditch work, feeder man on wood pulverizers, board and willow mat weavers and cable tiers on river work, deck hands, pile dike and revetment work, all laborers working on underground tunnels less than 25 feet where compressed air is not used, abutment and pier hole men working six (6) feet or more below ground, men working in coffer dams for bridge piers and footings in the river, ditchliners, pressure groutmen, caulker and chain or concrete saw, cliffscalers working from scaffolds, bosuns' chairs or platforms on dams or power plants over (10) feet above ground, mortarmen on brick or block manholes, signal man.

GROUP 2: Skilled Laborer - spreader or screed man on asphalt machine, asphalt raker, grade checker, vibrator man, concrete saw over 5 hp., laser beam man, barco tamper, jackson or any other similar tamp, wagon driller, churn drills, air track drills and other similar drills, cutting torch man, form setters, liners and stringline men on concrete paving, curb, gutters and etc., hot mastic kettleman, hot tar applicator, hand blade operators, mortar men on brick or block manholes, sand blasting and gunnite nozzle men, rubbing concrete, air tool operator in tunnels, head pipe layer on sewer work, manhole builder (brick or block), dynamite and powder men.

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\* PAIN002-002 09/01/2003

CLARK, FRANKLIN, JEFFERSON, LEWIS, LINCOLN, MARION, PIKE, RALLS, ST. CHARLES, ST. LOUIS (CITY & COUNTY), AND WARREN COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 24.93	8.65
Spray.....	\$ 26.93	8.65

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PAIN0002-006 02/01/2003

ADAIR, AUDRAIN, BOONE, CALLAWAY, CHARITON, COLE, GASCONADE,  
HOWARD, KNOX, LINN, MACON, MONROE, MONTGOMERY, OSAGE, PUTNAM,  
RANDOLPH, SCHUYLER, SCOTLAND, SHELBY AND SULLIVAN COUNTIES and  
the City of Booneville.

	Rates	Fringes
Painters:		
Bridges, Dams, Locks or Powerhouses.....	\$ 20.44	5.33
Brush, Roller, Paperhanger, Tapers.....	\$ 18.44	5.33
Sandblasting; Epoxy or Any Two Part Coating; Stage or Other Aerial Work Platforms Over 50 ft. high; Lead Abatement....	\$ 19.44	5.33
Spray; Water Base Epoxy; Stage Under 50 ft.; Structural Steel (except for stairs and railings).....	\$ 18.94	5.33
Tapers using Ames or comparable tools (bazooks, etc.).....	\$ 18.69	5.33

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PAIN0003-004 04/01/2000

BATES, BENTON, CALDWELL, CARROLL, CASS, CLAY, CLINTON, COOPER,  
DAVISS, GRUNDY, HARRISON, HENRY, JACKSON, JOHNSON, LAFAYETTE,  
LIVINGSTON, MERCER, MONITEAU, MORGAN, PETTIS, PLATTE, RAY AND  
SALINE COUNTIES

	Rates	Fringes
Painters:		
Bazooka; Paperhanger.....	\$ 22.60	6.01
Brush & Roller; Taper.....	\$ 22.10	6.01
Lead Abatement; Sprayman....	\$ 23.10	6.01
Sandblast (Bridge, Stage, Erected Steel and Storage Bin and Tanks).....	\$ 23.60	6.01
Sprayman (Storage Bin & Tanks, Elevated Tanks); Stageman (Spray);		

Bridgeman (Spray); Steelman (Spray).....	\$ 23.85	6.01
Steeplejack - Spray or Sandblast (other than Elevated Tanks).....	\$ 27.79	6.01
Steeplejack (other than Elevated Tanks).....	\$ 26.79	6.01
Storage Bin & Tanks (Roller or Brush); Elevated Tanks (Roller or Brush); Stageman; Beltman; Bridgeman; Steelman; Sand Blast (Base); Elevator Shaft.....	\$ 22.85	6.01

PAIN0098-002 05/01/2000

ANDREW, ATCHISON, BUCHANAN, DE KALB, GENTRY, HOLT, NODAWAY &  
WORTH COUNTIES

	Rates	Fringes
Painters:		
Brush & Roller.....	\$ 20.50	4.40
Sandblasters.....	\$ 21.50	4.40
Steeple Jack.....	\$ 23.50	4.40

PAIN0203-001 04/01/2002

BARRY, BARTON, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE,  
HICKORY, HOWELL, JASPER, LAWRENCE, MCDONALD, NEWTON, OZARK,  
POLK, ST. CLAIR, STONE, TANEY, VERNON, WEBSTER and WRIGHT  
COUNTIES

	Rates	Fringes
Painters:		
Painters.....	\$ 17.58	4.89
Sandblasters & Highman (over 40').....	\$ 18.13	4.89
Tapers.....	\$ 17.67	4.53

\* PAIN1265-003 07/01/2003

CAMDEN, CRAWFORD, DENT, LACLEDE, MARIES, MILLER, PHELPS,  
PULASKI AND TEXAS COUNTIES

	Rates	Fringes
Painters:		
Brush and Roller.....	\$ 18.79	8.12
Lead Abatement.....	\$ 21.04	8.12
Spray.....	\$ 19.29	8.12
Structural Steel,		

Sandblasting and All  
Tank Work.....\$ 20.04 8.12

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PAIN1292-002 07/01/2001

BOLLINGER, BUTLER, CAPE GIRARDEAU, CARTER, DUNKLIN,  
MISSISSIPPI, NEW MADRID, OREGON, PEMISCOT, PERRY, REYNOLDS,  
RIPLEY, SCOTT, SHANNON, STODDARD and WAYNE COUNTIES

	Rates	Fringes
Painters:		
Bridges, Stacks & Tanks.....	\$ 22.89	5.97
Commercial.....	\$ 15.44	5.97
Industrial.....	\$ 17.94	5.97
Spray & Abrasive Blasting.....	\$ 17.44	5.97
Taper (Tools).....	\$ 15.69	5.97
Waterblasting.....	\$ 17.44	5.97

Height Rates (All Areas):  
Over 60 ft. \$0.50 per hour.  
Under 60 ft. \$0.25 per hour.

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PAIN1292-003 07/01/2001

IRON, MADISON, ST. FRANCOIS, STE. GENEVIEVE and WASHINGTON  
COUNTIES

	Rates	Fringes
Painters:		
Bridges, Stacks & Tanks.....	\$ 22.89	5.97
Commercial.....	\$ 17.54	5.97
Industrial.....	\$ 18.54	5.97
Lead Abatement.....	\$ 18.29	5.97
Spray & Abrasive Blasting.....	\$ 19.54	5.97
Tapers (Tools).....	\$ 17.79	5.97
Waterblasting.....	\$ 19.54	5.97

Height Rates (All Areas):  
Over 60 ft. \$0.50 per hour  
Under 60 ft. \$0.25 per hour.

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PLAS0518-006 04/01/2002

BARRY, BARTON, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE,  
HOWELL, JASPER, LACLEDE, LAWRENCE, MCDONALD, NEWTON, OZARK,  
POLK, STONE, TANEY, VERNON, WEBSTER, AND WRIGHT COUNTIES

	Rates	Fringes
Cement Masons:.....	\$ 17.31	3.84

\* PLAS0518-007 03/22/2004

CASS (Richards-Gebaur AFB only), CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
Cement Masons:.....	\$ 21.25	11.45

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PLAS0518-011 05/01/2001

ANDREW, ATCHISON, BUCHANAN, BATES, CALDWELL, CARROLL, CASS (Except Richards-Gebaur AFB) CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, JACKSON, LAFAYETTE, LIVINGSTON, MACON, MERCER, NODAWAY AND WORTH COUNTIES

	Rates	Fringes
Cement Masons:.....	\$ 23.13	7.15

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PLAS0527-001 05/01/2003

	Rates	Fringes
Cement Masons: FRANKLIN, LINCOLN, AND WARREN COUNTIES.....	\$ 25.01	9.36
JEFFERSON, ST. CHARLES COUNTIES AND ST. LOUIS (City and County).....	\$ 26.18	9.36

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PLAS0527-004 05/01/2003

CRAWFORD, DENT, IRON, MADISON, MARION, PHELPS, PIKE, PULASKI, RALLS, REYNOLDS, ST. FRANCOIS, STE. GENEVIEVE, SHANNON, TEXAS, WASHINGTON COUNTIES

	Rates	Fringes
Cement Mason.....	\$ 23.70	9.28

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PLAS0908-001 05/01/2002

BOLLINGER, BUTLER, CAPE GIRARDEAU, CARTER, DUNKLIN, MISSISSIPPI, NEW MADRID, OREGON, PEMISCOT, PERRY, RIPLEY, SCOTT, STODDARD, AND WAYNE COUNTIES

	Rates	Fringes
Cement Mason.....	\$ 17.40	8.95

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PLAS0908-005 03/01/2002

BENTON, CALLAWAY, CAMDEN, COLE, GASCONADE, HENRY, HICKORY,  
JOHNSON, MARIES, MILLER, MONTGOMERY, MORGAN, OSAGE, PETTIS,  
SALINE & ST. CLAIR COUNTIES

	Rates	Fringes
Cement Mason.....	\$ 17.81	7.65

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\* PLUM0008-003 06/01/2003

	Rates	Fringes
Plumber BATES, BENTON, CARROLL, HENRY, LAFAYETTE, MORGAN , PETTIS, RAY, ST. CLAIR, SALINE and VERNON COUNTIES.....	\$ 26.00	11.61
CASS, CLAY, JACKSON, JOHNSON and PLATTE COUNTIES.....	\$ 28.83	13.22

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PLUM0035-002 01/01/2000

CAMDEN, COLE, CRAWFORD, FRANKLIN, JEFFERSON, MARIES, MILLER,  
MONITEAU, OSAGE, PHELPS, PULASKI, ST. CHARLES, ST. LOUIS (City  
and County), WARREN and WASHINGTON COUNTIES

	Rates	Fringes
Plumber.....	\$ 26.105	9.74

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\* PLUM0045-003 09/01/2003

ANDREW, ATCHISON, BUCHANAN, CALDWELL, CLINTON, DAVIESS, DEKALB,  
GENTRY, HARRISON, HOLT, NODAWAY AND WORTH COUNTIES

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 28.20	11.70

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PLUM0178-003 11/01/2001

BARRY, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE,  
HICKORY, LACLEDE, LAWRENCE, POLK, STONE, TANEY, WEBSTER, AND  
WRIGHT COUNTIES

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 22.10	7.37

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PLUM0317-002 07/01/1995

BOONE, CALLAWAY, COOPER, HOWARD, AND RANDOLPH COUNTY (Southern half)

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 19.18	3.17

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PLUM0533-004 06/01/2002

BATES, BENTON, CARROLL, CASS, CLAY, HENRY, HICKORY, JACKSON, JOHNSON, LAFAYETTE, MORGAN, PETTIS, PLATTE, RAY, SALINE, ST. CLAIR AND VERNON COUNTIES

	Rates	Fringes
Pipefitter.....	\$ 29.78	11.68

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PLUM0562-004 07/01/2002

ADAIR, AUDRAIN, BOLLINGER, BOONE, BUTLER, CALLAWAY, CAMDEN, CAPE GIRARDEAU, CARTER, CHARITON, CLARK, COLE, COOPER, CRAWFORD, DENT, DUNKLIN, FRANKLIN, GASCONADE, GRUNDY, HOWARD, HOWELL, IRON, JEFFERSON, KNOX, LEWIS, LINCOLN, LINN, LIVINGSTON, MACON, MADISON, MARIES, MARION, MERCER, MILLER, MISSISSIPPI, MONITEAU, MONROE, MONTGOMERY, NEW MADRID, OREGON, OSAGE, PEMISCOTT, PERRY, PHELPS, PIKE, PULASKI, PUTNAM, RALLS, RANDOLPH, REYNOLDS, RIPLEY, ST. CHARLES, ST. FRANCOIS, STE. GENEVIEVE, ST. LOUIS, SCHUYLER, SCOTLAND, SCOTT, SHANNON, SHELBY, STODDARD, SULLIVAN, TEXAS, WARREN, WASHINGTON, AND WAYNE COUNTIES.

	Rates	Fringes
Pipefitter.....	\$ 28.75	12.08

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PLUM0658-002 07/01/1998

BARTON, JASPER, MCDONALD, AND NEWTON COUNTIES

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 16.73	5.33

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TEAM0013-001 05/01/2002

	Rates	Fringes
Truck drivers: ADAIR, BUTLER, CLARK, DUNKIN, HOWELL, KNOX, LEWIS, OREGON, PUTNAM,		

RIPLEY, SCHUYLER, AND  
SCOTLAND COUNTIES

GROUP 1.....	\$ 21.79	5.50
GROUP 2.....	\$ 21.95	5.50
GROUP 3.....	\$ 21.94	5.50
GROUP 4.....	\$ 22.06	5.50

AUDRAIN, BOLLINGER,  
BOONE, CALLAWAY, CAPE  
GIRARDEAU, CARTER,  
COLE, CRAWFORD, DENT,  
GASCONADE, IRON, MACON,  
MADISON, MARIES,  
MARION, MILLER,  
MISSISSIPPI, MONROE,  
MONTGOMERY, NEW MADRID,  
OSAGE, PEMISCOT, PERRY,  
PHELPS, PIKE, PULASKI,  
RALLS, REYNOLDS, ST.  
FRANCOIS, STE.  
GENEVIEVE, SCOTT,  
SHANNON, SHELBY,  
STODDARD, TEXAS,  
WASHINGTON, AND WAYNE  
COUNTIES

GROUP 1.....	\$ 22.52	5.50
GROUP 2.....	\$ 22.68	5.50
GROUP 3.....	\$ 22.67	5.50
GROUP 4.....	\$ 22.79	5.50

TRUCK DRIVERS CLASSIFICATIONS:

GROUP 1: Flat Bed Trucks, Single Axle; Station Wagons;  
Pickup Trucks; Material Trucks, Single Axle; Tank Wagon,  
Single Axle

GROUP 2: Agitator and Transit Mix Trucks

GROUP 3: Flat Bed Trucks, Tandem Axle; Articulated Dump  
Trucks; Material Trucks, Tandem Axle; Tank Wagon, Tandem Axle

GROUP 4: Semi and/or Pole Trailers; Winch, Fork & Steel  
Trucks; Distributor Drivers and Operators; Tank Wagon,  
Semi-Trailer; Insley Wagons, Dumpsters, Half-Tracks,  
Speedace, Euclids and other similar equipment; A-Frame and  
Derrick Trucks; Float or Low Boy

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TEAM0056-001 05/01/2002

Rates Fringes

Truck drivers:

ANDREW, BARTON, BATES,  
BENTON, CALDWELL,  
CAMDEN, CARROLL, CEDAR,  
CHARITON, CHRISTIAN,  
CLINTON, COOPER, DADE,  
DALLAS, DAVIESS,

DEKALB, DOUGLAS,  
GREENE, HENRY, HICKORY,  
HOWARD, JASPER,  
LACLEDE, LAWRENCE,  
LINN, LIVINGSTON,  
MONITEAU, MORGAN,  
NEWTON, PETTIS, POLK,  
RANDOLPH, ST CLAIR,  
SALINE, VERNON,  
WEBSTER, AND WRIGHT  
COUNTIES

GROUP 1.....	\$ 22.22	5.50
GROUP 2.....	\$ 22.38	5.50
GROUP 3.....	\$ 22.37	5.50
GROUP 4.....	\$ 22.49	5.50
GROUP 5.....	\$ 22.12	5.50

ATCHISON, BARRY,  
GENTRY, GRUNDY,  
HARRISON, HOLT,  
MCDONALD, MERCER,  
NODADWAY, OZARK, STONE,  
SULLIVAN, TANEY AND  
WORTH COUNTIES

GROUP 1.....	\$ 21.49	5.50
GROUP 2.....	\$ 21.65	5.50
GROUP 3.....	\$ 21.64	5.50
GROUP 4.....	\$ 21.76	5.50
GROUP 5.....	\$ 21.39	5.50

BUCHANAN, JOHNSON AND  
LAFAYETTE COUNTIES

GROUP 1.....	\$ 23.43	5.50
GROUP 2.....	\$ 23.54	5.50
GROUP 3.....	\$ 23.58	5.50
GROUP 4.....	\$ 23.65	5.50
GROUP 5.....	\$ 23.33	5.50

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Flat bed trucks single axle; station wagons; pickup trucks; material trucks single axle; tank wagons single axle.

GROUP 2: Agitator and transit mix-trucks.

GROUP 3: Flat bed trucks tandem axle; articulated dump trucks; material trucks tandem axle; tank wagons tandem axle.

GROUP 4: Semi and/or pole trailers; winch, fork & steel trucks; distributor drivers & operators; tank wagons semi-trailer; insley wagons, dumpsters, half-tracks, speedace, euclids & other similar equipment; A-frames and derrick trucks; float or low boy.

GROUP 5: Warehousemen.

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TEAM0245-001 03/25/1998

BARRY, BARTON, CAMDEN, CEDAR, CHRISTIAN, DALLAS, DENT, DOUGLAS,

GREENE, HICKORY, HOWELL, JASPER, LACLEDE, LAWRENCE, MCDONALD, MILLER, NEWTON, OZARK, PHELPS, POLK, PULASKI, SHANNON, STONE, TANEY, TEXAS, VERNON, WEBSTER AND WRIGHT COUNTIES

	Rates	Fringes
Truck drivers:		
Traffic Control Service		
Driver.....	\$ 12.90	3.56+a

PAID HOLIDAYS: New Year's Day, Decoration Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day, employee's birthday and 2 personal days.

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\* TEAM0541-001 03/22/2004

CASS, CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 24.40	8.00
GROUP 2.....	\$ 23.85	8.00
GROUP 3.....	\$ 23.34	8.00

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Mechanics and Welders, Field; A-Frame Low Boy-Boomeruck Driver.

GROUP 2: Articulated Dump Truck; Insley Wagons: Dump Trucks, Excavating, 5 cu yds and over; Dumpsters; Half-Tracks: Speedace: Euclids & similar excavating equipment Material trucks, Tandem Two teams; Semi-Trailers; Winch trucks-Fork trucks; Distributor Drivers and Operators; Agitator and Transit Mix; Tank Wagon Drivers, Tandem or Semi; One Team; Station Wagons; Pickup Trucks; Material Trucks, Single Axle; Tank Wagon Drivers, Single Axle

GROUP 3: Oilers and Greasers - Field

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TEAM0541-002 03/25/2000

BATES, CASS, CLAY, HENRY, JACKSON, JOHNSON, LAFAYETTE, PLATTE, AND RAY COUNTIES

	Rates	Fringes
Truck drivers:		
Traffic Control Service		
Driver.....	\$ 14.15	2.44+a

a. PAID HOLIDAYS: New Year's Day, Decoration Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day, Employee's birthday and 2 personal days.

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\* TEAM0682-002 05/01/2003

ST LOUIS CITY AND COUNTY

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 22.635	3.91+a+b
GROUP 2.....	\$ 22.835	3.91+a+b
GROUP 3.....	\$ 22.935	3.91+a+b
GROUP 4.....	\$ 22.125	3.91+a+b

a. PENSION: \$25.60 per day, \$128.00 maximum per week.

b. HAZMAT PREMIUM: If Hazmat certification on a job site is required by a state or federal agency or requested by project owner or by the employer, employees on that job site shall receive \$1.50 premium pay.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1 - Pick-up trucks; forklift, single axle; flatbed trucks; job site ambulance, and trucks or trailers of a water level capacity of 11.99 cu. yds. or less

GROUP 2 - Trucks or trailers of a water level capacity of 12.0 cu yds. up to 22.0 cu yds. including euclids, speedace and similar equipment of same capacity and compressors

GROUP 3 - Trucks or trailers of a water level capacity of 22.0 cu. yds & over including euclids, speedace & all floats, flatbed trailers, boom trucks, winch trucks, including small trailers, farm wagons tilt-top trailers, field offices, tool trailers, concrete pumps, concrete conveyors & gasoline tank trailers and truck mounted mobile concrete mixers

GROUP 4 - Warehousemen.

FOOTNOTE FOR TRUCK DRIVERS:

a. PAID HOLIDAYS: Christmas Day, Independence Day, Labor Day, Memorial Day, Veterans Day, New Years Day, Thanksgiving Day

PAID VACATION: 3 days paid vacation for 600 hours of service in any one contract year; 4 days paid vacation for 800 hours of service in any one contract year; 5 days paid vacation for 1,000 hours of service in any one contract year. When such an employee has completed 3 years of continuous employment with the same employer and then works the above required number of hours, he shall receive double the number of days of vacation specified above. When such an employee has completed 10 years of continuous employment with the same employer and then works the above required number of hours, he shall receive triple the number of days of vacation specified above. When such an employee has completed 15 years of continuous employment with the same employer and then works the above required number of hours, he shall receive 4 times

the number of days of vacation specified above.

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TEAM0682-003 05/01/2002

ST.CHARLES, FRANKLIN, JEFFERSON, LINCOLN AND WARREN COUNTIES

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 22.435	3.46+a+b+c
GROUP 2.....	\$ 22.635	3.46+a+b+c
GROUP 3.....	\$ 22.735	3.46+a+b+c
GROUP 4.....	\$ 21.925	3.46+a+b+c

a.PAID HOLIDAYS: Christmas, Fourth of July, Labor Day, Memorial Day, Veterans Day, to be celebrated on either its National Holiday or on the day after Thanksgiving, whichever is agreed upon by the Association and the Union, New Year's Day and Thanksgiving Day.

PAID VACATION: 3 days paid vacation for 600 hours of service in any one contract year; 4 days paid vacation for 800 hours of service in any one contract year; 5 days paid vacation for 1,000 hours of service in any one contract year. When such an employee has completed 3 years of continuous employment with the same employer and then works the above required number of hours, he shall receive double the number of days of vacation specified above. When such an employee has completed 10 years of continuous employment with the same employer and then works the above required number of hours, he shall receive triple the number of days of vacation specified above. When such an employee has completed 15 years of continuous employmen with the same employer and then works the above required number of hours, he shall receive 4 times the number of days of vacation specified above. b.Pension: \$22.80 per day either worked or compensated to a maximum of \$114.00 per week.

c.Hazmat Pay: If Hazmat Certification on a job site is required by a state or federal agency or requested by project owner or by the employer, employees on that job site shall receive \$1.50 per hour premium pay.

TRUCK DRIVER CLASSIFICATIONS:

GROUP 1: Trucks or Trailers of a Water Level Capacity of 11.99 cu. yds. or less, Forklift Trucks, Job Site Ambulances, Pickup Trucks, Flatbed Trucks.

GROUP 2: Trucks or Trailers of a Water Level Capacity of 12.0 cu. yds. up to 22 cu. yds., Euclids, Speedace and Similar Equipment of Same Capacity and Compressors.

GROUP 3: Trucks or Trailers of a Water Level Capacity of 22.0 cu. yds. and over, Euclids and all Floats, Flatbed Trailers, Boom Trucks, Winch Trucks, Including Small Trailers, Farm Wagons, Tilt Top Trailers, Tool Trailers, Concrete Pumps,

Concrete Conveyors, Gasoline TankTrailers, Truck Mounted  
Mobile Concrete Mixers, End Dump, Side Dump and Articulated  
Dump Trucks

GROUP 4: Warehousemen.

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

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In the listing above, the "SU" designation means that rates  
listed under the identifier do not reflect collectively  
bargained wage and fringe benefit rates. Other designations  
indicate unions whose rates have been determined to be  
prevailing.  
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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  
Regional Office for the area in which the survey was conducted  
because those Regional Offices have 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.

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END OF GENERAL DECISION

SECTION 01100

GENERAL

PART 1 GENERAL

1.1 INQUIRIES

Pursuant to SECTION 00100 paragraph titled "**Explanation to Prospective Bidders**", any inquiries regarding this Invitation, before bids are opened, should be addressed to the District Engineer, Kansas City District, Corps of Engineers, 700 Federal Building, Kansas City, Missouri 64106, ATTN: **Ms. Cindy Moses**. Inquiries for which oral explanation or advice on the plans and specifications will suffice may be referred to **Ms. Moses** by calling Area Code 816-983-**3256**. Telephone calls concerning the mailing of plans and specifications should be made to Contracting Division at Area Code 816-983-3975. Collect telephone calls will not be accepted. (KCDO APR 84)

1.2 IDENTIFICATION OF EMPLOYEES

The Contractor shall be responsible for furnishing to each employee and for requiring each employee engaged on the work to display identification as may be approved and directed by the Contracting Office. All prescribed identification shall immediately be delivered to the Contracting Officer, for cancellation upon the release of any employee. When required by the Contracting Officer the Contractor shall obtain and submit fingerprints of all persons employed or to be employed on the project.

1.3 APPLICATION OF WAGE RATES

The inclusion of the Davis-Bacon Act General Wage Decision or the Service Contract Act Wage Determination in the solicitation is a statutory requirement. It is not a representation by the U.S. Army Corps of Engineers that any specific work task can be performed by any specific trade. Which work tasks can be performed by what trades depends on and is determined by the prevailing area practice for the local area where the contract is being performed. It is the sole responsibility of the **bidder** to determine and comply with the prevailing area practice. Inquiries regarding a prevailing area practice should be directed to the Corps of Engineers, Contractor Industrial Relations Specialist (telephone number 816-983-3723) or to the Department of Labor Regional Wage and Hour Division.

Application of wage rates and fringe benefits: For the application of the wage rates and fringe benefits contained in the Decision of the Secretary of Labor; attached to and a part of this contract, all work shall be considered Heavy Construction.

1.4 PAYMENTS TO SUBCONTRACTORS

The Contractor's attention is directed to CONTRACT CLAUSE titled "Payment Under Fixed-Price Construction Contracts." In addition to the requirements

set forth in the referenced paragraph, the Government will reimburse the Contractor, upon request, for amount of premiums paid by the subcontractors for performance and payment bonds (including coinsurance and reinsurance agreements, when applicable) after the Contractor furnishes evidence of full payment to the surety.

1.5 PAYMENTS TO CONTRACTOR (KCD MAY 90 - FORMERLY FAR 52.2/9101(a))

The following is an example of a Contractor's release of claims clauses required to comply with the provisions of paragraph (h) of the CONTRACT CLAUSE titled "Payments Under Fixed-Price Construction Contracts":

RELEASE OF CLAIMS

The undersigned Contractor under contract dated \_\_\_\_\_, 2000, between the United States of America and said Contractor for the \_\_\_\_\_ located at \_\_\_\_\_, in accordance with paragraph (h) of the CONTRACT CLAUSE titled "Payments Under Fixed-Price Construction Contracts" of said contract, hereby releases the United States, its officers, agents, and employees from any and all claims arising under or by virtue of said contract or any modification or change thereof except with respect to those claims, if any, listed below:

(Here itemize claims and amounts due.)

1.6 PARTNERING

The Government intends to encourage the foundation of a cohesive partnership with the Contractor and its subcontractor. This partnership will be structured to draw on the strengths of each organization to identify and achieve mutual goals with the intent to complete the Contract within budget, on schedule and in accordance with plans and specifications. This partnership will be bilateral in makeup, and participation will be totally voluntary. Any cost associated with implementing this partnership will be agreed to by the Contractor and the Government, and will be shared equally with no change in Contract price. To implement this partnership initiative, it is anticipated that thirty (30) days after Notice to Proceed, a team building workshop will be conducted. Follow-up workshops will be held periodically throughout the duration of the Contract as agreed to by the Contractor and the Government.

1.7 PROSPECTIVE CONTRACTOR RESPONSIBILITY

Each bidder shall furnish, within 3 calendar days after receipt of request therefor, data which will show the bidder's ability to perform the work or services required by this Invitation for Bids. Such data shall include as a minimum: Bank certification of financial capability, or a financial statement not over 60 days old, which will be treated as confidential (if over 60 days old, a certificate shall be attached thereto stating that the financial condition is substantially the same or, if not the same, the changes that have taken place); names of commercial and financial reporting agencies from whom credit reports may be obtained; trade creditors; name and address of bonding company; business and construction experience; past record of performance of Government contracts; and construction plant and

equipment available for this job, with resume of work in progress or other data that will assure that the bidder is in a position to perform the work within the time specified.

In addition, if the bid exceeds \$1,000,000, the bidder shall furnish upon request, a certified statement listing:

(a) Each contract awarded to him within the preceding three-month period exceeding \$1,000,000 in value with brief description of the contract.

(b) Each contract awarded to him within the preceding three-year period not already physically completed and exceeding \$5,000,000 in value with brief description of the contract.

(c) If the prospective Contractor is a joint venture, each joint venture member will be required to submit the above defined certification. There shall also be furnished any other available information which will serve to substantiate the bidder's qualifications as a responsible prospective Contractor. (KCD APR 84)

#### 1.8 PERFORMANCE OF WORK BY CONTRACTOR

Bidder's attention is directed to SPECIAL CLAUSE titled "Performance of Work by Contractor." The successful bidder will be required to furnish the Contracting Officer, a description of the work which he will perform with his own organization (e.g., earthwork, paving, etc.), the percentage of the total work this represents, and the estimated cost thereof. Such description of work to be performed by the Contractor's own organization shall be furnished to the Contracting Officer within 10 days after award of the contract.

#### 1.9 LABORATORY AND TESTING FACILITIES

The Contractor shall provide and maintain all measuring and testing devices, laboratory equipment, instruments, transportation, and supplies necessary to accomplish the required testing. All measuring and testing devices shall be calibrated at established intervals against certified standards. The Contractor's measuring and testing equipment shall be made available for use by the Government for verification of their accuracy and condition as well as for any inspection or test desired pursuant to the CONTRACT CLAUSE titled "Inspection of Construction." The location of the laboratory shall be convenient to the site such that test results are available prior to proceeding with the next sequential phase of the work. (KCD)

#### 1.10 LIMITS OF RIGHT-OF-WAY

Limits of right-of-way within private property shall be established as soon as practicable and at least 30 days prior to commencing work in the immediate vicinity, to allow time for relocation of fences by owners of property adjacent to the location of the work.

1.11 UNAVAILABILITY OF UTILITIES

The responsibility shall be upon the Contractor to provide and maintain at his own expense, adequate utilities for his use for construction and domestic consumption, and to install and maintain necessary connections and lines for same, but only at such locations and in such manner as may be approved by the Contracting Officer. Before final acceptance, temporary connections and lines installed by the Contractor shall be removed in a manner satisfactory to the Contracting Officer.

1.12 TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER

(a) This provision specifies the procedure for determination of time extensions for unusually severe weather in accordance with the CONTRACT CLAUSE titled "Default: (Fixed Price Construction)." In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:

(1) The weather experienced at the project site during the contract period must be found to be unusually severe, that is, more severe than the adverse weather anticipated for the project location during any given month.

(2) The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

(b) The following schedule of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the project location and will constitute the base line for monthly weather time evaluations. The Contractor's progress schedule must reflect these anticipated adverse weather delays in all weather dependent activities for the duration of the project.

Note: After the original contract completion date has passed, adverse weather that causes delay for the completion of the project will be granted day-for-day without deducting anticipated adverse weather delay days.

MONTHLY ANTICIPATED ADVERSE WEATHER DELAY

WORK DAYS BASED ON (5) DAY WORK WEEK

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
(8)	(4)	(4)	(5)	(5)	(5)	(4)	(4)	(4)	(4)	(3)	(5)

(c) Upon acknowledgment of the Notice to Proceed (NTP) and continuing throughout the contract, the Contractor shall record on the daily CQC report, the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on critical path activities for 50 percent or more of the Contractor's scheduled work day.

\* Monthly anticipated weather delay days shall be adjusted proportionally if work is performed in a work week with greater than or less than a

five-day work week. The following formula shall be used to adjust the monthly anticipated weather delays:

adjusted monthly anticipated weather delays - **A** multiplied by (**B** divided by **C**; where:

**A** = The monthly anticipated adverse weather delay for a particular month based on a five-day work week.

**B** = The actual average number of days worked per week during that particular month.

**C** = The number five (5).

eg., If the monthly anticipated adverse weather delay for January based on a five day work week is 10 days, but the Contractor actually worked an average of a six-day work week for that month, the monthly anticipated weather delay would be adjusted by applying the above formula as follows:  
 $10 \times (6/5) = 12$  days.

#### 1.13 REQUIRED INSURANCE SCHEDULE

In accordance with CONTRACT CLAUSE titled "Insurance - Work On A Government Installation," the Contractor shall procure and maintain during the entire period of his performance under this contract the following minimum insurance.

Type	Amount
Workmen's Compensation	coverage complying with applicable State Statute
Employers' Liability	minimum amount of \$100,000.00
General Liability on Comprehensive Form of Policy	minimum limits of \$500,000 per occurrence for bodily injury which includes, but is not limited to, insurance for all work required herein
Comprehensive Automobile Liability	minimum limits of \$200,000 per person and \$500,000 per occurrence for bodily injury, and \$20,000 per occurrence for property damage

(End of clause)

#### 1.14 INTERRUPTIONS TO UTILITY SERVICES

A schedule showing the approximate times of interruptions of utility services and roads shall be submitted approximately 30 days in advance of interrupting services to make connections. Where it is necessary to interrupt services to make connections and the period of interruption will last more than 2 hours, the connections shall be performed on Saturday or Sunday, unless otherwise approved by the Contracting Officer. Final arrangements shall be made with the Contracting Officer at least 72 hours

in advance of the scheduled times of interruptions.

1.15 COORDINATION BETWEEN CONTRACTORS

(See CONTRACT CLAUSE titled "Other Contracts.") Construction work on another contract, "Prospect Bridge Replacement and Brush Creek Channel Modifications", is underway concurrently with this Contract. The obligations of the Contractor under this Contract will include jointly planning and scheduling the work (i.e. the release of temporary stored water from the temporary dam) on a cooperative basis, with the other Contractor involved in order to minimize delays and interferences.

1.16 COOPERATION BETWEEN THE CONTRACTOR AND UTILITY COMPANIES

Relocation of utilities by the utility companies listed in SECTION 02001 will be necessary concurrently with the work under this contract. All coordinating shall be through, or with the knowledge of, the Contracting Officer. (KCD)

Coordination: The Contractor shall coordinate and schedule the work in cooperation with each utility company, to minimize delays and interferences. After receipt of notice to proceed, the Contractor shall notify each utility company and make the necessary arrangements for the utility relocation. The Contractor shall also notify each utility company 30 days in advance of commencing construction work within the vicinity of the utility line.

1.17 CONTRACTOR-FURNISHED EQUIPMENT DATA

At or before 30 days prior to final inspection and acceptance of the work, the Contractor shall submit the data mentioned in the following subclauses.

(1) Equipment List. An itemized equipment list showing unit retail value and nameplate data including serial number, model number, size, manufacturer, etc., for all Contractor-furnished items of mechanical equipment, electrical equipment, and fire protection systems installed under this contract.

(2) Guarantees. A list of all equipment items which are specified to be guaranteed accompanied by a copy of each specific guarantee therefor. For each specific guaranteed item, a name, address, and telephone number shall be shown on the list for subcontractor who installed equipment, equipment supplier or distributor and equipment manufacturer. The completion date of the guarantee period shall correspond to the applicable specification requirements for each guaranteed item.

(3) Warranty Service Calls. The Contractor shall furnish to the Contracting Officer the names of local service representatives and/or Contractors that are available for warranty service calls and who will respond to a call within the time periods as follows: 4 hours for heating, air-conditioning, refrigeration, air supply and distribution, and critical electrical service systems and food service equipment, and 24 hours for all other systems. The names, addresses, and telephone numbers for day, night,

weekend, and holiday service responses shall be furnished to the Contracting Officer and also posted at a conspicuous location in each mechanical and electrical room or close to the unit.

1.18 SAFETY AND HEALTH REQUIREMENTS MANUAL (EM 385-1-1)

(a) EM 385-1-1 and its changes are available at <http://www.hq.usace.army.mil> (at the HQ homepage, select Safety and Occupational Health). See Section 00700, Contract Clause titled "Accident Prevention."

(b) Before initiation of work at the job site, an accident prevention plan, written by the prime contractor for the specific work and hazards of the contract and implementing in detail the pertinent requirements of EM 385-1-1, will be reviewed and found acceptable by designated Government personnel.

1.19 COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)

The Contractor shall comply with OSHA standards as well as the most current edition of the Corps of Engineers General Safety Requirements Manual (EM 385-1-1). The OSHA standards are subject to change and such changes may affect the Contractor in his performance under the contract. It is the Contractor's responsibility to know such changes and effective dates of changes.

1.20 CONSTRUCTION EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE

Whenever a modification or equitable adjustment of contract price is required, the Contractor's cost proposal for equipment ownership and operating expenses shall be as set forth in SPECIAL CLAUSE titled "Equipment Ownership and Operating Expense Schedule." A copy of EP 1110-1-8 "Construction Equipment Ownership and Operating Expense Schedule" dated August 1995 can be ordered from the Government Printing Office (GPO) by calling Telephone No. 202-512-1800.

1.21 SHOP DRAWINGS

The Contractor's attention is directed to clause "Specifications and Drawings for Construction" of the Contract Clauses.

1.22 SUBMITTALS

(a) Submittal Procedures. See Division One SECTION: SUBMITTAL PROCEDURES.

(b) Shop Drawings shall be submitted in ample time to secure approval prior to the time the items covered thereby are to be delivered to the site. ENG Form 4025 and 4026 shall be used for the transmittal of shop drawings. Unless otherwise specified, shop drawings shall be submitted not less than 30 days before commencement of fabrication of fabricated items and not less than 15 days before delivery of standard stock manufactured items. Where materials are stock with the manufacturer, catalog data, including specifications and full descriptive matter, may be submitted as shop drawings. When catalog includes nonapplicable data, the applicable data

shall be clearly designated and identified by item number, item name, and name of manufacturer. Shop drawings submitted (including initial and final submittals) shall be reproductions on high quality paper with clear and legible print. Drawings shall generally be bordered a minimum of one inch and trimmed to neat lines and unless otherwise specified, the minimum scale shall be 3/8-inch to the foot. Shop drawings quality will be subject to approval. Each shop drawing, including catalog data, shall be identified with a title block including the name of Contractor, contract number, name and location of project, and name of item of work or structure to which the shop drawing applies. Material fabricated or delivered to the site before approved shop drawings have been returned to the Contractor will be subject to rejection. NO CONSTRUCTION OR INSTALLATION SHALL BE DONE FOR ANY ITEM REQUIRING SHOP DRAWINGS, UNTIL ALL SHOP DRAWINGS FOR THAT ITEM HAVE BEEN APPROVED.

(c) As-Built Shop Drawings: Upon completion of the work under this contract, the Contractor shall furnish five complete sets of prints or one complete set of reproducibles of all shop drawings as finally approved. These drawings shall show all changes and revisions made up to the time the equipment is completed and accepted. The quality of the reproducibles and prints is subject to approval.

(d) As-Built Drawings: The Contractor shall maintain three separate sets of red-lined, full scale, as-built construction drawings marked up to fully indicate as-built conditions. These drawings shall be maintained in a current condition at all times until completion of the work, and shall be available for review by Government personnel at all times. All variations from the contract drawings, for whatever reason, including those occasioned by modifications, optional materials, and the required coordination between trades, shall be indicated. These variations shall be shown in the same general detail utilized in the contract drawings. In addition, the Contractor shall indicate on the As-Built Drawings, the brand-name, description, location, and quantity of any and all materials used which contain asbestos. The Contractor shall also be responsible for updating the Government-furnished CADD files to reflect the current as-built conditions throughout the duration of the project. The updated CADD design files shall be maintained in the Intergraph Microstation format consistent with the graphic standards established in the CADD contract drawings provided by the Government. The Contractor will be provided a copy of the Tri-Service CADD standards to facilitate his efforts in the maintenance of design files. The updated CADD files shall be reviewed by the Government on a monthly basis during the progress payment evaluation. The Contractor shall be prepared to demonstrate the status of the updated CADD files in his on-site office. The as-built utility drawings shall show locations and elevations of all underground new utilities and existing utilities encountered, including dimensions from permanent structures and/or survey locations. The submittal requirements for as-built utility drawings shall be shown as separate activities on the Contractor-prepared network analysis. Upon completion of the work, the marked-up drawings and the updated CADD files shall be furnished to the Contracting Officer on CD. In multiphased construction where portions of a system are to be turned over to the user prior to completion of the project, the marked-up drawings for that portion shall be furnished to the Contracting Officer at that time. (MRD ltr 30 Oct 70 and KCD 8 Apr 91)

(e) CADD Files: The Government will provide to the Contractor, within 30 calendar days after Notice of Award, copies of the CADD computer files of the contract drawings for the production of as-built drawings. These files will be in Intergraph Microstation format. The Government provides no warranty, expressed or implied, of the CADD computer files. The Contractor shall assume all responsibility to verify the CADD drawing files. The Contractor will not utilize the CADD drawing computer files to resolve dimensional or other discrepancies. The Government will not guarantee the measurable accuracy of the CADD drawing computer files.

(f) Purchase Orders: Each purchase order issued by the Contractor or his subcontractors for materials and equipment to be incorporated into the project, shall be maintained on file at the Contractor's field office for inspection and review by Government representatives. Each purchase order shall (1) be clearly identified with applicable DA contract number, (2) carry an identifying number, (3) be in sufficient detail to identify the material being purchased, (4) indicate a definite delivery date, and (5) display the DMS priority rating. At the option of the Contractor, the copies of the purchase orders may or may not indicate the price of the articles purchased. (MRD Ltr 22 Oct 74)

#### 1.23 SPECIAL REFERENCES

(a) Shop Drawings. Bidder's attention is directed to SPECIAL CLAUSE titled "Shop Drawings." The basic requirements for Shop Drawings are set forth in the CONTRACT CLAUSES and SPECIAL CLAUSES.

(b) Approved Equal. Bidder's attention is directed to SPECIAL CLAUSE titled "Approved Equal."

(c) Payment to Subcontractors. Bidder's attention is directed to SPECIAL CLAUSE titled "Payments to Subcontractors."

#### 1.24 DIFFERENCES IN DRAWINGS

In addition to the provisions of CONTRACT CLAUSE paragraph "Specifications and Drawings for Construction," the structural drawings shall govern in cases where they differ from the architectural drawings.

#### 1.25 LAYOUT OF WORK (1965 APR OCE)

(a) The Contractor shall furnish, at his own expense, such stakes, templates, platforms, equipment, tools and material, and all labor as may be required in laying out any part of the work from the base lines and benchmarks established by the Government. It shall be the responsibility of the Contractor to maintain and preserve all stakes and other marks established by the Contracting Officer until authorized to remove them, and if such marks are destroyed, by the Contractor or through his negligence prior to their authorized removal they may be replaced by the Contracting Officer, at his discretion, and the expense of replacement will be deducted from any amounts due or to become due the Contractor. The Contracting Officer may require that work be suspended at any time when location and limit marks established by the Contractor are not reasonably adequate to

permit checking of the work.

(b) Records of Contractor-performed survey activities shall be kept in complete, accurate, and legible field notes. The format shall conform to established standards for such records. Prior to any surveys, the Contractor shall submit the field note format for approval.

(c) The layout of work shall be under the direction of a competent survey party chief who has the following minimum qualifications: (1) high school graduate; (2) 7 years survey experience; (3) 4 years experience on construction related survey activities, and (4) 1 year experience as survey party chief.

#### 1.26 PLANTS AVAILABLE

Each bidder shall, upon request of the Contracting Officer, furnish a list of the plants available to the bidder and proposed for use on the work.

#### 1.27 QUANTITY SURVEYS USING DRAWING FINISH LINES

Where the TECHNICAL PROVISIONS provide for using the finish lines on drawings as the final lines for quantity measurement purposes, the Contractor shall, in addition to the requirements set forth in SPECIAL CLAUSE paragraph titled "Quantity Surveys", make final surveys at least at all locations (stations) where the Contractor performed original surveys. (KCD 23 Jan 76)

#### 1.28 DAMAGE TO WORK (1966 MAR OCE)

(a) The responsibility for damage to any part of the work to be performed under this contract shall be as set forth in the CONTRACT CLAUSE titled "Permits and Responsibilities." However, if any part of the permanent work is damaged by flood or earthquake, which damage is not due to the failure of the Contractor to take reasonable precaution or to exercise sound engineering and construction practices in the conduct of the work, the Contractor will make the repairs ordered by the Contracting Officer and full compensation for such repairs will be made at the applicable contract unit or lump sum prices as fixed and established in the contract. If, in the opinion of the Contracting Officer, there are no contract unit or lump sum prices applicable to any part of such damaged work, an equitable adjustment pursuant to Contract Clause entitled, Changes, of the contract, will be made as full compensation therefor.

#### 1.29 AGGREGATE SOURCES (1965 MAY OCE)

(a) Concrete aggregates may be furnished from source listed in SECTION 03301 or at the option of the Contractor may be furnished from any other source designated by the Contractor and approved by the Contracting Officer, subject to the conditions hereinafter stated.

(B) After the award of the contract, the Contractor shall designate in writing only one source or combination of sources from which he proposes to furnish aggregates. If the Contractor proposes to furnish aggregate from a

source or from sources not listed above, he may designate only a single source or single combination of sources for aggregates. If a source for coarse or fine aggregate so designated by the Contractor is not approved for use by the Contracting Officer, the Contractor may not submit for approval other sources but shall furnish the coarse or fine aggregate, as the case may be, from an approved source listed above at no additional cost to the Government.

(d) Listing of a concrete aggregate source is not to be construed as approval of all material from the source. The right is reserved to reject materials from certain localized areas, zones, strata, or channels when such materials are unsuitable for concrete aggregate as determined by the Contracting Officer. Materials produced from an approved source shall meet all the requirements of SECTION 03301 of these specifications.

#### 1.30 WORK ADJACENT TO ROADS AND HIGHWAYS

Where the construction work is on or adjacent to, or involves hauling over public or private roads, streets, or highways, all herein referred to as "roads," the said roads shall, except as otherwise specified or directed, be kept open for traffic at all times during the construction period. Further, the Contractor shall, during said construction, provide, erect and maintain warning signs, lanterns or torches or other safety devices and, when necessary, provide flagmen for protection of traffic to the satisfaction of the Contracting Officer and local authorities. The Contractor shall keep the right-of-way of the roads free of debris that might be caused to accumulate thereon by his operations, and upon completion of the work, shall clean up the said roads and repair any damage to the roads occasioned by his operations under this contract to the satisfaction of the Contracting Officer and local authorities having jurisdiction. The drainage from the roads shall not be obstructed by the construction work. The Contractor shall be responsible for obtaining and paying for all permits required for operation on all roads.

#### 1.31 APPROVED EQUAL

The drawings and the TECHNICAL PROVISIONS of these specifications may, in some instances, refer to certain items of equipment, material, or article by trade name. References of this type shall not be construed as limiting competition, but shall be regarded as establishing a standard of quality. In this respect, the Contractor's attention is directed to CONTRACT CLAUSE titled "Material and Workmanship."

#### 1.32 SCHEDULE OF WORK

The Contractor's attention is directed to CONTRACT CLAUSE titled "Schedule for Construction Contracts," wherein if, in the opinion of the Contracting Officer, the Contractor falls behind the approved schedule, the Contractor shall take steps necessary to improve its progress, including those that may be required by the Contracting Officer.

1.33 PROTECTION OF UTILITY LINES

It shall be the Contractor's responsibility to protect all existing utility lines from damage during excavation for utilities systems. Any damage resulting to existing utility systems shall be repaired by the Contractor, to the satisfaction of the contracting officer, at no additional cost to the Government.

1.34 MODIFICATIONS PRIOR TO DATE SET FOR OPENING BIDS

The right is reserved, as the interest of the Government may require, to revise or amend the specifications or drawings or both prior to the date set for opening bids. Such revisions and amendments, if any, will be announced by an amendment or amendments to this Invitation for Bids. If the revisions and amendments are of a nature which requires material changes in quantities or prices bid or both, the date set for opening bids may be postponed by such number of days as in the opinion of the issuing officer will enable bidders to revise their bids. In such cases, the amendment will include an announcement of the new date for opening bids. (KCD APR 84)

1.35 PROFIT

1.35.1 Weighted Guidelines

Weighted guidelines method of determining profit shall be used on any equitable adjustment change order or modification issued under this contract. The profit factors, expressed as percent, shall be as follows:

<u>Factor</u>	<u>Rate</u>	<u>Weight</u>	<u>Value</u>
Degree of Risk	20		
Relative Difficulty of Work	15		
Size of Job	15		
Period of Performance	15		
Contractor's Investment	5		
Assistance by Government	5		
Subcontracting	<u>25</u>		
	100	Profit%	_____

1.35.2 Values

Based on the circumstances of each procurement action, each of the above factors shall be weighted from 0.03 to 0.12 as indicated below. The value shall be obtained by multiplying the rate by the weight. The value column when totaled indicates the fair and reasonable profit percentage under the circumstances of the particular procurement.

1.35.2.1 Degree of Risk

Where the work involves no risk or the degree of risk is very small, the weighting should be 0.03; as the degree of risk increases, the weighting should be increased up to a maximum of 0.12. Lump sum items will have, generally, a higher weighted value than the unit price items for which

quantities are provided. Other things to consider: the portion of the work to be done by subcontractors, nature of work, where work is to be performed, reasonableness of negotiated costs, amount of labor included in costs, and whether the negotiation is before or after performance of work.

1.35.2.2 Relative Difficulty of Work

If the work is most difficult and complex, the weighting should be 0.12 and should be proportionately reduced to 0.03 on the simplest of jobs. This factor is tied in to some extent with the degree of risk. Some things to consider: the nature of the work, by whom it is to be done, where, and what is the time schedule?

1.35.2.3 Size of Job

All work not in excess of \$100,000 shall be weighted at 0.12. Work estimated between \$100,000 and \$500,000,000 shall be proportionately weighted from 0.12 to 0.05. Work from \$500,000,000 to \$10,000,000 shall be weighted at 0.04, and work in excess of \$10,000,000 at 0.03.

1.35.2.4 Period of Performance

Modifications in excess of 24 months are to be weighted at 0.12. Modifications of lesser duration are to be proportionately weighted to a minimum of 0.03 for jobs not to exceed 30 days. No weight where additional time is not required.

1.35.2.5 Contractor's Investment

To be weighted from 0.03 to 0.12 on the basis of below average, average, and above average. Things to consider: amount of subcontracting, mobilization payment item, Government furnished property, equipment and facilities, and expediting assistance.

1.35.2.6 Assistance by Government

To be weighted from 0.12 to 0.03 on the basis of average to above average. Things to consider: use of Government-owned property, equipment and facilities, and expediting assistance.

1.35.2.7 Subcontracting

To be weighted inversely proportional to the amount of subcontracting. Where 80 percent or more of the work is to be subcontracted, the weighting is to be 0.03 and such weighting proportionately increased to 0.12 where all the work is performed by the Contractor's own forces.

1.36 EXPEDITING NOTICE TO PROCEED

Notwithstanding the requirements of Block 12 on page 00010-1 of SECTION 00010 and SECTION 00100 paragraph titled "Late Submissions, Modifications, and Withdrawals of Bids," in order to expedite award of contract and issuance of NOTICE TO PROCEED, it is requested that an officer of the

company or corporation determined to be the successful bidder shall appear in the office of the Commander, Kansas City District, Corps of Engineers, 700 Federal Building, 601 East 12th Street, Kansas City, Missouri, for signing contract documents. Therefore, upon written acceptance of this bid, mailed or otherwise furnished within 60 calendar days after the date of opening of bids, it is requested that the successful bidder shall within 24 hours after receipt of notification appear in the office of the Commander and execute Notice to Proceed documents, and give performance and payment bonds on Government Standard forms 25 and 25A with good and sufficient surety. It is also requested that the successful bidder furnish insurance certificates required in SPECIAL CLAUSE titled "Required Insurance Schedule" at this time.

#### 1.37 UNEXPECTED HAZARDOUS SUBSTANCES

In the event that suspected hazardous substances are revealed during construction activities, all such construction activities in the immediate area shall be immediately suspended. Hazardous substances for purposes of this specification only, shall be defined as CERCLA hazardous substances, infectious or radioactive wastes, asbestos or oil. The Contractor shall leave the materials undisturbed and shall immediately report the find to the Contracting Officer's Representative (COR) so that proper authorities can be notified. The Contractor shall not resume construction activities in the vicinity of the suspected hazardous substances until written clearance is received from the COR. Identification and removal of any such materials will be conducted in accordance with all Federal, state and local environmental laws and regulations according to the CONTRACT CLAUSE titled "Differing Site Conditions."

#### 1.38 SURVEY MARKERS

Reference is made to CONTRACT CLAUSE titled "Permits and Responsibilities", Chapter 60 of the Missouri Revised Statutes 1969, and rules titled "Maintenance of the Original US Public Land Survey Corners" adopted by the Division of Geology and Land Survey, Missouri Department of Natural Resources. The Contractor shall be responsible for removing and relocating survey markers. Relocation shall be performed by a professional registered Land Surveyor.

#### 1.39 DEMOLITION

Disposal of demolition waste shall be in accordance with all applicable Federal, State and local regulations, including "Chapter 260, RSMO" of the "Missouri Department of Natural Resources."

#### 1.40 EXCAVATION NOTIFICATION

Prior to any excavation on either public or private properties, Missouri law requires that you notify all owners and operators of underground facilities in your dig site. Missouri One Call System (MOCS) can help you comply with the law; "Chapter 319, RSMO" of the "Missouri Department of Natural Resources," by calling this one toll-free number 1-800-344-7483.

1.41 MISSOURI SALES AND USE TAX

In accordance with FAR Clause 52.229, notice is given that the contract price excludes the Missouri sales tax and compensating (use) tax on all sales of tangible personal property and materials purchased by the Contractor or subcontractors for the construction of projects, including repairing or remodeling facilities, for the United States. In accordance with Section 144.062, RSMo., the Contracting Officer will issue and furnish to the Contractor an exemption certificate (example copy appears at the end of this section) for this project with the Notice to Proceed. The Contractor and the subcontractors will use the exemption certificate for this project in the purchase of supplies, materials and furnishings for incorporation in the project. The Contractor and the subcontractors shall furnish a copy of such certificate to all suppliers/materialmen from whom such purchases are made, and the suppliers shall execute invoices covering the same bearing the number of such certificate. (KCD OC)

1.42 MILESTONE DATES

The Contractor shall perform the following items of work within the time period indicated:

- a. Complete 95% of the Total rock excavation involved in the base bid within 19 weeks of NTP.
- b. Place 800 CY of concrete reinforced channel wall (L-wall and G-wall) within 19 weeks of NTP.
- c. Place 1600 CY of 18-inch Channel Paving within 19 weeks of NTP.

1.43 1.42 WEEKLY COORDINATION MEETINGS

In order to closely coordinate work under this contract, the Contractor shall prepare for and attend weekly coordination meetings with the Contracting Officer and representatives from Kansas City, Mo. at which time the Contractor shall discuss his progress and his proposed schedule for the next 2-week period. Coordination action by the Contracting Officer relative to these schedules will be accomplished during these weekly meetings. The Weekly Coordination Meetings are in addition to the Periodic Progress Meeting, required by 01320A - PROJECT SCHEDULE.

1.44 #.1 DOCUMENTATION OF EXISTING CONDITIONS

Prior to the start of construction, the Contractor shall provide the Resident Engineer with a copy of a SD-01, Vidio Tape of Existing Site Conditions;RE. The Contractor shall notify the Resident Engineer of the time and date of the recording, so the Contracting Officer may be present.

W912DQ-04-B-0006-0002

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION (Not Applicable)

\* \* \* \* \*

EXAMPLE

STATE OF MISSOURI

PROJECT EXEMPTION CERTIFICATE FOR EXEMPT ENTITY CONSTRUCTION

UNITED STATES OF AMERICA

NAME OF EXEMPT ENTITY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TAX IDENTIFICATION NUMBER (None required)

PROJECT IDENTIFICATION NUMBER \_\_\_\_\_

PLEASE PROVIDE THE PROJECT LOCATION AND A BRIEF DESCRIPTION BELOW:

CONTRACT DATE \_\_\_\_\_

CERTIFICATE EXPIRATION DATE \_\_\_\_\_

Contractors are required to provide a copy of this project exemption certificate to their vendors.

This project exemption certificate does not allow contractors to purchase machinery, equipment, or tools used in fulfilling this contract, tax exempt.

Suppliers accepting this project exemption certificate are required to render to the contractor invoices bearing the name of the exempt entity and the project identification number.

An exempt entity that fails to revise the expiration date on this certificate as necessary to complete any work required by the contract will be liable for any sales tax determined due as a result of an audit of the contractor.

The Contractor shall provide this project exemption to all subcontractors purchasing construction materials for this project.

SIGNATURE OF AUTHORIZED AGENT

EXHIBIT A

-- End of Section --

SECTION 01500

TEMPORARY CONSTRUCTION FACILITIES  
02/97

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

1.1.1 Site Plan

The Contractor shall prepare a site plan indicating the proposed location and dimensions of any area to be fenced and used by the Contractor, the number of trailers to be used, avenues of ingress/egress to the fenced area and details of the fence installation. Any areas which may have to be graveled to prevent the tracking of mud shall also be identified. The Contractor shall also indicate if the use of a supplemental or other staging area is desired.

1.2 AVAILABILITY AND USE OF UTILITY SERVICES

1.2.1 Payment for Utility Services

The amount of each utility service consumed shall be paid for by the Contractor. The contractor shall contract directly with the utility companies.

1.2.2 Sanitation

The Contractor shall provide and maintain within the construction area minimum field-type sanitary facilities approved by the Contracting Officer. Government toilet facilities will not be available to Contractor's personnel.

1.2.3 Telephone

The Contractor shall make arrangements and pay all costs for telephone facilities.

1.3 BULLETIN BOARD, PROJECT SIGN, AND PROJECT SAFETY SIGN

1.3.1 Bulletin Board

Immediately upon beginning of work, the Contractor shall provide a weatherproof glass-covered bulletin board not less than 36 by 48 inches in size for displaying the Equal Employment Opportunity poster, a copy of the wage decision contained in the contract, Wage Rate Information poster, and other information approved by the Contracting Officer. The bulletin board shall be located at the project site in a conspicuous place easily

accessible to all employees, as approved by the Contracting Officer. Legible copies of the aforementioned data shall be displayed until work is completed. Upon completion of work the bulletin board shall be removed by and remain the property of the Contractor.

#### 1.3.2 Project and Safety Signs

The requirements for the signs, their content, and location shall be as shown on the drawings. The signs shall be erected within 15 days after receipt of the notice to proceed. The data required by the safety sign shall be corrected daily, with light colored metallic or non-metallic numerals. Upon completion of the project, the signs shall be removed from the site.

#### 1.4 PROTECTION AND MAINTENANCE OF TRAFFIC

During construction the Contractor shall provide access and temporary relocated roads as necessary to maintain traffic. The Contractor shall maintain and protect traffic on all affected roads during the construction period except as otherwise specifically directed by the Contracting Officer. Measures for the protection and diversion of traffic, including the provision of watchmen and flagmen, erection of barricades, placing of lights around and in front of equipment and the work, and the erection and maintenance of adequate warning, danger, and direction signs, shall be as required by the State and local authorities having jurisdiction. The traveling public shall be protected from damage to person and property. The Contractor's traffic on roads selected for hauling material to and from the site shall interfere as little as possible with public traffic. The Contractor shall investigate the adequacy of existing roads and the allowable load limit on these roads. The Contractor shall be responsible for the repair of any damage to roads caused by construction operations.

##### 1.4.1 Haul Roads

The Contractor shall, at its own expense, construct access and haul roads necessary for proper prosecution of the work under this contract. Haul roads shall be constructed with suitable grades and widths; sharp curves, blind corners, and dangerous cross traffic shall be avoided. The Contractor shall provide necessary lighting, signs, barricades, and distinctive markings for the safe movement of traffic. The method of dust control, although optional, shall be adequate to ensure safe operation at all times. Location, grade, width, and alignment of construction and hauling roads shall be subject to approval by the Contracting Officer. Lighting shall be adequate to assure full and clear visibility for full width of haul road and work areas during any night work operations. Upon completion of the work, haul roads designated by the Contracting Officer shall be removed.

##### 1.4.2 Barricades

The Contractor shall erect and maintain temporary barricades to limit public access to hazardous areas. Such barricades shall be required whenever safe public access to paved areas such as roads, parking areas or sidewalks is prevented by construction activities or as otherwise necessary

to ensure the safety of both pedestrian and vehicular traffic. Barricades shall be securely placed, clearly visible with adequate illumination to provide sufficient visual warning of the hazard during both day and night.

#### 1.5 CONTRACTOR'S TEMPORARY FACILITIES

##### 1.5.1 Administrative Field Offices

The Contractor shall provide and maintain administrative field office facilities within the construction area at the designated site. Government office and warehouse facilities will not be available to the Contractor's personnel.

##### 1.5.2 Storage Area

The Contractor shall construct a temporary 6 foot high chain link fence with triple barbed wire around trailers and materials. The fence shall include plastic strip inserts, colored green, so that visibility through the fence is obstructed. Fence posts may be driven, in lieu of concrete bases, where soil conditions permit. Trailers, materials, or equipment shall not be placed or stored outside the fenced area unless such trailers, materials, or equipment are assigned a separate and distinct storage area by the Contracting Officer away from the vicinity of the construction site.

Trailers, equipment, or materials shall not be open to public view with the exception of those items which are in support of ongoing work on any given day. Materials shall not be stockpiled outside the fence in preparation for the next day's work. Mobile equipment, such as tractors, wheeled lifting equipment, cranes, trucks, and like equipment, shall be parked within the fenced area at the end of each work day.

##### 1.5.3 Supplemental Storage Area

Upon Contractor's request, the Contracting Officer will designate another or supplemental area for the Contractor's use and storage of trailers, equipment, and materials. This area may not be in close proximity of the construction site. Fencing of materials or equipment will not be required at this site; however, the Contractor shall be responsible for cleanliness and orderliness of the area used and for the security of any material or equipment stored in this area. Utilities will not be provided to this area by the Government.

##### 1.5.4 Appearance of Trailers

Trailers utilized by the Contractor for administrative or material storage purposes shall present a clean and neat exterior appearance and shall be in a state of good repair. Trailers which, in the opinion of the Contracting Officer, require exterior painting or maintenance will not be allowed.

##### 1.5.5 Maintenance of Storage Area

Fencing shall be kept in a state of good repair and proper alignment. Should the Contractor elect to traverse, with construction equipment or other vehicles, grassed or unpaved areas which are not established roadways, such areas shall be covered with a layer of gravel as necessary

to prevent rutting and the tracking of mud onto paved or established roadways; gravel gradation shall be at the Contractor's discretion. Grass located within the boundaries of the construction site shall be mowed for the duration of the project. Grass and vegetation along fences, buildings, under trailers, and in areas not accessible to mowers shall be edged or trimmed neatly.

#### 1.5.6 New Building

In the event a new building is constructed for the temporary project field office, it shall be a minimum 12 feet in width, 16 feet in length and have a minimum of 7 feet headroom. It shall be equipped with approved electrical wiring, at least one double convenience outlet and the required switches and fuses to provide 110-120 volt power. It shall be provided with a work table with stool, desk with chair, two additional chairs, and one legal size file cabinet that can be locked. The building shall be waterproof, shall be supplied with heater, shall have a minimum of two doors, electric lights, a telephone, a battery operated smoke detector alarm, a sufficient number of adjustable windows for adequate light and ventilation, and a supply of approved drinking water. Approved sanitary facilities shall be furnished. The windows and doors shall be screened and the doors provided with dead bolt type locking devices or a padlock and heavy duty hasp bolted to the door. Door hinge pins shall be non-removable. The windows shall be arranged to open and to be securely fastened from the inside. Glass panels in windows shall be protected by bars or heavy mesh screens to prevent easy access to the building through these panels. In warm weather, air conditioning capable of maintaining the office at 50 percent relative humidity and a room temperature 20 degrees F below the outside temperature when the outside temperature is 95 degrees F, shall be furnished. Any new building erected for a temporary field office shall be maintained by the Contractor during the life of the contract and upon completion and acceptance of the work shall become the property of the Contractor and shall be removed from the site. All charges for telephone service for the temporary field office shall be borne by the Contractor, including long distance charges up to a maximum of \$75.00 per month.

#### 1.5.7 Security Provisions

Adequate outside security lighting shall be provided at the Contractor's and the Government's temporary facilities. The Contractor shall be responsible for the security of its own equipment; in addition, the Contractor shall notify the appropriate law enforcement agency requesting periodic security checks of the temporary project field offices. The Contractor shall provide the Government's Temporary Facilities with a monitored / reporting alarm system, security patrols, and locksets, at no additional expense to the Government.

#### 1.6 deleted

#### 1.7 PLANT COMMUNICATION

Whenever the Contractor has the individual elements of its plant so located

that operation by normal voice between these elements is not satisfactory, the Contractor shall install a satisfactory means of communication, such as telephone or other suitable devices. The devices shall be made available for use by Government personnel.

1.8 TEMPORARY PROJECT SAFETY FENCING

As soon as practicable, but not later than 15 days after the date established for commencement of work, the Contractor shall furnish and erect temporary project safety fencing at the work site. The safety fencing shall be maintained by the Contractor during the life of the contract and, upon completion and acceptance of the work, shall become the property of the Contractor and shall be removed from the work site. For additional requirements of the TEMPORARY FENCING refer to SECTION 02001 - CONSTRUCTION, GENERAL.

1.9 CLEANUP

Construction debris, waste materials, packaging material and the like shall be removed from the work site daily. Any dirt or mud which is tracked onto paved or surfaced roadways shall be cleaned away. Materials resulting from demolition activities which are salvageable shall be stored within the fenced area described above or at the supplemental storage area. Stored material not in trailers, whether new or salvaged, shall be neatly stacked when stored.

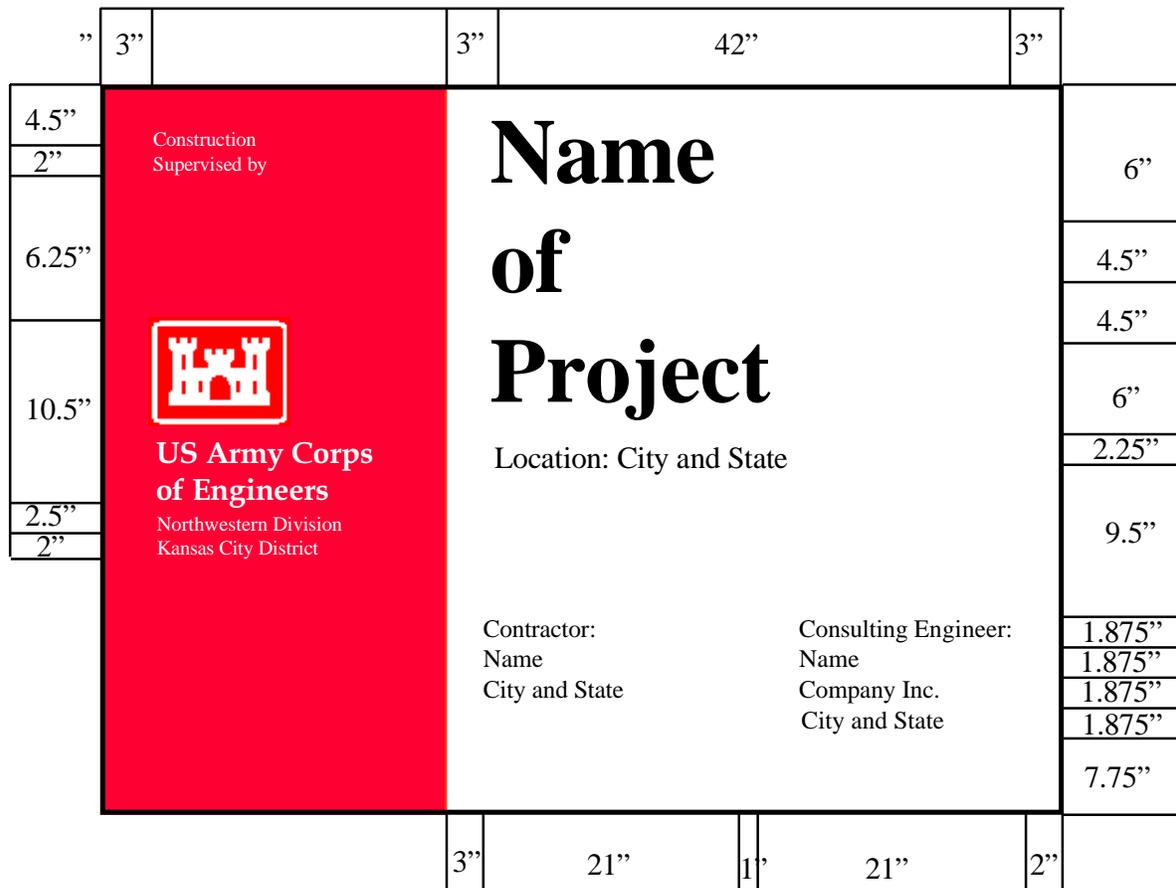
1.10 RESTORATION OF STORAGE AREA AND STAGING AREA

Upon completion of the project and after removal of trailers, materials, and equipment from within the fenced area, the fence shall be removed and will become the property of the Contractor. Areas used by the Contractor for the storage of equipment or material, Staging Areas and other areas disturbed by the Contractor's activities, shall be restored to the original or better condition. Gravel used to traverse grassed areas shall be removed and the area restored to its original condition, including top soil and seeding as necessary.

-- End of Section --

The graphic format for this 4'x 6' sign panel follows the legend guidelines and layout as specified below. The large 4'x 4' section of panel on the right is to be white with black legend. The 2'x 4' section of the sign on the left with the full Corps signature (reverse version) is to be screen printed Communications Red on the White background.

This sign is to be placed with the Safety Performance Sign (See Fig. 2).



Legend Group 1: One to two-line description of Corps relationship to project  
 Color: White  
 Typeface: 1.25" Helvetica Regular  
 Maximum line length: 19"

Legend Group 2: Division\ District Name Placed below 10.5" Reverse Signature (6" Castle).  
 Color: White  
 Typeface: 1.25" Helvetica Regular

Legend Group 3: One- to three-line project title legend describes the work being done under this contract.  
 Color: Black  
 Typeface: 3" Helvetica Bold  
 Maximum line length: 42"

Legend Group 4: One- to two-line identification of project or facility (civil works) or name of sponsoring department (military).  
 Color: Black  
 Typeface: 1.5" Helvetica Regular  
 Maximum line length: 42"

Cross-align the first line of Legend Group 4 with the first line of the Corps Signature (US Army Corps) as shown.

Legend Groups 5a-b: One- to five-line identification of prime contractors including: type (architect, general contractor, etc.), corporate or firm name, city, state. Use of Legend Group 5 is optional.  
 Color: Black  
 Typeface: 1.25" Helvetica Regular  
 Maximum line length: 21"

All typography is flush left and rag right, upper and lower case with initial capitals only as shown. Letter- and word-spacing to follow Corps standards

Sign Type	Legend Size	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
CID-01	Various	4' x 6'	4' x 4'	HDO-3	48"	WH-RD/BK

**CONSTRUCTION SIGN (CORPS OF ENGINEERS DESIGN)**  
 (Use with Fig 2)

Fig. 1

All Construction Project Identification signs and Safety Performance signs are to be fabricated and installed as described below. The signs are to be erected at a location designated by the contracting officer and shall conform to size, format, and typographic standards.

The sign panels are to be fabricated from .75" High Density Overlay Plywood.

Sign graphics to be prepared on a white non-reflective vinyl film with positionable adhesive backing.

All graphics except for the Communications Red background with Corps signature on the project sign are to die-cut or computer cut nonreflective vinyl, pre-spaced legends prepared in the sizes and typefaces specified and applied to the background panel following the graphic formats shown.

The 2' x 4' Communications Red panel (to match PMS-032) with full Corps signature (reverse version) is to be screen printed on the white background identification of the District / Division may be applied under the signature with white cut vinyl letters prepared to Corps standards.

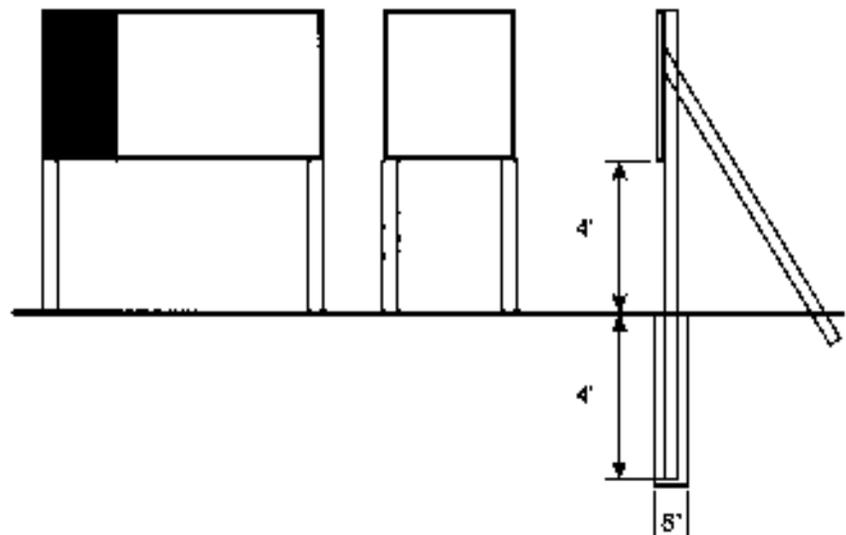
Drill and insert six (6) .375 T-nuts from the front face of the HDO sign panel. Position holes as shown. Flange of T-nut to be flush with sign face.

Apply Graphic panel to prepared HDO plywood panel following manufactures instructions.

Sign uprights to be structural grade 4" x 4" treated Douglas Fir or Southern Yellow Pine, No 1 or better. Post to be 12' long Drill six (6) .375" mounting holes in uprights to align with T-nuts in sign panel. Countersink (5") back of hole to accept socket head cap screw (4" x .375").

Assemble sign panel and uprights. Imbed assembled sign panel and uprights in 4" hole. Local soil conditions and/or wind loading may require bolting additional 2" x 4" structs on inside face of uprights to reinforce installation shown.

Shown below the mounting diagram is a panel layout grid with spaces provided for project information. Photocopy this page and use as a worksheet when preparing sign Legend orders.



Construction Project Sign  
Legend Group 1

- 1 \_\_\_\_\_
- 2 \_\_\_\_\_

Legend Group 2 Division/District Names

- 1 \_\_\_\_\_
- 2 \_\_\_\_\_

Legend Group 3 Project Title

- 1 \_\_\_\_\_
- 2 \_\_\_\_\_
- 3 \_\_\_\_\_

Legend Group 4 Facility Name

- 1 \_\_\_\_\_
- 2 \_\_\_\_\_

Legend Group 5a Contractor/A&E

- 1 \_\_\_\_\_
- 2 \_\_\_\_\_
- 3 \_\_\_\_\_
- 4 \_\_\_\_\_
- 5 \_\_\_\_\_

Legend Group 5b Contractor/A&E

- 1 \_\_\_\_\_
- 2 \_\_\_\_\_
- 3 \_\_\_\_\_
- 4 \_\_\_\_\_
- 5 \_\_\_\_\_

Safety Performance Sign  
Legend Group 1: Project Title

- 1 \_\_\_\_\_
- 2 \_\_\_\_\_

Legend Group 2: Contractor/A&E

- 1 \_\_\_\_\_
- 2 \_\_\_\_\_

# SAFETY PERFORMANCE SIGN

Each contractor's safety record is to be posted on Corps managed or supervised construction projects and mounted with the construction project identification sign.

The graphic format, color, size and typefaces used on the sign are to be reproduced exactly as specified below. The title with First Aid logo in the top section of the sign and the performance record captions are standard for all signs of the type. Legend Groups 2 and 3 below identify the project and the contractor and are to be placed on the sign as shown.

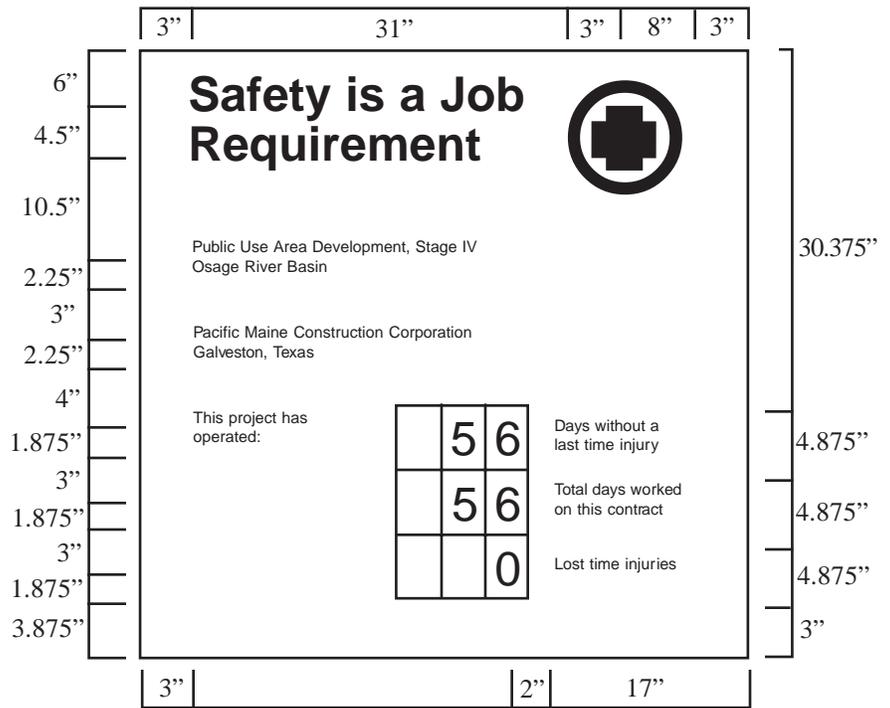
Safety record numbers are mounted on individual metal plates and are screw mounted to the background to allow for daily revisions to posted safety performance record.

**Legend Group 1:** Standard two-line title "Safety is a Job requirement" with (8 od.) Safety Green First Aid logo.  
Color: to match PMS 347  
Typeface: 3" Helvetica Bold  
Color: Black

**Legend Group 2:** One to two-line project title legend describes the work being done under this contract and name of host project.  
Color: Black  
Typeface: 1.5" Helvetica Regular  
Maximum line length: 42"

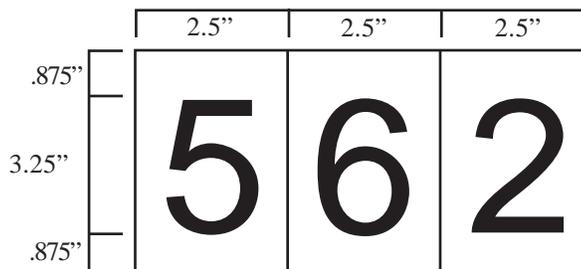
**Legend Group 3:** One to two-line identification; name of prime contractor and city, state address.  
Color: Black  
Typeface: 1.5" Helvetica Regular  
Maximum line length: 42"

**Legend Group 4:** Standard safety record captions as shown.  
Color: Black  
Typeface: 12.5" Helvetica Regular



Sign Type	Legend Size	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
CID-02	Various	4' X 4'	4" X 4"	HDO-3	48"	WH/BK - GR

Replaceable numbers are to be mounted on white .060 aluminum plates and screw-mounted to background.  
Color: Black  
Typeface: 3" Helvetica Regular  
Plate size: 2.5" X 5"



All typography is flush left and rag right. Upper and lower case with initial capitals only as shown. Letter - and word - spacing to follow Corps standards.

Fig. 2

SECTION 02001

CONSTRUCTION, GENERAL  
08/03

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only or as otherwise designated. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-07 Certificates

Plan of Operations; G, RE

Interim Plan; G, RE

1.3 SCOPE

This section outlines general construction requirements. Detailed requirements are specified in subsequent sections.

1.4 PLAN OF OPERATIONS

The work shall be performed in accordance with a Plan of Operations submitted by the Contractor for review, SD-07, GA-RE. See also paragraph: Construction Sequencing, hereinafter. The work shall assure that nonflood period normal channel flows are not impeded at all times unless approved by the Contracting Officer. The Plan shall cover the detailed features of the work and shall be submitted within 60 days after Notice to Proceed. The Contractor shall plan his operations to prevent damage to, or interference with, existing power and underground utility lines, bridges, and roads which cross, parallel, or pass longitudinally along the construction right-of-way. The Plan shall include, but not be limited to: water control, access, haul routes, noise and dust control, disposal plan, temporary stockpiles, traffic control, concrete placement, scheduling of work on

sanitary sewers and water main, and overall sequencing. As work progresses, the Plan shall be modified in writing as necessary to meet field conditions. The Plan and any changes thereto will be reviewed by the Contracting Officer for adherence to the contract. The Contracting Officer may suspend work for Contractor's failure to furnish a Plan of Operations within the specified time.

#### 1.4.1 Interim Plan

An Interim Plan shall be submitted within ten (10) days from Notice to Proceed, SD-07, G-RE. This plan shall describe work to be conducted during the first 60 days. The Plan of Operations shall supersede the Interim Plan if submitted prior to the 60th day.

#### 1.4.2 Working Hours

All work shall be performed between the hours of 6:30 a.m. and 8:00 p.m. There shall be no work performed on Sundays. These restrictions may be relaxed, for performing operations incidental to the required work, such as concrete sawing, when submitted for approval at least 48 hours in advance of the proposed work

#### 1.5 CHANNEL WORK

The geologic profiles shown in the channel work was developed from the test borings provided in the informational drawings as well as bedrock exposures. Geologic boring logs and test report information used in channel design is available at the US Army Corps of Engineers - Kansas City, 601 East 12th Street, Kansas City, Missouri. It remains the responsibility of the bidder to verify actual field conditions.

#### 1.6 CONSTRUCTION WORK AREA LIMITS

The construction work area shall be the composite area defined by the project limits and any temporary easement boundaries.

##### 1.6.1 General

The Contractor will be assigned project work area limits as shown on the drawings. The project limits shown shall be observed unless otherwise approved by the City of Kansas City, Missouri (the City or KCMO), through the Contracting Officer. The Contractor will not have sole access to the assigned work areas, and the use of the area shall be coordinated with the Government for the performance of the required work within these areas. Additional work area required for the performance of this contract shall be subject to the following conditions.

##### 1.6.2 Staging Area

The Contractor will be provided an area adjacent to the channel work for

storing equipment, materials and supplies used for the construction of channel improvements. The location of the staging area is shown in the drawings.

1.6.2.1 Legal Description

Not Applicable

1.6.3 Disposal Areas

Disposal areas are available to the Contractor subject to the limitations stated in SECTION: 02111 CLEARING, GRUBBING AND DEMOLITION.

1.6.4 Area Not Controlled By Government

Should the Contractor make arrangements for utilization of any privately owned areas, he shall obtain a three-party written agreement between the Contractor, the property owner and the City. The Contractor shall relieve the Government of any claims for damages in writing, prior to operating off-site.

1.7 CONSTRUCTION SEQUENCING

1.7.1 General

The utility trench shall be completed no later than 45 days after notice to proceed(or award date of option). (This requirement is to allow the utilities with overhead cables to remove and place them into the utility trench ducts. Early removal of the overhead cables is highly desirable to reduce the risk of construction outages for which the contractor is responsible.) The Contractor shall limit the area under construction to a reach of the channel approved by the Contracting Officer to minimize disruption of the overall project limits. Construction of utilities may be in advance of channel excavation and is not restricted by any predetermined limits. Clearing, grubbing, excavation, and demolition shall not proceed more than 500 feet ahead of the finished channel unless approved by the Contracting officer. Finished channel shall include all required channel modifications, excluding seeding and mulching. The Contractor may continue to use the channel bottom for access and shall remain responsible for its condition during the entire contract. Stockpiling of excavated materials and construction materials shall be minimized and shall be contained within the construction right-of-way, provided adequate safety of the excavated slopes is maintained in all construction areas.

Kansas City Power and Light (KCPL), Time Warner Cable (TWC), Kansas City Missouri Water Services, Kansas City Water & Sewer Department, and other appropriate agencies shall be contacted for coordination and relocation of utility lines adjacent to the channel and other appurtenant structures.

1.7.2 City streets and roads and parking areas

City streets and roads and parking areas within and outside the project limits shall be kept free of dirt, mud, rock, or other materials spilled or

dropped from equipment. Dust shall be controlled by sprinkling water, washing, sweeping, or other methods as approved by the Contracting officer.

In using the roads, the Contractor shall conform to any regulations or weight restrictions required by the City of Kansas City, Missouri, Missouri Department of Transportation, and the weight restrictions in the Special Clauses. Roads shall be repaired to preconstruction conditions. Photographic documentation is optional but recommended to establish pre construction conditions.

1.7.3 Cooperation Between Contractors

Construction work on utility will be under way concurrently with this contract. The obligations of the Contractor under this contract will include jointly planning and scheduling the work, on a cooperative basis, with the other Contractors involved in order to minimize delays and interferences. Contracts to perform the work described hereinafter will be underway concurrently with this contract.

Contracting Agency	Description of Work	Estimated Completion Date or Completion Time
US Army Corps of Engineers, NWK	Const. Brush Ck	November 2004
Kansas City Power And Light	Relocation of OHE	Coordinate KCPL
Mo. Gas Energy	NONE	
Water Services Department	Storm Sewer Relocation	Coordinate with KCMO
Southwestern Bell	NONE	
Time Warner Cable	Relocation of OH cables	Coordinate with TWC
Fiber Optic	Relocation of OH cables	Coordinate with Xspedia

1.7.4 SEQUENCE OF CONSTRUCTION

The plan of operations shall be submitted to detail the proposed sequence of construction. The Contractor shall take into consideration the following limitation while developing the plan of operation.

1.7.4.1 Curb, gutter, street Construction

Provide type III barricades at intersection of Woodland and Swope Parkway.

1.7.4.2 Utilities

All utility work shall be completed in accordance with requirements on the drawings as needed to stage the construction of the channel.

1.7.4.3 Drop Structure Construction

Drop Structure construction shall proceed to allow for adequate drainage of the channel flows without causing excessive erosion or damages to the required structures under normal channel flows. In the event of anticipated flooding of the channel due to extreme wet weather, the contractor shall take action to protect partially completed structures. This action shall be identified in the plan of operation as a Flood Contingency Plan.

1.7.4.4 Utility relocations

1.7.4.5 KCPL, Fiber Optic and TWB work

Contractor shall provide utility conduits for KCPL, SWB, and TWB relocations. KCPL, SWB, and TWB will provide the adjacent manholes, poles, and such. Coordination with these utilities is required so they may run their cables and make connections as soon as possible.

1.8 PERMITS

1.8.1 Highway Permits

The Contractor shall obtain the necessary construction permits Kansas City Traffic Control (Jere Meredith, 816-513-2665), and Missouri Department of Transportation (Vernon Koch, 816-622-0417 or Norman Beeman, 816-622-0413) for work near the Bruce Watkins and Cleaver II roadways.

1.8.2 Other permits

The Contractor shall obtain all other necessary permits for work along Brush Creek, other than the NPDES, 404, and 401 permits.

1.9 TEMPORARY FENCING

The Contractor shall provide fencing around any areas under construction to minimize public access. Fencing shall be as continuous as possible excluding the channel bottom. Daily maintenance of fence is required to repair damage to fence.

1.9.1 Minimum Height

Fence shall have a minimum height of 4 feet.

1.9.2 Fence Fabric

Fence fabric shall consist of high density polyethylene or copolymer. The fabric shall be orange in color, U.V. Stabilized, and have a yield strength of not less than 500 pounds per foot.

1.9.3 Fence Posts

Fence fabric shall be mounted on posts driven not less than 18 inches into the ground and spaced at not more than 15-feet horizontally.

1.9.4 Construction Easement Fence

Where fences must be maintained across the construction easement, gates shall be installed, and kept locked unless in use.

1.9.5 Storage Area Fence

Chain link fencing for storage and work areas may be temporarily installed at contractor expense.

1.10 UTILITIES

1.10.1 General

**Water**, communication, power, storm drainage and sewer lines exist within the construction limits. The approximate location of each is shown on the plans and is the best information available at this time. **Those lines that occur within the excavation limits shall be altered by the Contractor as required.** The Contractor shall notify the appropriate utility companies within 7 days following contract award of construction work over, under, or adjacent to utility services. The Contractor shall organize and conduct a meeting for the purpose of coordinating and scheduling utilities work for the project. The meeting shall be conducted within two (2) weeks of submitting the Contractor's Interim Plan of Operation. The following persons (as applicable) shall be contacted for the meeting, and as necessary when construction work coincides with utilities.

Mike Rukgaber  
KCMO-Traffic  
816-513-2670

Billy L. Courtney  
Manager-Engineering Design  
SBC Southwestern Bell Tele Co.  
5400 Foxridge - Room 500  
Mission Ks. 66202

913-676-0378

Time Warner Cable  
Attn : Artie Pippin - Construction Dept.  
6550 Winchester Ave.  
KC Mo. 64133  
816-358-5360--5613

Xspedia  
Mike Carter  
816-221-0903-22 913-207-6898  
Michael.carter@xspedius.com

Ron Dejarnette  
KCPL  
8619 Prospect Ave.  
K.C. Mo. 64132  
816-276-5540

Call for approval before placing concrete around 6 inch conduits.  
George King (KCPL) 816-898-2214

Call for approval before placing concrete around 6 inch conduits.  
Gary Spandle (KCPL) 816-810-5829

Dig-Rite  
1-800-dig-rite

Dennis McMan  
Manager Parks & Recreation, City of Kansas City, Mo.  
816-513-7625

Michael Herron  
Parks & Recreation Department  
City of Kansas City, Missouri  
6601 Swope Parkway  
Kansas City, Missouri 64106  
(816) 523-5613

Andy Shively  
K.C.MO Water Services  
816-513-2204

C. Ted Turney  
Engineering Services Division  
Water & Pollution Control Depts.  
City of Kansas City, Missouri  
414 East 12th Street  
Kansas City, Missouri 64106  
(816) 274-1755

KCMO Water Services  
513-8000

Storm Water  
Arvin Hayes  
564-8540

Sanitary Sewers  
Arvin Riley  
564-0065

Jim  
Real Estate Department  
Kansas City Power & Light Company  
Post Office Box 679  
Kansas City, Missouri 64141  
(816) 245-3732

Joseph F. Reichert  
Chief of Planning & Scheduling  
Public Works Department  
City of Kansas City, Missouri  
414 East 12th Street  
Kansas City, Missouri 64106  
(816) 274-2069

MoGas Energy - Engineering  
223 Gillis  
KC Mo. 64120  
816-472-3464

#### 1.10.2 Storm Sewer Alterations

All storm sewer and combined sewer outfalls that are affected by channel excavation shall be modified as indicated, and shall be kept open and free-flowing at all times. The Contractor shall verify the exact location of each utility prior to excavation.

#### 1.10.3 Operation of Existing Facilities

Existing utilities or sewers which lie adjacent to and/or to which new sanitary sewers connect shall be kept in continuous operation throughout the construction period. No interruption will be permitted which adversely affects the degree of service provided. Provided permission is obtained from owner in advance, portions of the existing facilities may be taken out of service for short periods corresponding with periods of minimum service demands.

Contractor shall provide temporary facilities and make temporary modifications as necessary to keep the existing facilities in operation during the construction period. Under no circumstances shall sewage be

discharged to any channel or creek.

1.10.4 Gas Line Relocations

None.

1.10.5 Work Along and Across KCPL Easement

The Contractor shall notify KCPL prior to construction in the area of all pole structures and power lines. Notification shall be given to allow sufficient time for a KCPL representative to be present at the jobsite during the period of construction.

Further stipulations are as follows:

- a. The cost incurred to maintain a KCPL inspector on the site, when deemed necessary, and the cost of construction incurred by KCPL for the protection of any power line, such as temporarily relocating anchors, stabilizing structures or otherwise protecting a power line, and the repair of any damages to a power line resulting from work under this contract shall be borne by the Contractor.
- b. Equipment working under KCPL lines shall follow safety rules of clearances as specified in the National Electrical Safety Code and as prescribed by OSHA, in addition to safety requirements herein.
- c. There shall be no stockpiling of dirt or other materials under KCPL lines that would jeopardize normal clearances which are prescribed by the National Electrical Safety Code.
- d. There shall be no open ditches or excavations closer than 10 feet from KCPL distribution or transmission poles.

1.10.6 Temporary Drainage Provisions

Contractor shall provide for the drainage of storm water and such water as may be applied or discharged on the site in performance of the work. Drainage facilities shall be adequate to prevent damage to the work, the site, and adjacent property. Existing drainage channels and conduits shall be cleaned, enlarged, or supplemented as necessary to carry all increased runoff attributable to Contractor's operations. Dikes shall be constructed as necessary to divert increased runoff from entering adjacent property (except in natural channels), to protect owner's facilities and the work, and to direct water to drainage channels or conduits. Ponding shall be provided as necessary to prevent downstream flooding.

1.10.7 Pollution Control

Contractor shall prevent the pollution of drains and watercourses by sanitary wastes, sediment, debris, and other substances resulting from construction activities. No sanitary wastes shall be permitted to enter any drain or watercourse other than sanitary sewers. No sediment, debris, or other substance shall be permitted to enter sanitary sewers, and reasonable measures shall be taken to prevent such materials from entering any drain or watercourse.

1.10.8 Water Line Relocations

Water Lines Relocated by the Contractor are as follows:

NONE.

1.11 STOCKPILES

Stockpiles of materials to be used in construction may be stored within the project limits designated for Contractor use on the drawings. Stockpiles shall be kept in a neat and well drained condition, giving due consideration to drainage at all times. The ground surface at stockpile locations shall be cleared, grubbed, and sealed by rubber-tired equipment. Stockpiles of materials shall be protected from contamination which may destroy the quality and fitness of the stockpiled material. If the Contractor fails to protect the stockpiles, and any material becomes unsatisfactory, such material shall be removed and replaced with satisfactory material from approved sources at no additional cost to the Government. Locations shall be coordinated with the Contracting Officer and the City of Kansas City Missouri. Areas disturbed by construction operations shall be left graded and seeded. Stockpiled material shall be protected from erosion and be above **790** feet elevation.

1.12 HAUL ROADS

1.12.1 General

All haul roads and ramps shall be constructed at no cost to the Government. Upon completion of work, all haul roads and ramps shall be removed, and the area restored to its original condition. The Contractor shall provide all necessary lights, flagmen, signs, barricades and markings at access locations. Dust control shall be such that no dust leaves the site, and adequate to ensure safe operations at all times. Total haul weights shall be restricted to the limits stated in SPECIAL CLAUSES paragraph: Restrictions on Hauling Vehicles. If the Contractor elects to use the channel bottom as a haul route, he shall take adequate precautions to protect the finished channel bottom and underlying rock. Any damage to the finished channel bottom shall be repaired at no expense to the Government. Plans for repairs shall be submitted for approval to the Contracting Officer.

1.12.2 Standards For Haul Roads

The minimum width of maintained traveled surface constructed by the Contractor shall be in accordance with the following formulas and shall provide a 2-ft. minimum shoulder width on each side of the traveled surface. The maximum allowable grade shall be in accordance with EM 385-1-1, Section 30.D. ROADS. Haul road design including grades and widths shall be submitted with the plan of operation.

(a) One-way roads:

For Vehicles up to 12 Feet in Width (W)

Minimum width (in feet) =  $W + 8$

For Vehicles 12 Feet and Over in Width (W)

Minimum width (in feet) =  $W + 12$

(b) Two-way roads:

Minimum width (W) (in feet) =  $2W + 18$

W is the maximum width in feet of the widest construction vehicle normally using the road. Fractional widths of roads shall be rounded to the next larger foot.

1.13 HAULING PERMITS

All necessary permits for hauling shall be the Contractor's responsibility.

1.13.1 Use of Boulevards

The following person shall be contacted regarding the use of roadways under Kansas City Parks, Recreations, and Boulevards jurisdiction.

Mr. Mike Herron  
Parks and Recreation Department  
City of Kansas City, Missouri  
6601 Swope Parkway  
Kansas City, Missouri 64106  
(816) 523-5613

The Contractor shall obtain a special permit from Director of Parks, Recreation and Boulevards which will authorize the applicant to operate or move a vehicle or combination of vehicles of length or weight exceeding the maximum specified in the Code, SD18-FIO-RE. Such a permit will be issued subject to the following conditions:

1.13.1.1 Special Permit

The special permit shall prohibit operation before 6 a.m. and after 6 p.m. and shall be limited to 108 feet maximum total vehicular length, including combination of vehicles, and 80,000 pounds total weight.

1.13.1.2 Protection of Streets, Sidewalks and Boulevard Systems

The Contractor shall protect all streets, sidewalks and Boulevard systems, and shall make all arrangements and necessary repairs at his own expense. Any sidewalks or roadways affected by the construction shall be appropriately signed in accordance with the latest edition of the Manual on Uniform Traffic Control Devices, and its most current revisions. A Street Closure Permit will be required and shall be obtained from the Kansas City, Missouri Public Work Department - Street and Traffic Division prior to start of work.

1.13.1.3 Protection of Trees and Shrubs

The Contractor shall protect at his discretion all trees and shrubs within the route, by fencing, staking or other physical means to prevent damages to the plants. Should damage occur to any of the existing trees and shrubs the Contractor will be required to physically protect the remaining trees and shrubs as directed and it shall be the discretion of the Director of Parks, Recreation, and Boulevards to seek compensation for damages incurred, or replacement of the damaged stock with that of equal or better quality.

1.13.1.4 Protection of Streets and Boulevards

The Contractor shall remove any dirt, earth, rock, sand, shale, debris, rubbish, or other materials deposited, spilled, or dropped on any street in the performance of the work contemplated, and shall restore such street to its former condition to the satisfaction of the Director of Parks, Recreation, and Boulevards immediately after the incident.

1.13.1.5 Use of Other City Streets

The following person shall be contacted regarding the use of roadways under Kansas City Public Works jurisdiction.

Mr. Albert Gandara  
Public Works Department  
City Hall  
Kansas City, Missouri 64106  
(816) 274-2481

1.14 GRAFFITI

The Contractor shall take the necessary steps to minimize vandalism, and shall remove graffiti from retaining walls and other surfaces prior to final acceptance of the project. Incremental acceptance of permanent work shall not relieve the Contractor from this responsibility prior to acceptance of the total work.

1.15 ACCEPTANCE OF THE PUMPBACK AND DRAINAGE SYSTEMS

The systems shall be fully operational before acceptance. Approval and acceptance of the systems shall be based on the performance of the system during operation. All coordination involved to conduct performance tests at each location are the responsibility of the Contractor.

1.16 PAYMENT

Payment shall be in accordance with the bidding schedule. Graffiti protection shall be subsidiary to related Concrete Bid Item.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

-- End of Section --

02276    MODULAR BLOCK WALL

A. GENERAL

1. Scope: The work covered by this section consists of furnishing and installing a modular block retaining wall with a soil reinforcing system, and the construction of a leveling pad for the facing units. Included are the provision of modular units; soil reinforcement, specialty fill materials (as required); backfill to the lines and grades shown on the contract drawings; and all appurtenant items required for the construction of the retaining wall system.

(a) Contractor shall submit construction drawings and design calculations for the retaining wall system prepared and stamped by a professional Engineer in the state of Missouri. Design, techniques and material evaluations shall be in accordance with the NCMA design manual and other documents stated below, SD01-GA-EC, SD04-GA-EC.

(b) Work includes furnishing and installing modular block wall (MBW) units to the lines and grades designated on the construction drawings or as directed by the Contracting Officer.

(c) Work includes preparing foundation soil, furnishing and installing leveling pad, unit drainage fill and backfill to the lines and grades shown on the construction drawings or as directed by the Contracting Officer.

(d) Work includes furnishing and installing geogrid soil reinforcement. The type, size, location, and lengths shall be determined by the contractor and submitted with the construction drawings and design calculations for the retaining wall system. Geogrid soil reinforcement shall be used on any wall 3 feet or higher, at a minimum.

2. Related Sections

- (a) Section 02246 - Geosynthetic Wall Reinforcement
- (b) Section 02712 - Drainage Aggregate

3. Reference Standards

- (a) American Society for Testing and Materials (ASTM)
  - 1. ASTM C 33 - Concrete Aggregates
  - 2. ASTM C 90 - Load Bearing Concrete Masonry Units
  - 3. ASTM C 140 - Sampling and Testing Concrete Masonry Units

4. ASTM C 145 – Solid Load-Bearing Concrete Masonry Units
5. ASTM C 150 – Portland Cement

(b) National Concrete Masonry Association (NCMA)

1. NCMA TEK 50A - Specifications for Segmental Retaining Wall Units
2. NCMA SRWU 1 - Determination of Connection Strength between Segmental Concrete Units
3. NCMA SRWU-2- Determination of Shear Strength between Segmental Concrete Units
4. NCMA Design Manual for Segmental Retaining Walls

( c ) Geosynthetic Research Institute (GRI)

1. GRI-GG1 Geogrid Rib Tensile Strength
2. GRI-GG2 Geogrid Junction Strength
3. GRI-GG3 Tension Creep Testing of Geogrids
4. GRI-GG4 Determination of Long Tern Design Strength of Geogrids
5. GRI-GG5 Determination of Geogrid (soil) Pullout

(d) Where specifications and reference documents conflict, the Contracting Officer shall make the final determination of applicable document.

4. Certification: The Contractor shall submit a notarized manufacturer's certification prior to start of work stating that the MBW units meet the requirements of this specification, SD13-FIO-RE.

5. Quality Assurance

(a) Contractor shall check the materials upon delivery to assure that specified type, grade, color and texture of MBW unit has been received.

(b) Contractor shall prevent excessive mud, wet concrete, epoxies, and like materials which may affix themselves from coming in contact with the materials.

( c ) Contractor shall protect the materials from damage. Damaged material shall not be incorporated into the reinforced soil wall.

(d) Contractor shall submit a list of five (5) previously constructed projects of similar size and magnitude by the wall installer where the specific retaining wall system has been constructed successfully. Contact names and telephone numbers shall be listed for each project.

## 6. Submittals

(a) Experience : The work shall be accomplished by a Contractor experienced in, and employing, personnel experienced in this type of work. The Contractor completing the installation shall submit to the Contracting Officer for approval documentation substantiating a minimum of 3 years experience of similar construction. The Contractor shall furnish records of past successful experience in performing this type of work in similar type soil conditions, SD04-FIO-RE.

(b) Samples : the Contractor shall supply two samples of the modular concrete units proposed for this construction, and four 12" by 12" samples of the proposed soil reinforcement material for the review of the Contracting Officer (SD14-GA).

(c) Manufacturer's certification: certified manufacturer's test report shall be provided to verify that all materials and components of the wall system are in compliance with the applicable specification (SD13-GA).

## B. PRODUCTS

### 1. Modular Block Wall Units

(a) MBW units shall be machine formed concrete blocks specifically designed for retaining wall applications.

(b) MBW units shall meet the following architectural requirements:

1. Finish of units shall be split-faced.
2. Unit faces shall be of beveled geometry.
3. Units shall be erected with a running configuration.
4. All units shall be sound and free of cracks or other defects that would interfere with the proper placing of the unit or significantly impair the strength or permanence of the construction. Cracking or excessive chipping can be grounds for rejection.
5. Color shall be concrete grey.

(c) MBW units shall meet the following structural requirements:

1. Concrete used to manufacture MBW units shall have a minimum 28 day compressive strength of 4000 psi in accordance with ASTM C 90. The concrete shall have adequate freeze/thaw protection with a maximum moisture absorption rate, by weight, of 7%.
2. Units shall be positively interlocked to provide a minimum shear capacity  $A_u$  2400 lb/ft and  $\lambda_u = 17.4$  as tested in accordance with NCMA SRWU-1.
3. Units shall provide a minimum connection strength between it and the geosynthetic reinforcement of  $a_{cs} = 720$  lb/ft and  $\lambda_{cs} = 39.6$  degrees as tested in accordance with NCMA SRWU-2, if required.

4. MBW units molded dimensions shall not differ more than  $\pm 1/16$  inch.

(d) MBW units shall meet the following constructability and geometric requirements:

1. Units shall be capable of attaining concave and convex curves.
2. Units shall be positively engaged to the unit below so as to provide a minimum of  $3/32$  inch horizontal setback per vertical foot of wall height.
3. Units shall be positively engaged to the unit below so as to provide a maximum of  $1/2$  inch horizontal setback per vertical foot of wall height.

(e) MBW units shall be one of the following approved manufacturers:

1. Keystone Retaining Wall Systems
2. Versa-Lok Retaining Wall Systems
3. Rockwood Retaining Wall Systems
4. Allan Block Retaining Wall Systems

## 2. Shear Connectors

(a) Shear connectors shall be  $1/2$  inch diameter thermoset isophthalic polyester resin-pultruded fiberglass reinforcement rods or equivalent to provide connection between vertically and horizontally adjacent units. Strength of shear connectors between vertical adjacent units shall be applicable over a design temperature of 10 degrees F to + 100 degrees F.

(b) Shear connectors shall be capable of holding the geogrid in the proper design position during grid pre-tensioning and backfilling.

## 3. Leveling Pad and Unit Fill Material

(a) Leveling Pad shall be constructed in accordance with SECTION: CAST-IN-PLACE CONCRETE and details shown on the contract drawings. The compressive strength of the concrete for the leveling pads shall be 4000 psi.

(b) Fill for units shall be free draining gravel or drainage fill.

(c) Do not run mechanical vibrating plate compactors on top of the units. Compact unit fill by running hand-operated compaction equipment just behind the unit. Compact to minimum 95% standard Proctor density (ASTM D 698)

## 4. Drainage Aggregate

(a) Drainage layer material shall be  $3/4$ " clean, angular crushed rock.

(b) Vertical drainage layer behind the wall face shall extend the entire geogrid length. In walls less than 3 feet in height where geogrid is not used, one cubic foot, minimum, of drainage fill shall be used for each square foot of wall face. Drainage fill shall be placed within cores of, between, and behind units to meet this requirement.

(c) Contractor shall submit reinforced fill sample and laboratory test results to the Contracting Officer for approval prior to the use of any proposed reinforced fill material.

## 5. Infill Soil

(a) The infill soil and drainage aggregate are the same for this wall.

(b) The infill soil shall be free of debris and organic material and consist of ¾" crushed rock. The maximum particle size shall be 4 inches. There shall be less than 20% by weight of particles greater than 1 ½ inches maximum, 5% by weight passing the #200 sieve and PI < 20.

(c) The infill soil shall be compacted in a maximum of 8 inch lifts to the following minimum densities (percentage of the maximum standard Proctor) (ASTM D 698): i) fine grained (ML-CL, SC, SM) soils to a minimum of 95%; and ii) coarse grained (GP, GW, SW, SP) soils to a minimum of 98%.

## 6. Geogrid Soil Reinforcement

(a) Geosynthetic reinforcement shall consist of geogrids manufactured specifically for soil reinforcement applications and shall be manufactured from high tenacity polyester yarn or high density polyethylene. Polyester geogrid shall be knitted from high tenacity polyester filament yarn with a molecular weight exceeding 25,000 Meg/m and a carboxyl end group values less than 30. Polyester geogrid shall be coated with an impregnated PVC coating that resists peeling, cracking, and stripping.

(b)  $T_a$ , Long Term Allowable Tensile Design Load, of the geogrid material shall be determined as follows:

$$T_a = T_{ult} / (RF_{cr} * RF_d * RF_{id} * FS)$$

$T_a$  shall be evaluated based on a 75 year design life.

### 1. $T_{ult}$ , Short Term Ultimate Tensile Strength

$T_{ult}$  is based on the minimum average roll values (MARV)

### 2. $RF_{cr}$ , Reduction Factor for Long Term Tension Creep

$RF_{cr}$  shall be determined from 10,000 hour creep testing performed in accordance with ASTM D5262. Reduction value = 1.60 minimum.

3. RFd, Reduction Factor for Durability

RFd shall be determined from polymer specific durability testing covering the range of expected soil environments. RFd = 1.10 minimum.

4. RFid, Reduction Factor for Installation Damage

RFid shall be determined from product specific construction damage testing performed in accordance with GRI-GG4. Test results shall be provided for each product to be used with project specific or more severe soil type. RFid = 1.10 minimum.

5. FS, Overall Design Factor of Safety

FS shall be 1.5 unless otherwise noted for the maximum allowable working stress calculation.

(c) The maximum design tensile load of the geogrid shall not exceed the laboratory tested ultimate strength of the geogrid/facing unit connection as limited by the "Hinge Height" divided by a factor of safety of 1.5. The connection strength testing and computation procedures shall be in accordance with NCMA SRWU-1 Test Method for Determining Connection Strength of SRW.

(d) Soil Interaction Coefficient, Ci

Ci values shall be determined per GRI:GG5 at a maximum 0.75 inch displacement.

(e) Manufacturing Quality Control

The geogrid manufacturer shall have a manufacturing quality control program that includes QC testing by an independent laboratory. The QC testing shall include:

Tensile Strength Testing

Melt Flow Index (HDPE)

Molecular Weight (Polyester)

(f) Soil reinforcement material shall be resistant to ultraviolet radiation, biological degradation, naturally encountered chemicals, alkalies, and acids. Soil reinforcement material shall meet the minimum material properties consistent with those required by modular wall supplier for reinforcement of the earth retained by the wall.

7. Common Backfill

(a) Soil placed behind the infill can be any inorganic soil with a liquid limit less than 50 and plasticity index less than 30, or existing soil on site.

(b) Backfill shall be compacted to a minimum 90% of maximum standard Proctor density (ASTM D 698).

## C. EXECUTION

### 1. Excavation

(a) Contractor shall excavate to the lines and grades shown on the project grading plans. Contractor shall take precautions to minimize over-excavation. Over-excavation shall be filled with compacted infill material, or as directed by the Contracting Officer, at the Contractor's expense.

(b) Contracting Officer will inspect the excavation and approve prior to placement of bearing pad material.

(c) Excavation of deleterious soils and replacement with compacted infill material, as directed by the Engineer, will be paid for at the contract unit prices.

(d) Over-excavated areas in front of wall face shall be filled with compacted existing soil at the Contractor's expense, or as directed by the Contracting Officer.

(e) Contractor shall verify location of existing structures and utilities prior to excavation. Contractor shall ensure all surrounding structures are protected from the effects of wall excavation.

(f) Contractor shall notify Contracting Officer if existing wall is exposed for verification of assumed conditions.

### 2. Leveling Pad Construction

(a) Leveling pad shall be placed as shown on the construction drawings with a minimum thickness of 6 inches.

(b) Foundation soil shall be proof rolled and compacted to 95% of standard Proctor density and inspected by the Contracting Officer prior to placement of leveling pad materials.

(c) Leveling pad shall be prepared to insure intimate contact of retaining wall unit with pad.

### 3. Modular Block Unit Installation

(a) First course of MBW units shall be placed on the leveling pad. The units shall be checked for level and alignment. The first course is the most important to insure accurate and acceptable results.

(b) Insure that units are in full contact with base.

(c) Units are placed side by side for full length of straight wall alignment. Alignment may be done by means of a string line or offset from base line to a molded finished face of the MBW unit. Adjust unit spacing for curved sections according to manufacturer's recommendation.

(d) Install shear connectors (if applicable).

(e) Place unit fill (if applicable).

(f) Place and compact fill behind and within units.

(g) Place geogrid soil reinforcement (if applicable).

(h) Clean all excess debris from top of units and install next course. Ensure each course is completely filled prior to proceeding to next course.

(i) Lay each successive course ensuring that shear connectors are engaged.

(j) Repeat procedures to the extent of the wall height.

(k) Upper most row of MBW units or caps shall be glued to underlying units with an adhesive, as recommended by the manufacturer.

#### 4. Delivery, Storage and Handling:

(a) General : The Contractor shall check all materials upon delivery along with accompanying product certification before accepting delivery.

(b) Storage: All components shall be properly stored on wooden risers, or other approved methods to avoid contact with mud or deleterious materials which could damage the components.

(c) Soil Reinforcement Material: Soil reinforcement material shall be stored above -20 degrees F. Rolled Soil reinforcement material may be laid flat and stored outside for a maximum period of 30 days. For extended storage, soil reinforcement material shall be stored in an enclosure or covered with tarpaulin to prevent long-term exposure.

#### 5. Measurement And Payment

(a) deleted

(b) Payment for modular wall will be made at the contract lump sum amount for “modular wall”, which price shall constitute full compensation for furnishing all plant, labor, materials and equipment required to construct the wall, complete, to the lines and grades shown on the contract

drawings. Included in the contract price shall be any required excavation, level pads, the wall units, reinforced geogrid, drainage pad, and incidentals.

( c ) deleted

6. Bidding Schedule Item applicable to the work covered in this section are as follows :

<u>Item</u>	<u>Unit</u>
“Modular Wall”	<u>lump sum</u>

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4. After all stones have been placed, excess concrete or mortar shall be cleaned from the exposed surfaces to the satisfaction of the Contracting Officer.
  5. Construction joints shall be on center 6 feet typical transverse to the channel slopes. All stone faces shall be broken, no polished or cut stone; sandblast to clean stone after placing stone.
  6. This new work needs to match the appearance of adjacent slope paving.
- H. Payment and Coverage: Payment for this work including concrete and reinforcement shall be made at the lump sum contract price bid.

02820            TURF REINFORCEMENT MAT

A.     GENERAL:

1.   References: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM)

ASTM D 792-00	Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement
ASTM D 1388-96	Standard Test Methods for Stiffness of Fabrics
ASTM D 1777-96	Standard Test Methods for Thickness of Textile Materials
ASTM D 4355-99	Standard Test Method for Deterioration of Geotextiles for Exposure to Ultraviolet Light and Water
ASTM D 5035-95	Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Strip Method)
ASTM D 5199-01	Standard Test Method for Measuring Nominal Thickness of Geotextiles and Geomembranes
TRM report	The Texas Department of Transportation Texas Transportation Institute Hydraulics and Erosion Control Laboratory <a href="http://www.dot.state.tx.us">www.dot.state.tx.us</a>

2.   Submittals: The following shall be submitted:

A.   Product Information Sheet(s) containing product description, dimensions,

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statement of intended or designed use of product, and product photographs, SD01-FIO-RE. The Contractor shall provide documentation from the manufacturer that each lot of turf reinforcement mat meets or exceeds the required specifications.

B. The Contractor shall submit samples of each type of fastener to be used with the turf reinforcement mat, SD14-FIO-RE.

3. Delivery, Storage, and Handling:

a. Delivery and Storage: Materials delivered to site shall be inspected for damage, unloaded, and stored with a minimum of handling. Materials shall not be stored directly on the ground. The Contractor shall have a copy of the manufacturer's instructions available at the construction site at all times and shall follow these instructions unless directed otherwise by the Contracting Officer.

b. Handling: Materials shall be handled in a manner that ensures delivery to the location of installation in sound, undamaged condition.

B. MATERIALS:

1. Turf Reinforcement Mat: The Contractor shall provide turf reinforcement mat which meets the following requirements:

Shear value shall be 8 psf with an initial value of 2 psf.

The composite turf reinforcement mat shall be a machine-produced permanent three-dimensional netting structure.

The matrix shall be stitch bonded between a heavy duty UV stabilized bottom net with 0.50 x 0.50 inch openings, a heavy duty UV stabilized, dramatically corrugated (crimped) intermediate netting with 0.50 x 0.50 inch openings (+/- 25%), and a super heavy duty UV stabilized top net with 0.50 x 0.50 inch openings (+/- 25%). The netting shall form prominent closely spaced ridges across the entire width of the mat. The three nettings shall be stitched together on 1.50 inch (+/- 25%) centers with UV stabilized polypropylene thread to form a permanent three-dimensional structure.

Installation staple patterns shall be clearly marked on the turf reinforcement mattings with environmentally safe paint.

The composite turf reinforcement mat shall be the North American Green C350 Three Phase, Synthetic Industries Landlok TRM 435, North American Green P350, Synthetic Industries Landlok TRM 450, Pyramat, or approved equal. Equal considerations shall

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include physical and sediment loss and final vegetative density. The permanent composite turf reinforcement mat shall have the following additional minimum physical properties:

**Material Content**

Nettings            8 OZ/SY  
                          Thread UV Stabilized Polypropylene

**Physical Specifications (per roll)**

Width                6.50 ft minimum

2. Staples/Fasteners: The Contractor shall provide staples, fasteners, pins, etc. per the manufacturer's recommendation.

**C: INSTALLATION:**

1. Turf Reinforcement Mat:

a. The Contractor shall install turf reinforcement mat as shown on the drawings. Turf reinforcement mat shall be installed in a directional manner as recommended by the manufacturer.

b. The Contractor shall assume a 20% scrap factor (overlap and burial loss) for turf reinforcement mat. Material will be trenched at the top of each bank, as shown on the Drawings, and shall be installed to match the final graded contour of the soil surface. The Contractor shall account for all scrap and trench-secured quantities in his/her quotation. Such quantities are considered incidental and non-payable for the project.

c. The Contractor shall fill turf reinforcement mat with topsoil even with the top of the turf reinforcement mat. Seeding shall be performed as specified in Section: SEEDING AND MULCHING.

2. Staples/Fasteners: Staples, fasteners, pins, and others shall be installed as per the recommendations of the manufacturer.

3. Field Quality Control: Notification: The Contractor shall notify the Contracting Officer 24 hours prior to installation of any portion of the work to allow the Contracting Officer sufficient time to inspect the work and shall obtain approval of all material prior to commencing construction. Any portion of the work installed without inspection may be removed to uncover sufficient portions of the work to allow inspection.

**D. PAYMENT AND COVERAGE:**

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1. Turf Reinforcement Mat: Payment will be by made at the lump sum contract price bid.

2. Blanket Fasteners and Staples: No additional payment shall be made for blanket fasteners, staples, or other connecting hardware. It shall be considered incidental to other contract bid items.

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